

ULTRA TOOLING



CONTENTS

I COLLET

- Swiss Collet & Guide Bush
- Rubber Collet
- Barfeeder Collet
- ER Collet
- SK Collet
- DC Collet
- NBC Collet

II ATTACHMENTS & ACCESSORIES

- Swiss Lathe Attachments
- Bar Feeder Accessories

III CUTTING

- Solid Carbide Micro Boring Cutter
- Carbide Drill Bit
- Solid Carbide End Mill
- Solid Carbide Thread Mill

Swiss Collet & Guide Bush



CONTENTS

I _____ HOW TO USE ORIGINAL CODE

II _____ TECHNICAL INFORMATION

III _____ DEAD LENGTH COLLET

IV _____ GUIDE BUSHING

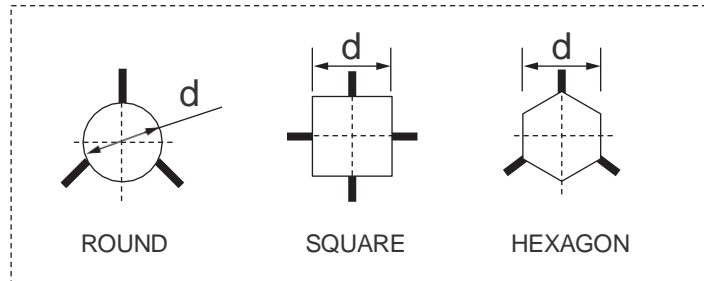
V _____ TOOLS FOR MACHINE MANUFACTURER

CITIZEN(CINCOM)
TSUGAMI
STAR
TORNOS
HANWHA
JINN FA
MIYANO
NOMURA
KSI
METHODS
MAIER
EGUGO
INDEX
LI CO
CHIAH CHYUN
RIKEN
TAKAMAZ

← **HELPFUL BLANK TEMPLATE**

Extended Nose
Step Bore
Overgrip Bore
Tapered Bore

HOW TO USE THE COLLET CODE



Part No.P2577

OPTION

SIZE

P2577 S R - L10 K - 5.2

S:STEEL
C:CARBIDE
P:PVC
CO:COPPER

R:ROUND
S:SQUARE
H:HEXAGON

L/SL:Taper/Straight extended nose

HP:High precision
K:Rubber sealed
HK:Half Rubber sealed
CL:Extra carbide
(ex.CL40,extension carbide length to 40mm)
OG:Overgrip
(ex.OG5 Land clamping length=5mm after jumping)

SB/GB:Smooth bore/Groove bore
SL/VL:S Slot/V-Slot
KC/KG:Key on cone/Key on Guiding
AR:Axial & Radial groove
SP:Super powerful groove

TECHNICAL INFO

Bore Material

Plastic-inserted collets and bushings are now available for those parts that require minimal scratching



Steel

Carbide

PVC

Bore Configurations



Round

Square

Hexagon



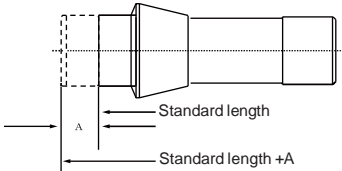
Rectangular

Profile

Radius/Chamfer/
Relief

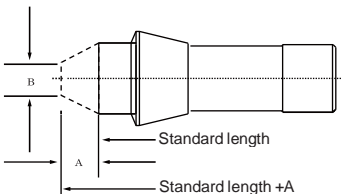
Extension Nose

Extended-nose collets and bushings are used when clearance or reach becomes an issue. Since everyone's needs are specific, there is no standard extension. We recommend that when ordering, you order the extension as short as possible to suit your needs. If you are having the extended portion of the collet or bushing tapered, you can either specify to what diameter you want it tapered, or you can go with the standard that we have established. However, in either case, you must specify that you want the nose tapered.



Straight nose

"A" must be given when collet is ordered.



Taper nose

"A" must be given when collet is ordered. and give "B" if you have specific requirement or go with our standard.

TECHNICAL INFO

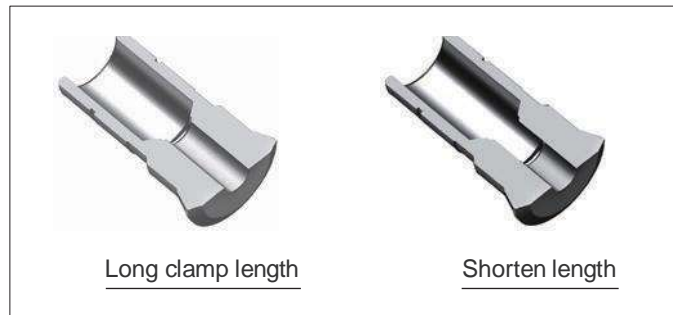
Long clamp length & Shorten length

Long clamp length :

1. Provides protection for working in multiple grooves.
2. Can encompass more, resulting in greater clamping force.
3. Provides more stable clamping for long workpieces.

Shorten length:

1. Used for workpieces where clamping injury is not allowed in the rear part.
2. Reduces the depth of through holes for short workpieces, allowing the ejector to be closer to the collet, making the clamping diameter more precise.

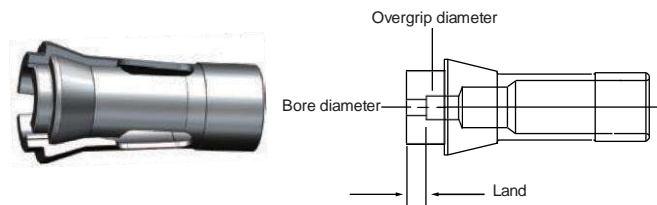


Overgrip collet: Single & Double

Overgrip collets are utilized when the collet must expand to clear a larger diameter and then grip a smaller diameter behind that larger diameter.

Example: The threads of a screw measure 7.5mm, and the shank of the screw between the threads and the head measures 7.0mm. When inserting the screw "thread end first" into the sub-spindle collet, the collet must open enough to clear the 7.5mm threads and then grip the 7.0mm shank. Because the shank has a fixed length, the 7.0mm bore of the collet must be assigned a specific length, referred to as the "LAND."

Due to the machine's limited stroke for opening and closing a collet, you may need to contact the machine manufacturer to confirm if your specific application is feasible.



When Ordering:

Please specify how long the grip diameter needs to be.

TECHNICAL INFO

Extra Carbide length

The Table below is only a basic theoretical max carbide lined length, and the actual situation needs to be determined based on different models and diameter.

Bore size(mm)	Standard carbide lined length(mm)	Max carbide lined length(mm)
$\Phi < 0.8$	OA	
$0.8 \leq \Phi \leq 1$	5.7	OA
$1 < \Phi \leq 1.5$	2	6
$1.5 < \Phi \leq 2$	5	15
$2 < \Phi \leq 3$	7	21
$3 < \Phi \leq 5$	10	30
$5 < \Phi \leq 8$	11	33
$8 < \Phi \leq 10$	13	39
$10 < \Phi \leq 14$	14	42
$14 < \Phi \leq 17$	16	OA
$17 < \Phi \leq 20$	18	OA
$20 < \Phi \leq 23$	22	OA
$23 < \Phi \leq 24$	24	OA
$24 < \Phi \leq 32$	25	OA



Axial & Radial groove Super powerful groove

Axial & Radial groove

Higher clamping force compared to the grooved standard collet due to the additional axial grooves

Super powerful groove

Highest clamping force at the same clamping pressure of the machine due to very closely spaced axial grooves



TECHNICAL INFO

Special Slot

S-SLOT

Option to modify standard straight slits into Spiral (wave-shaped) slits. Straight slits in round collet chucks and guide bushes may cause trouble when processing square or hexagonal material as the corners of the material will get into the slots. With spiral slits, you can prevent the corners of the work from getting into slots. This option is also applied for chucking round material as it can reduce the invasion of chips.

V-SLOT

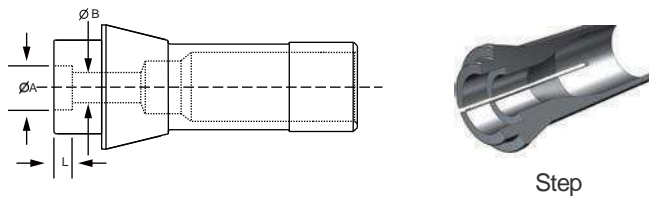
High and constant clamping force.
Clamping with virtually no clamping marks.
Alternatively usable for profile material (corner clamping)
Prevents the entry of machining chips, as the collet closes almost completely.
Easy to clean after use.



Step Collet

Step bore collets are used when the collet must hold 2 or more different diameters of a given part.

EXAMPLE: A part has a diameter of 6.35mm for 3.8 in length, then steps down to 5.08mm. You are inserting the 5.08mm diameter into the sub spindle first and you need to grip both the 5.08 and the 6.35 diameters. The collet would have both bores in it, the 6.35 at the face of the collet and into the collet for a length of 3.8. The 5.08 bore behind the 6.35 bore would run into the back bore of the collet.



When ordering, please specify Step bore collet and supply the following information:

- Bore diameter(A)
- Depth of bore(L)
- Thru bore diameter(B)

TECHNICAL INFO

Tapered Bore Collet



For gripping conical workpieces, the taper angle of the collet is precisely adapted to the workpiece

Eccentric Bore Collet



1. Eccentric bore can be eroded individually according to application
2. Through hole or offset hole is possible

PLASTIC COLLETS AND BUSHINGS

Advantages

1. High scratch-free surface on the turning parts
2. Very low coefficient of friction, thus ensuring very good sliding properties of the polymer
3. Concentricity accuracy is the same as what the user is used to by a guide bush
4. Polymer is not heat sensitive
5. Polymer is non-abrasive

Plastic inserted or all-plastic collets and bushings are now available for those parts that require minimal scratching.



P1564 COLLET



- Is not hardened
- Clamping diameter can be turned out by the user himself.
- Used for the production of prototypes, samples and one-off productions

SEALED/ HALF SEALED

1. Prevents the entry of machining chips
2. The whole slot area can be sealed
3. Resealing possible
4. Not usable with high pressure flushing in the machine



GUIDE BUSHING

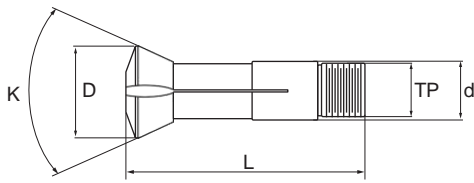


Fig 1

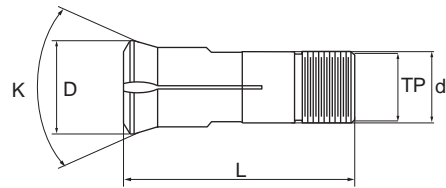


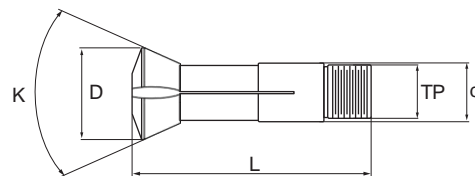
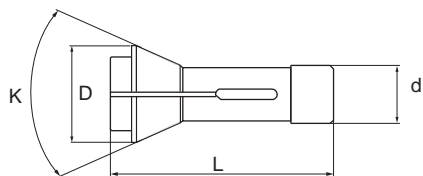
Fig 2

PART NO	Type	DIMENSION					REC.MAX BORE			WORLDWIDE REF.CODE		
		d	D	L	K	TP	Round	Hex	Square	SWISS CODE	US CODE	DIN CODE
PG944	Fig 1	9	12.5	38	32°	M8*0.75	5	4	3			
PG3001	Fig 1	11	14.5	53	32°	M10*0.75	7	5	4	F3001(5.001)	TD7	3133 E
PG354I	Fig 1	15	20	54	32°	M14*1	10	8	7			
PG353I	Fig 1	16	20.5	59	32°	M14*1	10	8	7	I353(8.001)	TD10	3260 E
PG125R	Fig 1	18	22	60	60°	M18*1	13	10	8	171.001	SD125R	3319 E
PG125R2	Fig 1	18	22	60	60°	M16*1	13	10	8		SD125R-16	3320 E
PG221T	Fig 1	21	24	57.5	12°	M18*1	15	11	9	T221(450.001)	SNC15	3438 E
PG391F	Fig 2	22	29	68	32°	M22*1	16	12.5	10	F391(39.001)	TD20R	3455 E
PG20R	Fig 1	23	28	72	32°	M22*1	16	14	11	483.001	TSG20R	
PG0201	Fig 1	24	29.5	61	60°	M24 x 1	17	14.5	12	F605(61.002)	0201	3507E
PG26TD	Fig 1	26	29	77	32°	M25 x 1	20	16	13		TD26	
PG25NS	Fig 1	28	34	82	32°	M25*1	20.5	16.5	13.5		TD25NS	
PG223T	Fig 1	28	34	82	32°	M25*1	20.5	17	14	T223(22.001)	TD25S	3602 E
PG25T	Fig 1	28	38	81	60°	M25 x 1	21	17	14	I357(18.001)	TD25	3610 E
PG230B	Fig 1	30	35	59	32°	M30*1	23	19	16	FB230(510.001)		
PG20HB	Fig 1	30	36	70	32°	M28*1	23	17	14	486.001	S20HGB	
PG20D	Fig 1	32	39.8	71	60°	M32 x 1	22	19	16	F355(282.001)	TSD20	3708 E
PG227T	Fig 1	34	41	87.5	20°	M34*1	26	22.5	18	T227(451.001)	CD25	3733 E
PG227T2	Fig 1	34	41	87.5	32°	M34*1	26	22.5	18			
PG4182	Fig 1	41	46	82	20°	M38x1	32	27	22			
PG32T	Fig 1	42	48	82	41°	M40*1	32	27.5	22.5		TD32	
PG229T	Fig 1	42	49	82	32°	M40*1	32	27.5	22.5	T229(28.001)	TD32S	3827 E
PG245T	Fig 1	45	52	82	32°	M42*1	35	30	25	T245(250.001)	TD45	
PG38SL	Fig 1	46	53	82	32°		38	32	26	SL38	H38D	
PG246T	Fig 1	46	53	92	32°	M45*1	38	32	26	T246(467.001)	TD38	
PG249T	Fig 1	48	54	81	20°	M46*1	38	33	27	T249(496.001)		
PG248T	Fig 1	48	54	82	32°	M46*1	38	33	27	T248(464.001)	STM38	

PART NO	Type	DIMENSION					REC.MAX BORE			WORLDWIDE REF.CODE
		d	D	L	K	TP	Round	Hex	Square	
PG853D	Fig 1	14	20	61.5	31°	M14*1	8.5	7	6	P853D
PG10D	Fig 1	16	20	63	31°	M14*1	10	8	7	P10D/P1053D
PG16D	Fig 1	22	26	70	30°	M20*1	15.5	13	11	P16D/P1653D
PG20D	Fig 1	30	35.2	67.5	32°	M30*1	22	19	16	P20D/NN20KD
PG25D	Fig 1	36	44	89.5	27°10'	M36*1	25	21	18	P25D/P2553D
PG30D	Fig 1	44	50	90	26°	M40x1	33	28	23	P30D/NN30TD

COLLET BY MACHINE MANUFACTURER

CITIZEN(CINCOM)



B12/L12/A12/K12/F12/M12/C12

Part No	TYPE	DIMENSION					REC.MAX BORE			WORLDWIDE REF.CODE		
		d	D	L	K	TP	Round	Hex	Square	SWISS CODE	US CODE	F. CODE
P1662	HEADSTOCK	16	21	62	32°		12	10	8			
P1662	SUB	16	21	62	32°		12	10	8			
PG125R	GUIDEBUSH	18	22	60	60°	M18*1	13	10	8	171.001	SD125R	

K16/M16/M116/A16/B16E/C16

Part No	TYPE	DIMENSION					REC.MAX BORE			WORLDWIDE REF.CODE		
		d	D	L	K	TP	Round	Hex	Square	SWISS CODE	US CODE	F. CODE
P2067	HEADSTOCK	20	28	67	32°		16	14	11.5	138E	TF20	F20 76-87
PG391F	GUIDEBUSH	22	29	68	32°	M22*1	16	12.5	10	F391 (39.001)	TD20R	

L20/L20E/A20P/M1120/B20/C20/M116/G16/ L16/20 / E16/20 / F16/20

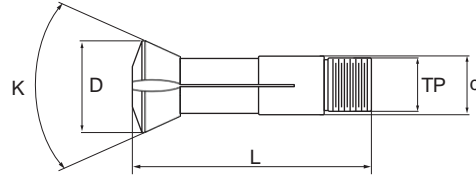
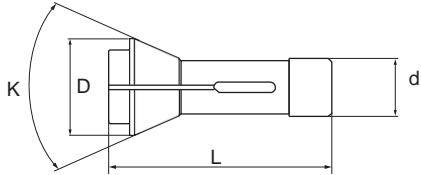
Part No	TYPE	DIMENSION					REC.MAX BORE			WORLDWIDE REF.CODE		
		d	D	L	K	TP	Round	Hex	Square	SWISS CODE	US CODE	F. CODE
P2667	HEADSTOCK	26	36	67	32°		20.5	17	14			
P2667	SUB	26	36	67	32°		20.5	17	14			
PG230B	GUIDEBUSH	30	35	59	32°	M30*1	23	19	16	FB230 (510.001)		

D25/L25/F25/E25

Part No	TYPE	DIMENSION					REC.MAX BORE			WORLDWIDE REF.CODE		
		d	D	L	K	TP	Round	Hex	Square	SWISS CODE	US CODE	F. CODE
P3078	HEADSTOCK	30	42	78	32°		25	22	18			
PG227T	GUIDEBUSH	34	41	87.5	20°	M34*1	26	22.5	18	T227 (451.001)	CD25	

COLLET FOR MACHINE MANUFACTURER

CITIZEN(CINCOM)



L32/M32/E32/A32P/C32

Part No	TYPE	DIMENSION					REC.MAX BORE			WORLDWIDE REF.CODE		
		d	D	L	K	TP	Round	Hex	Square	SWISS CODE	US CODE	F. CODE
P3792	HEADSTOCK	37	47	92	32°		32	27	23	EF37/ 1536E	TF37	F37 76-740
PG32T	GUIDEBUSH	42	48	82	41°	M40*1	32	27.5	22.5		TD32	

R01/R04

Part No	TYPE	DIMENSION					REC.MAX BORE			WORLDWIDE REF.CODE		
		d	D	L	K	TP	Round	Hex	Square	SWISS CODE	US CODE	F. CODE
P830	HEADSTOCK	8	11.6	30	30°							
PG938	GUIDEBUSH	9	12.5	38	32°	M8*0.75	5	4	3			

F10/G10/L10/R07

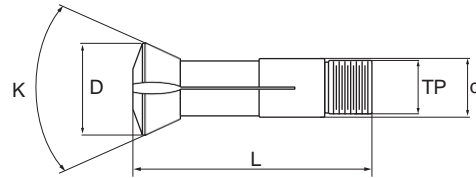
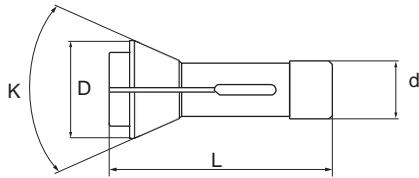
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		d	D	L	K	TP	Round	Hex	Square	SWISS CODE	US CODE	F. CODE
P15455	HEADSTOCK	15	20	45.5	30°		10	8	7			
P15455	SUB	15	20	45.5	30°		10	8	7			
PG353I	GUIDEBUSH	16	20.5	59	32°	M14*1	10	8	7	I353 (8.001)	TD10	

BL12(RL01)

Part No	TYPE	DIMENSION					REC.MAX BORE			WORLDWIDE REF.CODE		
		d	D	L	K	TP	Round	Hex	Square	SWISS CODE	US CODE	F. CODE
PT1905	HEADSTOCK	19.05	26	77	30°	M18.5x1.2					BL12	
P1662	SUB	16	21	62	32°		5	4	3			

COLLET BY MACHINE MANUFACTURER

CITIZEN(CINCOM)



K16C

Part No	TYPE	DIMENSION					REC.MAX BORE			WORLDWIDE REF.CODE		
		d	D	L	K	TP	Round	Hex	Square	SWISS CODE	US CODE	F. CODE
P2067	SUB	20	28	67	32°		16	14	11.5	138E	TF20	F20 76-87

A20C/BL20

Part No	TYPE	DIMENSION					REC.MAX BORE			WORLDWIDE REF.CODE		
		d	D	L	K	TP	Round	Hex	Square	SWISS CODE	US CODE	F. CODE
PT33100	HEADSTOCK	33	41	100	30°	M32*1.5	27	23	19		BL25	
P2667	SUB	26	36	67	30°		20.5	17	14			

BL25

Part No	TYPE	DIMENSION					REC.MAX BORE			WORLDWIDE REF.CODE		
		d	D	L	K	TP	Round	Hex	Square	SWISS CODE	US CODE	F. CODE
PT33100	HEADSTOCK	33	41	100	30°	M32*1.5	27	23	19		BL25	
P3078	HEADSTOCK	30	42	78	32°		25	22	18			

L32

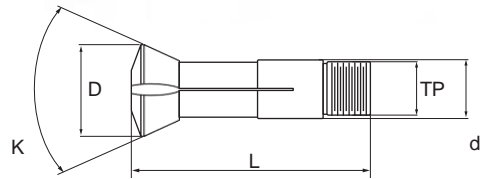
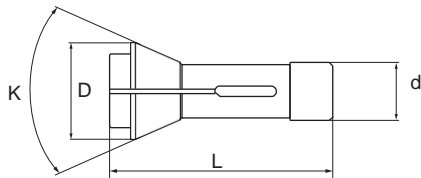
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		d	D	L	K	TP	Round	Hex	Square	SWISS CODE	US CODE	F. CODE
P4894N	HEADSTOCK	48	60	94	30°		38	33	27	TF48 NFT (0°)		
PG248T	GUIDEBUSH	48	54	82	32°	M46*1	38	33	27	T248 (464.001)	STM38	

FL42/EL42/GL30

Part No	TYPE	DIMENSION					REC.MAX BORE			WORLDWIDE REF.CODE		
		d	D	L	K	TP	Round	Hex	Square	SWISS CODE	US CODE	F. CODE
P4894N	HEADSTOCK	48	60	94	30°		38	33	27	TF48 NFT (0°)		

COLLET FOR MACHINE MANUFACTURER

TSUGAMI



T7/B007

Part No	TYPE	DIMENSION					REC.MAX BORE			WORLDWIDE REF.CODE		
		d	D	L	K	TP	Round	Hex	Square	SWISS CODE	US CODE	F. CODE
P1047	HEADSTOCK	10	16	47	40°		8	7	5.5	109E	TF10	F10 76-86
PG3001	GUIDEBUSH	11	14.5	53	32°	M10*0.75	7	5	4	F3001 (5.001)	TD7	

NP11/NT11

Part No	TYPE	DIMENSION					REC.MAX BORE			WORLDWIDE REF.CODE		
		d	D	L	K	TP	Round	Hex	Square	SWISS CODE	US CODE	F. CODE
P1448	HEADSTOCK	14	20	48	41°		10	8	7			
PG354I	GUIDEBUSH	15	20	54	32°	M14*1	10	8	7			

B012/BS12/NP17/NT17/BE12/S16P

Part No	TYPE	DIMENSION					REC.MAX BORE			WORLDWIDE REF.CODE		
		d	D	L	K	TP	Round	Hex	Square	SWISS CODE	US CODE	F. CODE
P23862	HEADSTOCK	23.8	28	62	30°		18.5	16	13		TF24	
PG20R	GUIDEBUSH	23	28	72	32°	M22*1	16	14	11	483.001	TSG20R	

BM16

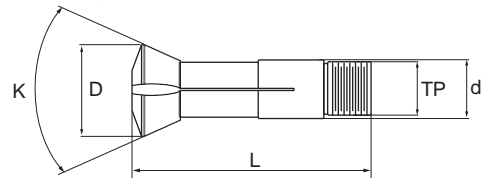
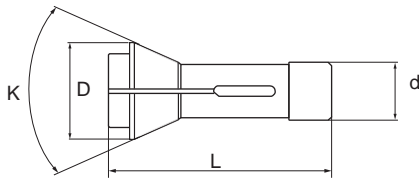
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		d	D	L	K	TP	Round	Hex	Square	SWISS CODE	US CODE	F. CODE
P3075	HEADSTOCK	30	38	75	30°	M25X1.5	22.5	19	16			
P23862	SUB	23.8	28	62	30°		18.5	16	13		TF24	

BS18/B018/S20

Part No	TYPE	DIMENSION					REC.MAX BORE			WORLDWIDE REF.CODE		
		d	D	L	K	TP	Round	Hex	Square	SWISS CODE	US CODE	F. CODE
P2877	HEADSTOCK	28	35	77	32°		23	20	16		BS20	
P23862	SUB	23.8	28	62	30°		18.5	16	13		TF24	
PG20HB	GUIDEBUSH	30	36	70	32°	M28*1	23	17	14	486.001	S20HGB	

COLLET BY MACHINE MANUFACTURER

TSUGAMI



BS20/B020/BE20/BW20

Part No	TYPE	DIMENSION					REC.MAX BORE			WORLDWIDE REF.CODE		
		d	D	L	K	TP	Round	Hex	Square	SWISS CODE	US CODE	F. CODE
P2877	HEADSTOCK	28	35	77	32°		23	20	16		BS20	
P2577	SUB	25	35	77	32°		21	17.5	14.5	145E	TF25	F25 76-64
PG20HB	GUIDEBUSH	30	36	70	32°	M28*1	23	17	14	486.001	S20HGB	

B026/BS26/SS26

Part No	TYPE	DIMENSION					REC.MAX BORE			WORLDWIDE REF.CODE		
		d	D	L	K	TP	Round	Hex	Square	SWISS CODE	US CODE	F. CODE
P3380	HEADSTOCK	33	40	80	32°		28	24	20		S25-HM	
P3380	SUB	33	40	80	32°		28	24	20		S25-HM	
PG227T2	GUIDEBUSH	34	41	87.5	32°	M34*1	26	22.5	18			

B032/BS32/SS32

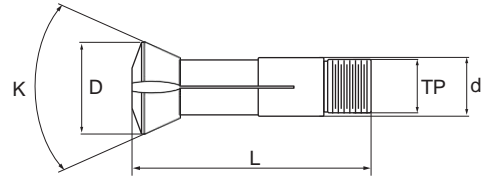
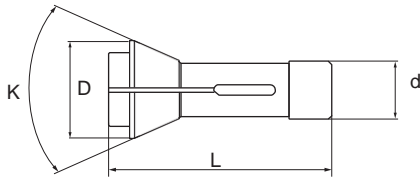
Part No	TYPE	DIMENSION					REC.MAX BORE			WORLDWIDE REF.CODE		
		d	D	L	K	TP	Round	Hex	Square	SWISS CODE	US CODE	F. CODE
PA3791	HEADSTOCK	37	44	91	32°		32	27	22			
PA3791	SUB	37	44	91	32°		32	27	22			
PG4182	GUIDEBUSH	41	46	82	20°	M38x1	32	27	22			

B038

Part No	TYPE	DIMENSION					REC.MAX BORE			WORLDWIDE REF.CODE		
		d	D	L	K	TP	Round	Hex	Square	SWISS CODE	US CODE	F. CODE
P4392	HEADSTOCK	43	53	92	32°		39	33.5	27.5		TF43	
P48100	SUB	48	54	100	32°		41	35	29	BS38	BS38	F48/38
PG249T	GUIDEBUSH	48	54	81	20°	M46*1	38	33	27	T249 (496.001)		

COLLET FOR MACHINE MANUFACTURER

STAR



JNC-10 SR-10J

Part No	TYPE	DIMENSION					REC.MAX BORE			WORLDWIDE REF.CODE		
		d	D	L	K	TP	Round	Hex	Square	SWISS CODE	US CODE	F. CODE
P1564	HEADSTOCK	15	21	64	32°		13	11	9	120E	TF15	F15 76-580
PG353I	GUIDEBUSH	16	20.5	59	32°	M14*1	12	9	7	I353 (8.001)	TD10	

S-13 VNC-12 SNC-15 JNC-16 RNC-16 SI-12

Part No	TYPE	DIMENSION					REC.MAX BORE			WORLDWIDE REF.CODE		
		d	D	L	K	TP	Round	Hex	Square	SWISS CODE	US CODE	F. CODE
P1867T	HEADSTOCK	18	25	67	32°		10.5	11.5	9.5		TF 18	
PG221T	GUIDEBUSH	21	24	57.5	12°	M18*1	15	11	9	T221 (450.001)	SNC15	

SB-12 SW-12 SH-12 SE-12

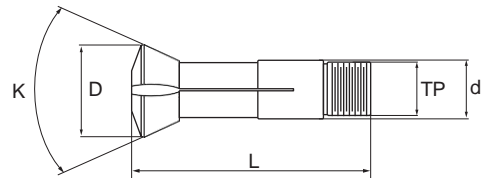
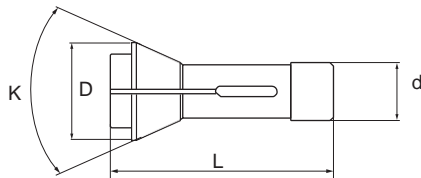
Part No	TYPE	DIMENSION					REC.MAX BORE			WORLDWIDE REF.CODE		
		d	D	L	K	TP	Round	Hex	Square	SWISS CODE	US CODE	F. CODE
P2067	HEADSTOCK	20	28	67	32°		16	14	11.5	138E	TF20	F20 76-87
PG221T	GUIDEBUSH	21	24	57.5	12°	M18*1	15	11	9	T221 (450.001)	SNC15	

SB-16 SR-16/16R KJR-16 SH-16 SA-16R

Part No	TYPE	DIMENSION					REC.MAX BORE			WORLDWIDE REF.CODE		
		d	D	L	K	TP	Round	Hex	Square	SWISS CODE	US CODE	F. CODE
P2067	HEADSTOCK	20	28	67	32°		16	14	11.5	138E	TF20	F20 76-87
PG391F	GUIDEBUSH	22	29	68	32°	M22*1	16	12.5	10	F391 (39.001)	TD20R	

COLLET BY MACHINE MANUFACTURER

STAR



SR-20 SV-20 ST-20 SW-20 SB-20 VNC-20

Part No	TYPE	DIMENSION					REC.MAX BORE			WORLDWIDE REF.CODE		
		d	D	L	K	TP	Round	Hex	Square	SWISS CODE	US CODE	F. CODE
P2667	HEADSTOCK	26	36	67	32°		20.5	17	14			
P2667	SUB	26	36	67	32°		20.5	17	14			
PG230B	GUIDEBUSH	30	35	59	32°	M30*1	23	19	16	FB230 (510.001)		

SR23

Part No	TYPE	DIMENSION					REC.MAX BORE			WORLDWIDE REF.CODE		
		d	D	L	K	TP	Round	Hex	Square	SWISS CODE	US CODE	F. CODE
P2877	HEADSTOCK	28	35	77	32°		23	20	16		BS20	F30 76-63
PG230B	GUIDEBUSH	30	35	59	32°	M30*1	23	19	16	FB230 (510.001)		

SC-20 KJR25/25B MR25

Part No	TYPE	DIMENSION					REC.MAX BORE			WORLDWIDE REF.CODE		
		d	D	L	K	TP	Round	Hex	Square	SWISS CODE	US CODE	F. CODE
P3080	HEADSTOCK	30	42	80	32°		26	22	18	157E	TF30	F30 76-63
P3080	SUB	30	42	80	32°		26	22	18	157E	TF30	F30 76-63

SR-32 VNC-32 KNC-32 STM-32 SV-32J II

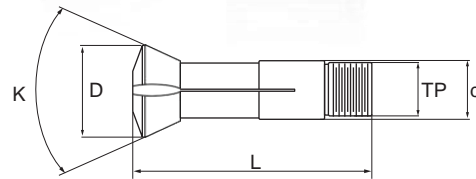
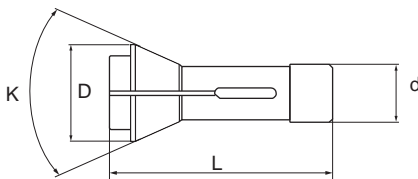
Part No	TYPE	DIMENSION					REC.MAX BORE			WORLDWIDE REF.CODE		
		d	D	L	K	TP	Round	Hex	Square	SWISS CODE	US CODE	F. CODE
P3792	HEADSTOCK	37	47	92	32°		32	27	23	EF37/1536E	TF37	F37 76-740
PG229T	GUIDEBUSH	42	49	82	32°	M40*1	32	27.5	22.5	T229 (28.001)	TD32S	

SR-38 SV-38R ST-38 SX-38 SG-42

Part No	TYPE	DIMENSION					REC.MAX BORE			WORLDWIDE REF.CODE		
		d	D	L	K	TP	Round	Hex	Square	SWISS CODE	US CODE	F. CODE
P4894N	HEADSTOCK	48	60	94	30°		38	33	27	TF48 NFT (0°)		
PG248T	GUIDEBUSH	48	54	82	32°	M46*1	38	33	27	T248 (464.001)	STM38	

COLLET FOR MACHINE MANUFACTURER

TORNOS



DECO 2000 10,ENC74

Part No	TYPE	DIMENSION					REC.MAX BORE			WORLDWIDE REF.CODE		
		d	D	L	K	TP	Round	Hex	Square	SWISS CODE	US CODE	F. CODE
P1364	HEADSTOCK	13	19.5	64	32°		10	9	7	116E	TF13	F13 76-357
P1364	SUB	13	19.5	64	32°		10	9	7	116E	TF13	F13 76-357
PG353I	GUIDEBUSH	16	20.5	59	32°	M14*1	10	8	7	I353(8.001)	TD10	

ENC16 DECO2000 13/16

Part No	TYPE	DIMENSION					REC.MAX BORE			WORLDWIDE REF.CODE		
		d	D	L	K	TP	Round	Hex	Square	SWISS CODE	US CODE	F. CODE
P2054	HEADSTOCK	20	26	54	30°		16	14.5	12	136E		F20-201
P2054	SUB	20	26	54	30°		16	14.5	12	136E		F20-201
PG0201	GUIDEBUSH	24	29.5	61	60°	M24 x 1	17	14.5	12	F605(61.002)	0201	

Elector16

Part No	TYPE	DIMENSION					REC.MAX BORE			WORLDWIDE REF.CODE		
		d	D	L	K	TP	Round	Hex	Square	SWISS CODE	US CODE	F. CODE
P2054	HEADSTOCK	20	26	54	30°		16	14.5	12	136E		F20-201
PG0201	GUIDEBUSH	24	29.5	61	60°	M24 x 1	17	14.5	12	F605(61.002)	0201	

ENC164

Part No	TYPE	DIMENSION					REC.MAX BORE			WORLDWIDE REF.CODE		
		d	D	L	K	TP	Round	Hex	Square	SWISS CODE	US CODE	F. CODE
P1564	HEADSTOCK	15	21	64	32°		13	11	9	120E	TF15	F15 76-580
P1564	SUB	15	21	64	32°		13	11	9	120E	TF15	F15 76-580
PG0201	GUIDEBUSH	24	29.5	61	60°	M24 x 1	17	14.5	12	F605(61.002)	0201	

ENC162

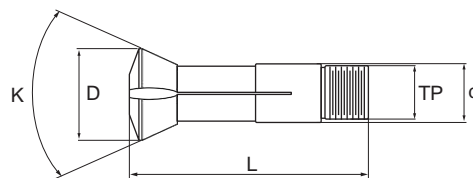
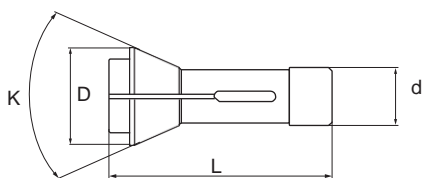
Part No	TYPE	DIMENSION					REC.MAX BORE			WORLDWIDE REF.CODE		
		d	D	L	K	TP	Round	Hex	Square	SWISS CODE	US CODE	F. CODE
P1564	HEADSTOCK	15	21	64	32°		13	11	9	120E	TF15	F15 76-580
PG0201	GUIDEBUSH	24	29.5	61	60°	M24 x 1	17	14.5	12	F605(61.002)	0201	

TOP-100

Part No	TYPE	DIMENSION					REC.MAX BORE			WORLDWIDE REF.CODE		
		d	D	L	K	TP	Round	Hex	Square	SWISS CODE	US CODE	F. CODE
P1664	HEADSTOCK	16	21	64	32°		12	10	8	1212E	TF16	F16 76-1076
P1664	SUB	16	21	64	32°		12	10	8	1212E	TF16	F16 76-1076

COLLET BY MACHINE MANUFACTURER

TORNOS



R125

Part No	TYPE	DIMENSION					REC.MAX BORE			WORLDWIDE REF.CODE		
		d	D	L	K	TP	Round	Hex	Square	SWISS CODE	US CODE	F. CODE
P1664	HEADSTOCK	16	21	64	32°		12	10	8	1212E	TF16	F16 76-1076
PG353I	GUIDEBUSH	16	20.5	59	32°	M14*1	10	8	7	I353(8.001)	TD10	

R10 M10

Part No	TYPE	DIMENSION					REC.MAX BORE			WORLDWIDE REF.CODE		
		d	D	L	K	TP	Round	Hex	Square	SWISS CODE	US CODE	F. CODE
P1564	HEADSTOCK	15	21	64	32°		13	11	9	120E	TF15	F15 76-580
PG353I	GUIDEBUSH	16	20.5	59	32°	M14*1	10	8	7	I353(8.001)	TD10	

DECO-7

Part No	TYPE	DIMENSION					REC.MAX BORE			WORLDWIDE REF.CODE		
		d	D	L	K	TP	Round	Hex	Square	SWISS CODE	US CODE	F. CODE
P1047	HEADSTOCK	10	16	47	40°		8	7	5.5	109E	TF10	F10 76-86
P1047	SUB	10	16	47	40°		8	7	5.5	109E	TF10	F10 76-86
PG3001	GUIDEBUSH	11	14.5	53	32°	M10*0.75	7	5	4	F3001(5.001)	TD7	

TOP200 ENC262 ENC264

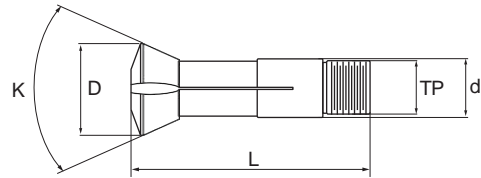
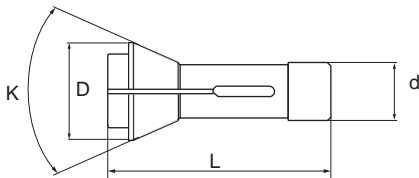
Part No	TYPE	DIMENSION					REC.MAX BORE			WORLDWIDE REF.CODE		
		d	D	L	K	TP	Round	Hex	Square	SWISS CODE	US CODE	F. CODE
P3065	HEADSTOCK	30	38	65	30°		25	22	18	1446 E	0161	F30 76-101
P2577	SUB	25	35	77	32°		21	17.5	14.5	145E	TF25	F25 76-64

EVODECO 16A

Part No	TYPE	DIMENSION					REC.MAX BORE			WORLDWIDE REF.CODE		
		d	D	L	K	TP	Round	Hex	Square	SWISS CODE	US CODE	F. CODE
P2054	HEADSTOCK	20	26	54	30°		16	14.5	12	136E		F20-201
P2067	SUB	20	28	67	32°		16	14	11.5	138E	TF20	F20 76-87
PG0201	GUIDEBUSH	24	29.5	61	60°	M24 x 1	17	14.5	12	F605(61.002)	0201	

COLLET FOR MACHINE MANUFACTURER

TORNOS



DECO 2000 1"

Part No	TYPE	DIMENSION					REC.MAX BORE			WORLDWIDE REF.CODE		
		d	D	L	K	TP	Round	Hex	Square	SWISS CODE	US CODE	F. CODE
P3065	HEADSTOCK	30	38	65	30°		25	22	18	1446 E	0161	
P3065	SUB	30	38	65	30°		25	22	18	1446 E	0161	
PG227T	GUIDEBUSH	34	41	87.5	20°	M34*1	26	22.5	18	T227(451.001)	CD25	

DT26 SIGMA 20

Part No	TYPE	DIMENSION					REC.MAX BORE			WORLDWIDE REF.CODE		
		d	D	L	K	TP	Round	Hex	Square	SWISS CODE	US CODE	F. CODE
P3065	HEADSTOCK	30	38	65	30°		25	22	18	1446 E	0161	
PG227T	GUIDEBUSH	34	41	87.5	20°	M34*1	26	22.5	18	T227(451.001)	CD25	

DELTA 20/5 M20 R20 RR20

Part No	TYPE	DIMENSION					REC.MAX BORE			WORLDWIDE REF.CODE		
		d	D	L	K	TP	Round	Hex	Square	SWISS CODE	US CODE	F. CODE
P2577	HEADSTOCK	25	35	77	32°		21	17.5	14.5	145E	TF25	F25 76-64
PG25T	GUIDEBUSH	28	38	81	60°	M25 x 1	21	17	14	I357(18.001)	TD25	

DELTA 20/5 DD

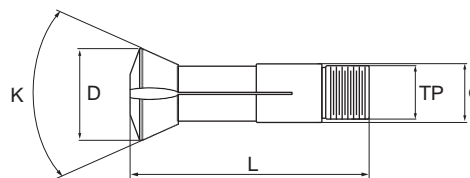
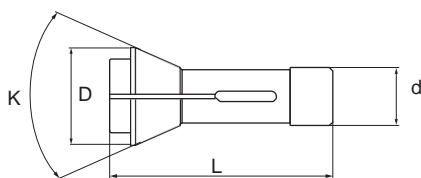
Part No	TYPE	DIMENSION					REC.MAX BORE			WORLDWIDE REF.CODE		
		d	D	L	K	TP	Round	Hex	Square	SWISS CODE	US CODE	F. CODE
P2577	HEADSTOCK	25	35	77	32°		21	17.5	14.5	145E	TF25	F25 76-64
PG26TD	GUIDEBUSH	26	29	77	32°	M25 x 1	20	16	13		TD26	

DECO 2000 20MM ENC167

Part No	TYPE	DIMENSION					REC.MAX BORE			WORLDWIDE REF.CODE		
		d	D	L	K	TP	Round	Hex	Square	SWISS CODE	US CODE	F. CODE
P2577	HEADSTOCK	25	35	77	32°		21	17.5	14.5	145E	TF25	F25 76-64
P2577	SUB	25	35	77	32°		21	17.5	14.5	145E	TF25	F25 76-64
PG25T	GUIDEBUSH	28	38	81	60°	M25 x 1	21	17	14	I357(18.001)	TD25	

COLLET BY MACHINE MANUFACTURER

TORNOS



GT32

Part No	TYPE	DIMENSION					REC.MAX BORE			WORLDWIDE REF.CODE		
		d	D	L	K	TP	Round	Hex	Square	SWISS CODE	US CODE	F. CODE
P3792	HEADSTOCK	37	47	92	32°		32	27	23	EF37/1536E	TF37	F37 76-740
PG229T	GUIDEBUSH	42	49	82	32°	M40*1	32	27.5	22.5	T229(28.001)	TD32S	

DECO 2000 26/32

Part No	TYPE	DIMENSION					REC.MAX BORE			WORLDWIDE REF.CODE		
		d	D	L	K	TP	Round	Hex	Square	SWISS CODE	US CODE	F. CODE
P3792	HEADSTOCK	37	47	92	32°		32	27	23	EF37/1536E	TF37	F37 76-740
P3792	SUB COLLET	37	47	92	32°		32	27	23	EF37/1536E	TF37	F37 76-740
PG229T	GUIDEBUSH	42	49	82	32°	M40*1	32	27.5	22.5	T229(28.001)	TD32S	

MR32

Part No	TYPE	DIMENSION					REC.MAX BORE			WORLDWIDE REF.CODE		
		d	D	L	K	TP	Round	Hex	Square	SWISS CODE	US CODE	F. CODE
P3792	HEADSTOCK	37	47	92	32°		32	27	23	EF37/1536E	TF37	F37 76-740
PG32T	GUIDEBUSH	42	48	82	41°	M40*1	32	27.5	22.5		TD32	

DELTA 20

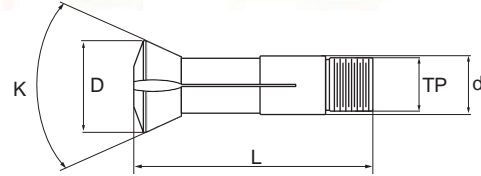
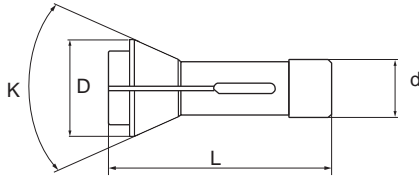
Part No	TYPE	DIMENSION					REC.MAX BORE			WORLDWIDE REF.CODE		
		d	D	L	K	TP	Round	Hex	Square	SWISS CODE	US CODE	F. CODE
P23862	HEADSTOCK	23.8	28	62	30°		18.5	16	13		TF24	
PG26TD	GUIDEBUSH	26	29	77	32°	M25 x 1	20	16	13		TD26	

DELTA 12/5

Part No	TYPE	DIMENSION					REC.MAX BORE			WORLDWIDE REF.CODE		
		d	D	L	K	TP	Round	Hex	Square	SWISS CODE	US CODE	F. CODE
P2054	HEADSTOCK	20	26	54	30°		16	14.5	12	136E		F20-201
PG26TD	GUIDEBUSH	26	29	77	32°	M25 x 1	20	16	13		TD26	

COLLET FOR MACHINE MANUFACTURER

HANWHA



XD12III XE12 XP12 XD10 ML12S SL12S/H SL12S SL12SE XP12S XD12H

Part No	TYPE	DIMENSION					REC.MAX BORE			WORLDWIDE REF.CODE		
		d	D	L	K	TP	Round	Hex	Square	SWISS CODE	US CODE	F. CODE
P1664	HEADSTOCK	16	21	64	32°		12	10	8	1212E	TF16	F16 76-1076
P1664	SUB	16	21	64	32°		12	10	8	1212E	TF16	F16 76-1076
PG125R	GUIDEBUSH	18	22	60	60°	M18*1	13	10	8	171.001	SD125R	

XD12III / XE12 / XP12 (Europe), XD10 (Europe)

Part No	TYPE	DIMENSION					REC.MAX BORE			WORLDWIDE REF.CODE		
		d	D	L	K	TP	Round	Hex	Square	SWISS CODE	US CODE	F. CODE
P1564	HEADSTOCK	15	21	64	32°		13	11	9	120E	TF15	F15 76-580
P1564	SUB	15	21	64	32°		13	11	9	120E	TF15	F15 76-580
PG125R2	GUIDEBUSH	18	22	60	60°	M16*1	13	10	8		SD125R-16	

XD16III XE16 XP16 SL16

Part No	TYPE	DIMENSION					REC.MAX BORE			WORLDWIDE REF.CODE		
		d	D	L	K	TP	Round	Hex	Square	SWISS CODE	US CODE	F. CODE
P2255	HEADSTOCK	22	30	55	30°		16	15	12	140E	TF22	F22 76-71
P2255	SUB	22	30	55	30°		16	15	12	140E	TF22	F22 76-71
PG391F	GUIDEBUSH	22	29	68	32°	M22*1	16	12.5	10	F391(39.001)	TD20R	

XD20II XE20 XP20S XD20V XP20 SL20H SL20HP SL20S

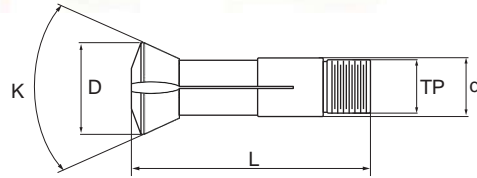
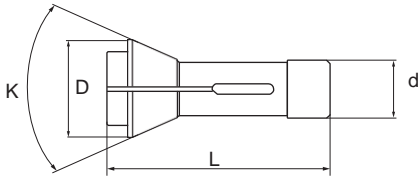
Part No	TYPE	DIMENSION					REC.MAX BORE			WORLDWIDE REF.CODE		
		d	D	L	K	TP	Round	Hex	Square	SWISS CODE	US CODE	F. CODE
P2577	HEADSTOCK	25	35	77	32°		21	17.5	14.5	145E	TF25	F25 76-64
P2577	SUB	25	35	77	32°		21	17.5	14.5	145E	TF25	F25 76-64
PG25NS	GUIDEBUSH	28	34	82	32°		20.5	16.5	13.5		TD25NS	

HANEX25 ML26H ML26S SL26H SL26HP SL26S XD26H

Part No	TYPE	DIMENSION					REC.MAX BORE			WORLDWIDE REF.CODE		
		d	D	L	K	TP	Round	Hex	Square	SWISS CODE	US CODE	F. CODE
P3080	HEADSTOCK	30	42	80	32°		26	22	18	157E	TF30	F30 76-63
P3080	SUB	30	42	80	32°		26	22	18	157E	TF30	F30 76-63
PG227T	GUIDEBUSH	34	41	87.5	20°	M34*1	26	22.5	18	T227(451.001)	CD25	

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HANWHA



XD26II/XE26 /XP26, XDI26

Part No	TYPE	DIMENSION					REC.MAX BORE			WORLDWIDE REF.CODE		
		d	D	L	K	TP	Round	Hex	Square	SWISS CODE	US CODE	F. CODE
P3245	HEADSTOCK	32	75	45	30°		28	24	19	161E		F32 76-221
P3245	SUB	32	75	45	30°		28	24	19	161E		F32 76-221
PG227T	GUIDEBUSH	34	41	87.5	20°	M34*1	26	22.5	18	T227(451.001)	CD25	

XD32

Part No	TYPE	DIMENSION					REC.MAX BORE			WORLDWIDE REF.CODE		
		d	D	L	K	TP	Round	Hex	Square	SWISS CODE	US CODE	F. CODE
P3792	HEADSTOCK	37	47	92	32°		32	27	23	EF37/1536E	TF37	F37 76-740
P3792	SUB	37	47	92	32°		32	27	23	EF37/1536E	TF37	F37 76-740
PG227T	GUIDEBUSH	34	41	87.5	20°	M34*1	26	22.5	18	T227(451.001)	CD25	

XD32II STL32 (S) XP32 SL32HP STL32H XD32H

Part No	TYPE	DIMENSION					REC.MAX BORE			WORLDWIDE REF.CODE		
		d	D	L	K	TP	Round	Hex	Square	SWISS CODE	US CODE	F. CODE
P3792	HEADSTOCK	37	47	92	32°		32	27	23	EF37/1536E	TF37	F37 76-740
P3792	SUB	37	47	92	32°		32	27	23	EF37/1536E	TF37	F37 76-740
PG229T	GUIDEBUSH	42	49	82	32°	M40*1	32	27.5	22.5	T229(28.001)	TD32S	

XD35II XE35 SL35 SL35HP XD35M

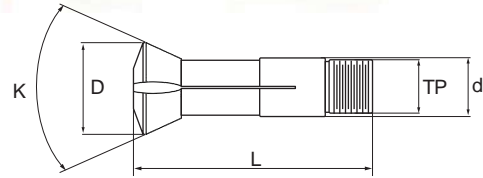
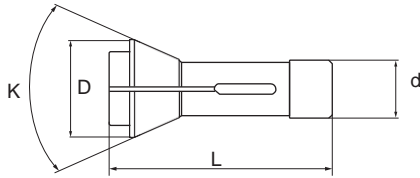
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		d	D	L	K	TP	Round	Hex	Square	SWISS CODE	US CODE	F. CODE
P4092	HEADSTOCK	40	50	92	32°		35	30	24		TF40	F40-SL35
P4092	SUB	40	50	92	32°		35	30	24		TF40	
PG245T	GUIDEBUSH	45	52	82	32°	M42*1	35	30	25	T245(250.001)	TD45	

XD38II(F)

Part No	TYPE	DIMENSION					REC.MAX BORE			WORLDWIDE REF.CODE		
		d	D	L	K	TP	Round	Hex	Square	SWISS CODE	US CODE	F. CODE
P4492	HEADSTOCK	44	52	92	33°		38	33	27		TF44	F44 76-92
P4492	SUB	44	52	92	33°		38	33	27		TF44	F44 76-92
PG38SL	GUIDEBUSH	46	53	82	32°		38	32	26	SL38	H38D	

COLLET FOR MACHINE MANUFACTURER

HANWHA



XD38II-N (S)

Part No	TYPE	DIMENSION					REC.MAX BORE			WORLDWIDE REF.CODE		
		d	D	L	K	TP	Round	Hex	Square	SWISS CODE	US CODE	F. CODE
P4492	HEADSTOCK	44	52	92	33°		38	33	27		TF44	F44 76-92
P4492	SUB	44	52	92	33°		38	33	27		TF44	F44 76-92

XD38II-H(F φ40) XD38II-H (S), R (F,S) STL42

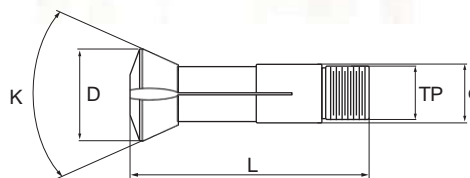
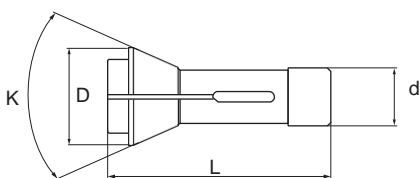
Part No	TYPE	DIMENSION					REC.MAX BORE			WORLDWIDE REF.CODE		
		d	D	L	K	TP	Round	Hex	Square	SWISS CODE	US CODE	F. CODE
P4894N	HEADSTOCK	48	60	94	30°		38	33	27		TF48 NFT (0°)	
P4894N	SUB	48	60	94	30°		38	33	27		TF48 NFT (0°)	

STL38H (S) / Standard, Y3 STL38H (S) / none Y3

Part No	TYPE	DIMENSION					REC.MAX BORE			WORLDWIDE REF.CODE		
		d	D	L	K	TP	Round	Hex	Square	SWISS CODE	US CODE	F. CODE
P4894N	ADSTOCK COLL	48	60	94	30°		38	33	27		TF48 NFT (0°)	
P4894N	SUB	48	60	94	30°		38	33	27		TF48 NFT (0°)	

COLLET BY MACHINE MANUFACTURER

JIN FA



JINN FA JSL-20

Part No	TYPE	DIMENSION					REC.MAX BORE			WORLDWIDE REF.CODE		
		d	D	L	K	TP	Round	Hex	Square	SWISS CODE	US CODE	F. CODE
P2877	HEADSTOCK	28	35	77	32°		23	20	16		BS20	
P2877	SUB	28	35	77	32°		23	20	16		BS20	
PG20HB	GUIDEBUSH	30	36	70	32°	M28*1	23	17	14	486.001	S20HGB	

JINN FA JSL-26

Part No	TYPE	DIMENSION					REC.MAX BORE			WORLDWIDE REF.CODE		
		d	D	L	K	TP	Round	Hex	Square	SWISS CODE	US CODE	F. CODE
P3080	HEADSTOCK	30	42	80	32°		26	22	18	157E	TF30	F30 76-63
P3080	SUB	30	42	80	32°		26	22	18	157E	TF30	F30 76-63
PG227T	GUIDEBUSH	34	41	87.5	20°	M34*1	26	22.5	18	T227(451.001)	CD25	

JINN FA JSL-32

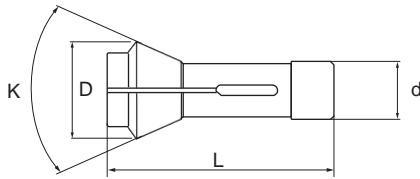
Part No	TYPE	DIMENSION					REC.MAX BORE			WORLDWIDE REF.CODE		
		d	D	L	K	TP	Round	Hex	Square	SWISS CODE	US CODE	F. CODE
P3792	HEADSTOCK	37	47	92	32°		32	27	23	EF37/1536E	TF37	F37 76-740
P3792	SUB	37	47	92	32°		32	27	23	EF37/1536E	TF37	F37 76-740
PG32T	GUIDEBUSH	42	48	82	41°	M40*1	32	27.5	22.5		TD32	

JINN FA JSL-42

Part No	TYPE	DIMENSION					REC.MAX BORE			WORLDWIDE REF.CODE		
		d	D	L	K	TP	Round	Hex	Square	SWISS CODE	US CODE	F. CODE
P4894N	HEADSTOCK	48	60	94	30°		38	33	27		TF48 NFT (0°)	

COLLET FOR MACHINE MANUFACTURER

MIYANO



Miyano BNC-34 BND-34 BNE-34 BNJ-34

Part No	TYPE	DIMENSION				REC.MAX BORE			WORLDWIDE REF.CODE		
		d	D	L	K	Round	Hex	Square			
P444108	HEADSTOCK	44.4	54.2	108	30°				BNC34		
P444108	SUB	44.4	54.2	108	30°				BNC34		

Miyano DIN171E

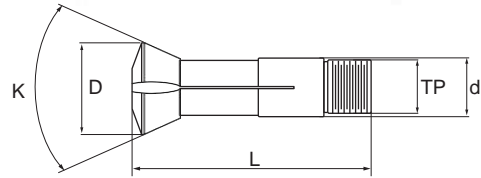
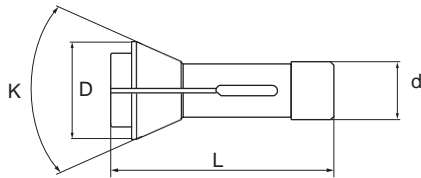
Part No	TYPE	DIMENSION				REC.MAX BORE			WORLDWIDE REF.CODE		
		d	D	L	K	Round	Hex	Square	SWISS CODE	US CODE	F. CODE
PA4294	HEADSTOCK	42	55	94	30°	36	30	25	171E		F42 76-99

Miyano DIN173E

Part No	TYPE	DIMENSION				REC.MAX BORE			WORLDWIDE REF.CODE		
		d	D	L	K	Round	Hex	Square	SWISS CODE	US CODE	F. CODE
PA4894	HEADSTOCK	48	60	94	30°	42	36	29	173E	TF48	F48 76-81

COLLET BY MACHINE MANUFACTURER

NOMURA



NOMURA P8

Part No	TYPE	DIMENSION					REC.MAX BORE			WORLDWIDE REF.CODE
		d	D	L	K	TP	Round	Hex	Square	
P12582	HEADSTOCK	12	18	58.2	32°					P853C
PG853D	GUIDEBUSH	14	20	61.5	31°	M14*1	8.5	7	6	P853D

NOMURA P10 NS-P1053

Part No	TYPE	DIMENSION					REC.MAX BORE			WORLDWIDE REF.CODE
		d	D	L	K	TP	Round	Hex	Square	
P1650	HEADSTOCK	16	22	50	31°		10	8	7	P10C/P1053C
PG10D	GUIDEBUSH	16	20	63	31°	M14*1	10	8	7	P10D/P1053D

NOMURA P16 NN-16SB NS-P1253 NS-P1653 SN-160

Part No	TYPE	DIMENSION					REC.MAX BORE			WORLDWIDE REF.CODE
		d	D	L	K ((L.L))	TP	Round	Hex	Square	
P2068	HEADSTOCK	20	26	68	27°10'					P16C/P1653C
PG16D	GUIDEBUSH	22	26	70	30°	M20*1	15.5	13	11	P16D/P1653D

NOMURA P20 NN-20J2 NN-20UB

Part No	TYPE	DIMENSION					REC.MAX BORE			WORLDWIDE REF.CODE
		d	D	L	K	TP	Round	Hex	Square	
P2667	HEADSTOCK	26	36	67	32°		20.5	17	14	
PG20D	GUIDEBUSH	30	35.2	67.5	32°	M30*1	22	19	16	P20D/NN20KD

NOMURA P25 NN-25

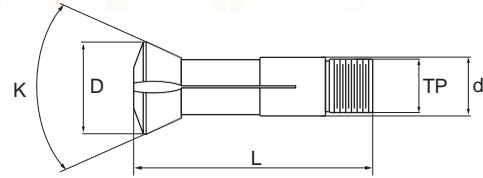
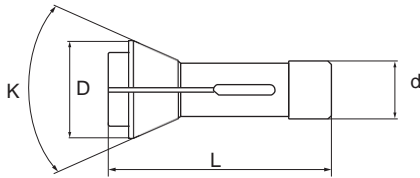
Part No	TYPE	DIMENSION					REC.MAX BORE			WORLDWIDE REF.CODE
		d	D	L	K ((L.L))	TP	Round	Hex	Square	
P32835	HEADSTOCK	32	42	83.5	30°20'					P25C/P2553C
PG25D	GUIDEBUSH	36	44	89.5	27°10'	M36*1	25	21	18	P25D/P2553D

NOMURA P30 NN-32UB NN-32YB

Part No	TYPE	DIMENSION					REC.MAX BORE			WORLDWIDE REF.CODE
		d	D	L	K	TP	Round	Hex	Square	
P4285	HEADSTOCK	42	52	85	26°					P30C/NN30TC
PG30D	GUIDEBUSH	44	50	90	26°	M40x1	33	28	23	P30D/NN30TD

COLLET FOR MACHINE MANUFACTURER

KSI



KSI SA12

Part No	TYPE	DIMENSION					REC.MAX BORE			WORLDWIDE REF.CODE		
		d	D	L	K	TP	Round	Hex	Square	SWISS CODE	US CODE	F. CODE
P1664	HEADSTOCK	16	21	64	32°		13	10	8	EF16/1212E	TF16	F16
P1664	SUB	16	21	64	32°		13	10	8	EF16/1212E	TF16	F16
PG125R	GUIDEBUSH	18	22	60	60°	M18*1	13	10	8	171.001	SD125R	

KSI SA20 SM20 SQC20

Part No	TYPE	DIMENSION					REC.MAX BORE			WORLDWIDE REF.CODE		
		d	D	L	K	TP	Round	Hex	Square	SWISS CODE	US CODE	F. CODE
P2577	HEADSTOCK	25	35	77	32°		21	17.5	14.5	145E	TF25	F25 76-64
P2577	SUB	25	35	77	32°		21	17.5	14.5	145E	TF25	F25 76-64
PG223T	GUIDEBUSH	28	34	82	32°	M25*1	20.5	17	14	T223(22.001)	TD25S	

KSI SA26

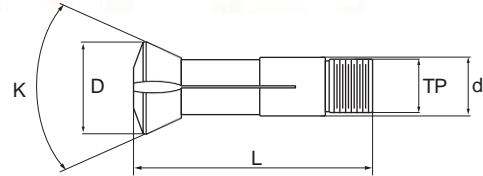
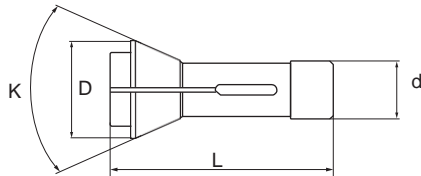
Part No	TYPE	DIMENSION					REC.MAX BORE			WORLDWIDE REF.CODE		
		d	D	L	K	TP	Round	Hex	Square	SWISS CODE	US CODE	F. CODE
P3275	HEADSTOCK	32	45	75	30°		28	24	19	161E		F32 76-221
P3275	SUB	32	45	75	30°		28	24	19	161E		F32 76-221
PG227T	GUIDEBUSH	34	41	87.5	20°	M34*1	26	22.5	18	T227(451.001)	CD25	

KSI SA32

Part No	TYPE	DIMENSION					REC.MAX BORE			WORLDWIDE REF.CODE		
		d	D	L	K	TP	Round	Hex	Square	SWISS CODE	US CODE	F. CODE
P3792	HEADSTOCK	37	47	92	32°		32	27	23	EF37/1536E	TF37	F37 76-740
P3792	SUB	37	47	92	32°		32	27	23	EF37/1536E	TF37	F37 76-740
PG229T	GUIDEBUSH	42	49	82	32°	M40*1	32	27.5	22.5	T229(28.001)	TD32S	

COLLET BY MACHINE MANUFACTURER

KSI



KSI SQC32

Part No	TYPE	DIMENSION					REC.MAX BORE			WORLDWIDE REF.CODE		
		d	D	L	K	TP	Round	Hex	Square	SWISS CODE	US CODE	F. CODE
P4492	HEADSTOCK	44	52	92	33°		38	33	27		TF44	F44 76-92
P3792	SUB	37	47	92	32°		32	27	23	EF37/1536E	TF37	F37 76-740
PG229T	GUIDEBUSH	42	49	82	32°	M40*1	32	27.5	22.5	T229(28.001)	TD32S	

KSI SA38

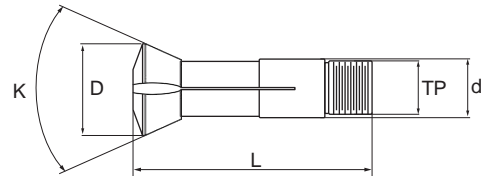
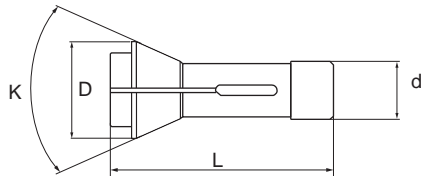
Part No	TYPE	DIMENSION					REC.MAX BORE			WORLDWIDE REF.CODE		
		d	D	L	K	TP	Round	Hex	Square	SWISS CODE	US CODE	F. CODE
P4492	HEADSTOCK	44	52	92	33°		38	33	27		TF44	F44 76-92
P3792	SUB	37	47	92	32°		32	27	23	EF37/1536E	TF37	F37 76-740
PG246T	GUIDEBUSH	46	53	92	32°	M45*1	38	32	26	T246(467.001)	TD38	

KSI SQC38

Part No	TYPE	DIMENSION					REC.MAX BORE			WORLDWIDE REF.CODE		
		d	D	L	K	TP	Round	Hex	Square	SWISS CODE	US CODE	F. CODE
P4894N	HEADSTOCK	48	60	94	30°		38	33	27	TF48 NFT (0°)		
P4492	HEADSTOCK	44	52	92	33°		38	33	27		TF44	F44 76-92
PG246T	GUIDEBUSH	46	53	92	32°	M45*1	38	32	26	T246(467.001)	TD38	

COLLET FOR MACHINE MANUFACTURER

METHODS



SS20

Part No	TYPE	DIMENSION					REC.MAX BORE			WORLDWIDE REF.CODE		
		d	D	L	K	TP	Round	Hex	Square	SWISS CODE	US CODE	F. CODE
P2577	COLLET	25	35	77	32°		21	17.5	14.5	145E	TF25	F25 76-64
PG20D	GUIDEBUSH	32	39.8	71	60°	M32 x 1	22	19	16	F355(282.001)	TSD20	

SS25

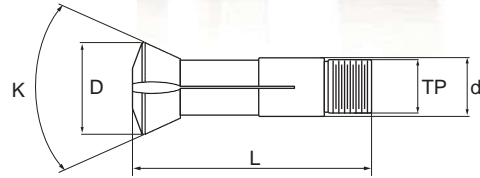
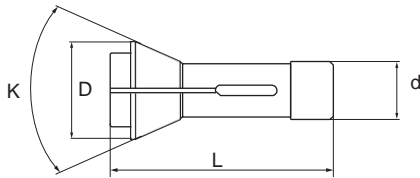
Part No	TYPE	DIMENSION					REC.MAX BORE			WORLDWIDE REF.CODE		
		d	D	L	K	TP	Round	Hex	Square	SWISS CODE	US CODE	F. CODE
P3080	COLLET	30	42	80	32°		26	22	18	157E	TF30	F30 76-63
PG25T	GUIDEBUSH	28	38	81	60°	M25 x 1	21	17	14	I357(18.001)	TD25	

SS32

Part No	TYPE	DIMENSION					REC.MAX BORE			WORLDWIDE REF.CODE		
		d	D	L	K	TP	Round	Hex	Square	SWISS CODE	US CODE	F. CODE
P3792	COLLET	37	47	92	32°		32	27	23	EF37/1536E	TF37	F37 76-740
PG32T	GUIDEBUSH	42	48	82	41°	M40*1	32	27.5	22.5		TD32	

COLLET BY MACHINE MANUFACTURER

MAIER



ML-12A/B/C/D

Part No	TYPE	DIMENSION					REC.MAX BORE			WORLDWIDE REF.CODE		
		d	D	L	K	TP	Round	Hex	Square	SWISS CODE	US CODE	F. CODE
P1564	HEADSTOCK	15	21	64	32°		13	11	9	120E	TF15	F15 76-580
P1564	SUB	15	21	64	32°		13	11	9	120E	TF15	F15 76-580
PG125R	GUIDEBUSH	18	22	60	60°	M18*1	13	10	8	171.001	SD125R	

ML-16A/B/C/D

Part No	TYPE	DIMENSION					REC.MAX BORE			WORLDWIDE REF.CODE		
		d	D	L	K	TP	Round	Hex	Square	SWISS CODE	US CODE	F. CODE
P2067	HEADSTOCK	20	28	67	32°		16	14	11.5	138E	TF20	F20 76-87
P2067	SUB	20	28	67	32°		16	14	11.5	138E	TF20	F20 76-87
PG391F	GUIDEBUSH	22	29	68	32°	M22*1	16	12.5	10	F391(39.001)	TD20R	

ML-20A/B/C/D/E

Part No	TYPE	DIMENSION					REC.MAX BORE			WORLDWIDE REF.CODE		
		d	D	L	K	TP	Round	Hex	Square	SWISS CODE	US CODE	F. CODE
P2577	HEADSTOCK	25	35	77	32°		21	17.5	14.5	145E	TF25	F25 76-64
P2577	SUB	25	35	77	32°		21	17.5	14.5	145E	TF25	F25 76-64
PG25NS	GUIDEBUSH	28	34	82	32°	M25*1	20.5	16.5	13.5	T223(22.001)	TD25S	

ML-26A/B/C/D/E

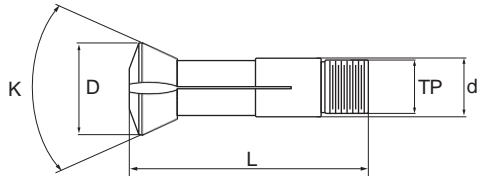
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		d	D	L	K	TP	Round	Hex	Square	SWISS CODE	US CODE	F. CODE
P3275	HEADSTOCK	32	45	75	30°		28	24	29	161E		F32 76-221
P3275	SUB	32	45	75	30°		28	24	29	161E		F32 76-221
PG227T	GUIDEBUSH	34	41	87.5	20°	M34*1	26	22.5	18	T227(451.001)	CD25	

ML-32A/B/C/D/E, MLK-32

Part No	TYPE	DIMENSION					REC.MAX BORE			WORLDWIDE REF.CODE		
		d	D	L	K	TP	Round	Hex	Square	SWISS CODE	US CODE	F. CODE
P3792	HEADSTOCK	37	47	92	32°		32	27	23	EF37/1536E	TF37	F37 76-740
P3792	SUB	37	47	92	32°		32	27	23	EF37/1536E	TF37	F37 76-740
PG229T	GUIDEBUSH	42	49	82	32°	M40*1	32	27.5	22.5	T229(28.001)	TD32S	

COLLET FOR MACHINE MANUFACTURER

EGURO



SANAX-6 LB6 SANATURN-6/6B

Part No	TYPE	DIMENSION					REC.MAX BORE			WORLDWIDE REF.CODE
		d	D	L	K	TP	Round	Hex	Square	
PT1976	HEADSTOCK	19	26	76	30°	M18.5*1.2	13.5	11	9	EDA-6

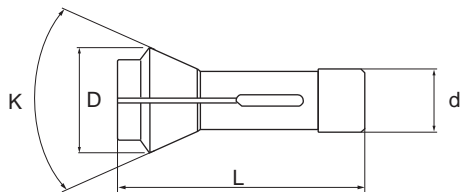
NUCSET-8 NUCBOY-8EX EXP SANAX-8 SANFLEX-8

Part No	TYPE	DIMENSION					REC.MAX BORE			WORLDWIDE REF.CODE
		d	D	L	K	TP	Round	Hex	Square	
PT25102	HEADSTOCK	25	33	102	30°	M24x1.5				EDA-8

SANAX-10 SANATURN-10 NUCLET-10EX.EXP NUCLET-10vv NUCPAL-10EX NUCMAX-10
NUMPAL-10vv EB10 NUCLET10LL/10A NUCROBO-101 NUCJET-102/103

Part No	TYPE	DIMENSION					REC.MAX BORE			WORLDWIDE REF.CODE
		d	D	L	K	TP	Round	Hex	Square	
PT32118	HEADSTOCK	32	42	118	30°	M32x1.5				EDA-10

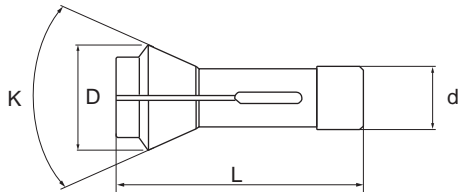
INDEX CNC LATHE



Machine Builders' Model No.	COLLET Part No.	DIMENSION				WORLDWIDE REF.CODE		
		d	D	L	K	SWISS CODE	US CODE	F. CODE
INDEX 25	PA3570	35	43	70	30°	162E		F35 76-67
INDEX 30	PA3580	35	48	80	30°	163E		F35 76-94
INDEX 36	PA4294	42	55	94	30°	171E		F42 76-99
INDEX 42	PA4894	48	60	94	30°	173E	TF48	F48 76-81
INDEX 52	PA5894	58	70	94	30°	177E		F58 17-355
INDEX 60	PA66110	66	84	110	30°	185E		F66 76-59
INDEX 80	PA90130	90	107	130	30°	193E		

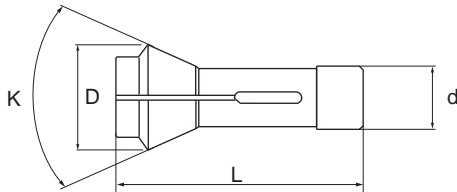
COLLET BY MACHINE MANUFACTURER

LI CO CNC LATHE



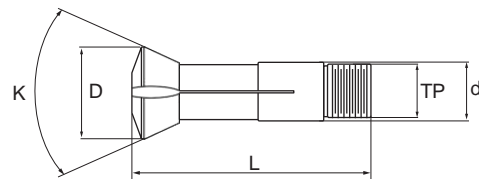
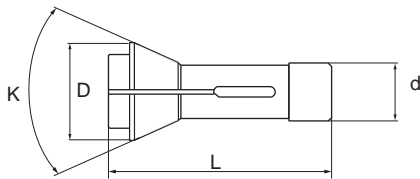
Machine Builders' Model No.	COLLET Part No.	DIMENSION				WORLDWIDE REF.CODE		
		d	D	L	K	SWISS CODE	US CODE	F. CODE
LI CO 32	PA3808	38.08	49	108	30°	164E		F38 76-72
LI CO 41	PA4894	48	60	94	30°	173E	TF48	F48 76-81
LI CO 52	PA5894	58	70	94	30°	177E		F58 17-355
LI CO 65	PA72142	72	90	142	30°	187E		

CHIAH CHYUN CNC LATHE



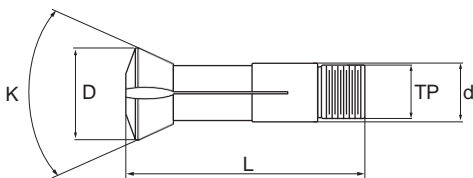
Machine Builders' Model No.	COLLET Part No.	DIMENSION				WORLDWIDE REF.CODE		
		d	D	L	K	SWISS CODE	US CODE	F. CODE
32#	PA3808	38.08	49	108	30°	164E		F38 76-72
36#	PA4294	42	55	94	30°	171E		F42 76-99
42#	PA4894	48	60	94	30°	173E	TF48	F48 76-81
52#	PA5894	58	70	94	30°	177E		F58 17-355

COLLET FOR MACHINE MANUFACTURER



Machine Builders' Model No.	COLLET Part No.	DIMENSION				
		d	D	L	K	TP
SAD-25	P3066	30	43	66	30°	
SAD-40	P4884	48	66	84	30°	
SAD-50	P5694	56	68	94	30°	
SAD-65	P75100	75	93	100	30°	
PULL-25	PT3688	36	44	88	20°	M32x1.5
PULL-40	PT55110	55	66	110	20°	M50x1.5
PULL-60	PT83132	83	97	132	20°	M78x2.0

TAKAMAZ CNC LATHE



Machine Builders' Model No.	COLLET Part No.	DIMENSION				
		d	D	L	K	TP
20#	PT25102	25	35	102		M25x1.25
25#	PT36131	36	52	131		M36x2
850(CD37)	PT37101	37	46	101	30°	M32x1.5

COLLET BY MACHINE MANUFACTURER

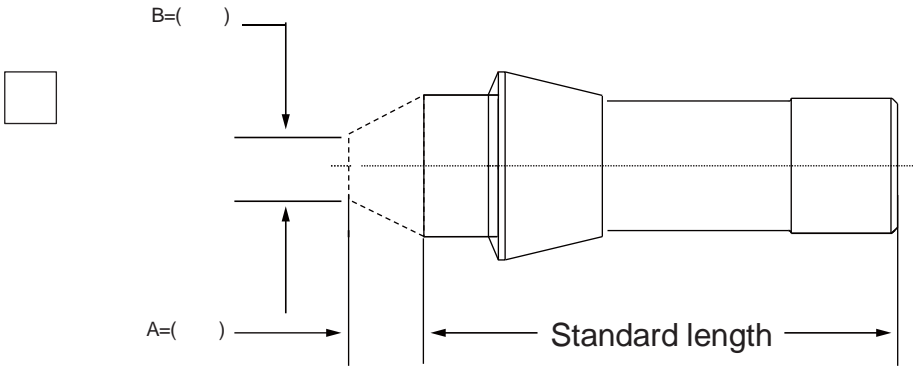
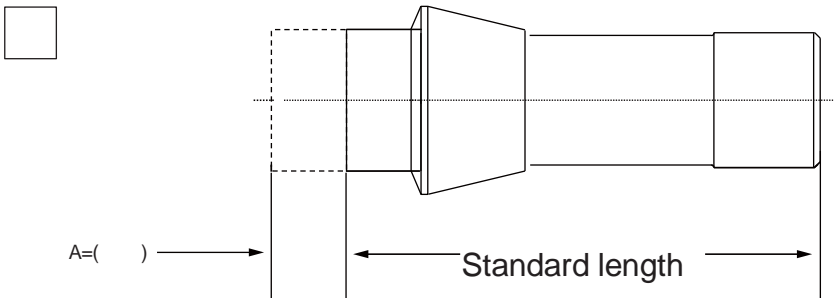
RUBBER COLLET



PART NO	DIMENSION		
	L	D	a°
SK(RC)32	44	57.7	12°
SK(RC)32N	49	57.7	12°
SK(RC)42S	42	79.3	15°
SK(RC)42N	47	79.3	15°
SK(RC)52S	46	79.2	15°
SK(RC)52N	46	79.2	15°
SK(RC)65S	53	99.5	15°
SK(RC)65N	58	99.5	15°
SK(RC)80S	53	114.5	15°
SK(RC)80N	53	114.5	15°
SK(RC)100S	59	144.5	15°
SK(RC)100N	59	144.5	15°
SK(RC)120S	61	180	15°
SK(RC)120N	61	180	15°

Extended Nose

Put into select which long nose type you need

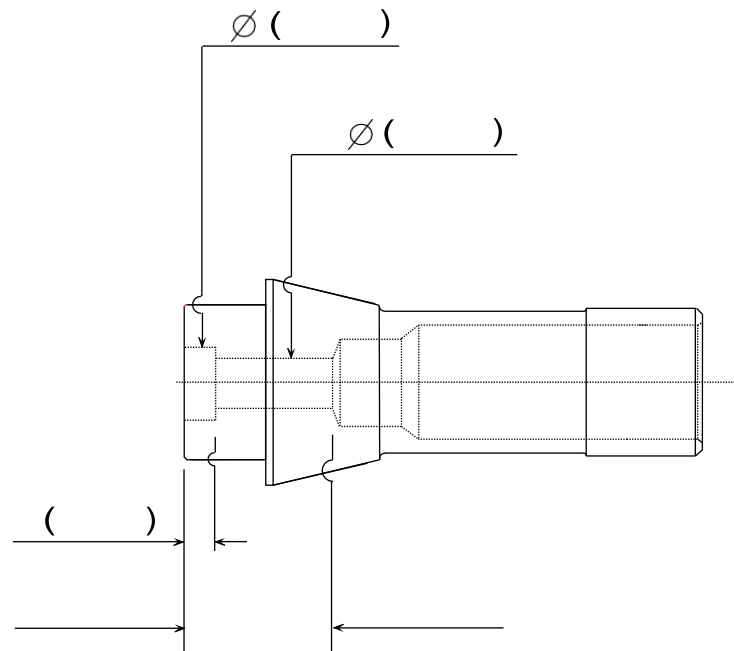


“A” must be given when collet is ordered and give “B” if you have specific requirements or go with our standard.

Remark:

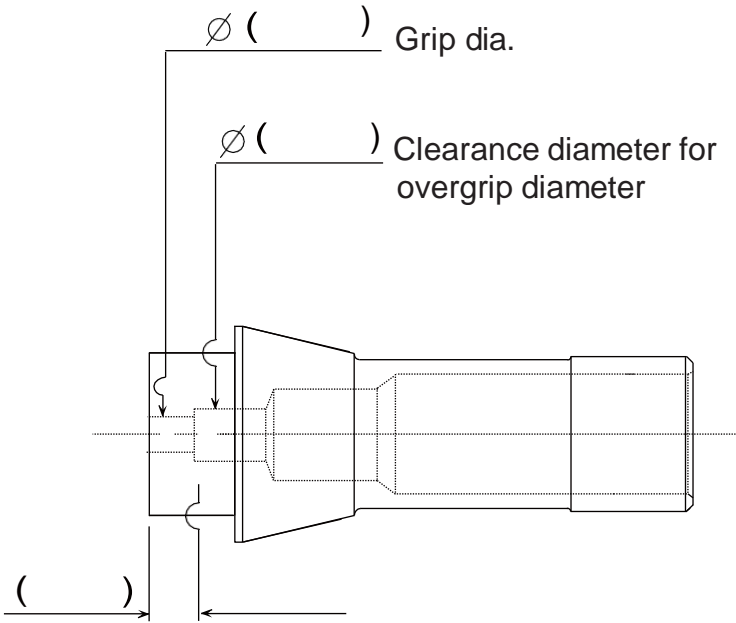
HELPFUL BLANK PRINTS

STEP BORE



Remark:

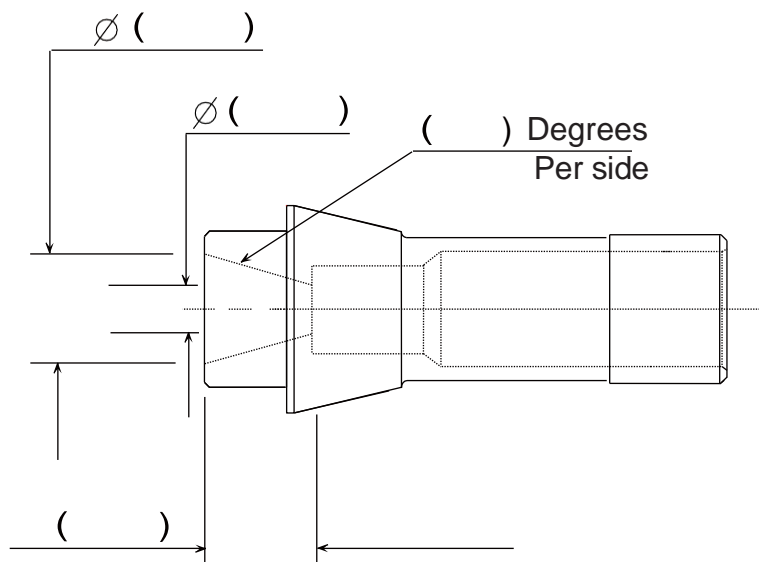
OVERGRIP BORE



Remark:

HELPFUL BLANK PRINTS

TAPERED BORE



Remark:

Barfeeder Collet & Revolving Ends



CONTENTS

- I _____ LNS FINGER COLLET
- II _____ LNS REVOLVING END
- III _____ IEMCA(GIMCO) FINGER COLLET
- IV _____ IEMCA(GIMCO) REVOLVING END
- V _____ PRO FINGER COLLET
- VI _____ PRO REVOLVING END
- VII _____ BARLOAD FINGER COLLET
- VIII _____ BARLOAD REVOLVING END
- IX _____ ALPS FINGER COLLET & REVOLVING END
- X _____ BAR LOADER COLLET(Pin Lock Type)

LNS FINGER COLLET



Part No.	DIMENSION				FIG
	Φd (Clamp size)	OD (Outer Dia)	AL (Total length)	T (Thread)	
PFL4N	0.8~4.0mm	5mm	98mm	M4P0.7	1
PFL47N	0.8~4.0mm	7mm	98mm	M4P0.7	2
PFL47N1	4.1~6.0mm	7mm	98mm	M4P0.7	2
PFL47N2	2.0~5.5mm	7mm	98mm	M4P0.7	2
PFL4N2	0.8~4.0mm	5mm	28mm	M4P0.7	3
PFL47N3	1.5~6.0mm	7mm	28mm	M4P0.7	4
PFL7N	1.3~6.0mm	7mm	50mm	M4P0.7	5
PFL7N1	1.3~6.5mm	8mm	50mm	M4P0.7	5
PFL7N2	6.6~7.0mm	9mm	50mm	M4P0.7	5
PFL85N	1.5~7.8mm	9.5mm	45mm	M5P0.8	6
PFL85N1	7.9~8.5mm	10mm	45mm	M5P0.8	6
PFL85N2	3.0~10.5mm	12mm	45mm	M5P0.8	7
PFL85N3	10.8~11.0mm	13mm	45mm	M5P0.8	8
PFL85N4	11.5~12.0mm	14mm	45mm	M5P0.8	8
PFL85N5	12.5~13.0mm	15mm	45mm	M5P0.8	8
PFL85N6	13.5mm	15.5mm	45mm	M5P0.8	8
PFL20N	2.5~13.0mm	15mm	60mm	M9P1.0	9
PFL20N1	11.5~15.1mm	18mm	60mm	M9P1.0	10
PFL20N2	15.2~16.0mm	19mm	60mm	M9P1.0	10
PFL20N3	16.5~18.0mm	20mm	60mm	M9P1.0	10

Note: PFL47N Finger Outside Diameter 5.0mm, PFL47N2 is High Speed version, up to 12000 rpm.

LNS FINGER COLLET



Fig 11



Fig 12



Fig 13



Fig 14



Fig 15



Fig 16



Fig 17



Fig 18

Part No.	DIMENSION				FIG
	Φd (Clamp size)	OD (Outer Dia)	AL (Total length)	T (Thread)	
PFL20N4	18.5~19.0mm	22mm	60mm	M9P1.0	11
PFL20N5	19.5~21.0mm	24mm	60mm	M9P1.0	11
PFL20N6	21.5~22.0mm	25mm	60mm	M9P1.0	11
PFL326N	18.0~19.5mm	22mm	60mm	M9P1.0	12
PFL326N1	20.0~21.0mm	23mm	60mm	M9P1.0	12
PFL326N2	21.5~23.0mm	26mm	60mm	M9P1.0	12
PFL326N3	24.0~26.0mm	28mm	60mm	M9P1.0	12
PFL326N4	26.5~28.0mm	30mm	60mm	M9P1.0	12
PFL326N5	28.5mm~29.5mm	32mm	60mm	M9P1.0	12
PFLSN20	3.0~18.0mm	20mm	60mm	M10P1.0	13
PFLSN23	16.0~21.0mm	23mm	60mm	M10P1.0	14
PFLSN25	16.5~23.0mm	25mm	60mm	M10P1.0	14
PFLSN27	16.5~25.0mm	27mm	60mm	M10P1.0	14
PFLSN32	23.5~28.0mm	32mm	70mm	M17P1.0	15
PFLSN35	28.5~33.0mm	35mm	80mm	M25P1.5	16
PFLSN37	31.0~34.0mm	37mm	80mm	M25P1.5	17
PFLSN38	31.0~35.0mm	38mm	80mm	M25P1.5	17
PFLSN42	31.5~40.0mm	42mm	80mm	M25P1.5	17
PFLSN45	38.5~42.2mm	45mm	80mm	M25P1.5	17
PFLSN51	42.5~48.0mm	51mm	80mm	M25P1.5	18
PFL32	4.0~30.0mm	32mm	80mm	M25P1.5	15
PFL40	21.0~36.5mm	40mm	80mm	M25P1.5	17

LNS REVOLVING END



Fig 1



Fig 2



Fig 3



Fig 4



Fig 5



Fig 6



Fig 7



Fig 8



Fig 9



Fig 10



Fig 11



Fig 12

Part No.	DIMENSION				FIG
	OD (Outer Dia)	L (Total length)	M (Thread)	P/T (PIN/Thread)	
PRL4	5mm	77.1mm	M4P0.7	M4P0.7	1
PRL47	7mm	77.2mm	M4P0.7	M4P0.7	2
PRL7N	7mm	65.3mm	M4P0.7	M6P0.75	3
PRL7N1	7mm	65.3mm	M4P0.7	M6*1.0	3
PRL7N2	8mm	65.3mm	M4P0.7	M6P0.75	3
PRL7N3	8mm	65.3mm	M4P0.7	M6*1.0	3
PRL7N4	8mm	61.5mm	M4P0.7	M6P0.75	4
PRL7N5	7mm	57.5mm	M4P0.7	M6P0.75	5
PRL75	7.5mm	57.5mm	M4P0.7	M6*1.0	5
PRL7N6	8mm	57.5mm	M4P0.7	M6P0.75	5
PRL85N	9.5mm	63.5mm	M5P0.8	M7P0.75	6
PRL85N1	9.5mm	66.3mm	M5P0.8	M7P0.75	6
PRL85N2	10mm	59.5mm	M5P0.8	M7P0.75	7
PRL85N3	10mm	61.1mm	M5P0.8	M7P0.75	7
PRL85N4	9mm	64.5mm	M5P0.8	M7P0.75	8
PRL85N5	10mm	64.5mm	M5P0.8	M7P0.75	8
PRL12N	12mm	64.5mm	M5P0.8	M7P0.75	9
PRL12N1	12mm	64.5mm	M5P0.8	M8P1.0	9
PRL20N	15mm	92.2mm	M9P1.0	M12P1.0	10
PRL20N1	15mm	92.2mm	M9P1.0	M12P1.0	11
PRL20N2	15mm	92.2mm	M9P1.0	M12P1.25	12

LNS REVOLVING END



Fig 13



Fig 14



Fig 15



Fig 16



Fig 17



Fig 18



Fig 19



Fig 20



Fig 21



Fig 22

Part No.	DIMENSION				FIG
	OD (Outer Dia)	L (Total length)	M (Thread)	P/T (PIN/Thread)	
PRL20N3	20mm	92.2mm	M9P1.0	M12P1.25	13
PRL25N	25mm	92.2mm	M9P1.0	M12P1.25	14
PRL20N4	20.5mm	207.5mm	M10P1.0	PIN=4.0mm	15
PRL20N5	20.5mm	193.5mm	M10P1.0	M12P1.25	
PRL22	22.5mm	207.5mm	M10P1.0	PIN=4.0mm	15
PRL23N	22.5mm	207.5mm	M10P1.0	PIN=4.0mm	15
PRL23N1	22.5mm	193.5mm	M10P1.0	M12P1.25	
PRL25N1	25.5mm	207.5mm	M10P1.0	PIN=5.0mm	16
PRL25N2	25.5mm	193.5mm	M10P1.0	M16P1.5	
PRL27N	27.5mm	207.5mm	M10P1.0	PIN=5.0mm	16
PRL27N1	27.5mm	193.5mm	M10P1.0	M16P1.5	
PRL32N	32.5mm	165.0mm	M25P1.5	PIN=5.0mm	17
PRL32N1	32.5mm	165.0mm	M25P1.5	M27	18
PRL35N	35.5mm	165.0mm	M25P1.5	PIN=6.0mm	17
PRL35N1	35.5mm	165.0mm	M25P1.5	M29	18
PRL37N	37.5mm	165.0mm	M25P1.5	PIN=6.0mm	17
PRL37N1	37.5mm	165.0mm	M25P1.5	M29	18
PRL38N	38.5mm	165.0mm	M25P1.5	PIN=6.0mm	17
PRL38N1	38.5mm	165.0mm	M25P1.5	M29	18
PRL42N	41.5mm	165.0mm	M25P1.5	PIN=6.0mm	19
PRL42N1	41.5mm	165.0mm	M25P1.5	M34	20
PRL45N	45.5mm	165.0mm	M25P1.5	PIN=6.0mm	19
PRL45N1	45.5mm	165.0mm	M25P1.5	M38	20
PRL51N	51.5mm	165.0mm	M25P1.5	PIN=6.0mm	21
PRL51N1	51.5mm	165.0mm	M25P1.5	M42	22

IEMCA(GIMCO) FINGER COLLET



Part No.	DIMENSION				FIG
	Φd (Clamp size)	OD (Outer Dia)	AL (Total length)	T (Thread)	
PFI4	0.8~4mm	5mm	98mm	M4P0.7	1
PFI5	2~4mm	5mm	37mm	M4P0.5	2
PFI47N	0.8~4mm	7mm	98mm	M4P0.7	3
PFI47N1	4.1~6mm	7mm	98mm	M4P0.7	3
PFI47N2	2.~5.5mm	7mm	98mm	M4P0.7	3
PFI75	2~6mm	7.5mm	40mm	M5P0.8	4
PFI10	1.5~8.5mm	10mm	42mm	M6P0.75	5
PFI12N	1.5~10.5mm	12mm	42mm	M7P0.75	6
PFI12N1	11mm	13mm	42mm	M7P0.75	6
PFI15	2~13mm	15mm	42mm	M8P1.0	7
PFI16	12~14mm	16mm	42mm	M8P1.0	7
PFI20	3~18.5mm	20mm	60mm	M10P1.0	8
PFI23	16~21mm	23mm	60mm	M10P1.0	9
PFI25	16.5~23mm	25mm	60mm	M10P1.0	10
PFI27	16.5~25.5mm	27mm	60mm	M10P1.0	9
PFI32	4~30mm	32mm	80mm	M25P1.5	11
PFI35	28.5~32mm	35mm	80mm	M25P1.5	12
PFI37	31~34mm	37mm	80mm	M25P1.5	13
PFI38	31~35mm	38mm	80mm	M25P1.5	13
PFI40	21~36.5mm	40mm	80mm	M25P1.5	13
PFI42	31.5~40mm	42mm	80mm	M25P1.5	13
PFI45	38.5~42.2mm	45mm	80mm	M25P1.5	13
PFI51	42.5~48mm	51mm	80mm	M25P1.5	14

IEMCA(GIMCO) REVOLVING END



Fig 1



Fig 2



Fig 3



Fig 4



Fig 5



Fig 6



Fig 7



Fig 8



Fig 9



Fig 10



Fig 11



Fig 12

Part No.	DIMENSION				FIG
	OD (Outer Dia)	L (Total length)	M (Thread)	P/T (PIN/Thread)	
PRI75	7.5mm	151mm	M5P0.5	M6P0.75	1
PRI10N	10.5mm	137.5mm	M6P0.75	M8P1.0	2
PRI10N1	10.5mm	167mm	M6P0.75	PIN=3.0	3
PRI12	12.5mm	173mm	M7P0.75	PIN=3.0	4
PRI15	15.5mm	195mm	M8P1.0	PIN=4.0	5
PRI16	16.5mm	195mm	M8P1.0	PIN=4.0	5
PRI18	18.5mm	195mm	M8P1.0	PIN=4.0	5
PRI19	19.5mm	195mm	M8P1.0	PIN=4.0	5
PRI20	20.5mm	207.5mm	M10P1.0	PIN=4.0	6
PRI22	22.5mm	207.5mm	M10P1.0	PIN=4.0	6
PRI23	23.5mm	207.5mm	M10P1.0	PIN=4.0	6
PRI25	25.5mm	207.5mm	M10P1.0	PIN=5.0	7
PRI27	27.5mm	207.5mm	M10P1.0	PIN=5.0	7
PRI30	30.5mm	165mm	M25P1.5	PIN=5.0	8
PRI32	32.5mm	165mm	M25P1.5	PIN=5.0	8
PRI35	35.5mm	165mm	M25P1.5	PIN=5.0	9
PRI37	37.5mm	165mm	M25P1.5	PIN=5.0	9
PRI38	38.5mm	165mm	M25P1.5	PIN=5.0	9
PRI40	40.5mm	165mm	M25P1.5	PIN=6.0	10
PRI42	42.5mm	165mm	M25P1.5	PIN=6.0	10
PRI45	45.5mm	165mm	M25P1.5	PIN=6.0	10
PRI51N	51.5mm	165mm	M25P1.5	PIN=6.0	11
PRI51N1	51.5mm	221mm	M25P1.5	PIN=6.0	12

IKURA FINGER COLLET



Fig 1



Fig 2



Fig 3



Fig 4



Fig 5



Fig 6



Fig 7



Fig 8



Fig 9

Part No.	DIMENSION				FIG
	Φd (Clamp size)	OD (Outer Dia)	AL (Total length)	T (Thread)	
PFIK4N	0.8~4.0mm	5mm	98mm	M4P0.7	1
PFIK4N1	0.8~4.0mm	5mm	28mm	M4P0.7	2
PFIK7	1.5~6.0mm	7mm	40mm	M6P1.0	3
PFIK8	1.5~6.5mm	8mm	40mm	M6P1.0	3
PFIK10	1.5~8.5mm	10mm	40mm	M6P1.0	4
PFIK12	3~10.5mm	12mm	40mm	M6P1.0	5
PF1555-2	3~13.0mm	15mm	55mm	PIN2.0	6
PF1555	3~13.0mm	15mm	55mm	PIN6.0	
PF2055	3~18.0mm	20mm	55mm	PIN6.0	7
PF2576	5~23.0mm	25mm	76mm	PIN8.0	8
PF3276	5~28.0mm	32mm	76mm	PIN8.0	9

IKURA REVOLVING END



Fig 1



Fig 2



Fig 3



Fig 4



Fig 5



Fig 6



Fig 7



Fig 8

Part No.	DIMENSION				FIG
	OD (Outer Dia)	L (Total length)	M (Thread)	P/T (PIN/Thread)	
PRIK4	5mm	77.1mm	M4P0.7	M4P0.7	1
PRIK7	7mm	67.5mm	M6P1.0	M6P1.0	2
PRIK8	8mm	67.5mm	M6P1.0	M6P1.0	2
PRIK10	10mm	67.5mm	M6P1.0	M6P1.0	3
PRIK12	12mm	67.5mm	M6P1.0	M6P1.0	4
PRIK15	15mm	119.5mm	PIN=6.0	M12P1.25	5
PRIK16	16.3mm	119.5mm	PIN=6.0	M12P1.25	6
PRIK17	17mm	119.5mm	PIN=6.0	M12P1.25	6
PRIK19	19mm	119.5mm	PIN=6.0	M12P1.25	6
PRIK20	20mm	119.5mm	PIN=6.0	M12P1.25	6
PRIK21	20.5mm	119.5mm	PIN=6.0	M12P1.25	6
PRIK22	21mm	119.5mm	PIN=6.0	M12P1.25	6
PRIK25	25mm	160.3mm	PIN=8.0	M20P1.5	7
PRIK32	32mm	160.3mm	PIN=8.0	M20P1.5	8

PRO FINGER COLLET



Part No.	DIMENSION				FIG
	Φd (Clamp size)	OD (Outer Dia)	AL (Total length)	T (Thread)	
PFP4	0.8~4mm	5mm	98mm	M4P0.7	1
PFP47N	0.8~4mm	7mm	98mm	M4P0.7	2
PFP47N1	4.1~6mm	7mm	98mm	M4P0.7	2
PFP47N2	2.~5.5mm	7mm	98mm	M4P0.7	2
PFP10	1.5~8.5mm	10mm	42mm	M6P0.75	3
PFP12	1.5~10.5mm	12mm	42mm	M7P0.75	4
PFP15	2~13mm	15mm	42mm	M8P1.0	5
PFP16N	12~14mm	16mm	42mm	M8P1.0	5
PFP16N1	3~13mm	15mm	60mm	M12P1.0	6
PFP16N2	12~14mm	16mm	60mm	M12P1.0	6
PFP20N	3~18.5mm	20mm	60mm	M10P1.0	7
PFP20N1	3~18mm	20mm	60mm	M12P1.0	7
PFP23	16~21mm	23mm	60mm	M10P1.0	8
PFP25N	16.5~23mm	25mm	60mm	M10P1.0	9
PFP25N1	5~19.5mm	23mm	80mm	M18P1.0	9
PFP25N2	20~23mm	25mm	80mm	M18P1.0	10
PFP27	16.5~25.5mm	27mm	60mm	M10P1.0	9
PFP32	4~30mm	32mm	80mm	M25P1.5	11
PFP35	28.5~32mm	35mm	80mm	M25P1.5	12
PFP37	31~34mm	37mm	80mm	M25P1.5	13
PFP38	31~35mm	38mm	80mm	M25P1.5	13
PFP40	21~36.5mm	40mm	80mm	M25P1.5	13
PFP42	31.5~40mm	42mm	80mm	M25P1.5	13
PFP45	38.5~42.2mm	45mm	80mm	M25P1.5	13
PFP51	42.5~48mm	51mm	80mm	M25P1.5	14

PRO REVOLVING END



Part No.	DIMENSION				FIG
	OD (Outer Dia)	L (Total length)	M (Thread)	P/T (PIN/Thread)	
PRP10	10.5mm	167mm	M6P0.75	PIN=3.0	1
PRP12N	12.5mm	173mm	M7P0.75	PIN=3.0	2
PRP12N1	12mm	113.5mm	M7P0.75	M7P0.75	3
PRP15	15.5mm	195mm	M8P1.0	PIN=4.0	4
PRP16N	16.5mm	195mm	M8P1.0	PIN=4.0	4
PRP16N1	16mm	147mm	M12P1.0	M10P1.0	5
PRP18	18.5mm	195mm	M8P1.0	PIN=4.0	4
PRP19	19.5mm	195mm	M8P1.0	PIN=4.0	4
PRP20N	20.5mm	207.5mm	M10P1.0	PIN=4.0	6
PRP22	22.5mm	207.5mm	M10P1.0	PIN=4.0	6
PRP23	23.5mm	207.5mm	M10P1.0	PIN=4.0	6
PRP20N1	20mm	145mm	M12P1.0	M10P1.0	7
PRP25N	25.5mm	207.5mm	M10P1.0	PIN=5.0	8
PRP27	27.5mm	207.5mm	M10P1.0	PIN=5.0	8
PRP25N1	26mm	145mm	M18P1.0	M14P1.0	9
PRP30	30.5mm	165mm	M25P1.5	PIN=5.0	10
PRP32	32.5mm	165mm	M25P1.5	PIN=5.0	10
PRP35	35.5mm	165mm	M25P1.5	PIN=5.0	11
PRP37	37.5mm	165mm	M25P1.5	PIN=5.0	11
PRP38	38.5mm	165mm	M25P1.5	PIN=5.0	11
PRP40	40.5mm	165mm	M25P1.5	PIN=6.0	12
PRP42	42.5mm	165mm	M25P1.5	PIN=6.0	12
PRP45	45.5mm	165mm	M25P1.5	PIN=6.0	12
PRP51	51.5mm	165mm	M25P1.5	PIN=6.0	13

BARLOAD FINGER COLLET



Fig 1



Fig 2



Fig 3



Fig 4



Fig 5



Fig 6



Fig 7



Fig 8



Fig 9



Fig 10

Part No.	DIMENSION				FIG
	Φd (Clamp size)	OD (Outer Dia)	AL (Total length)	T (Thread)	
PFB4N	0.8~4.0	5	98mm	M4P0.7	1
PFB47N	0.8~4.0	7	98mm	M4P0.7	2
PFB47N1	4.1~6.0	7	98mm	M4P0.7	2
PFB4N1	0.8~4.0	5	28mm	M4P0.7	3
PFB47N2	1.5~6.0	7	28mm	M4P0.7	4
PFB7N	1.3~6.0	7	50mm	M4P0.7	5
PFB7N1	1.3~6.5	8	50mm	M4P0.7	5
PFB7N2	6.6~7.0	9	50mm	M4P0.7	5
PFB85N	1.5~7.8	9.5	45mm	M5P0.8	6
PFB85N1	7.9~8.5	10	45mm	M5P0.8	6
PFB85N2	3.0~10.5	12	45mm	M5P0.8	7
PFB85N3	10.8~11.0	13	45mm	M5P0.8	8
PFB85N4	11.5~12.0	14	45mm	M5P0.8	8
PFB85N5	12.5~13.0	15	45mm	M5P0.8	8
PFB85N6	13.5	15.5	45mm	M5P0.8	8
PFB20N	2.5~13.0	15	60mm	M9P1.0	9
PFB20N1	11.5~15.1	18	60mm	M9P1.0	10
PFB20N2	15.2~16.0	19	60mm	M9P1.0	10
PFB20N3	16.5~18.0	20	60mm	M9P1.0	10

BARLOAD FINGER COLLET



Fig 11



Fig 12



Fig 13



Fig 14



Fig 15



Fig 16



Fig 17



Fig 18

Part No.	DIMENSION				FIG
	Φd (Clamp size)	OD (Outer Dia)	AL (Total length)	T (Thread)	
PFB20N4	18.5~19.0	22	60mm	M9P1.0	11
PFB20N5	19.5~21.0	24	60mm	M9P1.0	11
PFB20N6	21.5~22.0	25	60mm	M9P1.0	11
PFB326N	18.0~19.5	22	60mm	M9P1.0	12
PFB326N1	20.0~21.0	23	60mm	M9P1.0	12
PFB326N2	21.5~23.0	26	60mm	M9P1.0	12
PFB326N3	24.0~26.0	28	60mm	M9P1.0	12
PFB326N4	26.5~28.0	30	60mm	M9P1.0	12
PFB326N5	28.5~29.5	32	60mm	M9P1.0	13
PFBSN20	3.0~18.0	20	60mm	M10P1.0	14
PFBSN23	16.0~21.0	23	60mm	M10P1.0	14
PFBSN25	16.5~23.0	25	60mm	M10P1.0	14
PFBSN27	16.5~25.0	27	60mm	M10P1.0	14
PFBSN32	23.5~28.0	32	70mm	M17P1.0	15
PFBSN35	28.5~33.0	35	80mm	M25P1.5	16
PFBSN37	31.0~34.0	37	80mm	M25P1.5	17
PFBSN38	31.0~35.0	38	80mm	M25P1.5	17
PFBSN42	31.5~40.0	42	80mm	M25P1.5	17
PFBSN45	38.5~42.2	45	80mm	M25P1.5	17
PFBSN51	42.5~48.0	51	80mm	M25P1.5	18
PFB32	4.0~30.0	32	80mm	M25P1.5	15
PFB40	21.0~36.5	40	80mm	M25P1.5	17

Note:PFB47N Finger Outside Diameter 5.0mm

BARLOAD REVOLVING END



Part No.	DIMENSION				FIG
	OD (Outer Dia)	L (Total length)	M (Thread)	P/T (PIN/Thread)	
PRB4	5mm	77.1mm	M4P0.7	M4P0.7	1
PRB47	7mm	77.2mm	M4P0.7	M4P0.7	2
PRB7N	7mm	65.3mm	M4P0.7	M6P0.75	3
PRB7N1	7mm	65.3mm	M4P0.7	M6*1.0	3
PRB7N2	8mm	65.3mm	M4P0.7	M6P0.75	3
PRB7N3	8mm	65.3mm	M4P0.7	M6*1.0	3
PRB7N4	8mm	61.5mm	M4P0.7	M6P0.75	4
PRB7N5	7mm	57.5mm	M4P0.7	M6P0.75	5
PRB75	7.5mm	57.5mm	M4P0.7	M6*1.0	5
PRB7N6	8mm	57.5mm	M4P0.7	M6P0.75	5
PRB85N	9.5mm	63.5mm	M5P0.8	M7P0.75	6
PRB85N1	9.5mm	66.3mm	M5P0.8	M7P0.75	6
PRB85N2	10mm	59.5mm	M5P0.8	M7P0.75	7
PRB85N3	10mm	61.1mm	M5P0.8	M7P0.75	7
PRB85N4	9mm	64.5mm	M5P0.8	M7P0.75	8
PRB85N5	10mm	64.5mm	M5P0.8	M7P0.75	8
PRB12N	12mm	64.5mm	M5P0.8	M7P0.75	9
PRB12N1	12mm	64.5mm	M5P0.8	M8P1.0	9
PRB15	15.5mm	182.5mm	M9P1.0	PIN=4.0mm	10
PRB20	20.5mm	207.5mm	M10P1.0	PIN=4.0mm	11
PRB25	25.5mm	207.5mm	M10P1.0	PIN=5.0mm	12
PRB32	32.5mm	165.0mm	M25P1.5	PIN=5.0mm	13

ALPS FINGER COLLET & REVOLVING END

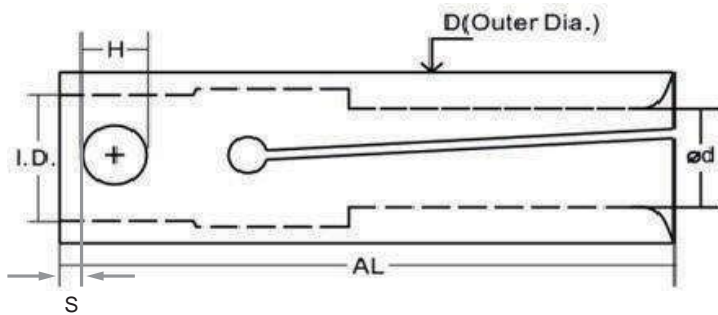


Part No.	DIMENSION				FIG
	Φd (Clamp size)	OD (Outer Dia)	AL (Total length)	T (Thread)	
PFA20N	3~12.7mm	15mm	75mm	M10P1.0	1
PFA20N1	13~15mm	18mm	75mm	M10P1.0	2
PFA20N2	15.5~16mm	19mm	75mm	M10P1.0	2
PFA20N3	16.5~18mm	20mm	75mm	M10P1.0	2
PFA32N	8~18mm	24mm	110mm		3
PFA32N1	18.5~19mm	26mm	110mm		3
PFA32N2	19.5~26.5mm	32mm	110mm		4
PFA32N3	27~29.5mm	35mm	110mm		4
PFA32N4	30~33mm	38mm	110mm		4
PFA32N5	33.5~36mm	42mm	110mm		4



Part No.	DIMENSION				FIG
	OD (Outer Dia)	L (Total length)	M (Thread)	P/T (PIN/Thread)	
PRA12	12mm	82.2mm	M6P1.0	M8	1
PRA16	16mm	70.1mm	M10P1.0	M14P1.0	2
PRA20	20mm	72.2mm	M10P1.0	M16P1.0	3
PRA26	26mm	81.1mm	M22P1.0	PIN=4	4

BAR LOADER COLLET(Pin Lock Type)

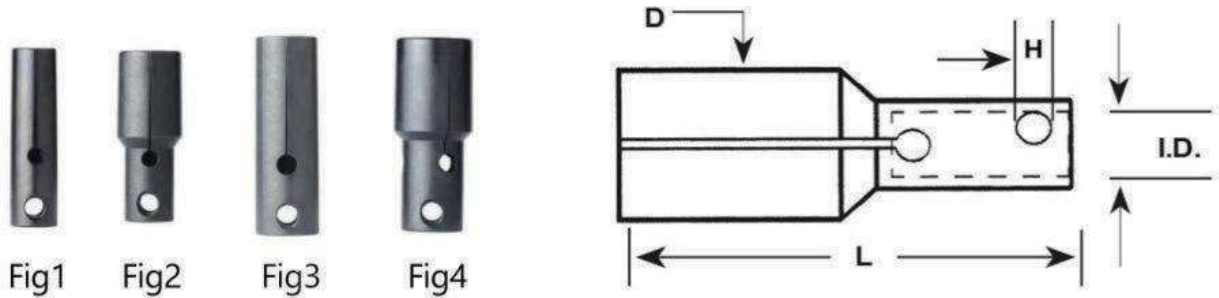


Part No.	DIMENSION					Swiss Code
	D (Outer Dia)	AL (Total length)	I.D.	ΦH	S	
PF0528	5	28	3.5	1.5	TBD	
PF0737	7	37	5	3	TBD	
PF0728	7	28	3.5	1.5	TBD	
PF1040	10	40	7	4	TBD	210E
PF1240	12	40	8	4	4	212E
PF1555	15	55	10	6	TBD	
PF1540	15	40	11	6	TBD	203E
PF1550	15	50	11	6	TBD	
PF1555	15	55	7	2	TBD	
PF1665	16	65	11	6	TBD	
PF1640	16	40	11	6	TBD	
PF1755	17	55	7	2	TBD	
PF1745	17	45	11	6	TBD	
PF1840	18	40	11	6	4	218E
PF1957-6	19	57	10	6	TBD	
PF1957-2	19	57	10	2	TBD	
PF1940	19	40	11	6	TBD	
PF2056	20	56	10	6	TBD	
PF2065	20	65	14	8	3	225E
PF2265	22	65	14	8	TBD	
PF2565	25	65	20	8	3	222E
PF2576	25	76	16	8	TBD	
PF3065	30	65	20	8	TBD	
PF3265	32	65	20	8	TBD	
PF3276	32	76	16	8	TBD	
PF3490	34	90	20	8	TBD	
PF3565	35	65	20	8	TBD	
PF3665	36	65	20	8	3	

TBD(To Be Determined):Please provide size when ordering.

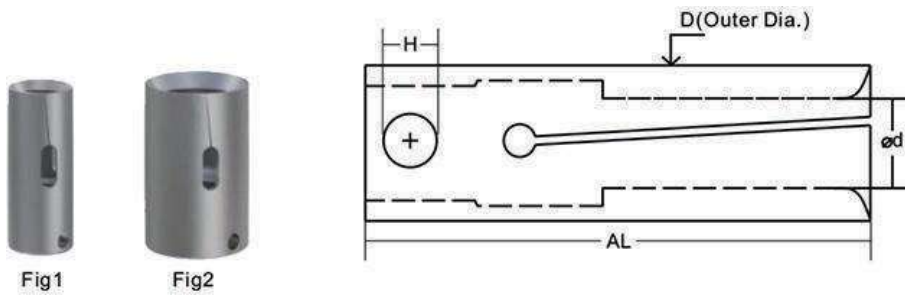
BAR LOADER COLLET(Pin Lock Type)

FOR IKURA BAR LOADER



Part No.	DIMENSION					FIG
	D (Outer Dia)	L (Total length)	I.D.	ΦH	Φd	
PF1555-2	15	55	10	2	3.0-13.0	1
PF1555	15	55	10	6	3.0-13.0	1
PF2055	20	55	10	6	3.0-18.0	2
PF2576	25	76	16	8	5.0-23.0	3
PF3276	32	76	16	8	5.0-28.0	4

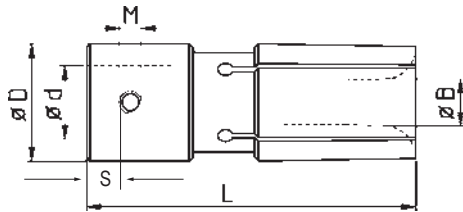
FOR TOP BAR LOADER



Part No.	DIMENSION				FIG
	D (Outer Dia)	AL (Total length)	ΦH	Φd	
PF3280	32	80	8	4.0-28.0	1
PF3580	35	80	8	0.8-4.0	1
PF4280	42	80	8	31.5-38.0	2
PF4580	45	80	8	38.5-41.0	2
PF5080	50	80	8	41.5-46.0	2
PF5280	52	80	8	47.0-48.0	2
PF5580	55	80	8	49.0-51.0	2
PF6080	60	80	8	52.0-56.0	2
PF6580	65	80	8	57.0-60.0	2

BAR LOADER COLLET(3 screw)

FOR TURBO BAR FEEDERS
FMB, BREUNING IRCO, LNS, TORNOS



Part No.	DIMENSION						Swiss Code	E Code
	ØB	d	D (Outer Dia)	L (Total length)	M	S		
P3F2590	4.0-22.0	20	25	90	M5	TBD	TD25	2292E
P3F2890	4.0-25.0	20	28	90	M5	TBD	TD28	
P3F3090	5.0-28.0	20	30	90	M6	TBD	TD30	2402E
P3F3290	5.0-30.0	20	32	90	M6	TBD	TD32	2422E
P3F3490	5.0-32.0	20	34	90	M6	TBD	TD34	
P3F3590	5.0-33.0	20	35	90	M6	TBD	ST35	
P3F3690	6.0-34.0	20	36	90	M8	TBD	TD36	2490E
P3F3890	6.0-36.0	20	38	90	M8	TBD	TD38	2517E
P3F4090	10.0-38.0	20	40	90	M8	TBD	TD40	2516E
P3F4290	6.0-40.5	20	42	90	M8	TBD	TD42	2578E
P3F4490	10.0-42.0	20	44	90	M8	TBD	TD44	
P3F4590	6.0-43.0	20	45	90	M8	TBD	TD45	2610E
P3F5090	6.0-48.0	20	50	90	M8	TBD	TD50	2670E
P3F5490	10.0-52.0	20	54	90	M8	TBD	ST54	
P3F5590	38.0-52.0	20	55	90	M8	TBD	TD55	
P3F5890	15.0-56.0	20	58	90	M8	TBD	ST58	
P3F6090	8.0-58.0	20	60	90	M8	TBD	TD60	2770E
P3F6390	15.0-61.0	20	63	90	M8	TBD	TD63	2780E
P3F6590	8.0-63.0	20	65	90	M8	TBD	TD65	2790E
P3F7090	12.0-66.0	20	70	90	M8	TBD	TD70	
P3F7390	50.0-65.0	35**	73	90	M8	TBD	TD73	2857E
P3F7590	20.0-72.0	35**	75	90	M8	TBD	TD75	2860E
P3F8090	20.0-76.0	35	80	90	M8	TBD	TD80	
P3F9090	50.0-84.0	35	90	90	M8	TBD	TD90	2912E
P3F9100	60.0-95.0	35	100	110	M8	TBD	TD100	

TBD(To Be Determined):Please provide size when ordering.

Tools Collet



CONTENTS

I _____ ER Collet DIN6499(ISO115488)

II _____ ER Collect-Sealed

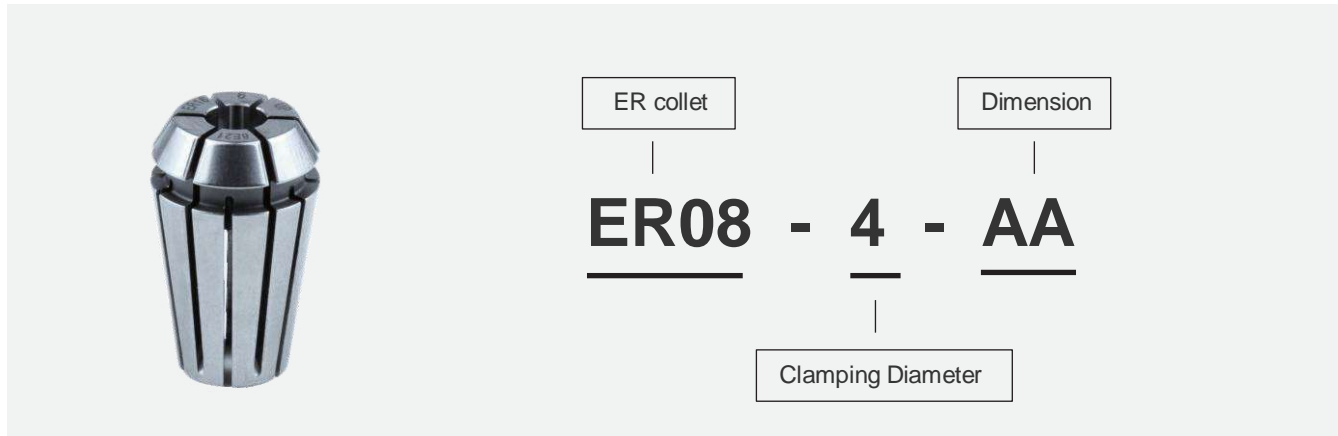
III _____ SK Collet

IV _____ DC Collet

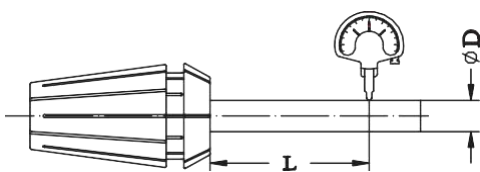
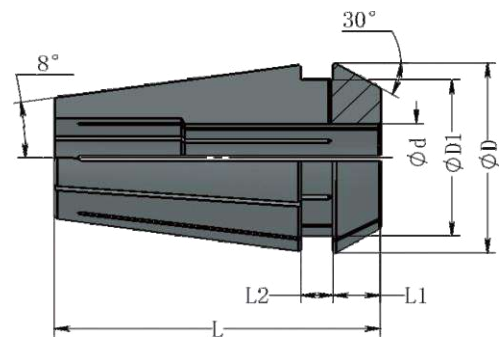
V _____ New Baby Collet(Clamping diameter: $\varnothing 0.25 - \varnothing 25.4$)

ER COLLET DIN6499 (ISO115488)

How to use COLLET code-----ER collet



MODEL	DIMENSION				
	D	D1	L	L1	L2
ER08	8.5	6.5	13.5	1.5	1.2
ER11	11.5	9.5	18	2.5	2
ER16	17	12.8	27.5	4	2.7
ER20	21	17.4	31.5	4.8	2.8
ER25	26	22	34	5	3.1
ER32	33	29.2	40	5.5	3.6
ER40	41	36.2	46	7	4.1



● Please specify the accuracy grade (AA or UP) when placing the order.

Inspection conditions		Runout accuracy	
D	L	AA	UP
1.0-1.4	6	0.008	0.005
1.5-2.9	10	0.008	0.005
3.0-5.9	16	0.008	0.005
6.0-9.9	25	0.008	0.005
10.0-17.9	40	0.008	0.005
18.0-26.9	50	0.008	0.005


ER COLLET DIN6499(ISO115488)

Part No.	AA(TIR≤0.008)			
	Clamping Range	Available Sizes	Step Size	Permissible Clamping Capacity
ER08	0.5-5.0	1.0-5.0	0.5	0.5
ER11	0.5-7.0	1.0-7.0	0.5	0.5
ER16	0.5-4.0	1.0-4.0	0.5	0.5
	4.0-10	5.0-10.0	1.0	1.0
ER20	0.5-4.0	1.0-4.0	0.5	0.5
	4.0-13	5.0-13.0	1.0	1.0
ER25	0.5-6.0	1.0-6.0	0.5	0.5
	6.0-16	7.0-16.0	1.0	1.0
ER32	1.6-7.0	2.0-7.0	0.5	0.5
	7.0-20	8.0-20.0	1.0	1.0
ER40	2.6-8.0	3.0-8.0	0.5	0.5
	8.0-26	9.0-26.0	1.0	1.0

Part No.	UP(TIR≤0.005)			
	Clamping Range	Available Sizes	Step Size	Permissible Clamping Capacity
ER08	2.6-5.0	3.0-5.0	1.0	0.4
ER11	2.6-7.0	3.0-7.0	1.0	0.4
ER16	3.6-10.0	4.0-10.0	1.0	0.4
ER20	3.6-13.0	4.0-13.0	1.0	0.4
ER25	5.6-16.0	6.0-16.0	1.0	0.4
ER32	5.6-20.0	6.0-20.0	1.0	0.4
ER40				

ER COLLET-SEALED

How to use COLLET code-----ER collet-Sealed



ER collet-Sealed

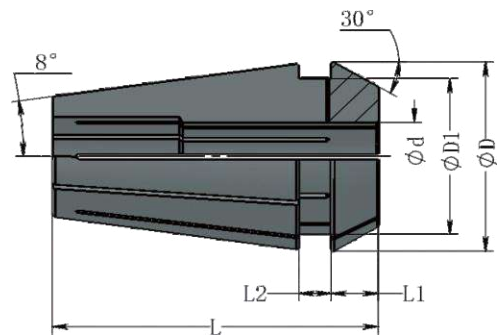
ER08-S

Clamping Diameter

Dimension

4 - AA

MODEL	DIMENSION				
	D	D1	L	L1	L2
ER11-DM	11.5	9.5	18	2.5	2
ER16-DM	17	12.8	27.5	4	2.7
ER20-DM	21	17.4	31.5	4.8	2.8
ER25-DM	26	22	34	5	3.1
ER32-DM	33	29.2	40	5.5	3.6



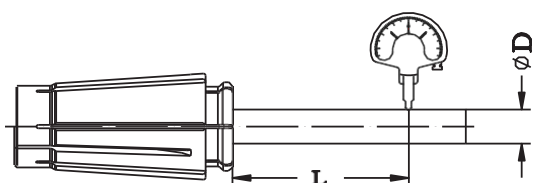
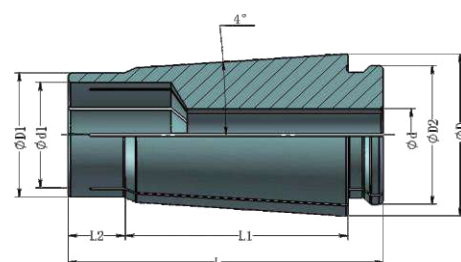
Part No.	AA(TIR≤0.008)		UP(TIR≤0.008)	
	Clamping Dia.	Step Size	Clamping Dia.	Step Size
ER11-DM	3.0-7.0	1.0	3.0-7.0	1.0
ER16-DM	3.0-10.0	1.0	3.0-10.0	1.0
ER20-DM	3.0-13.0	1.0	3.0-13.0	1.0
ER25-DM	6.0-16.0	1.0	6.0-16.0	1.0
ER32-DM	6.0-20.0	1.0	6.0-20.0	1.0

SK COLLET

How to use product code----- SK collet



Inspection conditions		Runout accuracy
D	L	UP
1.0-1.4	6	0.005
1.5-2.9	10	0.005
3.0-5.9	16	0.005
6.0-9.9	25	0.005
10.0-17.9	40	0.005
18.0-26.9	50	0.005



Inspection conditions		Runout accuracy
D	L	UP
1.0-1.4	6	0.005
1.5-2.9	10	0.005
3.0-5.9	16	0.005
6.0-9.9	25	0.005
10.0-17.9	40	0.005
18.0-26.9	50	0.005

SK COLLET

Part No.	UP(TIR≤0.005)		
	Standard Clamping Diameter	Clamping Range	Permissible Clamping Capacity
SK6-3.0	3.00	2.75-3.00	0.25
SK6-3.175	3.175	2.925-3.175	0.25
SK6-4.0	4.00	3.50-4.00	0.5
SK6-5.0	5.00	4.50-5.00	0.5
SK6-6.0	6.00	5.50-6.00	0.5

Part No.	UP(TIR≤0.005)		
	Standard Clamping Diameter	Clamping Range	Permissible Clamping Capacity
SK10-3.0	3.00	2.75-3.00	0.25
SK10-3.175	3.175	2.925-3.175	0.25
SK10-4.0	4.00	3.50-4.00	0.5
SK10-5.0	5.00	4.50-5.00	0.5
SK10-6.0	6.00	5.50-6.00	0.5
SK10-8.0	8.00	7.50-8.00	0.5
SK10-10.0	10.00	9.50-10.00	0.5

Part No.	UP(TIR≤0.005)		
	Standard Clamping Diameter	Clamping Range	Permissible Clamping Capacity
SK13-3.0	3.00	2.75-3.00	0.25
SK13-3.175	3.175	2.925-3.175	0.25
SK13-4.0	4.00	3.50-4.00	0.5
SK13-5.0	5.00	4.50-5.00	0.5
SK13-6.0	6.00	5.50-6.00	0.5
SK13-8.0	8.00	7.50-8.00	0.5
SK13-10.0	10.00	9.50-10.00	0.5
SK13-12.0	12.00	11.50-12.00	0.5

Part No.	UP(TIR≤0.005)		
	Standard Clamping Diameter	Clamping Range	Permissible Clamping Capacity
SK16-4.0	4.00	3.50-4.00	0.5
SK16-5.0	5.00	4.50-5.00	0.5
SK16-6.0	6.00	5.50-6.00	0.5
SK16-8.0	8.00	7.50-8.00	0.5
SK16-10.0	10.00	9.50-10.00	0.5
SK16-12.0	12.00	11.50-12.00	0.5
SK16-14.0	14.00	13.50-14.00	0.5
SK16-16.0	16.00	15.50-16.00	0.5

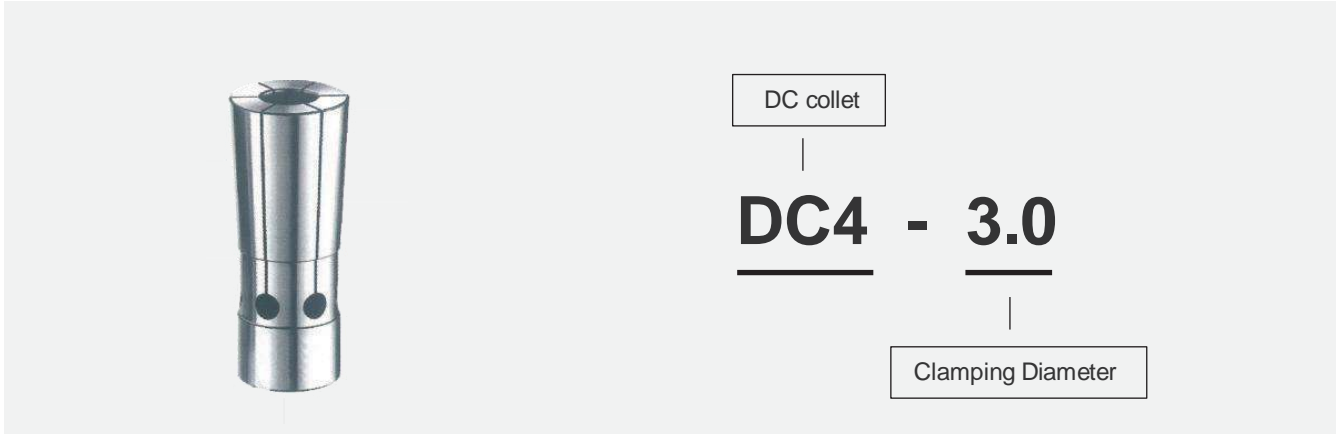
SK COLLET

Part No.	UP(TIR≤0.005)		
	Standard Clamping Diameter	Clamping Range	Permissible Clamping Capacity
SK20-6.0	6.00	5.50-6.00	0.5
SK20-8.0	8.00	7.50-8.00	0.5
SK20-10.0	10.00	9.50-10.00	0.5
SK20-12.0	12.00	11.50-12.00	0.5
SK20-14.0	14.00	13.50-14.00	0.5
SK20-16.0	16.00	15.50-16.00	0.5
SK20-18.0	18.00	17.50-18.00	0.5
SK20-20.0	20.00	19.50-20.00	0.5

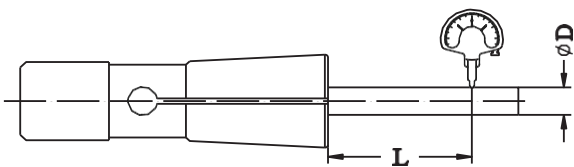
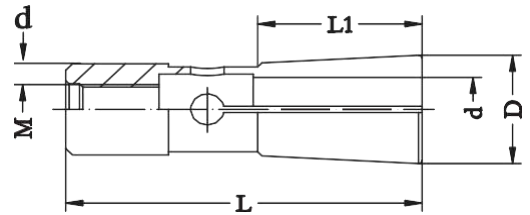
Part No.	UP(TIR≤0.005)		
	Standard Clamping Diameter	Clamping Range	Permissible Clamping Capacity
SK25-6.0	6.00	5.50-6.00	0.5
SK25-8.0	8.00	7.50-8.00	0.5
SK25-10.0	10.00	9.50-10.00	0.5
SK25-12.0	12.00	11.50-12.00	0.5
SK25-14.0	14.00	13.50-14.00	0.5
SK25-16.0	16.00	15.50-16.00	0.5
SK25-20.0	20.00	19.50-20.00	0.5
SK25-25.0	25.00	24.50-25.00	0.5

DC COLLET

How to use product----- code DC collet



MODEL	DIMENSION			
	L	D	d	M
DC4	31	7	5.6	M4
DC6	36	9.6	8.0	M5
DC8	45	15	12.8	M6
DC10	52	19	16	M8
DC12	60	22	19	M10



Inspection conditions		Runout accuracy
D	L	UP
1.0-1.4	6	0.005
1.5-2.9	10	0.005
3.0-5.9	16	0.005
6.0-9.9	25	0.005
10.0-12.0	40	0.005

DC COLLET

Part No.	UP(TIR≤0.005)
	Standard Clamping Diameter
DC4-2	2.00
DC4-3	3.000
DC4-3.175	3.18
DC4-4	4.00

Part No.	UP(TIR≤0.005)
	Standard Clamping Diameter
DC6-3	3.00
DC6-3.175	3.175
DC6-4	4.00
DC6-5	5.00
DC6-6	6.00

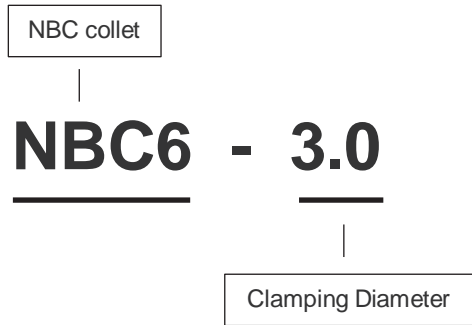
Part No.	UP(TIR≤0.005)
	Standard Clamping Diameter
DC8-3.0	3.00
DC8-4.0	4.000
DC8-6.0	6.00
DC8-8.0	8.00

Part No.	UP(TIR≤0.005)
	Standard Clamping Diameter
DC10-3.0	3.00
DC10-4.0	4.00
DC10-6.0	6.00
DC10-8.0	8.00
DC10-10.0	10.00

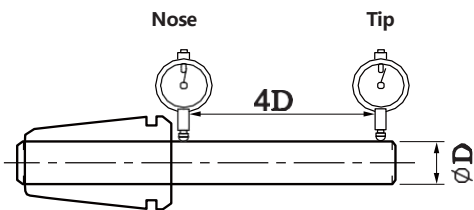
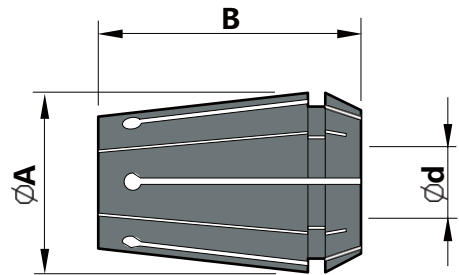
Part No.	UP(TIR≤0.005)
	Standard Clamping Diameter
DC12-4.0	4.00
DC12-6.0	6.00
DC12-8.0	8.00
DC12-10.0	10.00
DC12-12.0	12.00

NEW BABY COLLET (Clamping diameter: $\varnothing 0.25 - \varnothing 25.4$)

How to use product code ----- NBC collet



MODEL	DIMENSION	
	$\varnothing A$	B
NBC6	9.5	14
NBC8	12.5	18
NBC10	16.5	27
NBC13	20.5	31
NBC16	25.5	35
NBC20	28.5	38
NBC25	35.5	52



Runout accuracy	
Nose	4D
Within $2\mu\text{m}$	Within $4\mu\text{m}$

NEW BABY COLLET (Clamping diameter: \varnothing 0.25 - \varnothing 25.4)

Part No.	AA	
	Clamping Range	Permissible Clamping Capacity
NBC6-0.5	0.25-0.50	0.25
NBC6-0.75	0.50-0.75	0.25
NBC6-1.0	0.75-1.00	0.25
NBC6-1.25	1.00-1.25	0.25
NBC6-1.5	1.25-1.50	0.25
NBC6-1.75	1.50-1.75	0.25
NBC6-2.0	1.75-2.00	0.25
NBC6-2.25	2.00-2.25	0.25
NBC6-2.5	2.25-2.50	0.25
NBC6-2.75	2.50-2.75	0.25
NBC6-3.0	2.75-3.00	0.25
NBC6-3.175	2.925-3.175	0.25
NBC6-3.25	3.00-3.25	0.25
NBC6-3.5	3.25-3.50	0.25
NBC6-3.75	3.50-3.75	0.25
NBC6-4.0	3.75-4.00	0.25
NBC6-4.25	4.00-4.25	0.25
NBC6-4.5	4.25-4.50	0.25
NBC6-4.75	4.50-4.75	0.25
NBC6-5.0	4.75-5.00	0.25
NBC6-5.25	5.00-5.25	0.25
NBC6-5.5	5.25-5.50	0.25
NBC6-5.75	5.50-5.75	0.25
NBC6-6.0	5.75-6.00	0.25

NEW BABY COLLET (Clamping diameter: \varnothing 0.25 - \varnothing 25.4)

Part No.	AA	
	Clamping Range	Permissible Clamping Capacity
NBC8-0.75	0.50-0.75	0.25
NBC8-1.0	0.75-1.00	0.25
NBC8-1.25	1.00-1.25	0.25
NBC8-1.5	1.25-1.50	0.25
NBC8-1.75	1.50-1.75	0.25
NBC8-2.0	1.75-2.00	0.25
NBC8-2.25	2.00-2.25	0.25
NBC8-2.5	2.25-2.50	0.25
NBC8-2.75	2.50-2.75	0.25
NBC8-3.0	2.75-3.00	0.25
NBC8-3.175	2.675-3.175	0.5
NBC8-3.5	3.00-3.50	0.5
NBC8-4.0	3.5-4.00	0.5
NBC8-4.5	4.00-4.50	0.5
NBC8-5.0	4.50-5.00	0.5
NBC8-5.25	4.75-5.25	0.5
NBC8-5.5	5.00-5.50	0.5
NBC8-5.75	5.25-5.75	0.5
NBC8-6.0	5.50-6.00	0.5
NBC8-7.0	6.50-7.00	0.5
NBC8-7.5	7.00-7.50	0.5
NBC8-8.0	7.50-8.00	0.5

ATTACHMENTS & ACCESSORIES



SWISS-TYPE LATHE ATTACHMENTS



Collet sleeve



Sleeve Spring



Apron Cover



Toggle



Nut



Ejector pin



Guide bush nut



Wedge



Reducing sleeve



Bar sleeve



Toggle shifter sleeve



90° driven fixtures



Straight driven fixtures



Drilling seat



Extension seat



Spindle



Front ejection assembly



Rear ejection assembly



Support bracket



Spindle Wrench

SWISS-TYPE LATHE ACCESSORIES



Parts catcher assembly



Oil separator unit



Tool turret assembly



Spindle & Nut wrench



Precision test bar



Conveyor belt



Sleeve

SWISS-TYPE LATHE ACCESSORIES

COLLET-SLEEVE

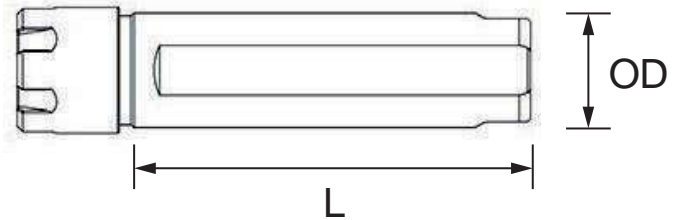


SINGLE-ENDED-COLLET-SLEEVE(Fig 1)



DOUBLE-ENDED-COLLET-SLEEVE(Fig 2)

SWISS-TYPE LATHE ACCESSORIES



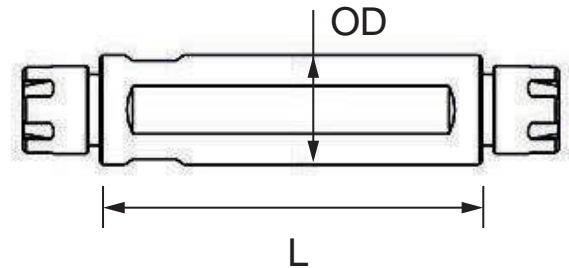
Part No.	OD	L	Type	Nut
SL16-ER11M-50	16mm	50mm	Fig1	A/M
SL16-ER11M-70	16mm	70mm	Fig1	A/M
SL16-ER11M-100	16mm	100mm	Fig1	A/M
SL17-ER11M-70	17mm	70mm	Fig1	A/M
SL19.05-ER11M-70	19.05mm	70mm	Fig1	A/M
SL19.05-ER11M-100	19.05mm	100mm	Fig1	A/M
SL20-ER11M-50	20mm	50mm	Fig1	A/M
SL20-ER11M-70	20mm	70mm	Fig1	A/M
SL20-ER11M-100	20mm	100mm	Fig1	A/M
SL22-ER11M-70	22mm	70mm	Fig1	A/M
SL5/8-ER11M-50	5/8"	50mm	Fig1	A/M
SL5/8-ER11M-100	5/8"	100mm	Fig1	A/M
SL25-ER11M-50	25mm	50mm	Fig1	A/M
SL25-ER11M-60	25mm	60mm	Fig1	A/M
SL16-ER16M-50	16mm	50mm	Fig1	A/M
SL16-ER16M-70	16mm	70mm	Fig1	A/M
SL16-ER16M-100	16mm	100mm	Fig1	A/M
SL19.05-ER16M-50	19.05mm	50mm	Fig1	A/M
SL19.05-ER16M-70	19.05mm	70mm	Fig1	A/M
SL19.05-ER16M-100	19.05mm	100mm	Fig1	A/M
SL20-ER16M-50	20mm	50mm	Fig1	A/M
SL20-ER16M-70	20mm	70mm	Fig1	A/M
SL20-ER16M-100	20mm	100mm	Fig1	A/M
SL22-ER16M-50	22mm	50mm	Fig1	A/M
SL22-ER16M-70	22mm	70mm	Fig1	A/M

SWISS-TYPE LATHE ACCESSORIES



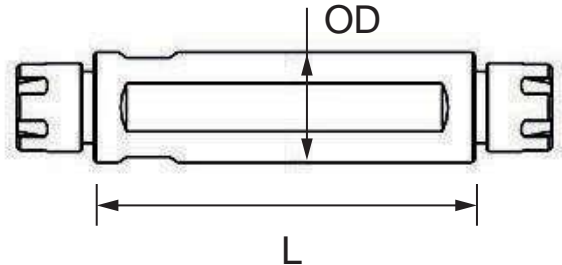
Part No.	OD	L	Type	Nut
SL22-ER16M-100	22mm	100mm	Fig1	A/M
SL25-ER16M-50	25mm	50mm	Fig1	A/M
SL25-ER16M-70	25mm	70mm	Fig1	A/M
SL25-ER16M-100	25mm	100mm	Fig1	A/M
SL25.4-ER16M-50	25.4mm	50mm	Fig1	A/M
SL25.4-ER16M-70	25.4mm	70mm	Fig1	A/M
SL25.4-ER16M-100	25.4mm	100mm	Fig1	A/M
SL20-ER20M-50	20mm	50mm	Fig1	A/M
SL20-ER20M-70	20mm	70mm	Fig1	A/M
SL20-ER20M-100	20mm	100mm	Fig1	A/M
SL22-ER20M-70	22mm	70mm	Fig1	A/M
SL22-ER20M-100	22mm	100mm	Fig1	A/M
SL25-ER20M-50	25mm	50mm	Fig1	A/M
SL25-ER20M-70	25mm	70mm	Fig1	A/M
SL25-ER20M-100	25mm	100mm	Fig1	A/M
SL25.4-ER20M-50	25.4mm	50mm	Fig1	A/M
SL25.4-ER20M-70	25.4mm	70mm	Fig1	A/M
SL25.4-ER20M-100	25.4mm	100mm	Fig1	A/M
SL32-ER20M-70	32mm	70mm	Fig1	A/M
SL32-ER20M-85	32mm	85mm	Fig1	A/M
SL32-ER20M-100	32mm	100mm	Fig1	A/M
SL40-ER20M-70	40mm	70mm	Fig1	A/M
SL25-ER25UM-50	25mm	50mm	Fig1	A/UM
SL25-ER25UM-70	25mm	70mm	Fig1	A/UM
SL25-ER25UM-80	25mm	80mm	Fig1	A/UM
SL32-ER25UM-70	32mm	70mm	Fig1	A/UM
SL40-ER25M-70	40mm	70mm	Fig1	M
SL40-ER32UM-70	40mm	70mm	Fig1	A/UM

SWISS-TYPE LATHE ACCESSORIES



Part No.	OD	L	Type	Nut
SL16-ER11MD--50	16mm	50	Fig2	A/M
SL16-ER11MD--70	16mm	70	Fig2	A/M
SL16-ER11MD--100	16mm	100	Fig2	A/M
SL19.05-ER11MD--50	19.05mm	50	Fig2	A/M
SL19.05-ER11MD--70	19.05mm	70	Fig2	A/M
SL19.05-ER11MD--100	19.05mm	100	Fig2	A/M
SL20-ER11MD-50	20mm	50	Fig2	A/M
SL20-ER11MD-60	20mm	60	Fig2	A/M
SL20-ER11MD-70	20mm	70	Fig2	A/M
SL20-ER11MD-80	20mm	80	Fig2	A/M
SL20-ER11MD-100	20mm	100	Fig2	A/M
SL19.05-ER16MD-50	19.05mm	50	Fig2	A/M
SL19.05-ER16MD-70	19.05mm	70	Fig2	A/M
SL19.05-ER16MD-90	19.05mm	90	Fig2	A/M
SL19.05-ER16MD-100	19.05mm	100	Fig2	A/M
SL20-ER16MD-50	20mm	50	Fig2	A/M
SL20-ER16MD-60	20mm	60	Fig2	A/M
SL20-ER16MD-70	20mm	70	Fig2	A/M

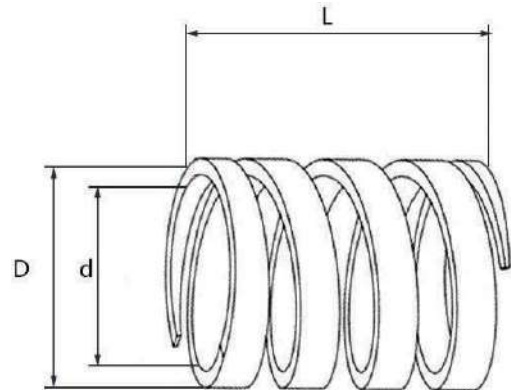
SWISS-TYPE LATHE ACCESSORIES



Part No.	OD	L	Type	Nut
SL20-ER16MD-90	20mm	90	Fig2	A/M
SL20-ER16MD-100	20mm	100	Fig2	A/M
SL22-ER16MD-50	22mm	50	Fig2	A/M
SL22-ER16MD-63	22mm	63	Fig2	A/M
SL22-ER16MD-70	22mm	70	Fig2	A/M
SL22-ER16MD-80	22mm	80	Fig2	A/M
SL22-ER16MD-83	22mm	83	Fig2	A/M
SL22-ER16MD-100	22mm	100	Fig2	A/M
SL25-ER16MD-50	25mm	50	Fig2	A/M
SL25-ER16MD-70	25mm	70	Fig2	A/M
SL25-ER16MD-100	25mm	100	Fig2	A/M
SL25.4-ER16MD-50	25.4mm	50	Fig2	A/M
SL25.4-ER16MD-70	25.4mm	70	Fig2	A/M
SL25.4-ER16MD-100	25.4mm	100	Fig2	A/M
SL25-ER20MD-60	25mm	60	Fig2	A/M
SL25-ER20MD-70	25mm	70	Fig2	A/M
SL25-ER20MD-100	25mm	100	Fig2	A/M
SL25.4-ER20MD-70	25.4mm	70	Fig2	A/M
SL25.4-ER20MD-100	25.4mm	100	Fig2	A/M
SL32-ER20MD-80	32mm	80	Fig2	A/M
SL32-ER20MD-100	32mm	100	Fig2	A/M

SWISS-TYPE LATHE ACCESSORIES

Collet Sleeve Spring



Part No.	DIMENSION		
	D	d	L
PSP33-72.5	36.8	33	72.5
PSP29-62	32.6	29	62
PSP33.6-75	36.8	33.6	75
PSP21-31	25.9	21	31
PSP26.2-52	29.9	26.2	52
PSP22-46	25.7	22	46
PSP28.8-32	32.5	28.8	32
PSP32.6-58	36.6	32.6	58
PSP28.7-32	32.8	28.7	32
PSP23.9-35	27.9	23.9	35
PSP28.5-35	32.5	28.5	35
PSP23.9-35	27.5	23.9	35
PSP24-34	27.9	24	34
PSP16.4-35	19.9	16.4	35
PSP19-30	23.6	19	30
PSP33-45	36.8	33	45
PSP33.5-70	36.8	33.5	70
PSP13.5-32.5	15.9	13.5	32.5
PSP13.5-30.7	15.8	13.5	30.7
PSP17-30	19.6	17	30
PSP17-26	19.6	17	26
PSP33.6-66	36.8	33.6	66

SWISS-TYPE LATHE ACCESSORIES

Apron Cover



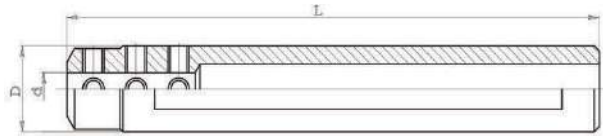
Machine	DIMENSION	
	X2 Axis	Z2 Axis
TSUGAMI BO75/12/20	•	•
TSUGAMI S205/S206	•	•
TSUGAMI B026		•
TSUGAMI BO32		•
TSUGAMI BO385	•	
STAR 20/23	•	•
STAR 10	•	•
STAR SR20	•	•
STAR SR20*	•	
STAR SB16*		•
STAR SP23	•	
SR32	•	
CITIZEN A20/A25/L20	•	•
CITIZEN L12	•	
CITIZEN L32	•	

* Old version of swiss lathe • in stock

SWISS-TYPE LATHE ACCESSORIES

Bar sleeve

SHB



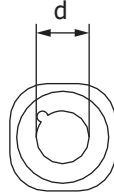
Series	Part No.	DIMENSION		
		D	d	L
SHB12	SHB12-2-80	12	2	80
	SHB12-3-80	12	3	80
	SHB12-4-80	12	4	80
	SHB12-5-80	12	5	80
	SHB12-6-80	12	6	80
SHB16	SHB16-2-100	16	2	100
	SHB16-3-100	16	3	100
	SHB16-4-100	16	4	100
	SHB16-5-100	16	5	100
	SHB16-6-100	16	6	100
	SHB16-7-100	16	7	100
	SHB16-8-100	16	8	100
	SHB16-10-100	16	10	100
SHB20	SHB20-2-100	20	2	100
	SHB20-3-100	20	3	100
	SHB20-4-100	20	4	100
	SHB20-5-100	20	5	100
	SHB20-6-100	20	6	100
	SHB20-7-100	20	7	100
	SHB20-8-100	20	8	100
	SHB20-10-100	20	10	100
	SHB20-12-100	20	12	100
	SHB20-14-100	20	14	100

SWISS-TYPE LATHE ACCESSORIES

Series	Part No.	DIMENSION		
		D	d	L
SHB22	SHB22-3-100	22	3	100
	SHB22-4-100	22	4	100
	SHB22-5-100	22	5	100
	SHB22-6-100	22	6	100
	SHB22-8-100	22	8	100
	SHB22-10-100	22	10	100
	SHB22-12-100	22	12	100
	SHB22-14-100	22	14	100
	SHB22-16-100	22	16	100
SHB25	SHB25-3-100	25	3	100
	SHB25-4-100	25	4	100
	SHB25-6-100	25	6	100
	SHB25-8-100	25	8	100
	SHB25-10-100	25	10	100
	SHB25-12-100	25	12	100
	SHB25-14-100	25	14	100
	SHB25-16-100	25	16	100
	SHB25-18-100	25	18	100
	SHB25-20-100	25	20	100
SHB19.05	SHB19.05-3-100	19.05	3	100
	SHB19.05-4-100	19.05	4	100
	SHB19.05-5-100	19.05	5	100
	SHB19.05-6-100	19.05	6	100
	SHB19.05-7-100	19.05	7	100
	SHB19.05-8-100	19.05	8	100
	SHB19.05-10-100	19.05	10	100
	SHB19.05-12-100	19.05	12	100
	SHB19.05-16-100	19.05	16	100
SHB25.4	SHB25.4-3-100	25.4	3	100
	SHB25.4-4-100	25.4	4	100
	SHB25.4-5-100	25.4	5	100
	SHB25.4-6-100	25.4	6	100
	SHB25.4-7-100	25.4	7	100
	SHB25.4-8-100	25.4	8	100
	SHB25.4-10-100	25.4	10	100
	SHB25.4-12-100	25.4	12	100
	SHB25.4-14-100	25.4	14	100
	SHB25.4-16-100	25.4	16	100
	SHB25.4-20-100	25.4	20	100

SWISS-TYPE LATHE ACCESSORIES

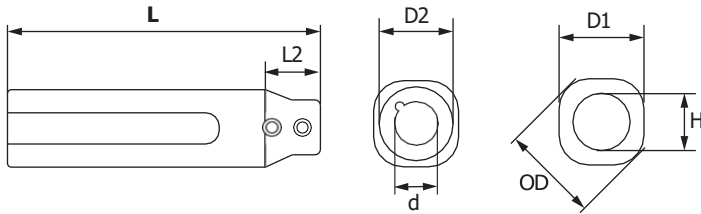
TSHB Coolant



Series	Part No.	DIMENSION			
		OD	d	L	TH
TSHB16	TSHB16-3-100	16	3	100	1/4
	TSHB16-4-100	16	4	100	1/4
	TSHB16-5-100	16	5	100	1/4
	TSHB16-6-100	16	6	100	1/4
	TSHB16-7-100	16	7	100	1/4
	TSHB16-8-100	16	8	100	1/4
TSHB20	TSHB20-3-100	20	3	100	1/4
	TSHB20-4-100	20	4	100	1/4
	TSHB20-5-100	20	5	100	1/4
	TSHB20-6-100	20	6	100	1/4
	TSHB20-7-100	20	7	100	1/4
	TSHB20-8-100	20	8	100	1/4
	TSHB20-10-100	20	10	100	1/4
	TSHB20-12-100	20	12	100	3/8
TSHB22	TSHB22-3-100	22	3	100	1/4
	TSHB22-4-100	22	4	100	1/4
	TSHB22-5-100	22	5	100	1/4
	TSHB22-6-100	22	6	100	1/4
	TSHB22-7-100	22	7	100	1/4
	TSHB22-8-100	22	8	100	1/4
	TSHB22-10-100	22	10	100	1/4
	TSHB22-12-100	22	12	100	3/8
	TSHB22-16-100	22	16	100	3/8
TSHB25	TSHB25-4-100	25	4	100	1/4
	TSHB25-5-100	25	5	100	1/4
	TSHB25-6-100	25	6	100	1/4
	TSHB25-8-100	25	8	100	1/4
	TSHB25-10-100	25	10	100	1/4
	TSHB25-12-100	25	12	100	3/8
	TSHB25-14-100	25	14	100	3/8
	TSHB25-16-100	25	16	100	3/8
TSHB25.4	TSHB25.4-4-100	25.4	4	100	1/4
	TSHB25.4-5-100	25.4	5	100	1/4
	TSHB25.4-6-100	25.4	6	100	1/4
	TSHB25.4-8-100	25.4	8	100	1/4
	TSHB25.4-10-100	25.4	10	100	1/4
	TSHB25.4-12-100	25.4	12	100	3/8
	TSHB25.4-14-100	25.4	14	100	3/8
	TSHB25.4-16-100	25.4	16	100	3/8

SWISS-TYPE LATHE ACCESSORIES

XSHB Coolant,Self-Centering



Series	Part No.	DIMENSION						
		OD	D1	H	D2	d	L	L1
XSHB16	XSHB16-2-100	16	15	8.5	12	2	100	19
	XSHB16-2.5-100	16	15	8.5	12	2.5	100	19
	XSHB16-3-100	16	15	8.5	12	3	100	19
	XSHB16-3.5-100	16	15	8.5	12	3.5	100	19
	XSHB16-4-100	16	15	8.5	12	4	100	19
	XSHB16-5-100	16	15	8.5	12	5	100	19
	XSHB16-6-100	16	15	8.5	12	6	100	19
	XSHB16-7-100	16	15	8.5	12	7	100	19
XSHB19.05	XSHB19.05-2-100	19.05	18	8.5	15	2	100	17.5
	XSHB19.05-2.5-100	19.05	18	8.5	15	2.5	100	17.5
	XSHB19.05-3-100	19.05	18	8.5	15	3	100	17.5
	XSHB19.05-3.5-100	19.05	18	8.5	15	3.5	100	17.5
	XSHB19.05-4-100	19.05	18	8.5	15	4	100	17.5
	XSHB19.05-5-100	19.05	18	8.5	15	5	100	17.5
	XSHB19.05-6-100	19.05	18	8.5	15	6	100	17.5
	XSHB19.05-7-100	19.05	18	8.5	15	7	100	17.5
XSHB19.05-8-100	19.05	18	8.5	15	8	100	17.5	
XSHB20	XSHB20-2-100	20	19	8.5	16	2	100	17
	XSHB20-2.5-100	20	19	8.5	16	2.5	100	17
	XSHB20-3-100	20	19	8.5	16	3	100	17
	XSHB20-3.5-100	20	19	8.5	16	3.5	100	17
	XSHB20-4-100	20	19	8.5	16	4	100	17
	XSHB20-5-100	20	19	8.5	16	5	100	17
	XSHB20-6-100	20	19	8.5	16	6	100	17
	XSHB20-7-100	20	19	8.5	16	7	100	17
	XSHB20-8-100	20	19	8.5	16	8	100	17
XSHB25	XSHB25-2-100	25	24	8.5	18	2	100	18
	XSHB25-2.5-100	25	24	8.5	18	2.5	100	18
	XSHB25-3-100	25	24	8.5	18	3	100	18
	XSHB25-3.5-100	25	24	8.5	18	3.5	100	18
	XSHB25-4-100	25	24	8.5	18	4	100	18
	XSHB25-5-100	25	24	8.5	18	5	100	18
	XSHB25-6-100	25	24	8.5	18	6	100	18
	XSHB25-7-100	25	24	8.5	18	7	100	18
XSHB25-8-100	25	24	8.5	18	8	100	18	
XSHB25.4	XSHB25.4-2-100	25.4	24	8.5	18	2	100	18
	XSHB25.4-2.5-100	25.4	24	8.5	18	2.5	100	18
	XSHB25.4-3-100	25.4	24	8.5	18	3	100	18
	XSHB25.4-3.5-100	25.4	24	8.5	18	3.5	100	18
	XSHB25.4-4-100	25.4	24	8.5	18	4	100	18
	XSHB25.4-5-100	25.4	24	8.5	18	5	100	18
	XSHB25.4-6-100	25.4	24	8.5	18	6	100	18
	XSHB25.4-7-100	25.4	24	8.5	18	7	100	18
XSHB25.4-8-100	25.4	24	8.5	18	8	100	18	

SWISS-TYPE LATHE ACCESSORIES

Toggle

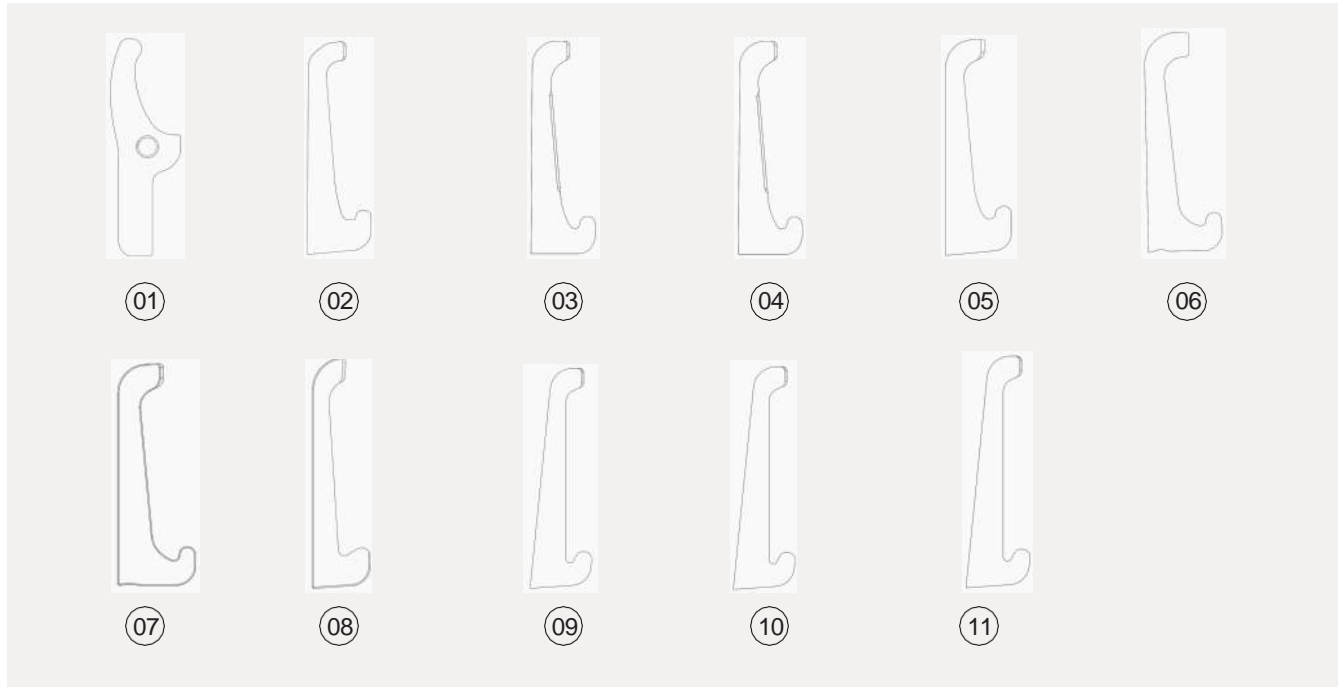
STAR



MODEL	DIMENSION				FIG
	L	H	T	Φ	
8#	53	17.1	6	4	1
10J	40	18	6	6	2
12#	39	25.6	8	6	3
RNC16(OLD)	67.5	32	10	6	4
RNC16(NEW)	68	32	10	6	5
RNC16 SUB (RNC16 B)	39	22	8	6	6
SB16#	68	31.5	10	6	7
20#	68	31	10	6	8
20# SUB	50	25.6	12	8	9
SR20R MAIN	78	35.6	12	8	10
SR20 SUB	57	27	12	8	11
32#	67.3	29.9	12	8	12

SWISS-TYPE LATHE ACCESSORIES

TSUGAMI



MODEL	DIMENSION				FIG
	L	H	T	Φ	
T7	59	18	7	5	1
BO12	57	17	8		2
NP17	57	17	12		3
BO18	57	17	12		4
BO20	57	17	12		5
BO205	57	19	12		6
BO206	57	20	12		7
S20 SUB	57	14	8		8
BO25	86	22	12		9
BA26	86	22	12		10
BO385	86	22	12		11

SWISS-TYPE LATHE ACCESSORIES

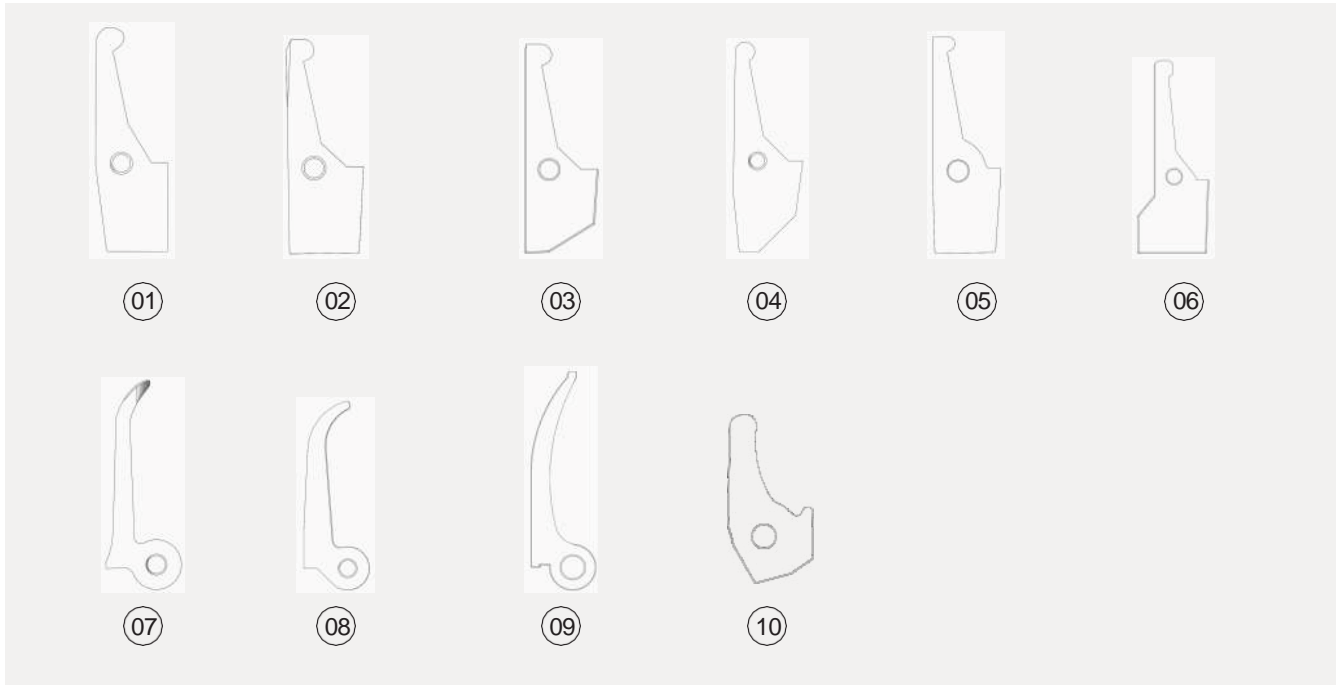
CITIZEN



MODEL	DIMENSION				FIG
	L	H	T	Φ	
B12	54	17.2	6	4	1
B12# SUB(OLD)(B12# B)	36.3	12.8	4	4	2
B12# SUB(NEW)(B12# B)	45	17	6	4	3
BL12	41	23	8	6	4
16#	55	21	8	6	5
16# SUB (16# B)	54	18	6	4	6
20#	73	24.4	10	8	7
BL20	71	20	8	6	8
BL20 SUB (BL20 B)	25.5	21.4	8	6	9

SWISS-TYPE LATHE ACCESSORIES

NOMURA



MODEL	DIMENSION				FIG
	L	H	T	Φ	
8#	50.5	16	6	4	1
10#	50.3	17.4	7	4.5	2
10T	50.3	17.4	7	4.5	3
10S	53	17	7	4.5	4
P16	64.6	20.3	8	6	5
NN16	58.6	21.3	7	4.5	6
NN20	69.5	24	8	6	7
NN20J	70	25	8	6	8
25#	96	28.7	14	10	9
38#	58	27.8	12	8	10

BARFEEDER ACCESSORIES



Channel



Hand Control Box



Remote Cable



Telescope



Anti-vibration
rubber wheel set



Nylon sleeve



Hook



End-shaft



Connection block



Bar pusher



Adapter shaft



Aircraft fap



Rotating Screw



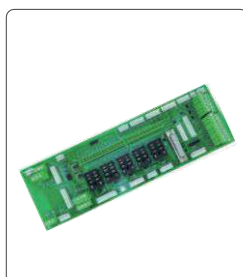
Hollow tip



Shock proof block



Pneumatic Cylinder Kit



Control Board



Telescope holder



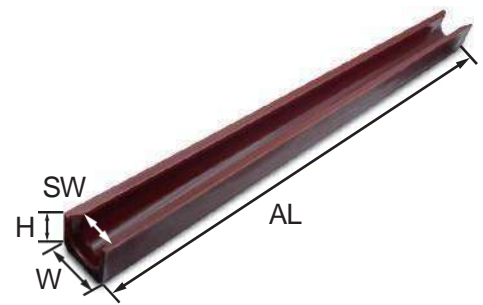
Gear Shaft

BARFEEDER ACCESSORIES

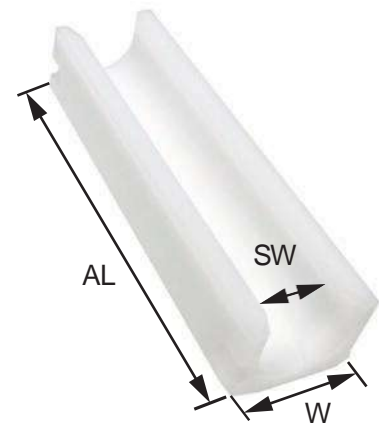
Channel

LNS XT320

Part NO.	DIMENSION			
	H	W	SW	AL
PGCL0108	33	39	8	490
PGCL0111	33	39	11	490
PGCL0114	33	39	14	490
PGCL0117	33	39	17	490
PGCL0119	33	39	19	490
PGCL0121	33	39	21	490
PGCL0123	33	39 </td <td>23</td> <td>490</td>	23	490
PGCL0125	33	39	25	490
PGCL0127	33	39	27	490
PGCL0129	33	39	29	490



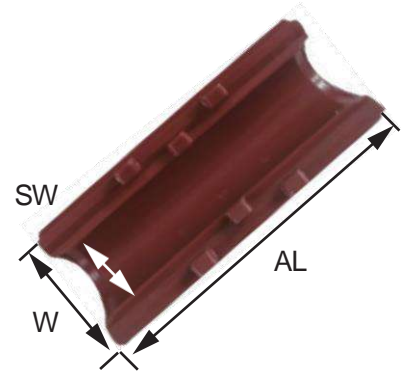
Part NO.	DIMENSION		
	W	SW	AL
PGCL0208	39	8	135
PGCL0211	39	11	135
PGCL0214	39	14	135
PGCL0217	39	17	135
PGCL0219	39	19	135
PGCL0221	39	21	135
PGCL0223	39	23	135
PGCL0225	39	25	135
PGCL0227	39	27	135
PGCL0229	39	29	135



BARFEEDER ACCESSORIES

LNS GT342

Part NO.	DIMENSION			
	H	W	SW	AL
PGCL0327	44	69	27	165
PGCL0333	44	69	33	165
PGCL0335	44	69	35	165
PGCL0337	44	69	37	165
PGCL0339	44	69	39	165
PGCL0343	44	69	43	165



IEMCA STEADY 320 BOSS322

Part NO.	DIMENSION			
	H	W	SW	AL
PGCI0108	34	40	8	460
PGCI0111	34	40	11	460
PGCI0114	34	40	14	460
PGCI0117	34	40	17	460
PGCI0119	34	40	19	460
PGCI0121	34	40	21	460
PGCI0124	34	40	24	460
PGCI0126	34	40	26	460
PGCI0127	34	40	27	460
PGCI0129	34	40	29	460



BARFEEDER ACCESSORIES

PRO RAY326



Part NO.	NO	DIMENSION				SET.
		H	W	SW	AL	
PGCP01S14	01	44	69	14	540	01*4PCS
	02	44	69	14	482	02*1PCS
	03	44	69	14	365	03*1PCS
	04	44	69	14	110	04*1PCS
PGCP01S18	01	44	69	18	540	01*4PCS
	02	44	69	18	482	02*1PCS
	03	44	69	18	365	03*1PCS
	04	44	69	18	110	04*1PCS
PGCP01S22	01	44	69	22	540	01*4PCS
	02	44	69	22	482	02*1PCS
	03	44	69	22	365	03*1PCS
	04	44	69	22	110	04*1PCS
PGCP01S24	01	44	69	24	540	01*4PCS
	02	44	69	24	482	02*1PCS
	03	44	69	24	365	03*1PCS
	04	44	69	24	110	04*1PCS
PGCP01S28	01	44	69	28	540	01*4PCS
	02	44	69	28	482	02*1PCS
	03	44	69	28	365	03*1PCS
	04	44	69	28	110	04*1PCS

PMS QUICK CHANGE SERIES

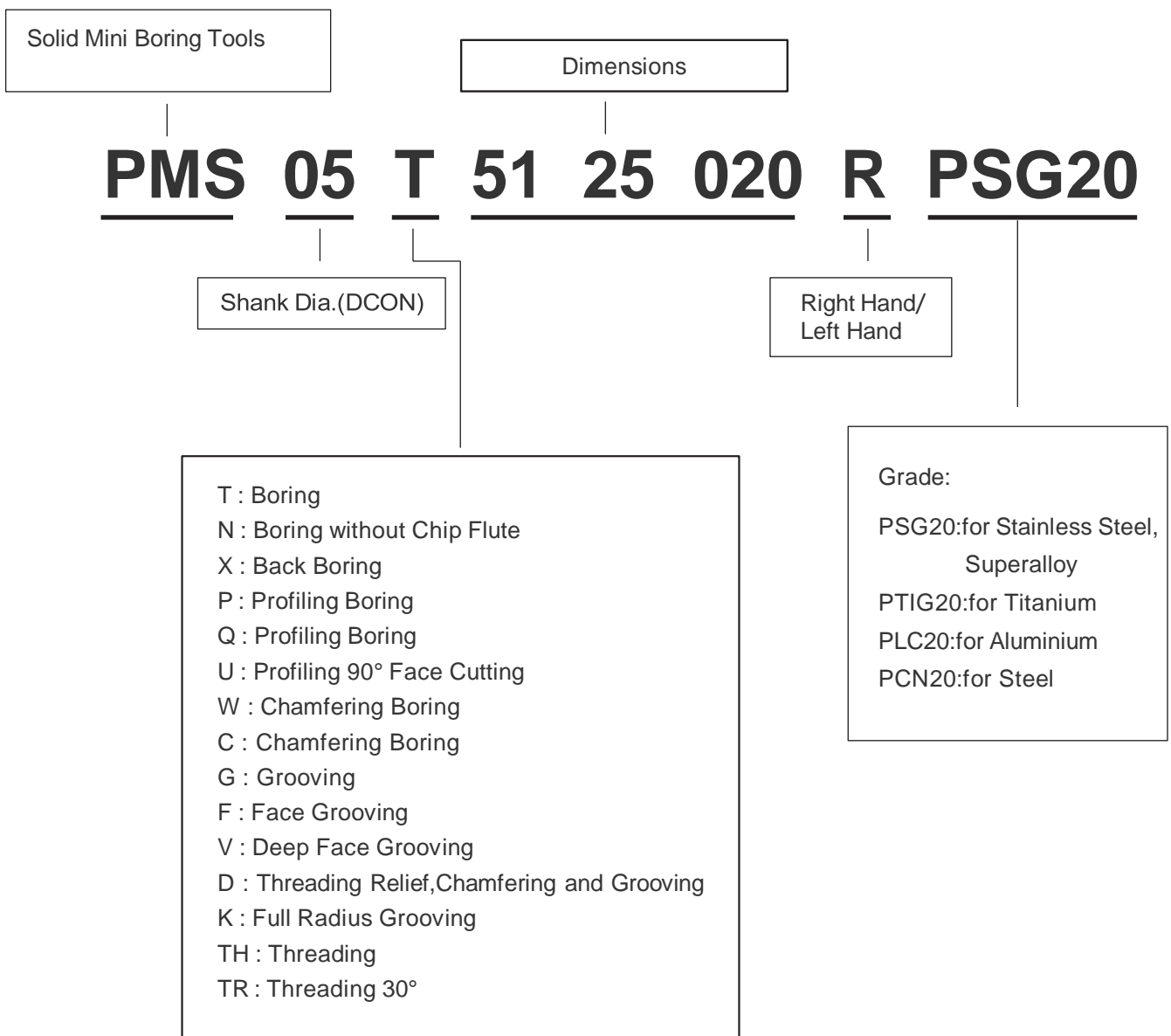


**HIGH EFFICIENCY
PRECISION
ECONOMY AND DURABILITY**

CONTENTS

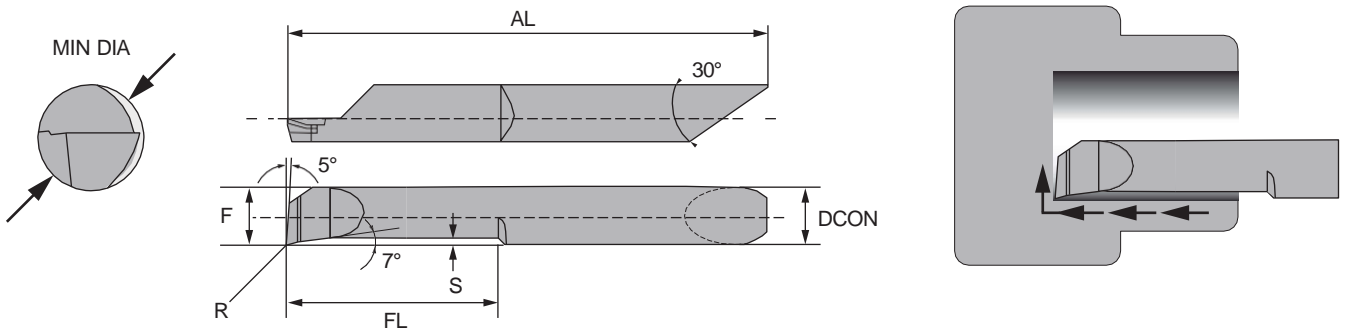
I	_____	BORING
		PMS**T
		PMS**X
II	_____	BORING,PROFILING
		PMS**P
		PMS**Q
III	_____	BORING,PROFILING,90° FACE CUTTING(PMS**U)
IV	_____	THREADING(PMS**TH)
		$\theta=60^\circ$
		$\theta=55^\circ$
V	_____	CHAMFERING,BORING(PMS**W)
VI	-----	GROOVING(PMS**G)
VII	_____	FACE GROOVING(PMS**F)
VIII	_____	DEEP FACE GROOVING(PMS**V)
IX	-----	PCD/PCBN BACK TURNING
X	-----	PCD/PCBN TURNING
XI	-----	PCD/PCBN THREADING
XII	-----	PCD/PCBN GROOVING

HOW TO USE PRODUCT CODE



BORING

PMS**T (BORING)



PSG20:for Stainless Steel,Superalloy PTIG20:for Titanium PLC20:for Aluminium PCN20:for Steel

PART NO.	MIN DIA	DCON	R	AL	FL	F	S
PMS04T2106005R	2.1	4	0.05	31	6	1.85	0.20
PMS04T2106010R	2.1	4	0.10	31	6	1.85	0.20
PMS04T2110005R	2.1	4	0.05	35	10	1.85	0.20
PMS04T2110010R	2.1	4	0.10	35	10	1.85	0.20
PMS04T2608005R	2.6	4	0.05	33	8	2.35	0.25
PMS04T2608010R	2.6	4	0.10	33	8	2.35	0.25
PMS04T2608015R	2.6	4	0.15	33	8	2.35	0.25
PMS04T2612005R	2.6	4	0.05	37	12	2.35	0.25
PMS04T2612010R	2.6	4	0.10	37	12	2.35	0.25
PMS04T2612015R	2.6	4	0.15	37	12	2.35	0.25
PMS04T3110005R	3.1	4	0.05	35	10	2.8	0.30
PMS04T3110010R	3.1	4	0.10	35	10	2.8	0.30
PMS04T3110015R	3.1	4	0.15	35	10	2.8	0.30
PMS04T3115005R	3.1	4	0.05	40	15	2.8	0.30
PMS04T3115010R	3.1	4	0.10	40	15	2.8	0.30
PMS04T3115015R	3.1	4	0.15	40	15	2.8	0.30
PMS04T4112005R	4.1	4	0.05	37	12	3.8	0.40
PMS04T4112010R	4.1	4	0.10	37	12	3.8	0.40
PMS04T4112020R	4.1	4	0.20	37	12	3.8	0.40
PMS04T4116005R	4.1	4	0.05	41	16	3.8	0.40
PMS04T4116010R	4.1	4	0.10	41	16	3.8	0.40
PMS04T4116020R	4.1	4	0.20	41	16	3.8	0.40
PMS04T4120005R	4.1	4	0.05	45	20	3.8	0.40
PMS04T4120010R	4.1	4	0.10	45	20	3.8	0.40
PMS04T4120020R	4.1	4	0.20	45	20	3.8	0.40
PMS05T5115010R	5.1	5	0.10	40	15	4.8	0.50
PMS05T5115020R	5.1	5	0.20	40	15	4.8	0.50
PMS05T5120010R	5.1	5	0.10	45	20	4.8	0.50
PMS05T5120020R	5.1	5	0.20	45	20	4.8	0.50
PMS05T5125010R	5.1	5	0.10	50	25	4.8	0.50

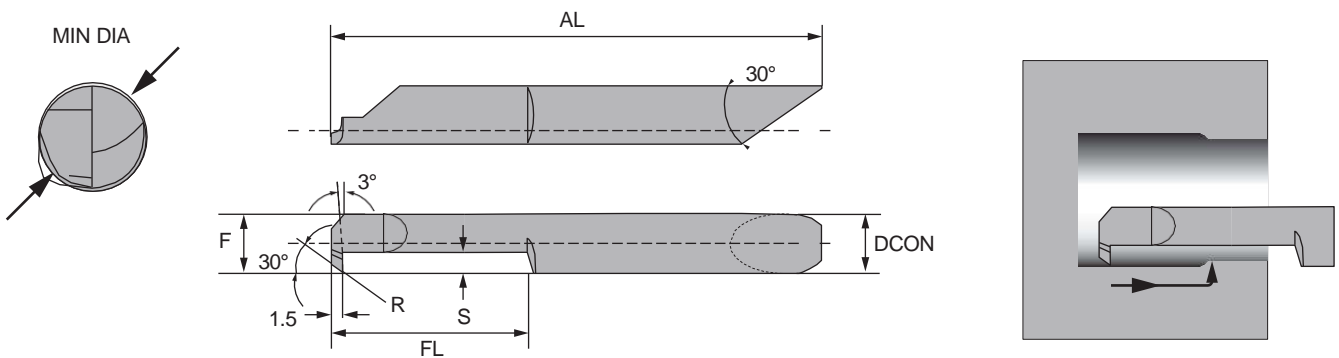
BORING

PMS**T (BORING)

PSG20:for Stainless Steel,Superalloy PTIG20:for Titanium PLC20:for Aluminium PCN20:for Steel

PART NO.	MIN DIA	DCON	R	AL	FL	F	S
PMS05T5125020R	5.1	5	0.20	50	25	4.8	0.50
PMS06T6115010R	6.1	6	0.10	40	15	5.8	0.60
PMS06T6115020R	6.1	6	0.20	40	15	5.8	0.60
PMS06T6120010R	6.1	6	0.10	45	20	5.8	0.60
PMS06T6120020R	6.1	6	0.20	45	20	5.8	0.60
PMS06T6125010R	6.1	6	0.10	50	25	5.8	0.60
PMS06T6125020R	6.1	6	0.20	50	25	5.8	0.60
PMS06T6130010R	6.1	6	0.10	55	30	5.8	0.60
PMS06T6130020R	6.1	6	0.20	55	30	5.8	0.60
PMS07T7125010R	7.1	7	0.10	54	25	6.8	0.70
PMS07T7125020R	7.1	7	0.20	54	25	6.8	0.70
PMS07T7135010R	7.1	7	0.10	64	35	6.8	0.70
PMS07T7135020R	7.1	7	0.20	64	35	6.8	0.70

PMS**X (BACK BORING)

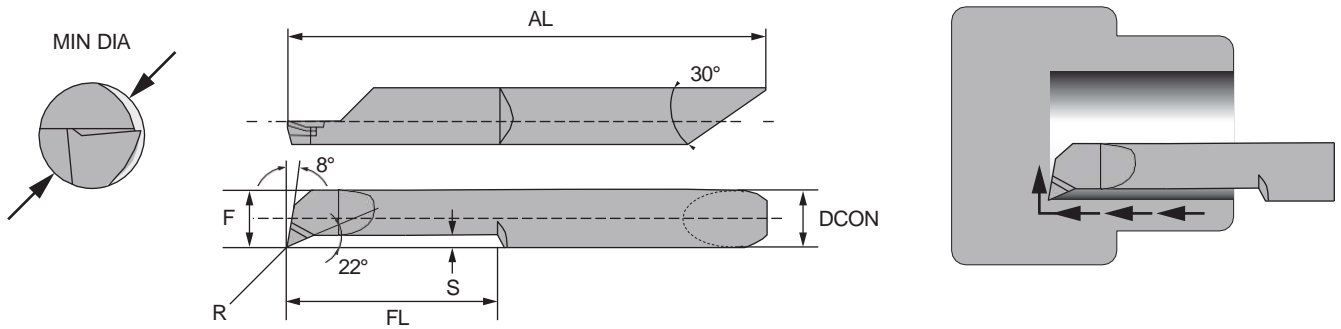


PSG20:for Stainless Steel,Superalloy PTIG20:for Titanium PLC20:for Aluminium PCN20:for Steel

PART NO.	MIN DIA	DCON	R	AL	FL	F	S
PMS04X4116010R	4.1	4	0.10	41	16	3.8	1.00
PMS05X5120010R	5.1	5	0.10	45	20	4.8	1.30
PMS06X6125010R	6.1	6	0.10	50	25	5.8	1.60

BORING/PROFILING

PMS**P (BORING, PROFILING)



PSG20:for Stainless Steel,Superalloy PTIG20:for Titanium PLC20:for Aluminium PCN20:for Steel

PART NO.	MIN DIA	DCON	R	AL	FL	F	S
PMS04P0402003R	0.4	4	0.03	28	2	0.38	0.05
PMS04P0602003R	0.6	4	0.03	28	2	0.55	0.06
PMS04P08025003R	0.8	4	0.03	28	2.5	0.75	0.08
PMS04P1004005R	1	4	0.05	29	4	0.9	0.15
PMS04P1004010R	1	4	0.10	29	4	0.9	0.15
PMS04P1006005R	1	4	0.05	31	6	0.9	0.15
PMS04P1006010R	1	4	0.10	31	6	0.9	0.15
PMS04P1204005R	1.2	4	0.05	29	4	1.1	0.15
PMS04P1204010R	1.2	4	0.10	29	4	1.1	0.15
PMS04P1206005R	1.2	4	0.05	29	6	1.1	0.15
PMS04P1206010R	1.2	4	0.10	29	6	1.1	0.15
PMS04P1505005R	1.5	4	0.05	30	5	1.4	0.20
PMS04P1505010R	1.5	4	0.10	30	5	1.4	0.20
PMS04P1508005R	1.5	4	0.05	33	8	1.4	0.20
PMS04P1508010R	1.5	4	0.10	33	8	1.4	0.20
PMS04P1805005R	1.8	4	0.05	30	5	1.7	0.20
PMS04P1805010R	1.8	4	0.10	30	5	1.7	0.20
PMS04P1809005R	1.8	4	0.05	34	9	1.7	0.20
PMS04P1809010R	1.8	4	0.10	34	9	1.7	0.20
PMS04P2106005R	2.1	4	0.05	31	6	1.85	0.25
PMS04P2106010R	2.1	4	0.10	31	6	1.85	0.25
PMS04P2110005R	2.1	4	0.05	35	10	1.85	0.25
PMS04P2110010R	2.1	4	0.10	35	10	1.85	0.25
PMS04P2608005R	2.6	4	0.05	33	8	2.35	0.30
PMS04P2608010R	2.6	4	0.10	33	8	2.35	0.30
PMS04P2608015R	2.6	4	0.15	33	8	2.35	0.30
PMS04P2612005R	2.6	4	0.05	37	12	2.35	0.30
PMS04P2612010R	2.6	4	0.10	37	12	2.35	0.30
PMS04P2612015R	2.6	4	0.15	37	12	2.35	0.30
PMS04P3110005R	3.1	4	0.05	35	10	2.8	0.50

BORING/PROFILING

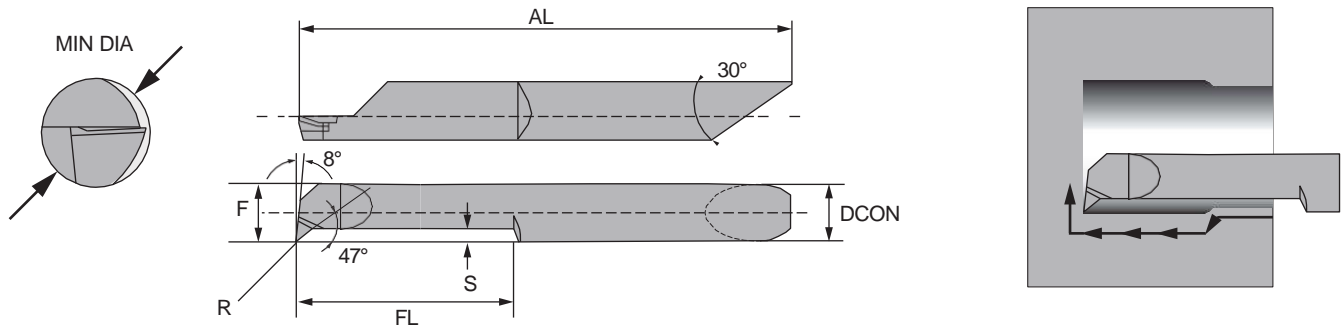
PMS**P (BORING,PROFILING)

PSG20:for Stainless Steel,Superalloy PTIG20:for Titanium PLC20:for Aluminium PCN20:for Steel

PART NO.	MIN DIA	DCON	R	AL	FL	F	S
PMS04P3110010R	3.1	4	0.10	35	10	2.8	0.50
PMS04P3110015R	3.1	4	0.15	35	10	2.8	0.50
PMS04P3115005R	3.1	4	0.05	40	15	2.8	0.50
PMS04P3115010R	3.1	4	0.10	40	15	2.8	0.50
PMS04P3115015R	3.1	4	0.15	40	15	2.8	0.50
PMS04P3120005R	3.1	4	0.05	45	20	2.8	0.50
PMS04P3120010R	3.1	4	0.10	45	20	2.8	0.50
PMS04P3120015R	3.1	4	0.15	45	20	2.8	0.50
PMS04P4112005R	4.1	4	0.05	37	12	3.8	0.60
PMS04P4112010R	4.1	4	0.10	37	12	3.8	0.60
PMS04P4112020R	4.1	4	0.20	37	12	3.8	0.60
PMS04P4116005R	4.1	4	0.05	41	16	3.8	0.60
PMS04P4116010R	4.1	4	0.10	41	16	3.8	0.60
PMS04P4116020R	4.1	4	0.20	41	16	3.8	0.60
PMS04P4120005R	4.1	4	0.05	45	20	3.8	0.60
PMS04P4120010R	4.1	4	0.10	45	20	3.8	0.60
PMS04P4120020R	4.1	4	0.20	45	20	3.8	0.60
PMS04P4125015R	4.1	4	0.15	50	25	3.8	0.60
PMS05P5115005R	5.1	5	0.05	40	15	4.8	0.80
PMS05P5115010R	5.1	5	0.10	40	15	4.8	0.80
PMS05P5115020R	5.1	5	0.20	40	15	4.8	0.80
PMS05P5120005R	5.1	5	0.05	45	20	4.8	0.80
PMS05P5120010R	5.1	5	0.10	45	20	4.8	0.80
PMS05P5120020R	5.1	5	0.20	45	20	4.8	0.80
PMS05P5125005R	5.1	5	0.05	50	25	4.8	0.80
PMS05P5125010R	5.1	5	0.10	50	25	4.8	0.80
PMS05P5125020R	5.1	5	0.20	50	25	4.8	0.80
PMS05P5130020R	5.1	5	0.20	55	30	4.8	0.80
PMS06P6115005R	6.1	6	0.05	40	15	5.8	1.00
PMS06P6115010R	6.1	6	0.10	40	15	5.8	1.00
PMS06P6115020R	6.1	6	0.20	40	15	5.8	1.00
PMS06P6120005R	6.1	6	0.05	45	20	5.8	1.00
PMS06P6120010R	6.1	6	0.10	45	20	5.8	1.00
PMS06P6120020R	6.1	6	0.20	45	20	5.8	1.00
PMS06P6125005R	6.1	6	0.05	50	25	5.8	1.00
PMS06P6125010R	6.1	6	0.10	50	25	5.8	1.00
PMS06P6125020R	6.1	6	0.20	50	25	5.8	1.00
PMS06P6130005R	6.1	6	0.05	55	30	5.8	1.00
PMS06P6130010R	6.1	6	0.10	55	30	5.8	1.00
PMS06P6130020R	6.1	6	0.20	55	30	5.8	1.00
PMS06P6135020R	6.1	6	0.20	60	35	5.8	1.00
PMS07P7125010R	7.1	7	0.10	54	25	6.8	1.20
PMS07P7125020R	7.1	7	0.20	54	25	6.8	1.20
PMS07P7135010R	7.1	7	0.10	64	35	6.8	1.20
PMS07P7135020R	7.1	7	0.20	64	35	6.8	1.20

BORING/PROFILING

PMS**Q (BORING, PROFILING)

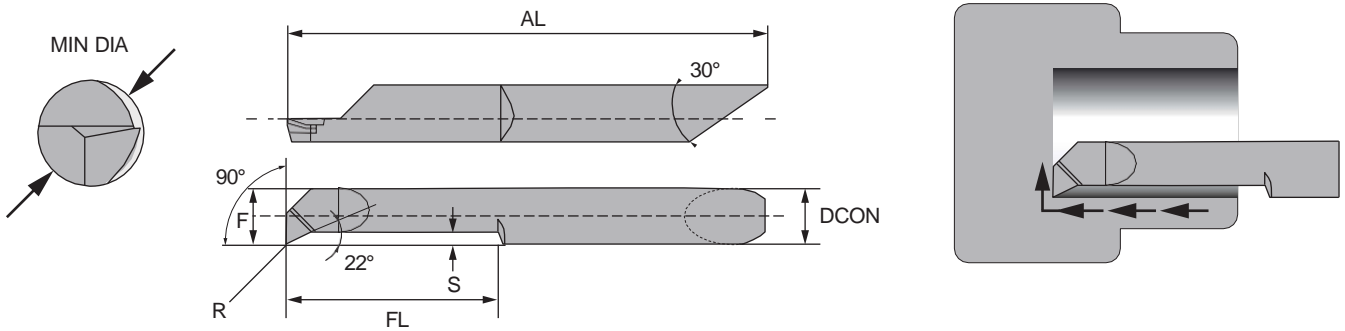


PSG20:for Stainless Steel, Superalloy PTIG20:for Titanium PLC20:for Aluminium PCN20:for Steel

PART NO.	MIN DIA	DCON	R	AL	FL	F	S
PMS04Q1505005R	1.5	4	0.05	30	5	1.4	0.30
PMS04Q2106005R	2.1	4	0.05	31	6	1.85	0.40
PMS04Q2608005R	2.6	4	0.05	33	8	2.35	0.45
PMS04Q3110005R	3.1	4	0.05	35	10	2.8	0.60
PMS04Q3110010R	3.1	4	0.10	35	10	2.8	0.60
PMS04Q3115005R	3.1	4	0.05	37	15	2.8	0.60
PMS04Q3115010R	3.1	4	0.10	37	15	2.8	0.60
PMS04Q4112005R	4.1	4	0.05	37	12	3.8	0.80
PMS04Q4112010R	4.1	4	0.10	37	12	3.8	0.80
PMS04Q4116005R	4.1	4	0.05	41	16	3.8	0.80
PMS04Q4116010R	4.1	4	0.10	41	16	3.8	0.80
PMS04Q4120005R	4.1	4	0.05	45	20	3.8	0.80
PMS04Q4120010R	4.1	4	0.10	45	20	3.8	0.80
PMS05Q5120005R	5.1	5	0.05	45	20	4.8	1.00
PMS05Q5120015R	5.1	5	0.15	45	20	4.8	1.00
PMS05Q5125005R	5.1	5	0.05	50	25	4.8	1.00
PMS05Q5125015R	5.1	5	0.15	50	25	4.8	1.00
PMS06Q6120005R	6.1	6	0.05	45	20	5.8	1.20
PMS06Q6120015R	6.1	6	0.15	45	20	5.8	1.20
PMS06Q6125005R	6.1	6	0.05	50	25	5.8	1.20
PMS06Q6125015R	6.1	6	0.15	50	25	5.8	1.20
PMS06Q6130005R	6.1	6	0.05	55	30	5.8	1.20
PMS06Q6130015R	6.1	6	0.15	55	30	5.8	1.20

BORING, PROFILING, 90° FACE CUTTING

PMSU** (BORING, PROFILING, 90° FACE CUTTING)

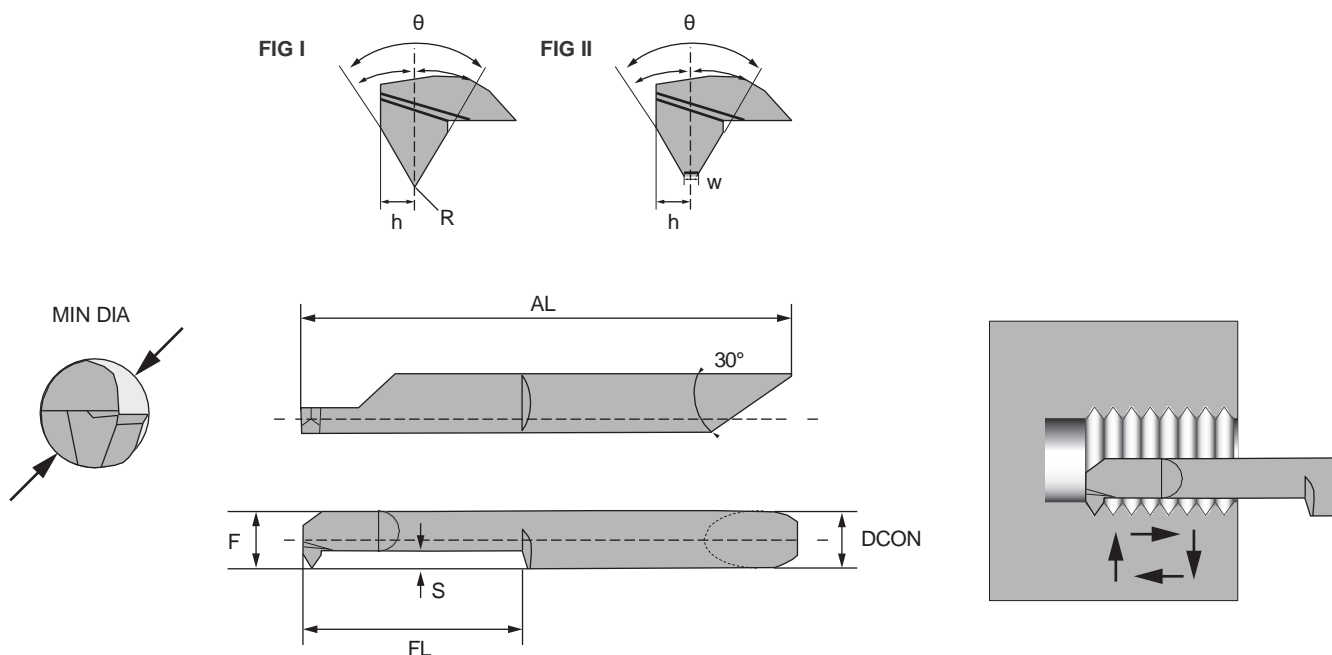


PART NO	MIN DIA	DCON	R	AL	FL	F	S
PMS04U3110010R	3.1	4	0.10	35	10	2.8	0.40
PMS04U4112010R	4.1	4	0.10	37	12	3.8	0.50
PMS05U5115015R	5.1	5	0.15	40	15	4.8	0.70
PMS06U6120015R	6.1	6	0.15	45	20	5.8	0.90

PSG20:for Stainless Steel,Superalloy PTIG20:for Titanium PLC20:for Aluminium PCN20:for Steel

THREADING

PMS**TH (THREADING)



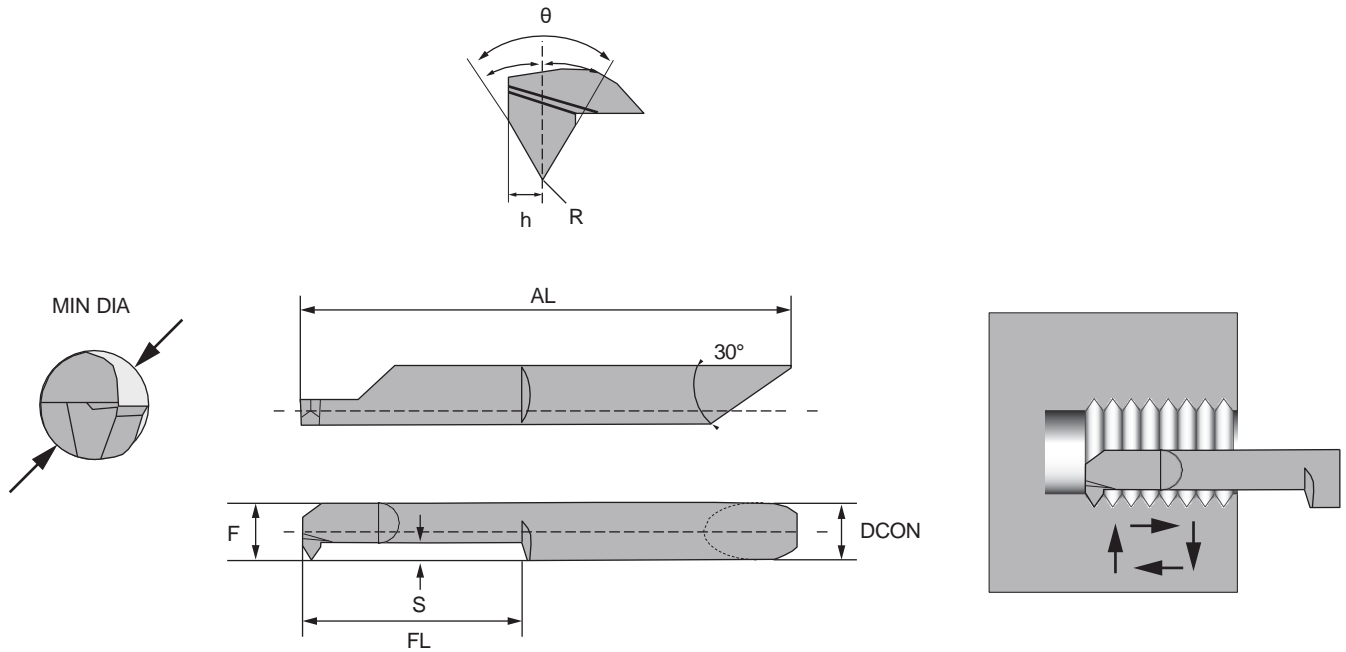
$\theta=60^\circ$

PART NO.	MIN DIA	DCON	w	R	h	AL	FL	F	S	θ	Pitch	FIG
PMS04TH1504A60R	1.5	4	0.03	/	0.25	29	4	1.40	0.40	60°	P0.25-P0.4	II
PMS04TH2006A60R	2	4	0.04	/	0.305	31	6	1.90	0.50	60°	P0.3-P0.5	II
PMS04TH2508A60R	2.5	4	0.06	/	0.375	33	8	2.40	0.60	60°	P0.4-P0.6	II
PMS04TH3010A60R	3	4	/	0.05	0.605	35	10	2.90	1.00	60°	P0.5-P0.8	I
PMS04TH4112A60XR	4.1	4	/	0.05	0.72	37	12	3.90	1.20	60°	P0.5-P1.0	I
PMS04TH4112A60R	4.1	4	/	0.1	0.75	37	12	3.90	1.20	60°	P1.0-P1.5	I
PMS05TH5115A60XR	5.1	5	/	0.05	0.895	40	15	4.90	1.50	60°	P0.5-P1.0	I
PMS05TH5115A60R	5.1	5	/	0.1	0.925	40	15	4.90	1.50	60°	P1.0-P1.5	I
PMS06TH6120A60XR	6.1	6	/	0.05	1.07	45	20	5.90	1.80	60°	P0.5-P1.0	I
PMS06TH6120A60R	6.1	6	/	0.1	1.095	45	20	5.90	1.80	60°	P1.0-P1.75	I

PSG20:for Stainless Steel,Superalloy PTIG20:for Titanium PLC20:for Aluminium PCN20:for Steel

THREADING

PMS**TH (THREADING)



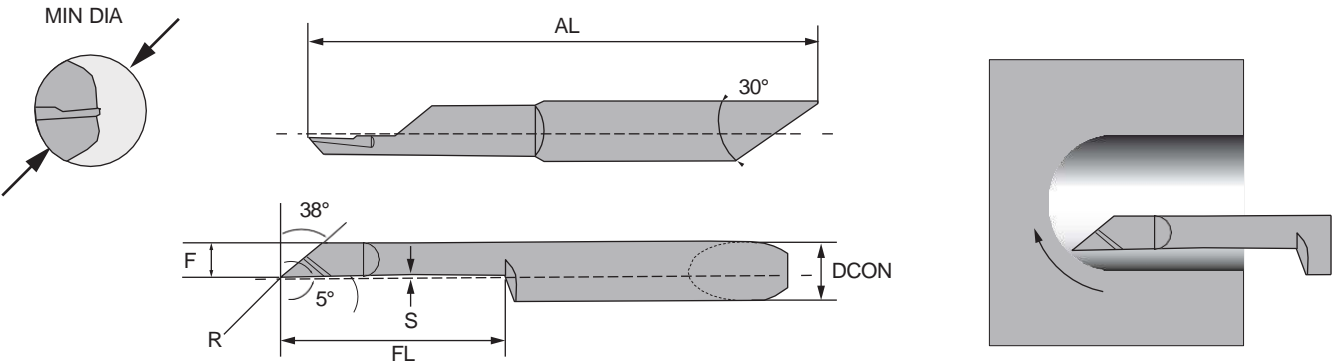
$\theta=55^\circ$

PART NO.	MIN DIA	DCON	R	h	AL	FL	F	S	θ	TPI
PMS04TH3110A55R	3.1	4	0.05	0.55	35	10	2.90	1.00	55°	48-24
PMS04TH4112A55R	4.1	4	0.05	0.655	37	12	3.90	1.20	55°	48-24
PMS05TH5115A55R	5.1	5	0.08	0.865	40	15	4.90	1.60	55°	48-16
PMS06TH6120A55R	6.1	6	0.08	1.04	45	20	5.90	1.90	55°	48-12
PMS07TH7125A55R	7.1	7	0.15	1.1.	54	25	7.90	2.50	55°	26-11

PSG20:for Stainless Steel, Superalloy PTIG20:for Titanium PLC20:for Aluminium PCN20:for Steel

CHAMFERING,BORING

PMS**W (CHAMFERING,BORING)

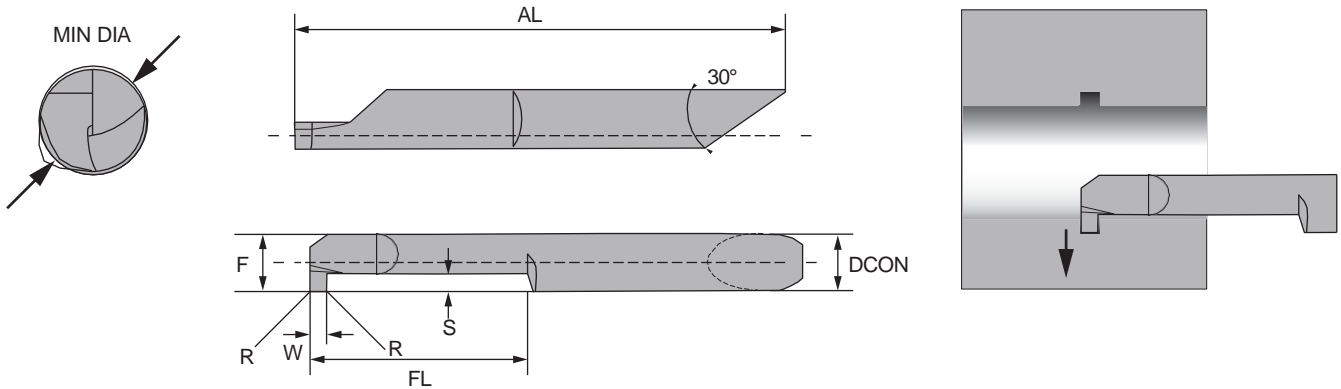


PART NO.	MIN DIA	DCON	R	AL	FL	F	S
PMS04W3508010R	3.5	4	0.10	33	8	1.55	0.15
PMS04W4510010R	4.5	4	0.10	35	10	1.95	0.25
PMS05W5512010R	5.5	5	0.10	38	12	2.45	0.30
PMS06W6515010R	6.5	6	0.10	40	15	2.95	0.35

PSG20:for Stainless Steel,Superalloy PTIG20:for Titanium PLC20:for Aluminium PCN20:for Steel

GROOVING

PMS**G (GROOVING)

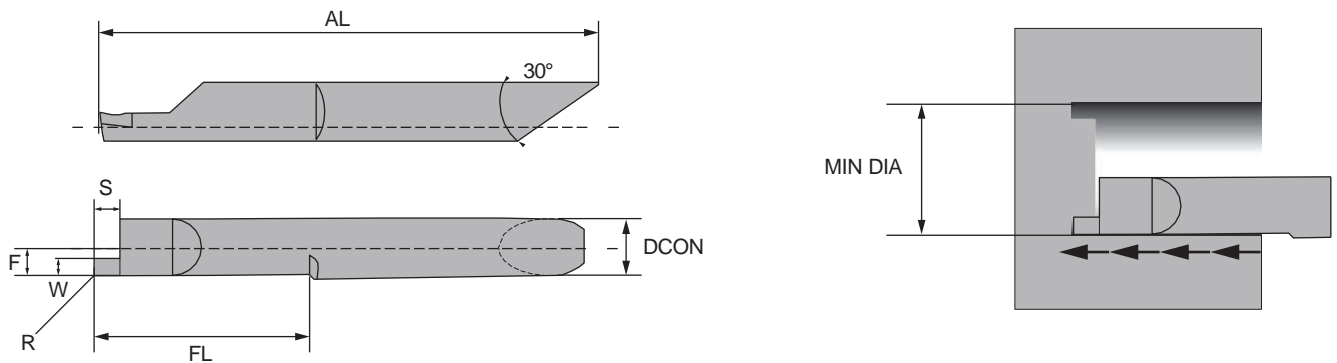


PSG20:for Stainless Steel,Superalloy PTIG20:for Titanium PLC20:for Aluminium PCN20:for Steel

PART NO.	MIN DIA	DCON	R±0.01	AL	FL	F	S	W
PMS04G2605050R	2.6	4	0.05	30	5	2.35	0.65	0.50
PMS04G2605075R	2.6	4	0.05	30	5	2.35	0.65	0.75
PMS04G3105050R	3.1	4	0.05	30	5	2.8	0.80	0.50
PMS04G3105075R	3.1	4	0.05	30	5	2.8	0.80	0.75
PMS04G3105100R	3.1	4	0.05	30	5	2.8	0.80	1.00
PMS04G3110050R	3.1	4	0.05	35	10	2.8	0.80	0.50
PMS04G3110075R	3.1	4	0.05	35	10	2.8	0.80	0.75
PMS04G3110100R	3.1	4	0.05	35	10	2.8	0.80	1.00
PMS04G4106050R	4.1	4	0.05	31	6	3.8	1.00	0.50
PMS04G4106075R	4.1	4	0.05	31	6	3.8	1.00	0.75
PMS04G4106100R	4.1	4	0.05	31	6	3.8	1.00	1.00
PMS04G4106150R	4.1	4	0.05	31	6	3.8	1.00	1.50
PMS04G4112050R	4.1	4	0.05	37	12	3.8	1.00	0.50
PMS04G4112075R	4.1	4	0.05	37	12	3.8	1.00	0.75
PMS04G4112100R	4.1	4	0.05	37	12	3.8	1.00	1.00
PMS04G4112150R	4.1	4	0.05	37	12	3.8	1.00	1.50
PMS05G5108100R	5.1	5	0.10	33	8	4.8	1.50	1.00
PMS05G5108150R	5.1	5	0.10	33	8	4.8	1.50	1.50
PMS05G5108200R	5.1	5	0.10	33	8	4.8	1.50	2.00
PMS05G5115100R	5.1	5	0.10	40	15	4.8	1.50	1.00
PMS05G5115150R	5.1	5	0.10	40	15	4.8	1.50	1.50
PMS05G5115200R	5.1	5	0.10	40	15	4.8	1.50	2.00
PMS06G6110100R	6.1	6	0.10	35	10	5.8	2.00	1.00
PMS06G6110150R	6.1	6	0.10	35	10	5.8	2.00	1.50
PMS06G6110200R	6.1	6	0.10	35	10	5.8	2.00	2.00
PMS06G6120100R	6.1	6	0.10	45	20	5.8	2.00	1.00
PMS06G6120150R	6.1	6	0.10	45	20	5.8	2.00	1.50
PMS06G6120200R	6.1	6	0.10	45	20	5.8	2.00	2.00
PMS07G7125100R	7.1	7	0.10	54	25	6.8	2.00	1.00
PMS07G7125150R	7.1	7	0.10	54	25	6.8	2.00	1.50
PMS07G7125200R	7.1	7	0.10	54	25	6.8	2.00	2.00

FACE GROOVING

PMS**F (FACE GROOVING)

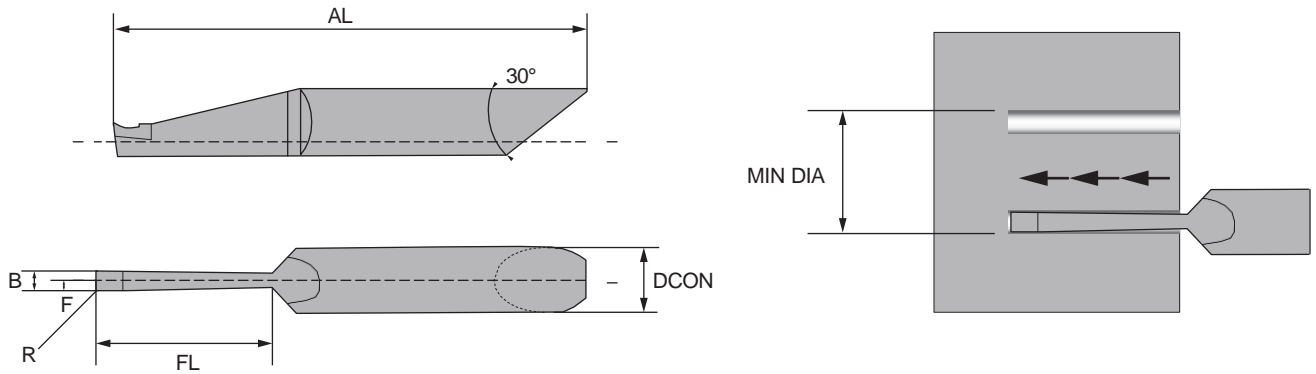


PART NO.	MIN DIA	DCON	R	AL	FL	F	S	W
PMS04F5012050R	5	4	0.05	37	12	1.9	1.00	0.50
PMS04F5012100R	5	4	0.05	37	12	1.9	1.50	1.00
PMS04F5012150R	5	4	0.05	37	12	1.9	2.00	1.50
PMS05F6015100R	6	5	0.10	40	15	2.4	1.50	1.00
PMS05F6015150R	6	5	0.10	40	15	2.4	2.50	1.50
PMS05F6015200R	6	5	0.10	40	15	2.4	3.00	2.00
PMS06F8020100R	8	6	0.10	45	20	2.9	2.00	1.00
PMS06F8020150R	8	6	0.10	45	20	2.9	2.50	1.50
PMS06F8020200R	8	6	0.10	45	20	2.9	3.00	2.00
PMS06F8020300R	8	6	0.10	45	20	2.9	4.50	3.00

PSG20:for Stainless Steel,Superalloy PTIG20:for Titanium PLC20:for Aluminium PCN20:for Steel

DEEP FACE GROOVING

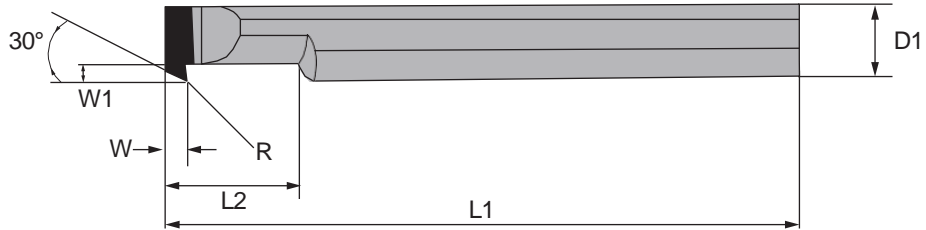
PMS**V (DEEP FACE GROOVING)



PART NO.	MIN DIA	DCON	R	AL	FL	B	F
PMS07V1215200R	12	7	0.20	47	15	2	1.10
PMS07V1215250R	12	7	0.20	47	15	2.5	1.40
PMS07V1215300R	12	7	0.20	47	15	3	1.60

PSG20:for Stainless Steel,Superalloy PTIG20:for Titanium PLC20:for Aluminium PCN20:for Steel

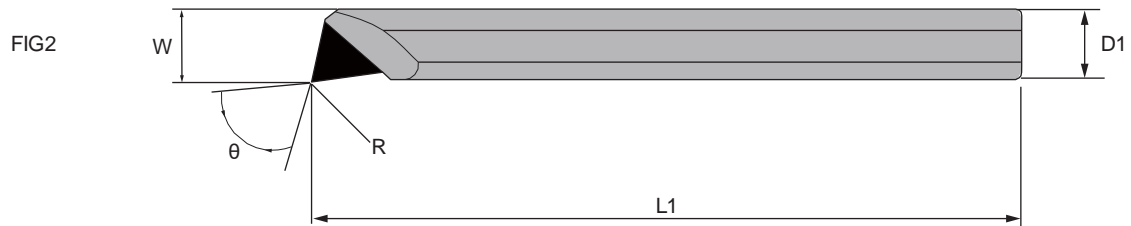
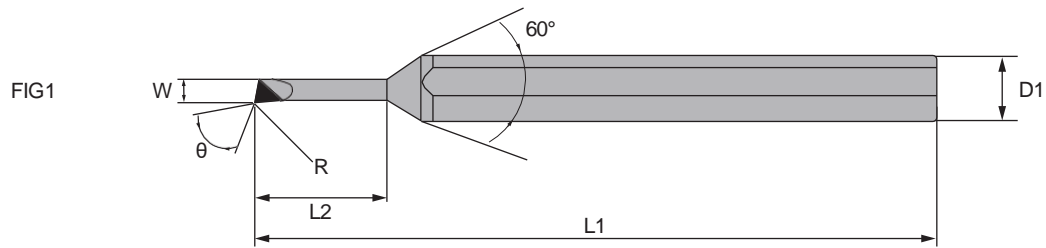
PCD/PCBN BACK TURNING



PART NO.	W	W1	R	L2	D1	L1
PMC04X2010010R-PCD/PCBN	2	1.5	0.10	10	4	50
PMC05X2010010R-PCD/PCBN	2	1.5	0.10	10	5	50
PMC06X2010010R-PCD/PCBN	2	2	0.10	10	6	50
PMC08X2015010R-PCD/PCBN	2	2.5	0.10	15	8	70
PMC10X2020010R-PCD/PCBN	2	3	0.10	20	10	70
PMC12X2020010R-PCD/PCBN	2	3	0.10	20	12	70

Please specify PCD/PCBN next to the part number when ordering.

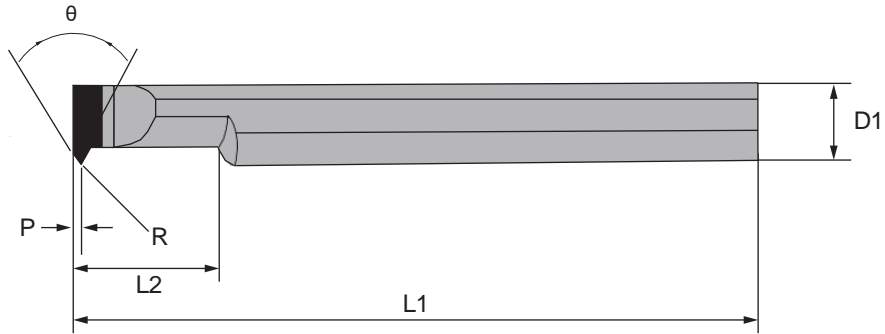
PCD/PCBN TURNING



PART NO.	W	θ	R	L2	D1	L1	H	FIG
PMC04T0805005R-PCD/PCBN	0.8	77°	0.05	5	4	50	4	FIG1
PMC04T1005005R-PCD/PCBN	1	77°	0.05	5	4	50	4	FIG1
PMC06T1306005R-PCD/PCBN	1.3	75°	0.05	6	6	50	6	FIG1
PMC06T1508005R-PCD/PCBN	1.5	75°	0.05	8	6	50	6	FIG1
PMC06T2010010R-PCD/PCBN	2	75°	0.10	10	6	50	6	FIG1
PMC05T2510010R-PCD/PCBN	2.5	75°	0.10	10	5	50	5	FIG1
PMC05T2812010R-PCD/PCBN	2.8	75°	0.10	12	5	50	5	FIG1
PMC03T34010R-PCD/PCBN	3.4	70°	0.10	N/A	3	50	3	FIG2
PMC03T34020R-PCD/PCBN	3.4	70°	0.20	N/A	3	50	3	FIG2
PMC03T34010RE-PCD/PCBN	3.4	70°	0.10	N/A	3	70	3	FIG2
PMC03T34020RE-PCD/PCBN	3.4	70°	0.20	N/A	3	70	3	FIG2
PMC04T44010R-PCD/PCBN	4.4	70°	0.10	N/A	4	50	4	FIG2
PMC04T44020R-PCD/PCBN	4.4	70°	0.20	N/A	4	50	4	FIG2
PMC04T44010RE-PCD/PCBN	4.4	70°	0.10	N/A	4	70	4	FIG2
PMC04T44020RE-PCD/PCBN	4.4	70°	0.20	N/A	4	70	4	FIG2
PMC05T55010R-PCD/PCBN	5.5	70°	0.10	N/A	5	50	5	FIG2
PMC05T55020R-PCD/PCBN	5.5	70°	0.20	N/A	5	50	5	FIG2
PMC05T55010RE-PCD/PCBN	5.5	70°	0.10	N/A	5	70	5	FIG2
PMC05T55020RE-PCD/PCBN	5.5	70°	0.20	N/A	5	70	5	FIG2
PMC06T65010R-PCD/PCBN	6.5	70°	0.10	N/A	6	50	6	FIG2
PMC06T65020R-PCD/PCBN	6.5	70°	0.20	N/A	6	50	6	FIG2
PMC06T65010RE-PCD/PCBN	6.5	70°	0.10	N/A	6	70	6	FIG2
PMC06T65020RE-PCD/PCBN	6.5	70°	0.20	N/A	6	70	6	FIG2
PMC08T86020R-PCD/PCBN	8.6	70°	0.20	N/A	8	70	8	FIG2
PMC08T86020RE-PCD/PCBN	8.6	70°	0.20	N/A	8	100	8	FIG2
PMC10T106020R-PCD/PCBN	10.6	70°	0.20	N/A	10	100	10	FIG2

Please specify PCD/PCBN next to the part number when ordering.

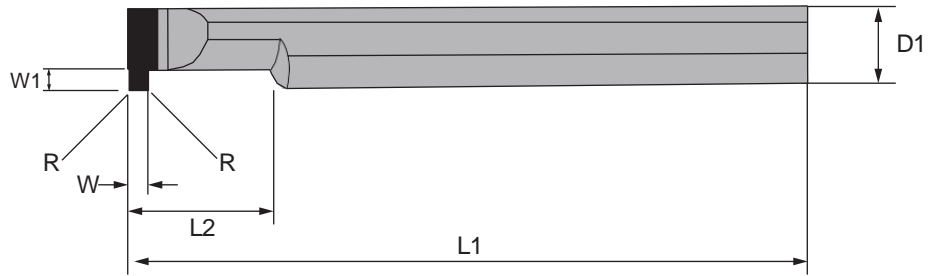
PCD/PCBN THREADING



PART NO.	P	θ	R	L2	D1	L1
PMC04TH0510005R-PCD/PCBN	0.5	60°	0.05	10	4	50
PMC05TH0510005R-PCD/PCBN	0.5	60°	0.05	10	5	50
PMC06TH0515005R-PCD/PCBN	0.5	60°	0.05	15	6	50
PMC08TH0520010R-PCD/PCBN	0.5	60°	0.05	20	8	70
PMC10TH0720010R-PCD/PCBN	0.7	60°	0.10	20	10	70
PMC12TH0720010R-PCD/PCBN	0.7	60°	0.10	20	12	70

Please specify PCD/PCBN next to the part number when ordering.

PCD/PCBN GROOVING



PART NO.	W	W1	R	L2	D1	L1
PMC04G0810005R-PCD/PCBN	0.8	1.5	0.05	10	4	50
PMC05G1010005R-PCD/PCBN	1	1.5	0.05	10	5	50
PMC06G1510005R-PCD/PCBN	1.5	2	0.05	10	6	50
PMC08G2015005R-PCD/PCBN	2	2.5	0.05	15	8	70
PMC10G2515005R-PCD/PCBN	2.5	3	0.05	15	10	70
PMC12G3020005R-PCD/PCBN	3	3	0.05	20	12	70

Please specify PCD/PCBN next to the part number when ordering.

PM FLATTEN LOCKING SERIES



**HIGH EFFICIENCY
PRECISION
ECONOMY AND DURABILITY**

CONTENTS

I _____ BORING

PM**N

PM**T

II _____ BORING,PROFILING

PM**P

PM**Q

III _____ BORING,PROFILING,90° FACE CUTTING(PMU)**

IV _____ BACK BORING(PMX)**

V _____ CHAMFERING,BORING

PM**W

PM**C

VI ----- THREADING RELIEF,CHAMFERING,GROOVING(PMD)**

VII ----- GROOVING(PMG)**

VIII _____ FULL RADIUS GROOVING(PMK)**

IX ----- FACE GROOVING(PMF)**

X ----- DEEP FACE GROOVING(PMV)**

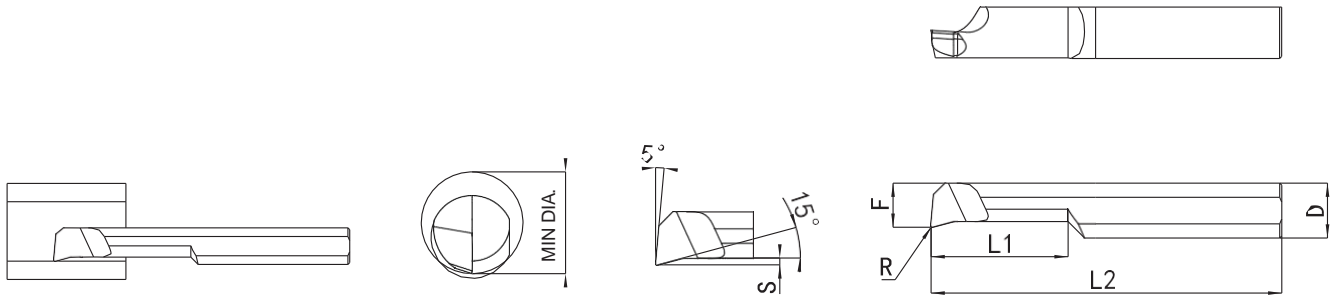
XI ----- THREADING

PM**TH

PM**TR

BORING

PM**N (BORING WITHOUT CHIP FLUTE)

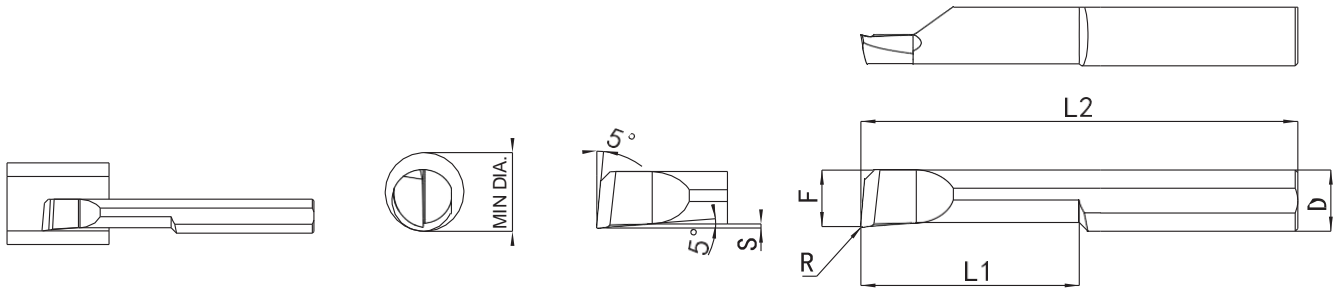


PART NO.	F	L1	S	R	D	L2	MIN DIA
PM04N1003005R	0.80	3	0.20	0.05	D4	40	1.0
PM04N1505010R	1.20	5	0.20	0.1	D4	40	1.5
PM04N2007010R	1.70	7	0.20	0.1	D4	40	2.0
PM04N2507010R	2.30	7	0.40	0.1	D4	40	2.5
PM04N2512010R	2.30	12	0.40	0.1	D4	40	2.5
PM04N3010010R	2.70	10	0.40	0.1	D4	50	3.0
PM04N3015010R	2.70	15	0.40	0.1	D4	50	3.0
PM04N3510015R	3.20	10	0.50	0.15	D4	50	3.5
PM04N3515015R	3.20	15	0.50	0.15	D4	50	3.5
PM04N4010015R	3.70	10	0.50	0.15	D4	50	4.0
PM04N4015015R	3.70	15	0.50	0.15	D4	50	4.0
PM04N4020015R	3.70	20	0.50	0.15	D4	50	4.0
PM04N4515015R	3.98	15	0.70	0.15	D4	50	4.5
PM04N4525015R	3.98	20	0.70	0.15	D4	50	4.5
PM06N5015020R	4.70	15	0.90	0.2	D6	50	5.0
PM06N5020020R	4.70	20	0.90	0.2	D6	50	5.0
PM06N5025020R	4.70	25	0.90	0.2	D6	50	5.0
PM06N5030020R	4.70	30	0.90	0.2	D6	60	5.0
PM06N5515020R	5.20	15	0.90	0.2	D6	50	5.5
PM06N5520020R	5.20	20	0.90	0.2	D6	50	5.5
PM06N5525020R	5.20	25	0.90	0.2	D6	50	5.5
PM06N6015020R	5.70	15	0.90	0.2	D6	50	6.0
PM06N6020020R	5.70	20	0.90	0.2	D6	50	6.0
PM06N6025020R	5.70	25	0.90	0.2	D6	50	6.0
PM06N6030020R	5.70	30	0.90	0.2	D6	60	6.0
PM08N8020020R	7.80	25	1.00	0.2	D8	50	8.0

PSG20:for Stainless Steel,Superalloy PTIG20:for Titanium PLC20:for Aluminium PCN20:for Steel

BORING

PM**T (BORING)

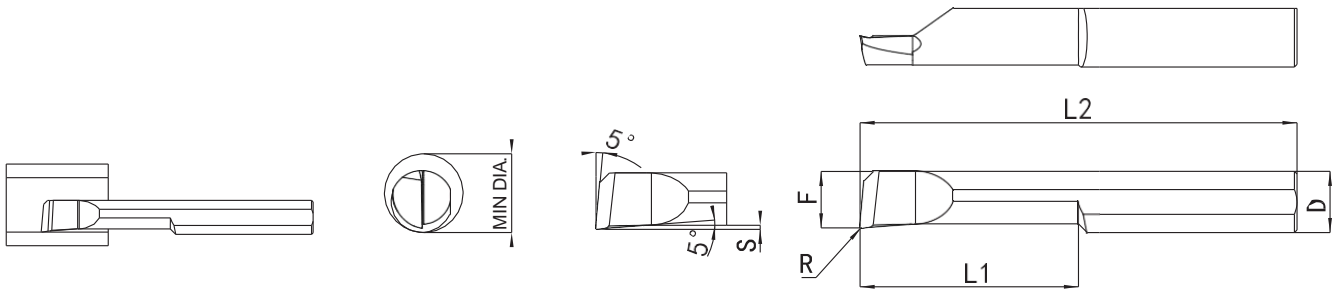


PART NO.	F	L1	S	R	D	L2	MIN DIA
PM04T1004000R	0.85	4	0.15	0	D4	40	1.0
PM04T1004010R	0.85	4	0.15	0.1	D4	40	1.0
PM04T1505005R	1.30	5	0.20	0.05	D4	40	1.5
PM04T1505010R	1.30	5	0.20	0.1	D4	40	1.5
PM04T2006005R	1.80	6	0.25	0.05	D4	40	2.0
PM04T2006010R	1.80	6	0.25	0.1	D4	40	2.0
PM04T2507005R	2.30	7	0.30	0.05	D4	40	2.5
PM04T2507010R	2.30	7	0.30	0.1	D4	40	2.5
PM04T3006005R	2.70	6	0.30	0.05	D4	50	3.0
PM04T3006010R	2.70	6	0.30	0.1	D4	50	3.0
PM04T3006020R	2.70	6	0.30	0.2	D4	50	3.0
PM04T3010005R	2.70	10	0.30	0.05	D4	50	3.0
PM04T3010010R	2.70	10	0.30	0.1	D4	50	3.0
PM04T3010020R	2.70	10	0.30	0.2	D4	50	3.0
PM04T3015010R	2.70	15	0.30	0.1	D4	50	3.0
PM04T3015020R	2.70	15	0.30	0.2	D4	50	3.0
PM04T3512010R	3.30	12	0.30	0.1	D4	50	3.5
PM04T3512020R	3.30	12	0.30	0.2	D4	50	3.5
PM04T4008005R	3.70	8	0.40	0.05	D4	50	4.0
PM04T4008010R	3.70	8	0.40	0.1	D4	50	4.0
PM04T4008020R	3.70	8	0.40	0.2	D4	50	4.0
PM04T4010010R	3.70	10	0.40	0.1	D4	50	4.0
PM04T4010020R	3.70	10	0.40	0.2	D4	50	4.0
PM04T4015005R	3.70	15	0.40	0.05	D4	50	4.0
PM04T4015010R	3.70	15	0.40	0.1	D4	50	4.0
PM04T4015020R	3.70	15	0.40	0.2	D4	50	4.0

PSG20:for Stainless Steel,Superalloy PTIG20:for Titanium PLC20:for Aluminium PCN20:for Steel

BORING

PM**T (FACE GROOVING)

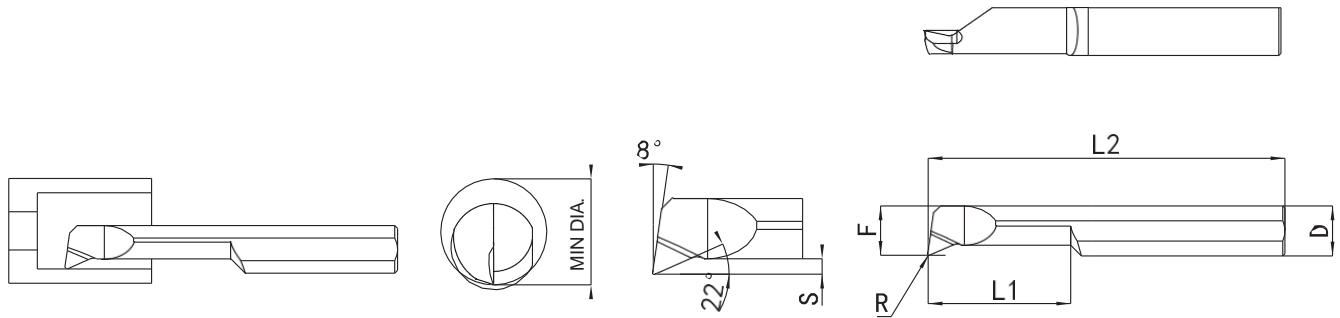


PART NO.	F	L1	S	R	D	L2	MIN DIA
PM04T4022010R	3.70	22	0.40	0.1	D4	50	4.0
PM04T4022020R	3.70	22	0.40	0.2	D4	50	4.0
PM04T4030020R	3.70	30	0.40	0.2	D4	60	4.0
PM05T5012010R	4.70	12	0.50	0.1	D5	50	5.0
PM05T5012020R	4.70	12	0.50	0.2	D5	50	5.0
PM05T5020010R	4.70	20	0.50	0.1	D5	50	5.0
PM05T5020020R	4.70	20	0.50	0.2	D5	50	5.0
PM05T5022010R	4.70	22	0.50	0.1	D5	50	5.0
PM05T5022020R	4.70	22	0.50	0.2	D5	50	5.0
PM05T5030020R	4.70	30	0.50	0.2	D5	75	5.0
PM06T6012010R	5.70	12	0.50	0.1	D6	50	6.0
PM06T6012020R	5.70	12	0.50	0.2	D6	50	6.0
PM06T6020010R	5.70	20	0.50	0.1	D6	50	6.0
PM06T6020020R	5.70	20	0.50	0.2	D6	50	6.0
PM06T6020040R	5.70	20	0.50	0.4	D6	50	6.0
PM06T6022010R	5.70	22	0.50	0.1	D6	50	6.0
PM06T6022020R	5.70	22	0.50	0.2	D6	50	6.0
PM06T6035020R	5.70	35	0.50	0.2	D6	75	6.0
PM07T7025020R	6.50	25	0.50	0.2	D7	60	7.0
PM08T8030020R	7.50	30	0.50	0.2	D8	60	8.0
PM08T8030040R	7.50	30	0.50	0.4	D8	60	8.0
PM08T8045020R	7.50	45	0.50	0.2	D8	75	8.0
PM10T1045020R	9.50	45	0.50	0.2	D10	75	10.0

PSG20:for Stainless Steel,Superalloy PTIG20:for Titanium PLC20:for Aluminium PCN20:for Steel

BORING/PROFILING

PM**P (BORING,PROFILING)

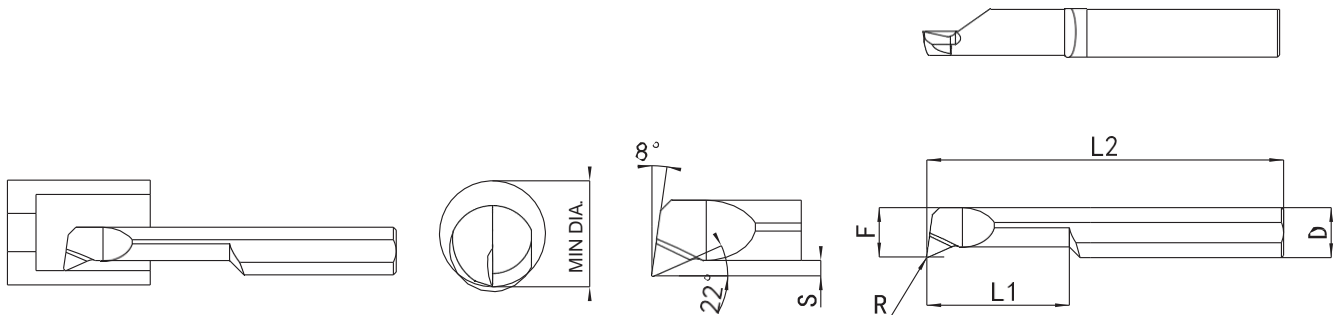


PART NO.	F	L1	S	R	D	L2	MIN DIA
PM04P1004000R	0.85	4	0.15	0	D4	40	1.0
PM04P1004005R	0.85	4	0.15	0.05	D4	40	1.0
PM04P1505010R	1.30	5	0.15	0.1	D4	40	1.5
PM04P2006005R	1.80	6	0.30	0.05	D4	40	2.0
PM04P2006010R	1.80	6	0.30	0.1	D4	40	2.0
PM04P2507010R	2.30	7	0.30	0.1	D4	40	2.5
PM04P3006005R	2.70	6	0.30	0.05	D4	50	3.0
PM04P3006010R	2.70	6	0.30	0.1	D4	50	3.0
PM04P3006020R	2.70	6	0.30	0.2	D4	50	3.0
PM04P3010005R	2.70	10	0.30	0.05	D4	50	3.0
PM04P3010010R	2.70	10	0.30	0.1	D4	50	3.0
PM04P3010020R	2.70	10	0.30	0.2	D4	50	3.0
PM04P3015010R	2.70	15	0.30	0.1	D4	50	3.0
PM04P3015020R	2.70	15	0.30	0.2	D4	50	3.0
PM04P3512010R	3.30	12	0.30	0.1	D4	50	3.5
PM04P4008005R	3.70	8	0.70	0.05	D4	50	4.0
PM04P4008010R	3.70	8	0.70	0.1	D4	50	4.0
PM04P4008020R	3.70	8	0.70	0.2	D4	50	4.0
PM04P4015005R	3.70	15	0.70	0.05	D4	50	4.0
PM04P4015010R	3.70	15	0.70	0.1	D4	50	4.0
PM04P4015020R	3.70	15	0.70	0.2	D4	50	4.0
PM04P4022010R	3.70	22	0.70	0.1	D4	50	4.0
PM04P4022020R	3.70	22	0.70	0.2	D4	50	4.0
PM05P5015010R	4.70	15	1.20	0.1	D5	50	5.0
PM05P5015020R	4.70	15	1.20	0.2	D5	50	5.0
PM05P5020005R	4.70	20	1.20	0.05	D5	50	5.0

PSG20:for Stainless Steel,Superalloy PTIG20:for Titanium PLC20:for Aluminium PCN20:for Steel

BORING/PROFILING

PM**P (BORING,PROFILING)

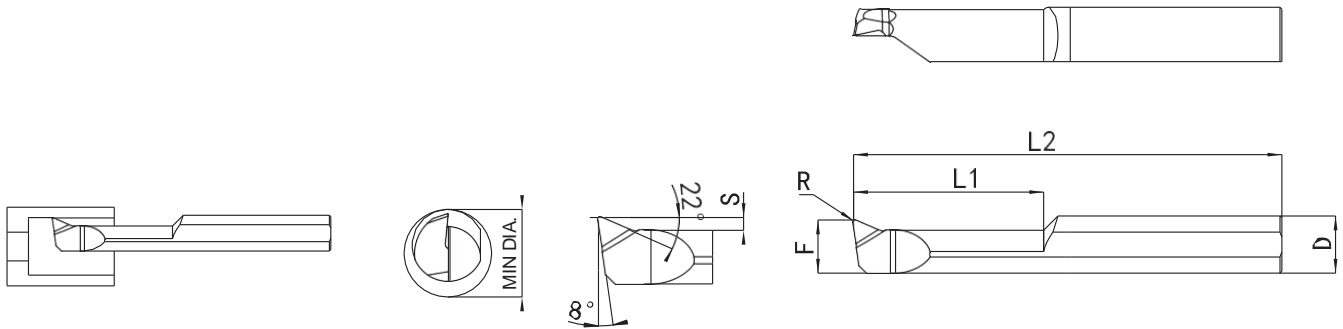


PART NO.	F	L1	S	R	D	L2	MIN DIA
PM05P5020010R	4.70	20	1.20	0.1	D5	50	5.0
PM05P5020020R	4.70	20	1.20	0.2	D5	50	5.0
PM05P5022010R	4.70	22	1.20	0.1	D5	50	5.0
PM05P5022020R	4.70	22	1.20	0.2	D5	50	5.0
PM06P6015010R	5.70	15	1.20	0.1	D6	50	6.0
PM06P6015020R	5.70	15	1.20	0.2	D6	50	6.0
PM06P6020005R	5.70	20	1.20	0.05	D6	50	6.0
PM06P6020010R	5.70	20	1.20	0.1	D6	50	6.0
PM06P6020020R	5.70	20	1.20	0.2	D6	50	6.0
PM06P6022010R	5.70	22	1.20	0.1	D6	50	6.0
PM06P6022020R	5.70	22	1.20	0.2	D6	50	6.0
PM07P7025015R	6.50	25	1.50	0.15	D7	50	7.0
PM08P8022020R	7.50	22	1.50	0.2	D8	60	8.0
PM08P8030015R	7.50	30	1.50	0.15	D8	60	8.0
PM08P8030030R	7.50	30	1.50	0.3	D8	60	8.0

PSG20:for Stainless Steel,Superalloy PTIG20:for Titanium PLC20:for Aluminium PCN20:for Steel

BORING/PROFILING

PMP** (BORING,PROFILING)

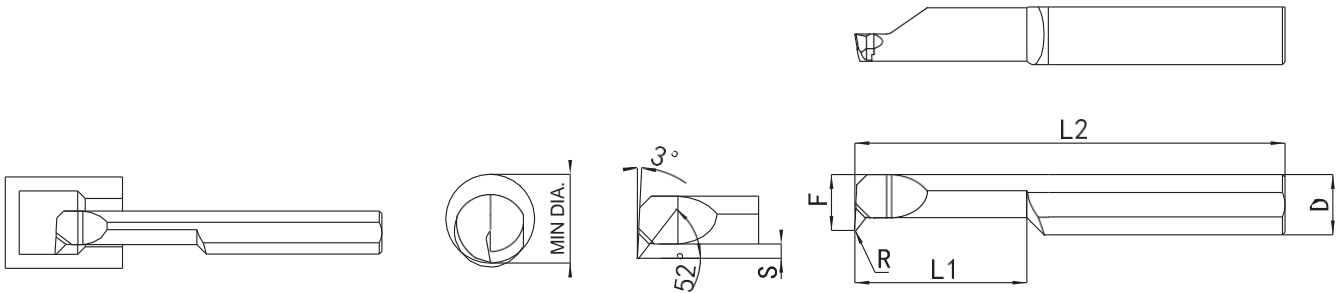


PART NO.	F	L1	S	R	D	L2	MIN DIA
PM04P2006010L	1.80	6	0.30	0.1	D4	40	2.0
PM04P3010010L	2.70	10	0.30	0.1	D4	50	3.0
PM04P4015010L	3.70	15	0.70	0.1	D4	50	4.0
PM05P5020020L	4.70	20	1.20	0.2	D5	50	5.0
PM06P6020020L	5.70	20	1.20	0.2	D6	50	6.0
PM07P7025015L	6.50	25	1.50	0.2	D7	50	7.0
PM08P8030015L	7.50	30	1.50	0.2	D8	60	8.0

PSG20:for Stainless Steel, Superalloy PTIG20:for Titanium PLC20:for Aluminium PCN20:for Steel

BORING/PROFILING

PM**Q (BORING,PROFILING)

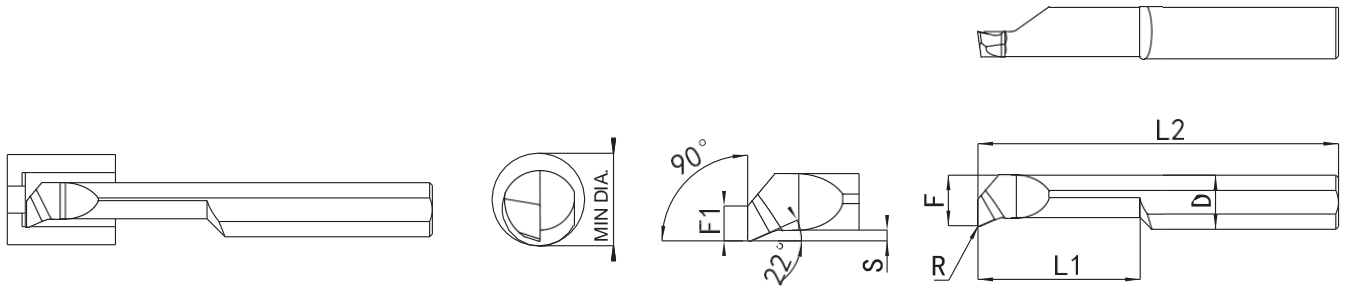


PART NO.	F	L1	S	R	D	L2	MIN DIA
PM04Q3006005R	2.90	6	0.60	0.05	D4	50	3.0
PM04Q3010010R	2.90	10	0.60	0.1	D4	50	3.0
PM04Q3010020R	2.90	10	0.60	0.2	D4	50	3.0
PM04Q4010010R	3.90	10	0.80	0.1	D4	50	4.0
PM04Q4010020R	3.90	10	0.80	0.2	D4	50	4.0
PM05Q5015010R	4.90	15	1.00	0.1	D5	50	5.0
PM05Q5015020R	4.90	15	1.00	0.2	D5	50	5.0
PM06Q6015010R	5.90	15	1.00	0.1	D6	50	6.0
PM06Q6015020R	5.90	15	1.00	0.2	D6	50	6.0
PM07Q7020020R	6.50	20	1.50	0.2	D7	50	7.0
PM08Q8025010R	7.50	25	2.00	0.1	D8	60	8.0
PM08Q8025020R	7.50	25	2.00	0.2	D8	60	8.0

PSG20:for Stainless Steel,Superalloy PTIG20:for Titanium PLC20:for Aluminium PCN20:for Steel

BORING/PROFILING/90° FACE CUTTING

PM**U (BORING,PROFILING,90° FACE CUTTING)



PART NO.	F	L1	F1	S	R	D	L2	MIN DIA
PM04U3010010R	2.70	10	1.30	0.40	0.1	D4	50	3.0
PM04U4015010R	3.70	15	1.70	0.50	0.1	D4	50	4.0
PM05U5020020R	4.70	20	2.10	0.70	0.2	D5	50	5.0
PM06U6020020R	5.70	20	2.80	1.00	0.2	D6	50	6.0
PM07U7025020R	6.70	25	3.20	1.00	0.2	D7	50	7.0
PM08U8030020R	7.70	30	3.80	1.00	0.2	D8	60	8.0

PSG20:for Stainless Steel,Superalloy PTIG20:for Titanium PLC20:for Aluminium PCN20:for Steel

PM**X (BACK BORING)

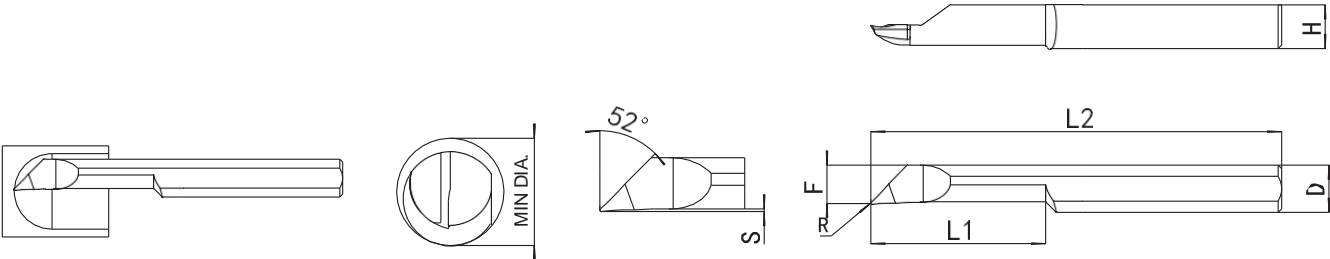


PART NO.	F	W	S	L1	R	D	L2	MIN DIA
PM04X4010010R	3.80	1.5	1.00	10	0.1	D4	50	4.0
PM05X5015015R	4.80	2	1.50	15	0.15	D5	50	5.0
PM06X6020020R	5.80	2	2.00	20	0.2	D6	50	6.0
PM08X8020020R	7.50	2.5	3.00	20	0.2	D8	50	8.0

PSG20:for Stainless Steel,Superalloy PTIG20:for Titanium PLC20:for Aluminium PCN20:for Steel

CHAMFERING/BORING

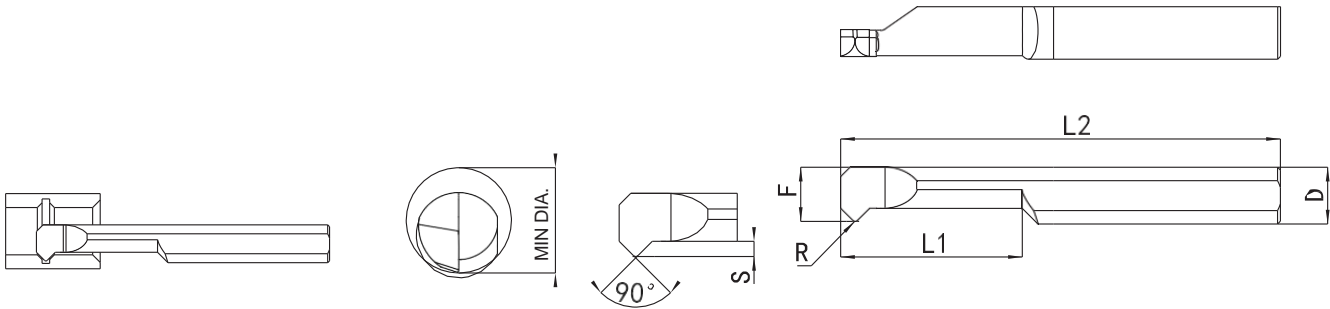
PM**W (CHAMFERING,BORING)



PART NO.	F	L1	S	R	D	L2	MIN DIA
PM04W5010010R	2.30	10	0.20	0.1	D4	50	5.0
PM04W7015010R	3.30	15	0.20	0.1	D4	50	7.0
PM05W9015020R	4.30	15	0.20	0.2	D5	50	9.0
PM06W11015020R	5.30	15	0.20	0.2	D6	50	11.0

PSG20:for Stainless Steel, Superalloy PTIG20:for Titanium PLC20:for Aluminium PCN20:for Steel

PM**C (CHAMFERING,BORING)

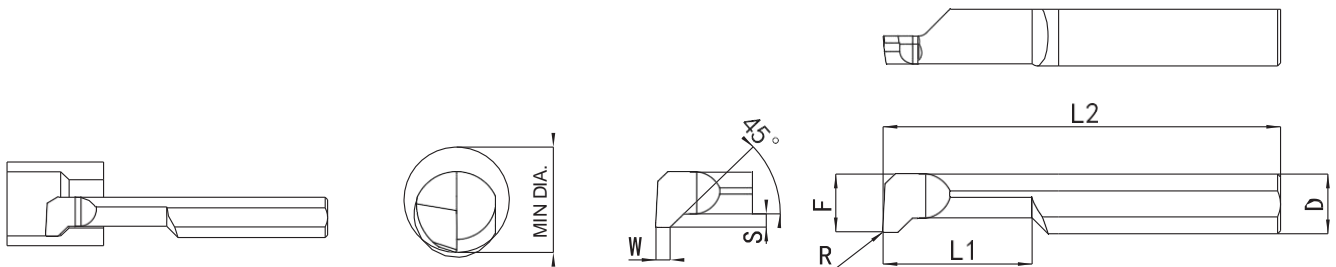


PART NO.	F	L1	S	R	D	L2	MIN DIA
PM04C3010020R	2.80	10	0.50	0.2	D4	50	3.0
PM04C4015020R	3.70	15	0.80	0.2	D4	50	4.0
PM05C5015020R	4.70	15	1.20	0.2	D5	50	5.0
PM06C6015020R	5.70	15	1.50	0.2	D6	50	6.0

PSG20:for Stainless Steel, Superalloy PTIG20:for Titanium PLC20:for Aluminium PCN20:for Steel

THREADING RELIEF, CHAMFERING, GROOVING

PMD** (THREADING RELIEF, CHAMFERING, GROOVING)

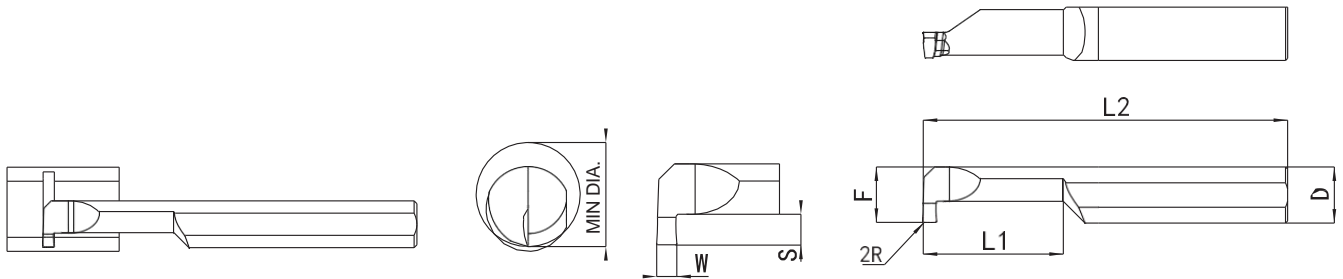


PART NO.	F	L1	S	R	D	L2	W	MIN DIA
PM04D4010020R	3.80	10	0.80	0.2	D4	50	1.5	4.0
PM05D5015020R	4.80	15	1.20	0.2	D5	50	1.5	5.0
PM06D6015020R	5.80	15	1.40	0.2	D6	50	1.5	6.0

PSG20:for Stainless Steel, Superalloy PTIG20:for Titanium PLC20:for Aluminium PCN20:for Steel

GROOVING

PM**G (GROOVING)

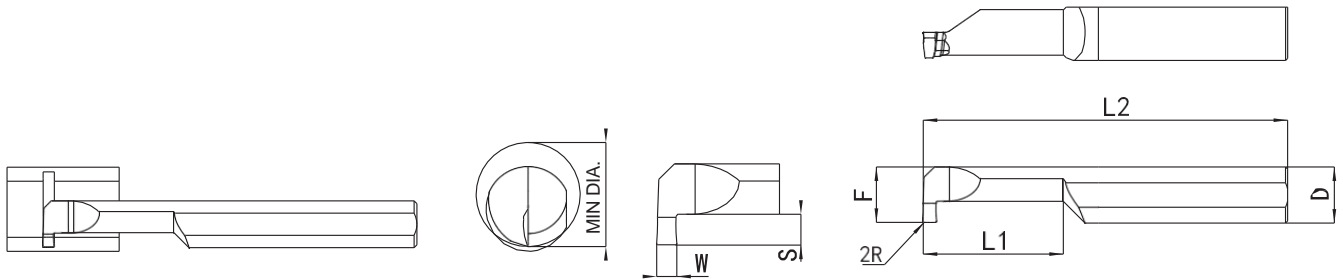


PART NO.	W	S	L1	R	F	D	L2	MIN DIA
PM03G3005050R	0.5	1.00	5	0.05	2.80	D3	40	3.0
PM03G3005080R	0.8	1.00	5	0.05	2.80	D3	40	3.0
PM03G3005100R	1.0	1.00	5	0.05	2.80	D3	40	3.0
PM03G3005150R	1.5	1.00	5	0.05	2.80	D3	40	3.0
PM04G4005050R	0.5	1.00	5	0.05	3.80	D4	40	4.0
PM04G4005080R	0.8	1.00	5	0.05	3.80	D4	40	4.0
PM04G4005100R	1.0	1.50	5	0.05	3.80	D4	40	4.0
PM04G4005150R	1.5	1.50	5	0.05	3.80	D4	40	4.0
PM04G4010050R	0.5	1.00	10	0.05	3.80	D4	50	4.0
PM04G4010080R	0.8	1.00	10	0.05	3.80	D4	50	4.0
PM04G4010100R	1.0	1.50	10	0.05	3.80	D4	50	4.0
PM04G4010150R	1.5	1.50	10	0.05	3.80	D4	50	4.0
PM05G5005100R	1.0	1.50	5	0.1	4.80	D5	40	5.0
PM05G5005120R	1.2	1.50	5	0.1	4.80	D5	40	5.0
PM05G5005150R	1.5	2.00	5	0.1	4.80	D5	40	5.0
PM05G5005200R	2.0	2.00	5	0.1	4.80	D5	40	5.0
PM05G5010100R	1.0	1.50	10	0.1	4.80	D5	50	5.0
PM05G5010120R	1.2	1.50	10	0.1	4.80	D5	50	5.0
PM05G5010150R	1.5	2.00	10	0.1	4.80	D5	50	5.0
PM05G5010200R	2.0	2.00	10	0.1	4.80	D5	50	5.0
PM06G6006100R	1.0	2.00	6	0.15	5.80	D6	40	6.0
PM06G6006150R	1.5	2.00	6	0.15	5.80	D6	40	6.0
PM06G6006200R	2.0	2.00	6	0.15	5.80	D6	40	6.0
PM06G6006250R	2.5	2.50	6	0.15	5.80	D6	40	6.0
PM06G6012100R	1.0	2.00	12	0.15	5.80	D6	50	6.0
PM06G6012150R	1.5	2.00	12	0.15	5.80	D6	50	6.0

PSG20:for Stainless Steel,Superalloy PTIG20:for Titanium PLC20:for Aluminium PCN20:for Steel

GROOVING

PM**G (GROOVING)

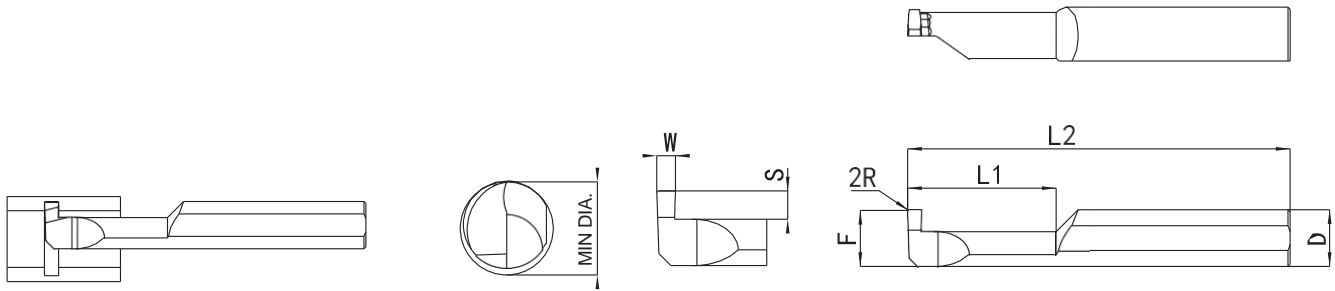


PART NO.	W	S	L1	R	F	D	L2	MIN DIA
PM06G6012200R	2.0	2.00	12	0.15	5.80	D6	50	6.0
PM06G6012250R	2.5	2.50	16	0.15	5.80	D6	50	6.0
PM08G8010100R	1.0	3.00	10	0.15	7.80	D8	50	8.0
PM08G8010150R	1.5	3.00	10	0.15	7.80	D8	50	8.0
PM08G8010200R	2.0	3.00	10	0.15	7.80	D8	50	8.0
PM08G8010250R	2.5	3.00	10	0.15	7.80	D8	50	8.0
PM08G8016100R	1.0	3.00	16	0.15	7.80	D8	50	8.0
PM08G8016150R	1.5	3.00	16	0.15	7.80	D8	50	8.0
PM08G8016200R	2.0	3.00	16	0.15	7.80	D8	50	8.0
PM08G8016250R	2.5	3.00	16	0.15	7.80	D8	50	8.0

PSG20:for Stainless Steel,Superalloy PTIG20:for Titanium PLC20:for Aluminium PCN20:for Steel

GROOVING

PM**G (GROOVING)

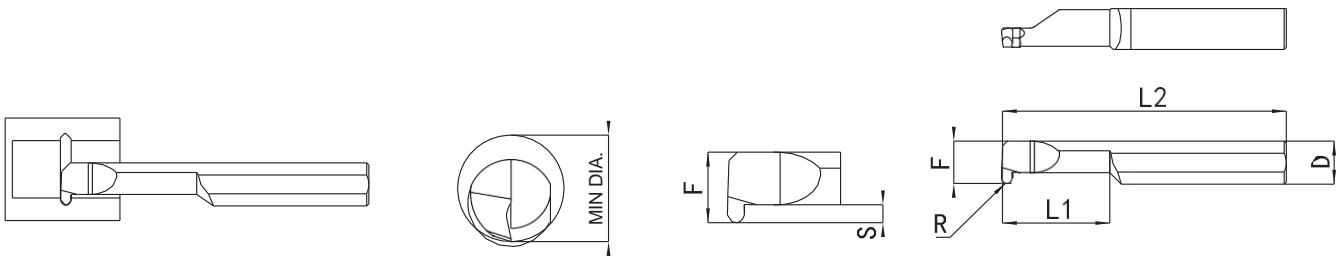


PART NO.	W	S	L1	R	F	D	L2	MIN DIA
PM03G3005050L	0.5	1.00	5	0.05	2.80	D3	40	3.0
PM03G3005080L	0.8	1.00	5	0.05	2.80	D3	40	3.0
PM03G3005100L	1.0	1.00	5	0.05	2.80	D3	40	3.0
PM03G3005150L	1.5	1.00	5	0.05	2.80	D3	40	3.0
PM04G4005050L	0.5	1.00	5	0.05	3.80	D4	40	4.0
PM04G4005080L	0.8	1.00	5	0.05	3.80	D4	40	4.0
PM04G4005100L	1.0	1.50	5	0.05	3.80	D4	40	4.0
PM04G4005150L	1.5	1.50	5	0.05	3.80	D4	40	4.0
PM05G5005100L	1.0	1.50	5	0.1	4.80	D5	40	5.0
PM05G5005120L	1.2	1.50	5	0.1	4.80	D5	40	5.0
PM05G5005150L	1.5	2.00	5	0.1	4.80	D5	40	5.0
PM05G5005200L	2.0	2.00	5	0.1	4.80	D5	40	5.0
PM06G6006100L	1.0	2.00	6	0.15	5.80	D6	40	6.0
PM06G6006150L	1.5	2.00	6	0.15	5.80	D6	40	6.0
PM06G6006200L	2.0	2.00	6	0.15	5.80	D6	40	6.0
PM06G6006250L	2.5	2.50	6	0.15	5.80	D6	40	6.0
PM08G8010100L	1.0	3.00	10	0.15	7.80	D8	50	8.0
PM08G8010150L	1.5	3.00	10	0.15	7.80	D8	50	8.0
PM08G8010200L	2.0	3.00	10	0.15	7.80	D8	50	8.0
PM08G8010250L	2.5	3.00	10	0.15	7.80	D8	50	8.0

PSG20:for Stainless Steel,Superalloy PTIG20:for Titanium PLC20:for Aluminium PCN20:for Steel

FULL RADIUS GROOVING

PM**K (FULL RADIUS GROOVING)

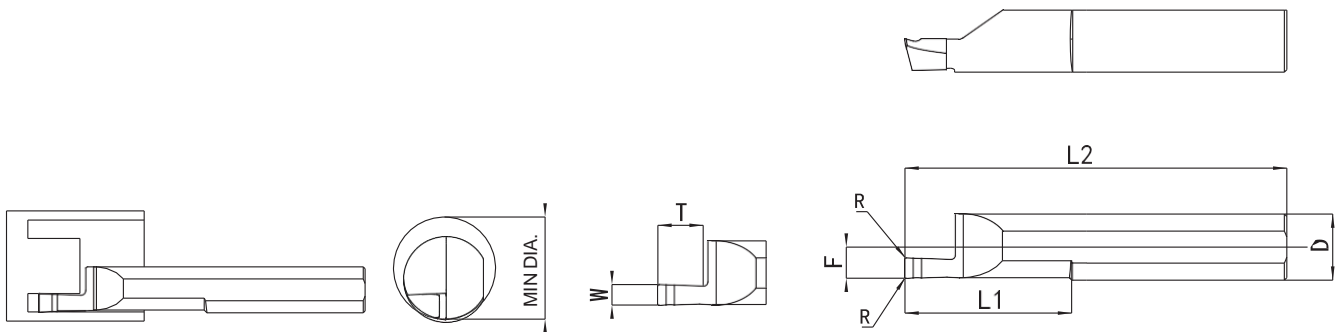


PART NO.	F	S	L1	R	D	L2	MIN DIA
PM04K4010050R	3.80	1.00	10	0.5	D4	50	4.0
PM04K4010075R	3.80	1.00	10	0.75	D4	50	4.0
PM06K6015050R	5.80	1.50	15	0.5	D6	50	6.0
PM06K6015075R	5.80	1.50	15	0.75	D6	50	6.0
PM06K6015100R	5.80	1.50	15	1	D6	50	6.0

PSG20:for Stainless Steel, Superalloy PTIG20:for Titanium PLC20:for Aluminium PCN20:for Steel

FACE GROOVING

PM**F (FACE GROOVING)

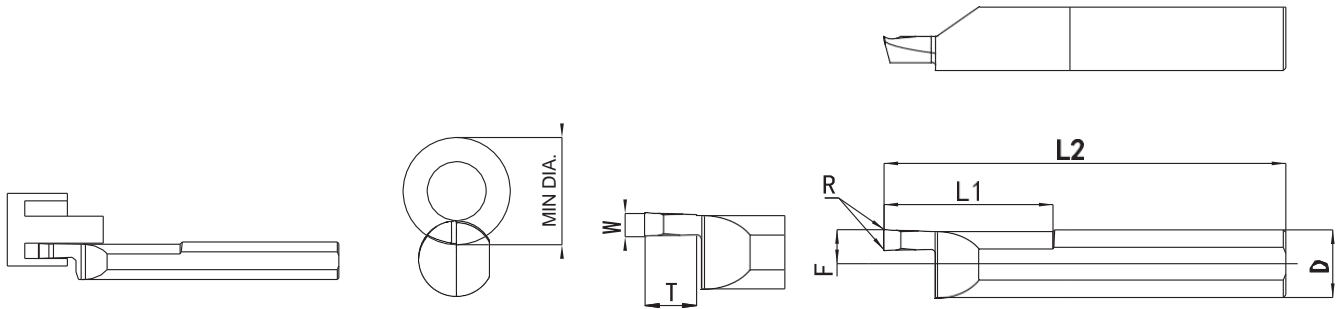


PART NO.	F	L1	W	T	R	D	L2	MIN DIA
PM04F6015050R	1.95	15	0.5	1.00	0.05	D4	50	6.0
PM04F6015080R	1.95	15	0.8	1.50	0.05	D4	50	6.0
PM04F6015100R	1.95	15	1.0	1.50	0.05	D4	50	6.0
PM04F6015150R	1.95	15	1.5	2.80	0.05	D4	50	6.0
PM05F6022080R	2.45	22	0.8	1.50	0.1	D5	50	6.0
PM05F6022100R	2.45	22	1.0	1.50	0.1	D5	50	6.0
PM05F6022150R	2.45	22	1.5	2.50	0.1	D5	50	6.0
PM05F6022200R	2.45	22	2.0	4.00	0.1	D5	50	6.0
PM06F8022080R	2.95	22	0.8	1.50	0.1	D6	50	8.0
PM06F8022100R	2.95	22	1.0	2.00	0.1	D6	50	8.0
PM06F8022150R	2.95	22	1.5	3.00	0.1	D6	50	8.0
PM06F8022200R	2.95	22	2.0	4.00	0.1	D6	50	8.0
PM06F8022250R	2.95	22	2.5	5.00	0.1	D6	50	8.0
PM08F10020150R	3.95	20	1.5	4.00	0.2	D8	50	10.0
PM08F10020200R	3.95	20	2.0	4.00	0.2	D8	50	10.0
PM08F10020250R	3.95	20	2.5	5.00	0.2	D8	50	10.0
PM08F10020300R	3.95	20	3.0	6.00	0.2	D8	50	10.0

PSG20:for Stainless Steel,Superalloy PTIG20:for Titanium PLC20:for Aluminium PCN20:for Steel

FACE GROOVING

PM**F (FACE GROOVING)

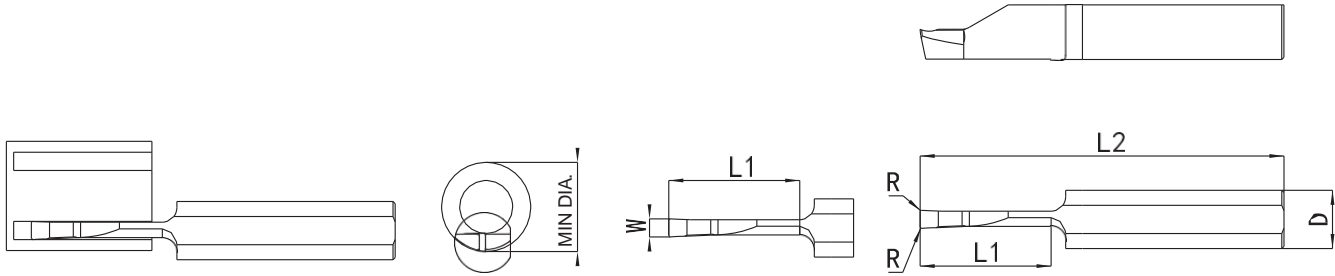


PART NO.	F	L1	W	T	R	D	L2	MIN DIA
PM04F6015050L	1.95	15	0.5	1.00	0.05	D4	50	6.0
PM04F6015080L	1.95	15	0.8	1.50	0.05	D4	50	6.0
PM04F6015100L	1.95	15	1.0	1.50	0.05	D4	50	6.0
PM04F6015150L	1.95	15	1.5	2.80	0.05	D4	50	6.0
PM05F6022080L	2.45	22	0.8	1.50	0.1	D5	50	6.0
PM05F6022100L	2.45	22	1.0	1.50	0.1	D5	50	6.0
PM05F6022150L	2.45	22	1.5	2.50	0.1	D5	50	6.0
PM05F6022200L	2.45	22	2.0	4.00	0.1	D5	50	6.0
PM06F8022080L	2.95	22	0.8	1.50	0.1	D6	50	8.0
PM06F8022100L	2.95	22	1.0	2.00	0.1	D6	50	8.0
PM06F8022150L	2.95	22	1.5	3.00	0.1	D6	50	8.0
PM06F8022200L	2.95	22	2.0	4.00	0.1	D6	50	8.0
PM06F8022250L	2.95	22	2.5	5.00	0.1	D6	50	8.0
PM08F10020150L	3.95	20	1.5	4.00	0.2	D8	50	10.0
PM08F10020200L	3.95	20	2.0	4.00	0.2	D8	50	10.0
PM08F10020250L	3.95	20	2.5	5.00	0.2	D8	50	10.0
PM08F10020300L	3.95	20	3.0	6.00	0.2	D8	50	10.0

PSG20:for Stainless Steel,Superalloy PTIG20:for Titanium PLC20:for Aluminium PCN20:for Steel

DEEP FACE GROOVING

PMV** (DEEP FACE GROOVING)



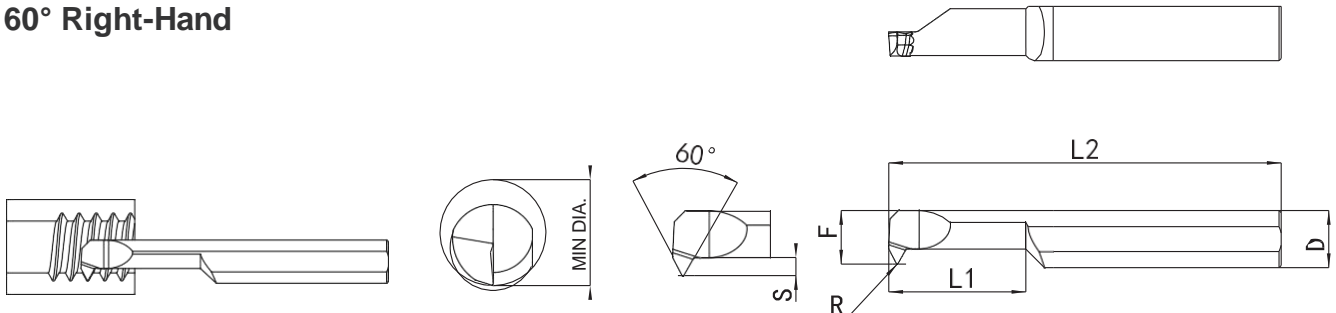
PART NO.	W	L1	R	D	L2	MIN DIA
PM08V15015150R	1.50	15	0.2	D8	50	15.0
PM08V15020200R	2.00	20	0.2	D8	50	15.0
PM08V15020250R	2.50	20	0.2	D8	50	15.0
PM08V15025300R	3.00	25	0.2	D8	50	15.0
PM08V15025400R	4.00	25	0.2	D8	50	15.0

PSG20:for Stainless Steel,Superalloy PTIG20:for Titanium PLC20:for Aluminium PCN20:for Steel

THREADING

PM**TH (THREADING)

60° Right-Hand



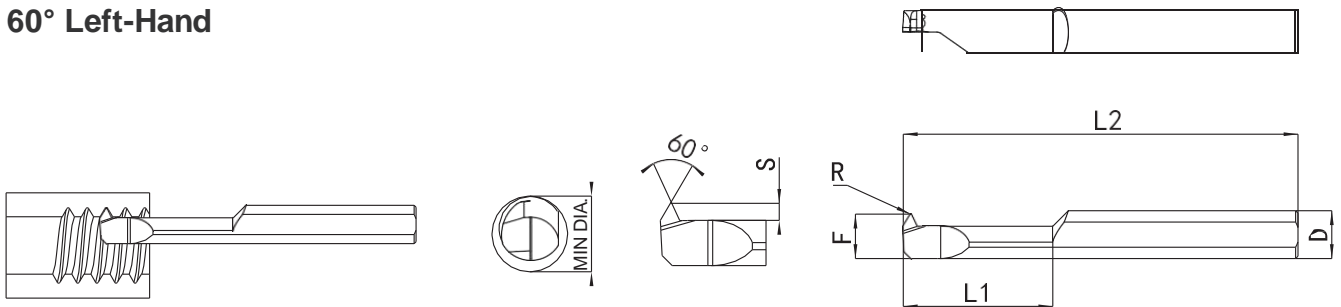
PART NO.	F	L1	S	R	D	L2	PITCH	MIN DIA
PM04TH1505A60R	1.40	5	0.4	0	D4	50	0.2-0.35	1.5
PM04TH2007A60R	1.80	7	0.6	0	D4	50	0.35-0.6	2.0
PM04TH2507A60R	2.40	7	0.6	0	D4	50	0.35-0.7	2.5
PM04TH3106A60R	3.00	6	0.8	0.03	D4	50	0.5-0.75	3.1
PM04TH3112A60R	3.00	12	0.8	0.03	D4	50	0.5-0.75	3.1
PM04TH4010A60R	3.85	10	1.0	0.05	D4	50	0.5-1.0	4.0
PM04TH4015A60R	3.85	15	1.0	0.05	D4	50	0.5-1.0	4.0
PM05TH5010A60R	4.80	10	1.5	0.08	D5	50	0.75-1.0	5.0
PM05TH5015A60R	4.80	15	1.5	0.08	D5	50	0.75-1.0	5.0
PM05TH5022A60R	4.80	22	1.5	0.08	D5	50	0.75-1.0	5.0
PM06TH6010A60R	5.60	10	1.8	0.1	D6	50	1.0-1.5	6.0
PM06TH6015A60R	5.60	15	1.8	0.1	D6	50	1.0-1.5	6.0
PM06TH6020A60R	5.60	20	1.8	0.1	D6	50	1.0-1.5	6.0
PM06TH6030A60R	5.60	30	1.8	0.1	D6	60	1.0-1.5	6.0
PM08TH8015A60R	7.80	15	2.2	0.1	D8	50	1.0-1.75	8.0
PM08TH8022A60R	7.80	22	2.2	0.1	D8	50	1.0-1.75	8.0

PSG20:for Stainless Steel,Superalloy PTIG20:for Titanium PLC20:for Aluminium PCN20:for Steel

THREADING

PM**TH (THREADING)

60° Left-Hand



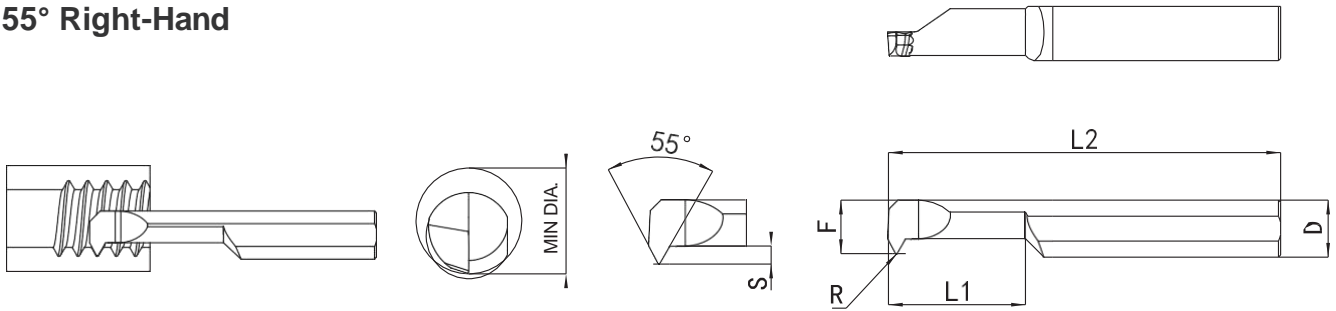
PART NO.	F	L1	S	R	D	L2	PITCH	MIN DIA
PM04TH4010A60L	3.85	10	1.0	0.05	D4	50	0.5-1.0	4.0
PM04TH4015A60L	3.85	15	1.0	0.05	D4	50	0.5-1.0	4.0
PM05TH5010A60L	4.80	10	1.5	0.08	D5	50	0.75-1.0	5.0
PM05TH5015A60L	4.80	15	1.5	0.08	D5	50	0.75-1.0	5.0
PM06TH6010A60L	5.60	10	1.8	0.1	D6	50	1.0-1.5	6.0
PM06TH6015A60L	5.60	15	1.8	0.1	D6	50	1.0-1.5	6.0
PM06TH6020A60L	5.60	20	1.8	0.1	D6	50	1.0-1.5	6.0
PM08TH8015A60L	7.80	15	2.2	0.1	D8	50	1.0-1.75	8.0
PM08TH8022A60L	7.80	22	2.2	0.1	D8	50	1.0-1.75	8.0

PSG20:for Stainless Steel,Superalloy PTIG20:for Titanium PLC20:for Aluminium PCN20:for Steel

THREADING

PM**TH (THREADING)

55° Right-Hand



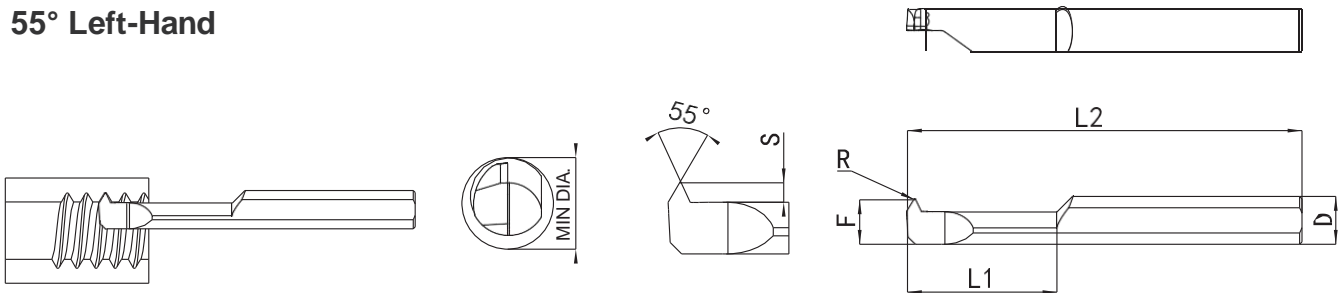
PART NO.	F	L1	S	R	D	L2	MIN DIA
PM04TH4010A55R	3.85	10	1.0	0.05	D4	50	4.00
PM04TH4015A55R	3.85	15	1.0	0.05	D4	50	4.00
PM05TH5010A55R	4.80	10	1.5	0.08	D5	50	5.00
PM05TH5015A55R	4.80	15	1.5	0.08	D5	50	5.00
PM06TH6010A55R	5.60	10	1.8	0.1	D6	50	6.00
PM06TH6015A55R	5.60	15	1.8	0.1	D6	50	6.00
PM08TH8015A55R	7.80	15	2.2	0.1	D8	50	8.00
PM08TH8022A55R	7.80	22	2.2	0.1	D8	50	8.00

PSG20:for Stainless Steel,Superalloy PTIG20:for Titanium PLC20:for Aluminium PCN20:for Steel

THREADING

PM**TH (THREADING)

55° Left-Hand



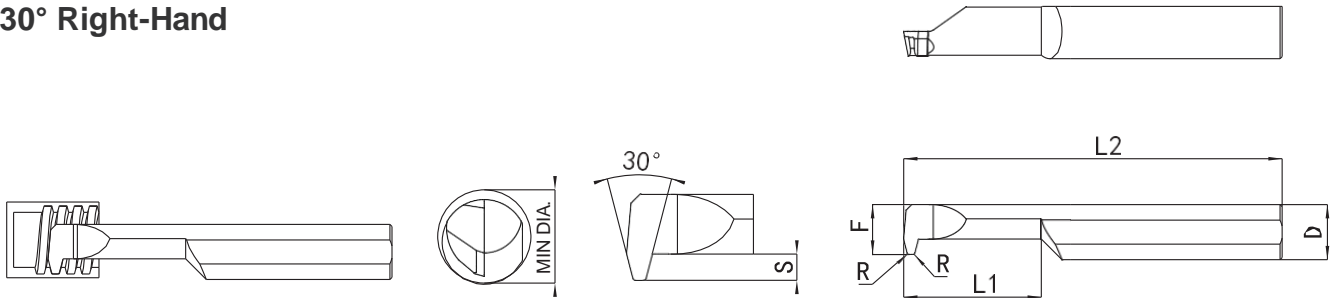
PART NO.	F	L1	S	R	D	L2	MIN DIA
PM04TH4010A55L	3.85	10	1.0	0.05	D4	50	4.00
PM04TH4015A55L	3.85	15	1.0	0.05	D4	50	4.00
PM05TH5010A55L	4.80	10	1.5	0.08	D5	50	5.00
PM05TH5015A55L	4.80	15	1.5	0.08	D5	50	5.00
PM06TH6010A55L	5.60	10	1.8	0.1	D6	50	6.00
PM06TH6015A55L	5.60	15	1.8	0.1	D6	50	6.00
PM08TH8015A55L	7.80	15	2.2	0.1	D8	50	8.00
PM08TH8022A55L	7.80	22	2.2	0.1	D8	50	8.00

PSG20:for Stainless Steel,Superalloy PTIG20:for Titanium PLC20:for Aluminium PCN20:for Steel

THREADING

PM**TR (THREADING)

30° Right-Hand



PART NO.	F	L1	S	R	D	L2	MIN DIA
PM08TH8025A30R	6.10	25	1.5	0.075	D8	60	6.5
PM08TH9025A30R	6.70	25	1.6	0.25	D8	60	7.0
PM10TH14035A30R	9.80	35	1.6	0.25	D10	75	10.0
PM08TH11035A30R	7.20	35	2.0	0.25	D8	75	7.5
PM10TH14035A30R	9.80	35	2.2	0.25	D10	75	10.0
PM10TH16035A30R	9.80	35	2.5	0.25	D10	75	10.0

PSG20:for Stainless Steel,Superalloy PTIG20:for Titanium PLC20:for Aluminium PCN20:for Steel

Solid Carbide Drill Bit



**HIGH EFFICIENCY
PRECISION
ECONOMY AND DURABILITY**

CONTENTS

I _____ **PRODUCT STANDARD**

PR-PT/PC SERIES / SIZE 3XD STEP 0.01MM
PR-PT/PC SERIES / SIZE 3XD STEP 0.05MM
PR-XA/XG SERIES / SIZE 5XD STEP 0.01MM
PR-XA/XG SERIES / SIZE 5XD STEP 0.05MM
PR-MD/MC 5XD STEP 0.01MM-SHANK DIA.3 SERIES
PR-EA/EG EXTENSION SERIES

II _____ **DIN STANDARD**

PR-BG 3XD SERIES STEP 0.1MM
PRC-SG 3XD SERIES STEP 0.1MM INNER-COOLANT
PR-LG 5XD SERIES STEP 0.1MM
PRC-XG 5XD SERIES STEP 0.1MM INNER-COOLANT
PR-SUSB SERIES /SIZE 3XD
PRC-SUSH SERIES /SIZE 3XD INNER-COOLANT
PR-SUSL SERIES /SIZE 5XD
PRC-SUSM SERIES /SIZE 5XD INNER-COOLANT

HOW TO USE CODE

Part NO.

Size

PR(C) - PT/PC - 050

C:Inner coolant

Product Standard

PT:3XD Uncoated
PC:3XD Coated
XA:5XD Uncoated
XG:5XD Coated
MD:5XD Uncoated Shank dia.3mm
MC:5XD Coated Shank dia.3mm
EA:Extension Coated
EA:Extension Coated

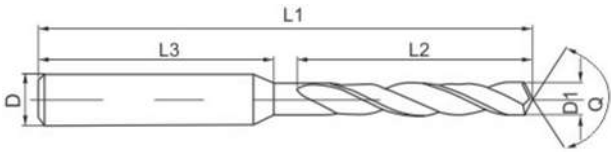
DIN Standard

BG:3XD Coated
SG:3XD Coated
LG:5XD Coated
XG:XD Coated
SUSB:3XD Coated
SUSH:3XD Coated
SUSL:5XD Coated
SUSM:5XD Coated

PRODUCT STANDARD

PR-PT/PC SERIES / SIZE 3XD STEP 0.01MM

PT-Applicable materials: aluminium , non-ferrous metals.non-metallic. (Uncoated tools
) PC-Applicable materials:carbon steel , alloy steel , quenched and tempered steel ,
 sus,mould steel,other steel,ductile iron.



Part No.	DIMENSION			
	D1	L2	L1	D
PR-PT/PC-050	0.5	4	50	4
PR-PT/PC-051	0.51	5	50	4
PR-PT/PC-052	0.52	5	50	4
PR-PT/PC-053	0.53	5	50	4
PR-PT/PC-054	0.54	5	50	4
PR-PT/PC-055	0.55	4	50	4
PR-PT/PC-056	0.56	5	50	4
PR-PT/PC-057	0.57	5	50	4
PR-PT/PC-058	0.58	5	50	4
PR-PT/PC-059	0.59	5	50	4
PR-PT/PC-060	0.6	5	50	4
PR-PT/PC-061	0.61	5	50	4
PR-PT/PC-062	0.62	5	50	4
PR-PT/PC-063	0.63	5	50	4
PR-PT/PC-064	0.64	5	50	4
PR-PT/PC-065	0.65	5	50	4
PR-PT/PC-066	0.66	5	50	4
PR-PT/PC-067	0.67	5	50	4
PR-PT/PC-068	0.68	5	50	4
PR-PT/PC-069	0.69	5	50	4
PR-PT/PC-070	0.7	5	50	4
PR-PT/PC-071	0.71	5	50	4
PR-PT/PC-072	0.72	5	50	4
PR-PT/PC-073	0.73	5	50	4
PR-PT/PC-074	0.74	5	50	4
PR-PT/PC-075	0.75	5	50	4
PR-PT/PC-076	0.76	5	50	4
PR-PT/PC-077	0.77	5	50	4
PR-PT/PC-078	0.78	5	50	4
PR-PT/PC-079	0.79	5	50	4
PR-PT/PC-080	0.8	5	50	4

PRODUCT STANDARD

Part No.	DIMENSION			
	D1	L2	L1	D
PR-PT/PC-081	0.81	5	50	4
PR-PT/PC-082	0.82	5	50	4
PR-PT/PC-083	0.83	5	50	4
PR-PT/PC-084	0.84	5	50	4
PR-PT/PC-085	0.85	5	50	4
PR-PT/PC-086	0.86	5	50	4
PR-PT/PC-087	0.87	5	50	4
PR-PT/PC-088	0.88	5	50	4
PR-PT/PC-089	0.89	5	50	4
PR-PT/PC-090	0.9	5	50	4
PR-PT/PC-091	0.91	5	50	4
PR-PT/PC-092	0.92	5	50	4
PR-PT/PC-093	0.93	5	50	4
PR-PT/PC-094	0.94	5	50	4
PR-PT/PC-095	0.95	5	50	4
PR-PT/PC-096	0.96	5	50	4
PR-PT/PC-097	0.97	5	50	4
PR-PT/PC-098	0.98	5	50	4
PR-PT/PC-099	0.99	5	50	4
PR-PT/PC-100	1	6	50	4
PR-PT/PC-101	1.01	6	50	4
PR-PT/PC-102	1.02	6	50	4
PR-PT/PC-103	1.03	6	50	4
PR-PT/PC-104	1.04	6	50	4
PR-PT/PC-105	1.05	6	50	4
PR-PT/PC-106	1.06	6	50	4
PR-PT/PC-107	1.07	6	50	4
PR-PT/PC-108	1.08	6	50	4
PR-PT/PC-109	1.09	6	50	4
PR-PT/PC-110	1.1	6	50	4
PR-PT/PC-111	1.11	6	50	4
PR-PT/PC-112	1.12	6	50	4
PR-PT/PC-113	1.13	6	50	4
PR-PT/PC-114	1.14	6	50	4
PR-PT/PC-115	1.15	6	50	4
PR-PT/PC-116	1.16	6	50	4
PR-PT/PC-117	1.17	6	50	4
PR-PT/PC-118	1.18	6	50	4
PR-PT/PC-119	1.19	6	50	4
PR-PT/PC-120	1.2	6	50	4
PR-PT/PC-121	1.21	6	50	4
PR-PT/PC-122	1.22	6	50	4
PR-PT/PC-123	1.23	6	50	4
PR-PT/PC-124	1.24	6	50	4
PR-PT/PC-125	1.25	6	50	4
PR-PT/PC-126	1.26	6	50	4
PR-PT/PC-127	1.27	6	50	4
PR-PT/PC-128	1.28	6	50	4
PR-PT/PC-129	1.29	6	50	4
PR-PT/PC-130	1.3	6	50	4
PR-PT/PC-131	1.31	6	50	4
PR-PT/PC-132	1.32	6	50	4
PR-PT/PC-133	1.33	6	50	4
PR-PT/PC-134	1.34	6	50	4

PRODUCT STANDARD

Part No.	DIMENSION			
	D1	L2	L1	D
PR-PT/PC-135	1.35	8	50	4
PR-PT/PC-136	1.36	8	50	4
PR-PT/PC-137	1.37	8	50	4
PR-PT/PC-138	1.38	8	50	4
PR-PT/PC-139	1.39	8	50	4
PR-PT/PC-140	1.4	8	50	4
PR-PT/PC-141	1.41	8	50	4
PR-PT/PC-142	1.42	8	50	4
PR-PT/PC-143	1.43	8	50	4
PR-PT/PC-144	1.44	8	50	4
PR-PT/PC-145	1.45	8	50	4
PR-PT/PC-146	1.46	8	50	4
PR-PT/PC-147	1.47	8	50	4
PR-PT/PC-148	1.48	8	50	4
PR-PT/PC-149	1.49	8	50	4
PR-PT/PC-150	1.5	8	50	4
PR-PT/PC-151	1.51	8	50	4
PR-PT/PC-152	1.52	8	50	4
PR-PT/PC-153	1.53	8	50	4
PR-PT/PC-154	1.54	8	50	4
PR-PT/PC-155	1.55	8	50	4
PR-PT/PC-156	1.56	8	50	4
PR-PT/PC-157	1.57	8	50	4
PR-PT/PC-158	1.58	8	50	4
PR-PT/PC-159	1.59	8	50	4
PR-PT/PC-160	1.6	8	50	4
PR-PT/PC-161	1.61	8	50	4
PR-PT/PC-162	1.62	8	50	4
PR-PT/PC-163	1.63	8	50	4
PR-PT/PC-164	1.64	8	50	4
PR-PT/PC-165	1.65	8	50	4
PR-PT/PC-166	1.66	8	50	4
PR-PT/PC-167	1.67	8	50	4
PR-PT/PC-168	1.68	8	50	4
PR-PT/PC-169	1.69	8	50	4
PR-PT/PC-170	1.7	8	50	4
PR-PT/PC-171	1.71	8	50	4
PR-PT/PC-172	1.72	8	50	4
PR-PT/PC-173	1.73	8	50	4
PR-PT/PC-174	1.74	8	50	4
PR-PT/PC-175	1.75	8	50	4
PR-PT/PC-176	1.76	8	50	4
PR-PT/PC-177	1.77	8	50	4
PR-PT/PC-178	1.78	8	50	4
PR-PT/PC-179	1.79	8	50	4
PR-PT/PC-180	1.8	9	50	4
PR-PT/PC-181	1.81	9	50	4
PR-PT/PC-182	1.82	9	50	4
PR-PT/PC-183	1.83	9	50	4
PR-PT/PC-184	1.84	9	50	4
PR-PT/PC-185	1.85	9	50	4
PR-PT/PC-186	1.86	9	50	4
PR-PT/PC-187	1.87	9	50	4
PR-PT/PC-188	1.88	9	50	4

PRODUCT STANDARD

Part No.	DIMENSION			
	D1	L2	L1	D
PR-PT/PC-189	1.89	9	50	4
PR-PT/PC-190	1.9	9	50	4
PR-PT/PC-191	1.91	9	50	4
PR-PT/PC-192	1.92	9	50	4
PR-PT/PC-193	1.93	9	50	4
PR-PT/PC-194	1.94	9	50	4
PR-PT/PC-195	1.95	9	50	4
PR-PT/PC-196	1.96	9	50	4
PR-PT/PC-197	1.97	9	50	4
PR-PT/PC-198	1.98	9	50	4
PR-PT/PC-199	1.99	9	50	4
PR-PT/PC-200	2	10	50	4
PR-PT/PC-201	2.01	10	50	4
PR-PT/PC-202	2.02	10	50	4
PR-PT/PC-203	2.03	10	50	4
PR-PT/PC-204	2.04	10	50	4
PR-PT/PC-205	2.05	10	50	4
PR-PT/PC-206	2.06	10	50	4
PR-PT/PC-207	2.07	10	50	4
PR-PT/PC-208	2.08	10	50	4
PR-PT/PC-209	2.09	10	50	4
PR-PT/PC-210	2.1	10	50	4
PR-PT/PC-211	2.11	10	50	4
PR-PT/PC-212	2.12	10	50	4
PR-PT/PC-213	2.13	10	50	4
PR-PT/PC-214	2.14	10	50	4
PR-PT/PC-215	2.15	10	50	4
PR-PT/PC-216	2.16	10	50	4
PR-PT/PC-217	2.17	10	50	4
PR-PT/PC-218	2.18	10	50	4
PR-PT/PC-219	2.19	10	50	4
PR-PT/PC-220	2.2	10	50	4
PR-PT/PC-221	2.21	10	50	4
PR-PT/PC-222	2.22	10	50	4
PR-PT/PC-223	2.23	10	50	4
PR-PT/PC-224	2.24	10	50	4
PR-PT/PC-225	2.25	10	50	4
PR-PT/PC-226	2.26	10	50	4
PR-PT/PC-227	2.27	10	50	4
PR-PT/PC-228	2.28	10	50	4
PR-PT/PC-229	2.29	10	50	4
PR-PT/PC-230	2.3	12	50	4
PR-PT/PC-231	2.31	12	50	4
PR-PT/PC-232	2.32	12	50	4
PR-PT/PC-233	2.33	12	50	4
PR-PT/PC-234	2.34	12	50	4
PR-PT/PC-235	2.35	12	50	4
PR-PT/PC-236	2.36	12	50	4
PR-PT/PC-237	2.37	12	50	4
PR-PT/PC-238	2.38	12	50	4
PR-PT/PC-239	2.39	12	50	4
PR-PT/PC-240	2.4	12	50	4
PR-PT/PC-241	2.41	12	50	4
PR-PT/PC-242	2.42	12	50	4

PRODUCT STANDARD

Part No.	DIMENSION			
	D1	L2	L1	D
PR-PT/PC-243	2.43	12	50	4
PR-PT/PC-244	2.44	12	50	4
PR-PT/PC-245	2.45	12	50	4
PR-PT/PC-246	2.46	12	50	4
PR-PT/PC-247	2.47	12	50	4
PR-PT/PC-248	2.48	12	50	4
PR-PT/PC-249	2.49	12	50	4
PR-PT/PC-250	2.5	12	50	4
PR-PT/PC-251	2.51	12	50	4
PR-PT/PC-252	2.52	12	50	4
PR-PT/PC-253	2.53	12	50	4
PR-PT/PC-254	2.54	12	50	4
PR-PT/PC-255	2.55	12	50	4
PR-PT/PC-256	2.56	12	50	4
PR-PT/PC-257	2.57	12	50	4
PR-PT/PC-258	2.58	12	50	4
PR-PT/PC-259	2.59	12	50	4
PR-PT/PC-260	2.6	12	50	4
PR-PT/PC-261	2.61	14	50	4
PR-PT/PC-262	2.62	14	50	4
PR-PT/PC-263	2.63	14	50	4
PR-PT/PC-264	2.64	14	50	4
PR-PT/PC-265	2.65	14	50	4
PR-PT/PC-266	2.66	14	50	4
PR-PT/PC-267	2.67	14	50	4
PR-PT/PC-268	2.68	14	50	4
PR-PT/PC-269	2.69	14	50	4
PR-PT/PC-270	2.7	14	50	4
PR-PT/PC-271	2.71	14	50	4
PR-PT/PC-272	2.72	14	50	4
PR-PT/PC-273	2.73	14	50	4
PR-PT/PC-274	2.74	14	50	4
PR-PT/PC-275	2.75	14	50	4
PR-PT/PC-276	2.76	14	50	4
PR-PT/PC-277	2.77	14	50	4
PR-PT/PC-278	2.78	14	50	4
PR-PT/PC-279	2.79	14	50	4
PR-PT/PC-280	2.8	14	50	4
PR-PT/PC-281	2.81	14	50	4
PR-PT/PC-282	2.82	14	50	4
PR-PT/PC-283	2.83	14	50	4
PR-PT/PC-284	2.84	14	50	4
PR-PT/PC-285	2.85	14	50	4
PR-PT/PC-286	2.86	14	50	4
PR-PT/PC-287	2.87	14	50	4
PR-PT/PC-288	2.88	14	50	4
PR-PT/PC-289	2.89	14	50	4
PR-PT/PC-290	2.9	14	50	4
PR-PT/PC-291	2.91	14	50	4
PR-PT/PC-292	2.92	14	50	4
PR-PT/PC-293	2.93	14	50	4
PR-PT/PC-294	2.94	14	50	4
PR-PT/PC-295	2.95	14	50	4
PR-PT/PC-296	2.96	14	50	4

PRODUCT STANDARD

Part No.	DIMENSION			
	D1	L2	L1	D
PR-PT/PC-297	2.97	14	50	4
PR-PT/PC-298	2.98	14	50	4
PR-PT/PC-299	2.99	14	50	4
PR-PT/PC-300	3	14	50	4
PR-PT/PC-301	3.01	16	50	4
PR-PT/PC-302	3.02	16	50	4
PR-PT/PC-303	3.03	16	50	4
PR-PT/PC-304	3.04	16	50	4
PR-PT/PC-305	3.05	16	50	4
PR-PT/PC-306	3.06	16	50	4
PR-PT/PC-307	3.07	16	50	4
PR-PT/PC-308	3.08	16	50	4
PR-PT/PC-309	3.09	16	50	4
PR-PT/PC-310	3.1	16	50	4
PR-PT/PC-311	3.11	16	50	4
PR-PT/PC-312	3.12	16	50	4
PR-PT/PC-313	3.13	16	50	4
PR-PT/PC-314	3.14	16	50	4
PR-PT/PC-315	3.15	16	50	4
PR-PT/PC-316	3.16	16	50	4
PR-PT/PC-317	3.17	16	50	4
PR-PT/PC-318	3.18	16	50	4
PR-PT/PC-319	3.19	16	50	4
PR-PT/PC-320	3.2	16	50	4
PR-PT/PC-321	3.21	16	50	4
PR-PT/PC-322	3.22	16	50	4
PR-PT/PC-323	3.23	16	50	4
PR-PT/PC-324	3.24	16	50	4
PR-PT/PC-325	3.25	16	50	4
PR-PT/PC-326	3.26	16	50	4
PR-PT/PC-327	3.27	16	50	4
PR-PT/PC-328	3.28	16	50	4
PR-PT/PC-329	3.29	16	50	4
PR-PT/PC-330	3.3	16	50	4
PR-PT/PC-331	3.31	16	50	4
PR-PT/PC-332	3.32	16	50	4
PR-PT/PC-333	3.33	16	50	4
PR-PT/PC-334	3.34	16	50	4
PR-PT/PC-335	3.35	16	50	4
PR-PT/PC-336	3.36	16	50	4
PR-PT/PC-337	3.37	16	50	4
PR-PT/PC-338	3.38	16	50	4
PR-PT/PC-339	3.39	16	50	4
PR-PT/PC-340	3.4	16	50	4
PR-PT/PC-341	3.41	16	50	4
PR-PT/PC-342	3.42	16	50	4
PR-PT/PC-343	3.43	16	50	4
PR-PT/PC-344	3.44	16	50	4
PR-PT/PC-345	3.45	16	50	4
PR-PT/PC-346	3.46	16	50	4
PR-PT/PC-347	3.47	16	50	4
PR-PT/PC-348	3.48	16	50	4
PR-PT/PC-349	3.49	16	50	4
PR-PT/PC-350	3.5	16	50	4

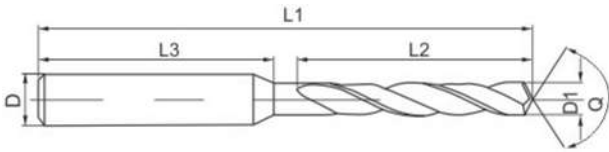
PRODUCT STANDARD

Part no.	DIMENSION			
	D1	L2	L1	D
PR-PT/PC-351	3.51	16	50	4
PR-PT/PC-352	3.52	16	50	4
PR-PT/PC-353	3.53	16	50	4
PR-PT/PC-354	3.54	16	50	4
PR-PT/PC-355	3.55	16	50	4
PR-PT/PC-356	3.56	16	50	4
PR-PT/PC-357	3.57	16	50	4
PR-PT/PC-358	3.58	16	50	4
PR-PT/PC-359	3.59	16	50	4
PR-PT/PC-360	3.6	18	50	4
PR-PT/PC-361	3.61	18	50	4
PR-PT/PC-362	3.62	18	50	4
PR-PT/PC-363	3.63	18	50	4
PR-PT/PC-364	3.64	18	50	4
PR-PT/PC-365	3.65	18	50	4
PR-PT/PC-366	3.66	18	50	4
PR-PT/PC-367	3.67	18	50	4
PR-PT/PC-368	3.68	18	50	4
PR-PT/PC-369	3.69	18	50	4
PR-PT/PC-370	3.7	18	50	4
PR-PT/PC-371	3.71	18	50	4
PR-PT/PC-372	3.72	18	50	4
PR-PT/PC-373	3.73	18	50	4
PR-PT/PC-374	3.74	18	50	4
PR-PT/PC-375	3.75	18	50	4
PR-PT/PC-376	3.76	18	50	4
PR-PT/PC-377	3.77	18	50	4
PR-PT/PC-378	3.78	18	50	4
PR-PT/PC-379	3.79	18	50	4
PR-PT/PC-380	3.8	18	50	4
PR-PT/PC-381	3.81	18	50	4
PR-PT/PC-382	3.82	18	50	4
PR-PT/PC-383	3.83	18	50	4
PR-PT/PC-384	3.84	18	50	4
PR-PT/PC-385	3.85	18	50	4
PR-PT/PC-386	3.86	18	50	4
PR-PT/PC-387	3.87	18	50	4
PR-PT/PC-388	3.88	18	50	4
PR-PT/PC-389	3.89	18	50	4
PR-PT/PC-390	3.9	18	50	4
PR-PT/PC-391	3.91	18	50	4
PR-PT/PC-392	3.92	18	50	4
PR-PT/PC-393	3.93	18	50	4
PR-PT/PC-394	3.94	18	50	4
PR-PT/PC-395	3.95	18	50	4
PR-PT/PC-396	3.96	18	50	4
PR-PT/PC-397	3.97	18	50	4
PR-PT/PC-398	3.98	18	50	4
PR-PT/PC-399	3.99	18	50	4
PR-PT/PC-400	4	18	50	4

PRODUCT STANDARD

PR-PT/PC SERIES / SIZE 3XD STEP 0.05MM

PT-Applicable materials:aluminium , non-ferrous metals.non-metallic. (Uncoated tools
) PC-Applicable materials:carbon steel , alloy steel , quenchedandtempered steel ,
 sus , mould steel , other steel , ductile iron.



Part No.	DIMENSION			
	D1	L2	L1	D
PR-PT/PC-405	4.05	18	50	5
PR-PT/PC-410	4.1	18	50	5
PR-PT/PC-415	4.15	18	50	5
PR-PT/PC-420	4.2	18	50	5
PR-PT/PC-425	4.25	18	50	5
PR-PT/PC-430	4.3	18	50	5
PR-PT/PC-435	4.35	18	50	5
PR-PT/PC-440	4.4	18	50	5
PR-PT/PC-445	4.45	18	50	5
PR-PT/PC-450	4.5	18	50	5
PR-PT/PC-455	4.55	20	50	5
PR-PT/PC-460	4.6	20	50	5
PR-PT/PC-465	4.65	20	50	5
PR-PT/PC-470	4.7	20	50	5
PR-PT/PC-475	4.75	20	50	5
PR-PT/PC-480	4.8	20	50	5
PR-PT/PC-485	4.85	20	50	5
PR-PT/PC-490	4.9	20	50	5
PR-PT/PC-495	4.95	20	50	5
PR-PT/PC-500	5	20	50	5
PR-PT/PC-505	5.05	25	50	6
PR-PT/PC-510	5.1	25	50	6
PR-PT/PC-515	5.15	25	50	6
PR-PT/PC-520	5.2	25	50	6
PR-PT/PC-525	5.25	25	50	6
PR-PT/PC-530	5.3	25	50	6
PR-PT/PC-535	5.35	25	50	6
PR-PT/PC-540	5.4	25	50	6
PR-PT/PC-545	5.45	25	50	6
PR-PT/PC-550	5.5	25	50	6

PRODUCT STANDARD

Part No.	DIMENSION			
	D1	L2	L1	D
PR-PT/PC-555	5.55	25	50	6
PR-PT/PC-560	5.6	25	50	6
PR-PT/PC-565	5.65	25	50	6
PR-PT/PC-570	5.7	25	50	6
PR-PT/PC-575	5.75	25	50	6
PR-PT/PC-580	5.8	25	50	6
PR-PT/PC-585	5.85	25	50	6
PR-PT/PC-590	5.9	25	50	6
PR-PT/PC-595	5.95	25	50	6
PR-PT/PC-600	6	25	50	6
PR-PT/PC-605	6.05	30	60	8
PR-PT/PC-610	6.1	30	60	8
PR-PT/PC-615	6.15	30	60	8
PR-PT/PC-620	6.2	30	60	8
PR-PT/PC-625	6.25	30	60	8
PR-PT/PC-630	6.3	30	60	8
PR-PT/PC-635	6.35	30	60	8
PR-PT/PC-640	6.4	30	60	8
PR-PT/PC-645	6.45	30	60	8
PR-PT/PC-650	6.5	30	60	8
PR-PT/PC-655	6.55	30	60	8
PR-PT/PC-660	6.6	30	60	8
PR-PT/PC-665	6.65	30	60	8
PR-PT/PC-670	6.7	30	60	8
PR-PT/PC-675	6.75	30	60	8
PR-PT/PC-680	6.8	30	60	8
PR-PT/PC-685	6.85	30	60	8
PR-PT/PC-690	6.9	30	60	8
PR-PT/PC-695	6.95	30	60	8
PR-PT/PC-700	7	30	60	8
PR-PT/PC-705	7.05	32	60	8
PR-PT/PC-710	7.1	32	60	8
PR-PT/PC-715	7.15	32	60	8
PR-PT/PC-720	7.2	32	60	8
PR-PT/PC-725	7.25	32	60	8
PR-PT/PC-730	7.3	32	60	8
PR-PT/PC-735	7.35	32	60	8
PR-PT/PC-740	7.4	32	60	8
PR-PT/PC-745	7.45	32	60	8
PR-PT/PC-750	7.5	32	60	8
PR-PT/PC-755	7.55	32	60	8
PR-PT/PC-760	7.6	32	60	8
PR-PT/PC-765	7.65	32	60	8
PR-PT/PC-770	7.7	32	60	8
PR-PT/PC-775	7.75	32	60	8
PR-PT/PC-780	7.8	32	60	8
PR-PT/PC-785	7.85	32	60	8
PR-PT/PC-790	7.9	32	60	8
PR-PT/PC-795	7.95	32	60	8
PR-PT/PC-800	8	32	60	8
PR-PT/PC-805	8.05	40	75	10
PR-PT/PC-810	8.1	40	75	10
PR-PT/PC-815	8.15	40	75	10
PR-PT/PC-820	8.2	40	75	10

PRODUCT STANDARD

Part No.	DIMENSION			
	D1	L2	L1	D
PR-PT/PC-825	8.25	40	75	10
PR-PT/PC-830	8.3	40	75	10
PR-PT/PC-835	8.35	40	75	10
PR-PT/PC-840	8.4	40	75	10
PR-PT/PC-845	8.45	40	75	10
PR-PT/PC-850	8.5	40	75	10
PR-PT/PC-855	8.55	40	75	10
PR-PT/PC-860	8.6	40	75	10
PR-PT/PC-865	8.65	40	75	10
PR-PT/PC-870	8.7	40	75	10
PR-PT/PC-875	8.75	40	75	10
PR-PT/PC-880	8.8	40	75	10
PR-PT/PC-885	8.85	40	75	10
PR-PT/PC-890	8.9	40	75	10
PR-PT/PC-895	8.95	40	75	10
PR-PT/PC-900	9	40	75	10
PR-PT/PC-905	9.05	40	75	10
PR-PT/PC-910	9.1	40	75	10
PR-PT/PC-915	9.15	40	75	10
PR-PT/PC-920	9.2	40	75	10
PR-PT/PC-925	9.25	40	75	10
PR-PT/PC-930	9.3	40	75	10
PR-PT/PC-935	9.35	40	75	10
PR-PT/PC-940	9.4	40	75	10
PR-PT/PC-945	9.45	40	75	10
PR-PT/PC-950	9.5	40	75	10
PR-PT/PC-955	9.55	40	75	10
PR-PT/PC-960	9.6	40	75	10
PR-PT/PC-965	9.65	40	75	10
PR-PT/PC-970	9.7	40	75	10
PR-PT/PC-975	9.75	40	75	10
PR-PT/PC-980	9.8	40	75	10
PR-PT/PC-985	9.85	40	75	10
PR-PT/PC-990	9.9	40	75	10
PR-PT/PC-995	9.95	40	75	10
PR-PT/PC-1000	10	40	75	10
PR-PT/PC-1005	10.05	42	75	12
PR-PT/PC-1010	10.1	42	75	12
PR-PT/PC-1015	10.15	42	75	12
PR-PT/PC-1020	10.2	42	75	12
PR-PT/PC-1025	10.25	42	75	12
PR-PT/PC-1030	10.3	42	75	12
PR-PT/PC-1035	10.35	42	75	12
PR-PT/PC-1040	10.4	42	75	12
PR-PT/PC-1045	10.45	42	75	12
PR-PT/PC-1050	10.5	42	75	12
PR-PT/PC-1055	10.55	42	75	12
PR-PT/PC-1060	10.6	42	75	12
PR-PT/PC-1065	10.65	42	75	12
PR-PT/PC-1070	10.7	42	75	12
PR-PT/PC-1075	10.75	42	75	12
PR-PT/PC-1080	10.8	42	75	12
PR-PT/PC-1085	10.85	42	75	12
PR-PT/PC-1090	10.9	42	75	12

PRODUCT STANDARD

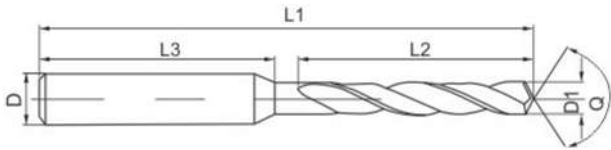
Part No.	DIMENSION			
	D1	L2	L1	D
PR-PT/PC-1095	10.95	42	75	12
PR-PT/PC-1100	11	42	75	12
PR-PT/PC-1105	11.05	48	80	12
PR-PT/PC-1110	11.1	48	80	12
PR-PT/PC-1115	11.15	48	80	12
PR-PT/PC-1120	11.2	48	80	12
PR-PT/PC-1125	11.25	48	80	12
PR-PT/PC-1130	11.3	48	80	12
PR-PT/PC-1135	11.35	48	80	12
PR-PT/PC-1140	11.4	48	80	12
PR-PT/PC-1145	11.45	48	80	12
PR-PT/PC-1150	11.5	48	80	12
PR-PT/PC-1155	11.55	48	80	12
PR-PT/PC-1160	11.6	48	80	12
PR-PT/PC-1165	11.65	48	80	12
PR-PT/PC-1170	11.7	48	80	12
PR-PT/PC-1175	11.75	48	80	12
PR-PT/PC-1180	11.8	48	80	12
PR-PT/PC-1185	11.85	48	80	12
PR-PT/PC-1190	11.9	48	80	12
PR-PT/PC-1195	11.95	48	80	12
PR-PT/PC-1200	12	48	80	12

PRODUCT STANDARD

PR-XA/XG SERIES / SIZE 5XD STEP 0.01MM

XA-Applicable materials aluminium,non-ferrous metals.non-metallic. (Uncoated tools)

XG-Applicable materials : carbon steel , alloy steel , quenched and tempered steel,mould steel,other steel,ductile iron.



Part No.	DIMENSION			
	D1	L2	L1	D
PR-XA/XG-050	0.5	5	50	4
PR-XA/XG-051	0.51	5	50	4
PR-XA/XG-052	0.52	5	50	4
PR-XA/XG-053	0.53	5	50	4
PR-XA/XG-054	0.54	5	50	4
PR-XA/XG-055	0.55	5	50	4
PR-XA/XG-056	0.56	5	50	4
PR-XA/XG-057	0.57	5	50	4
PR-XA/XG-058	0.58	5	50	4
PR-XA/XG-059	0.59	5	50	4
PR-XA/XG-060	0.6	6	50	4
PR-XA/XG-061	0.61	6	50	4
PR-XA/XG-062	0.62	6	50	4
PR-XA/XG-063	0.63	6	50	4
PR-XA/XG-064	0.64	6	50	4
PR-XA/XG-065	0.65	6	50	4
PR-XA/XG-066	0.66	6	50	4
PR-XA/XG-067	0.67	6	50	4
PR-XA/XG-068	0.68	6	50	4
PR-XA/XG-069	0.69	6	50	4
PR-XA/XG-070	0.7	6	50	4
PR-XA/XG-071	0.71	6	50	4
PR-XA/XG-072	0.72	6	50	4
PR-XA/XG-073	0.73	6	50	4
PR-XA/XG-074	0.74	6	50	4
PR-XA/XG-075	0.75	6	50	4
PR-XA/XG-076	0.76	6	50	4
PR-XA/XG-077	0.77	6	50	4
PR-XA/XG-078	0.78	6	50	4
PR-XA/XG-079	0.79	6	50	4
PR-XA/XG-080	0.8	6	50	4

PRODUCT STANDARD

Part No.	DIMENSION			
	D1	L2	L1	D
PR-XA/XG-081	0.81	6	50	4
PR-XA/XG-082	0.82	6	50	4
PR-XA/XG-083	0.83	6	50	4
PR-XA/XG-084	0.84	6	50	4
PR-XA/XG-085	0.85	6	50	4
PR-XA/XG-086	0.86	6	50	4
PR-XA/XG-087	0.87	6	50	4
PR-XA/XG-088	0.88	6	50	4
PR-XA/XG-089	0.89	6	50	4
PR-XA/XG-090	0.9	6	50	4
PR-XA/XG-091	0.91	6	50	4
PR-XA/XG-092	0.92	6	50	4
PR-XA/XG-093	0.93	6	50	4
PR-XA/XG-094	0.94	6	50	4
PR-XA/XG-095	0.95	6	50	4
PR-XA/XG-096	0.96	6	50	4
PR-XA/XG-097	0.97	6	50	4
PR-XA/XG-098	0.98	6	50	4
PR-XA/XG-099	0.99	6	50	4
PR-XA/XG-100	1	8	50	4
PR-XA/XG-101	1.01	8	50	4
PR-XA/XG-102	1.02	8	50	4
PR-XA/XG-103	1.03	8	50	4
PR-XA/XG-104	1.04	8	50	4
PR-XA/XG-105	1.05	8	50	4
PR-XA/XG-106	1.06	8	50	4
PR-XA/XG-107	1.07	8	50	4
PR-XA/XG-108	1.08	8	50	4
PR-XA/XG-109	1.09	8	50	4
PR-XA/XG-110	1.1	8	50	4
PR-XA/XG-111	1.11	8	50	4
PR-XA/XG-112	1.12	8	50	4
PR-XA/XG-113	1.13	8	50	4
PR-XA/XG-114	1.14	8	50	4
PR-XA/XG-115	1.15	8	50	4
PR-XA/XG-116	1.16	8	50	4
PR-XA/XG-117	1.17	8	50	4
PR-XA/XG-118	1.18	8	50	4
PR-XA/XG-119	1.19	8	50	4
PR-XA/XG-120	1.2	8	50	4
PR-XA/XG-121	1.21	8	50	4
PR-XA/XG-122	1.22	8	50	4
PR-XA/XG-123	1.23	8	50	4
PR-XA/XG-124	1.24	8	50	4
PR-XA/XG-125	1.25	8	50	4
PR-XA/XG-126	1.26	8	50	4
PR-XA/XG-127	1.27	8	50	4
PR-XA/XG-128	1.28	8	50	4
PR-XA/XG-129	1.29	8	50	4
PR-XA/XG-130	1.3	8	50	4
PR-XA/XG-131	1.31	8	50	4
PR-XA/XG-132	1.32	8	50	4
PR-XA/XG-133	1.33	8	50	4
PR-XA/XG-134	1.34	8	50	4

PRODUCT STANDARD

Part No.	DIMENSION			
	D1	L2	L1	D
PR-XA/XG-135	1.35	8	50	4
PR-XA/XG-136	1.36	8	50	4
PR-XA/XG-137	1.37	8	50	4
PR-XA/XG-138	1.38	8	50	4
PR-XA/XG-139	1.39	8	50	4
PR-XA/XG-140	1.4	9	50	4
PR-XA/XG-141	1.41	9	50	4
PR-XA/XG-142	1.42	9	50	4
PR-XA/XG-143	1.43	9	50	4
PR-XA/XG-144	1.44	9	50	4
PR-XA/XG-145	1.45	9	50	4
PR-XA/XG-146	1.46	9	50	4
PR-XA/XG-147	1.47	9	50	4
PR-XA/XG-148	1.48	9	50	4
PR-XA/XG-149	1.49	9	50	4
PR-XA/XG-150	1.5	9	50	4
PR-XA/XG-151	1.51	9	50	4
PR-XA/XG-152	1.52	9	50	4
PR-XA/XG-153	1.53	9	50	4
PR-XA/XG-154	1.54	9	50	4
PR-XA/XG-155	1.55	9	50	4
PR-XA/XG-156	1.56	9	50	4
PR-XA/XG-157	1.57	9	50	4
PR-XA/XG-158	1.58	9	50	4
PR-XA/XG-159	1.59	9	50	4
PR-XA/XG-160	1.6	10	50	4
PR-XA/XG-161	1.61	10	50	4
PR-XA/XG-162	1.62	10	50	4
PR-XA/XG-163	1.63	10	50	4
PR-XA/XG-164	1.64	10	50	4
PR-XA/XG-165	1.65	10	50	4
PR-XA/XG-166	1.66	10	50	4
PR-XA/XG-167	1.67	10	50	4
PR-XA/XG-168	1.68	10	50	4
PR-XA/XG-169	1.69	10	50	4
PR-XA/XG-170	1.7	10	50	4
PR-XA/XG-171	1.71	10	50	4
PR-XA/XG-172	1.72	10	50	4
PR-XA/XG-173	1.73	10	50	4
PR-XA/XG-174	1.74	10	50	4
PR-XA/XG-175	1.75	10	50	4
PR-XA/XG-176	1.76	10	50	4
PR-XA/XG-177	1.77	10	50	4
PR-XA/XG-178	1.78	10	50	4
PR-XA/XG-179	1.79	10	50	4
PR-XA/XG-180	1.8	12	50	4
PR-XA/XG-181	1.81	12	50	4
PR-XA/XG-182	1.82	12	50	4
PR-XA/XG-183	1.83	12	50	4
PR-XA/XG-184	1.84	12	50	4
PR-XA/XG-185	1.85	12	50	4
PR-XA/XG-186	1.86	12	50	4
PR-XA/XG-187	1.87	12	50	4
PR-XA/XG-188	1.88	12	50	4

PRODUCT STANDARD

Part No.	DIMENSION			
	D1	L2	L1	D
PR-XA/XG-189	1.89	12	50	4
PR-XA/XG-190	1.9	12	50	4
PR-XA/XG-191	1.91	12	50	4
PR-XA/XG-192	1.92	12	50	4
PR-XA/XG-193	1.93	12	50	4
PR-XA/XG-194	1.94	12	50	4
PR-XA/XG-195	1.95	12	50	4
PR-XA/XG-196	1.96	12	50	4
PR-XA/XG-197	1.97	12	50	4
PR-XA/XG-198	1.98	12	50	4
PR-XA/XG-199	1.99	12	50	4
PR-XA/XG-200	2	12	50	4
PR-XA/XG-201	2.01	12	50	4
PR-XA/XG-202	2.02	12	50	4
PR-XA/XG-203	2.03	12	50	4
PR-XA/XG-204	2.04	12	50	4
PR-XA/XG-205	2.05	12	50	4
PR-XA/XG-206	2.06	12	50	4
PR-XA/XG-207	2.07	12	50	4
PR-XA/XG-208	2.08	12	50	4
PR-XA/XG-209	2.09	12	50	4
PR-XA/XG-210	2.1	12	50	4
PR-XA/XG-211	2.11	12	50	4
PR-XA/XG-212	2.12	12	50	4
PR-XA/XG-213	2.13	12	50	4
PR-XA/XG-214	2.14	12	50	4
PR-XA/XG-215	2.15	12	50	4
PR-XA/XG-216	2.16	12	50	4
PR-XA/XG-217	2.17	12	50	4
PR-XA/XG-218	2.18	12	50	4
PR-XA/XG-219	2.19	12	50	4
PR-XA/XG-220	2.2	13	50	4
PR-XA/XG-221	2.21	13	50	4
PR-XA/XG-222	2.22	13	50	4
PR-XA/XG-223	2.23	13	50	4
PR-XA/XG-224	2.24	13	50	4
PR-XA/XG-225	2.25	13	50	4
PR-XA/XG-226	2.26	13	50	4
PR-XA/XG-227	2.27	13	50	4
PR-XA/XG-228	2.28	13	50	4
PR-XA/XG-229	2.29	13	50	4
PR-XA/XG-230	2.3	13	50	4
PR-XA/XG-231	2.31	13	50	4
PR-XA/XG-232	2.32	13	50	4
PR-XA/XG-233	2.33	13	50	4
PR-XA/XG-234	2.34	13	50	4
PR-XA/XG-235	2.35	13	50	4
PR-XA/XG-236	2.36	13	50	4
PR-XA/XG-237	2.37	13	50	4
PR-XA/XG-238	2.38	13	50	4
PR-XA/XG-239	2.39	13	50	4
PR-XA/XG-240	2.4	14	50	4
PR-XA/XG-241	2.41	14	50	4
PR-XA/XG-242	2.42	14	50	4

PRODUCT STANDARD

Part No.	DIMENSION			
	D1	L2	L1	D
PR-XA/XG-243	2.43	14	50	4
PR-XA/XG-244	2.44	14	50	4
PR-XA/XG-245	2.45	14	50	4
PR-XA/XG-246	2.46	14	50	4
PR-XA/XG-247	2.47	14	50	4
PR-XA/XG-248	2.48	14	50	4
PR-XA/XG-249	2.49	14	50	4
PR-XA/XG-250	2.5	14	50	4
PR-XA/XG-251	2.51	14	50	4
PR-XA/XG-252	2.52	14	50	4
PR-XA/XG-253	2.53	14	50	4
PR-XA/XG-254	2.54	14	50	4
PR-XA/XG-255	2.55	14	50	4
PR-XA/XG-256	2.56	14	50	4
PR-XA/XG-257	2.57	14	50	4
PR-XA/XG-258	2.58	14	50	4
PR-XA/XG-259	2.59	14	50	4
PR-XA/XG-260	2.6	14	50	4
PR-XA/XG-261	2.61	14	50	4
PR-XA/XG-262	2.62	14	50	4
PR-XA/XG-263	2.63	14	50	4
PR-XA/XG-264	2.64	14	50	4
PR-XA/XG-265	2.65	14	50	4
PR-XA/XG-266	2.66	14	50	4
PR-XA/XG-267	2.67	14	50	4
PR-XA/XG-268	2.68	14	50	4
PR-XA/XG-269	2.69	14	50	4
PR-XA/XG-270	2.7	16	50	4
PR-XA/XG-271	2.71	16	50	4
PR-XA/XG-272	2.72	16	50	4
PR-XA/XG-273	2.73	16	50	4
PR-XA/XG-274	2.74	16	50	4
PR-XA/XG-275	2.75	16	50	4
PR-XA/XG-276	2.76	16	50	4
PR-XA/XG-277	2.77	16	50	4
PR-XA/XG-278	2.78	16	50	4
PR-XA/XG-279	2.79	16	50	4
PR-XA/XG-280	2.8	16	50	4
PR-XA/XG-281	2.81	16	50	4
PR-XA/XG-282	2.82	16	50	4
PR-XA/XG-283	2.83	16	50	4
PR-XA/XG-284	2.84	16	50	4
PR-XA/XG-285	2.85	16	50	4
PR-XA/XG-286	2.86	16	50	4
PR-XA/XG-287	2.87	16	50	4
PR-XA/XG-288	2.88	16	50	4
PR-XA/XG-289	2.89	16	50	4
PR-XA/XG-290	2.9	16	50	4
PR-XA/XG-291	2.91	16	50	4
PR-XA/XG-292	2.92	16	50	4
PR-XA/XG-293	2.93	16	50	4
PR-XA/XG-294	2.94	16	50	4
PR-XA/XG-295	2.95	16	50	4
PR-XA/XG-296	2.96	16	50	4

PRODUCT STANDARD

Part No.	DIMENSION			
	D1	L2	L1	D
PR-XA/XG-297	2.97	16	50	4
PR-XA/XG-298	2.98	16	50	4
PR-XA/XG-299	2.99	16	50	4
PR-XA/XG-300	3	16	50	4
PR-XA/XG-301	3.01	20	52	4
PR-XA/XG-302	3.02	20	52	4
PR-XA/XG-303	3.03	20	52	4
PR-XA/XG-304	3.04	20	52	4
PR-XA/XG-305	3.05	20	52	4
PR-XA/XG-306	3.06	20	52	4
PR-XA/XG-307	3.07	20	52	4
PR-XA/XG-308	3.08	20	52	4
PR-XA/XG-309	3.09	20	52	4
PR-XA/XG-310	3.1	20	52	4
PR-XA/XG-311	3.11	20	52	4
PR-XA/XG-312	3.12	20	52	4
PR-XA/XG-313	3.13	20	52	4
PR-XA/XG-314	3.14	20	52	4
PR-XA/XG-315	3.15	20	52	4
PR-XA/XG-316	3.16	20	52	4
PR-XA/XG-317	3.17	20	52	4
PR-XA/XG-318	3.18	20	52	4
PR-XA/XG-319	3.19	20	52	4
PR-XA/XG-320	3.2	20	52	4
PR-XA/XG-321	3.21	20	52	4
PR-XA/XG-322	3.22	20	52	4
PR-XA/XG-323	3.23	20	52	4
PR-XA/XG-324	3.24	20	52	4
PR-XA/XG-325	3.25	20	52	4
PR-XA/XG-325	3.26	20	52	4
PR-XA/XG-327	3.27	20	52	4
PR-XA/XG-328	3.28	20	52	4
PR-XA/XG-329	3.29	20	52	4
PR-XA/XG-330	3.3	20	52	4
PR-XA/XG-331	3.31	20	52	4
PR-XA/XG-332	3.32	20	52	4
PR-XA/XG-333	3.33	20	52	4
PR-XA/XG-334	3.34	20	52	4
PR-XA/XG-335	3.35	20	52	4
PR-XA/XG-336	3.36	20	52	4
PR-XA/XG-337	3.37	20	52	4
PR-XA/XG-338	3.38	20	52	4
PR-XA/XG-339	3.39	20	52	4
PR-XA/XG-340	3.4	20	52	4
PR-XA/XG-341	3.41	20	52	4
PR-XA/XG-342	3.42	20	52	4
PR-XA/XG-343	3.43	20	52	4
PR-XA/XG-344	3.44	20	52	4
PR-XA/XG-345	3.45	20	52	4
PR-XA/XG-346	3.46	20	52	4
PR-XA/XG-347	3.47	20	52	4
PR-XA/XG-348	3.48	20	52	4
PR-XA/XG-349	3.49	20	52	4
PR-XA/XG-350	3.5	20	52	4

PRODUCT STANDARD

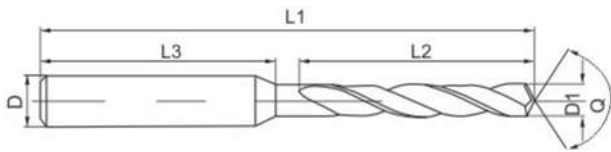
Part No.	DIMENSION			
	D1	L2	L1	D
PR-XA/XG-351	3.51	23	55	4
PR-XA/XG-352	3.52	23	55	4
PR-XA/XG-353	3.53	23	55	4
PR-XA/XG-354	3.54	23	55	4
PR-XA/XG-355	3.55	23	55	4
PR-XA/XG-356	3.56	23	55	4
PR-XA/XG-357	3.57	23	55	4
PR-XA/XG-358	3.58	23	55	4
PR-XA/XG-359	3.59	23	55	4
PR-XA/XG-360	3.6	23	55	4
PR-XA/XG-361	3.61	23	55	4
PR-XA/XG-362	3.62	23	55	4
PR-XA/XG-363	3.63	23	55	4
PR-XA/XG-364	3.64	23	55	4
PR-XA/XG-365	3.65	23	55	4
PR-XA/XG-366	3.66	23	55	4
PR-XA/XG-367	3.67	23	55	4
PR-XA/XG-368	3.68	23	55	4
PR-XA/XG-369	3.69	23	55	4
PR-XA/XG-370	3.7	23	55	4
PR-XA/XG-371	3.71	23	55	4
PR-XA/XG-372	3.72	23	55	4
PR-XA/XG-373	3.73	23	55	4
PR-XA/XG-374	3.74	23	55	4
PR-XA/XG-375	3.75	23	55	4
PR-XA/XG-376	3.76	23	55	4
PR-XA/XG-377	3.77	23	55	4
PR-XA/XG-378	3.78	23	55	4
PR-XA/XG-379	3.79	23	55	4
PR-XA/XG-380	3.8	23	55	4
PR-XA/XG-381	3.81	23	55	4
PR-XA/XG-382	3.82	23	55	4
PR-XA/XG-383	3.83	23	55	4
PR-XA/XG-384	3.84	23	55	4
PR-XA/XG-385	3.85	23	55	4
PR-XA/XG-386	3.86	23	55	4
PR-XA/XG-387	3.87	23	55	4
PR-XA/XG-388	3.88	23	55	4
PR-XA/XG-389	3.89	23	55	4
PR-XA/XG-390	3.9	23	55	4
PR-XA/XG-391	3.91	23	55	4
PR-XA/XG-392	3.92	23	55	4
PR-XA/XG-393	3.93	23	55	4
PR-XA/XG-394	3.94	23	55	4
PR-XA/XG-395	3.95	23	55	4
PR-XA/XG-396	3.96	23	55	4
PR-XA/XG-397	3.97	23	55	4
PR-XA/XG-398	3.98	23	55	4
PR-XA/XG-399	3.99	23	55	4
PR-XA/XG-400	4	23	55	4

PRODUCT STANDARD

PB-XA/XG SERIES / SIZE 5XD STEP 0.05MM

XA-Applicable materials : aluminium , non-ferrous metals.non-metallic. (Uncoated tools)

XG-Applicable materials : carbon steel , alloy steel , quenched and tempered steel,sus ,
mould steel , other steel , ductile iron.



Part No.	DIMENSION			
	D1	L2	L1	D
PR-XA/XG-405	4.05	26	60	5
PR-XA/XG-410	4.1	26	60	5
PR-XA/XG-415	4.15	26	60	5
PR-XA/XG-420	4.2	26	60	5
PR-XA/XG-425	4.25	26	60	5
PR-XA/XG-430	4.3	26	60	5
PR-XA/XG-435	4.35	26	60	5
PR-XA/XG-440	4.4	26	60	5
PR-XA/XG-445	4.45	26	60	5
PR-XA/XG-450	4.5	26	60	5
PR-XA/XG-455	4.55	26	60	5
PR-XA/XG-460	4.6	28	60	5
PR-XA/XG-465	4.65	28	60	5
PR-XA/XG-470	4.7	28	60	5
PR-XA/XG-475	4.75	28	60	5
PR-XA/XG-480	4.8	28	60	5
PR-XA/XG-485	4.85	28	60	5
PR-XA/XG-490	4.9	28	60	5
PR-XA/XG-495	4.95	28	60	5
PR-XA/XG-500	5	28	60	5
PR-XA/XG-505	5.05	30	65	6
PR-XA/XG-510	5.1	30	65	6
PR-XA/XG-515	5.15	30	65	6
PR-XA/XG-520	5.2	30	65	6
PR-XA/XG-525	5.25	30	65	6
PR-XA/XG-530	5.3	30	65	6
PR-XA/XG-535	5.35	30	65	6
PR-XA/XG-540	5.4	30	65	6
PR-XA/XG-545	5.45	30	65	6
PR-XA/XG-550	5.5	30	65	6
PR-XA/XG-555	5.55	30	65	6

PRODUCT STANDARD

Part No.	DIMENSION			
	D1	L2	L1	D
PR-XA/XG-560	5.6	32	65	6
PR-XA/XG-565	5.65	32	65	6
PR-XA/XG-570	5.7	32	65	6
PR-XA/XG-575	5.75	32	65	6
PR-XA/XG-580	5.8	32	65	6
PR-XA/XG-585	5.85	32	65	6
PR-XA/XG-590	5.9	32	65	6
PR-XA/XG-595	5.95	32	65	6
PR-XA/XG-600	6	32	65	6
PR-XA/XG-605	6.05	36	75	7
PR-XA/XG-610	6.1	38	75	7
PR-XA/XG-615	6.15	36	75	7
PR-XA/XG-620	6.2	38	75	7
PR-XA/XG-625	6.25	36	75	7
PR-XA/XG-630	6.3	38	75	7
PR-XA/XG-635	6.35	36	75	7
PR-XA/XG-640	6.4	38	75	7
PR-XA/XG-645	6.45	36	75	7
PR-XA/XG-650	6.5	38	75	7
PR-XA/XG-655	6.55	42	80	7
PR-XA/XG-660	6.6	42	80	7
PR-XA/XG-665	6.65	42	80	7
PR-XA/XG-670	6.7	42	80	7
PR-XA/XG-675	6.75	42	80	7
PR-XA/XG-680	6.8	42	80	7
PR-XA/XG-685	6.85	42	80	7
PR-XA/XG-690	6.9	42	80	7
PR-XA/XG-695	6.95	42	80	7
PR-XA/XG-700	7	42	80	7
PR-XA/XG-705	7.05	53	91	8
PR-XA/XG-710	7.1	53	91	8
PR-XA/XG-715	7.15	53	91	8
PR-XA/XG-720	7.2	53	91	8
PR-XA/XG-725	7.25	53	91	8
PR-XA/XG-730	7.3	53	91	8
PR-XA/XG-735	7.35	53	91	8
PR-XA/XG-740	7.4	53	91	8
PR-XA/XG-745	7.45	53	91	8
PR-XA/XG-750	7.5	53	91	8
PR-XA/XG-755	7.55	53	91	8
PR-XA/XG-760	7.6	53	91	8
PR-XA/XG-765	7.65	53	91	8
PR-XA/XG-770	7.7	53	91	8
PR-XA/XG-775	7.75	53	91	8
PR-XA/XG-780	7.8	53	91	8
PR-XA/XG-785	7.85	53	91	8
PR-XA/XG-790	7.9	53	91	8
PR-XA/XG-795	7.95	53	91	8
PR-XA/XG-800	8	53	91	8
PR-XA/XG-805	8.05	61	103	10
PR-XA/XG-810	8.1	61	103	9
PR-XA/XG-815	8.15	61	103	10
PR-XA/XG-820	8.2	61	103	9
PR-XA/XG-825	8.25	61	103	10

PRODUCT STANDARD

Part No.	DIMENSION			
	D1	L2	L1	D
PR-XA/XG-830	8.3	61	103	9
PR-XA/XG-835	8.35	61	103	10
PR-XA/XG-840	8.4	61	103	9
PR-XA/XG-845	8.45	61	103	10
PR-XA/XG-850	8.5	61	103	9
PR-XA/XG-855	8.55	61	103	10
PR-XA/XG-860	8.6	61	103	9
PR-XA/XG-865	8.65	61	103	10
PR-XA/XG-870	8.7	61	103	9
PR-XA/XG-875	8.75	61	103	10
PR-XA/XG-880	8.8	61	103	9
PR-XA/XG-885	8.85	61	103	10
PR-XA/XG-890	8.9	61	103	9
PR-XA/XG-895	8.95	61	103	10
PR-XA/XG-900	9	61	103	9
PR-XA/XG-905	9.05	61	103	10
PR-XA/XG-910	9.1	61	103	10
PR-XA/XG-915	9.15	61	103	10
PR-XA/XG-920	9.2	61	103	10
PR-XA/XG-925	9.25	61	103	10
PR-XA/XG-930	9.3	61	103	10
PR-XA/XG-935	9.35	61	103	10
PR-XA/XG-940	9.4	61	103	10
PR-XA/XG-945	9.45	61	103	10
PR-XA/XG-950	9.5	61	103	10
PR-XA/XG-955	9.55	61	103	10
PR-XA/XG-960	9.6	61	103	10
PR-XA/XG-965	9.65	61	103	10
PR-XA/XG-970	9.7	61	103	10
PR-XA/XG-975	9.75	61	103	10
PR-XA/XG-980	9.8	61	103	10
PR-XA/XG-985	9.85	61	103	10
PR-XA/XG-990	9.9	61	103	10
PR-XA/XG-995	9.95	61	103	10
PR-XA/XG-1000	10	61	103	10
PR-XA/XG-1005	10.05	71	118	11
PR-XA/XG-1010	10.1	71	118	11
PR-XA/XG-1015	10.15	71	118	11
PR-XA/XG-1020	10.2	71	118	11
PR-XA/XG-1025	10.25	71	118	11
PR-XA/XG-1030	10.3	71	118	11
PR-XA/XG-1035	10.35	71	118	11
PR-XA/XG-1040	10.4	71	118	11
PR-XA/XG-1045	10.45	71	118	11
PR-XA/XG-1050	10.5	71	118	11
PR-XA/XG-1055	10.55	71	118	11
PR-XA/XG-1060	10.6	71	118	11
PR-XA/XG-1065	10.65	71	118	11
PR-XA/XG-1070	10.7	71	118	11
PR-XA/XG-1075	10.75	71	118	11
PR-XA/XG-1080	10.8	71	118	11
PR-XA/XG-1085	10.85	71	118	11
PR-XA/XG-1090	10.9	71	118	11
PR-XA/XG-1095	10.95	71	118	11

PRODUCT STANDARD

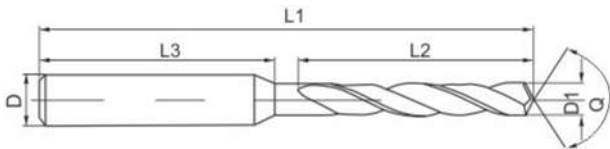
Part No.	DIMENSION			
	D1	L2	L1	D
PR-XA/XG-1100	11	71	118	11
PR-XA/XG-1105	11.05	71	118	12
PR-XA/XG-1110	11.1	71	118	12
PR-XA/XG-1115	11.15	71	118	12
PR-XA/XG-1120	11.2	71	118	12
PR-XA/XG-1125	11.25	71	118	12
PR-XA/XG-1130	11.3	71	118	12
PR-XA/XG-1135	11.35	71	118	12
PR-XA/XG-1140	11.4	71	118	12
PR-XA/XG-1145	11.45	71	118	12
PR-XA/XG-1150	11.5	71	118	12
PR-XA/XG-1155	11.55	71	118	12
PR-XA/XG-1160	11.6	71	118	12
PR-XA/XG-1165	11.65	71	118	12
PR-XA/XG-1170	11.7	71	118	12
PR-XA/XG-1175	11.75	71	118	12
PR-XA/XG-1180	11.8	71	118	12
PR-XA/XG-1185	11.85	71	118	12
PR-XA/XG-1190	11.9	71	118	12
PR-XA/XG-1195	11.95	71	118	12
PR-XA/XG-1200	12	71	118	12

PRODUCT STANDARD

PR-MD/MC 5XD STEP 0.01MM-SHANK DIA.3 SERIES

MD-Applicable materials : aluminium , non-ferrous metals.non-metallic. (Uncoated tools)

MC-Applicable materials : carbon steel , alloy steel , quenched and tempered steel , sus,mould steel , other steel , ductile iron.



Part No.	DIMENSION			
	D1	L2	L1	D
PR-MD/MC-020	0.2	3	38	3
PR-MD/MC-021	0.21	3	38	3
PR-MD/MC-022	0.22	3	38	3
PR-MD/MC-023	0.23	3	38	3
PR-MD/MC-024	0.24	3	38	3
PR-MD/MC-025	0.25	3	38	3
PR-MD/MC-026	0.26	3	38	3
PR-MD/MC-027	0.27	3	38	3
PR-MD/MC-028	0.28	3	38	3
PR-MD/MC-029	0.29	3	38	3
PR-MD/MC-030	0.3	3	38	3
PR-MD/MC-031	0.31	3	38	3
PR-MD/MC-032	0.32	3	38	3
PR-MD/MC-033	0.33	3	38	3
PR-MD/MC-034	0.34	3	38	3
PR-MD/MC-035	0.35	3	38	3
PR-MD/MC-036	0.36	3	38	3
PR-MD/MC-037	0.37	3	38	3
PR-MD/MC-038	0.38	3	38	3
PR-MD/MC-039	0.39	3	38	3
PR-MD/MC-040	0.4	4	38	3
PR-MD/MC-041	0.41	4	38	3
PR-MD/MC-042	0.42	4	38	3
PR-MD/MC-043	0.43	4	38	3
PR-MD/MC-044	0.44	4	38	3
PR-MD/MC-045	0.45	4	38	3
PR-MD/MC-046	0.46	4	38	3
PR-MD/MC-047	0.47	4	38	3
PR-MD/MC-048	0.48	4	38	3
PR-MD/MC-049	0.49	4	38	3
PR-MD/MC-050	0.5	4	38	3

PRODUCT STANDARD

Part No.	DIMENSION			
	D1	L2	L1	D
PR-MD/MC-051	0.51	4	38	3
PR-MD/MC-052	0.52	4	38	3
PR-MD/MC-053	0.53	4	38	3
PR-MD/MC-054	0.54	4	38	3
PR-MD/MC-055	0.55	4	38	3
PR-MD/MC-056	0.556	5	38	3
PR-MD/MC-057	0.57	5	38	3
PR-MD/MC-058	0.584	5	38	3
PR-MD/MC-059	0.59	5	38	3
PR-MD/MC-060	0.6	6	38	3
PR-MD/MC-061	0.614	6	38	3
PR-MD/MC-062	0.62	6	38	3
PR-MD/MC-063	0.626	6	38	3
PR-MD/MC-064	0.642	6	38	3
PR-MD/MC-065	0.65	6	38	3
PR-MD/MC-066	0.66	6	38	3
PR-MD/MC-067	0.67	6	38	3
PR-MD/MC-068	0.68	6	38	3
PR-MD/MC-069	0.69	6	38	3
PR-MD/MC-070	0.7	6	38	3
PR-MD/MC-071	0.71	6	38	3
PR-MD/MC-072	0.72	6	38	3
PR-MD/MC-073	0.73	6	38	3
PR-MD/MC-074	0.74	6	38	3
PR-MD/MC-075	0.75	6	38	3
PR-MD/MC-076	0.76	6	38	3
PR-MD/MC-077	0.77	6	38	3
PR-MD/MC-078	0.78	6	38	3
PR-MD/MC-079	0.79	6	38	3
PR-MD/MC-080	0.8	6	38	3
PR-MD/MC-081	0.81	6	38	3
PR-MD/MC-082	0.82	6	38	3
PR-MD/MC-083	0.83	6	38	3
PR-MD/MC-084	0.84	6	38	3
PR-MD/MC-085	0.85	6	38	3
PR-MD/MC-086	0.86	6	38	3
PR-MD/MC-087	0.87	6	38	3
PR-MD/MC-088	0.88	6	38	3
PR-MD/MC-089	0.89	6	38	3
PR-MD/MC-090	0.9	6	38	3
PR-MD/MC-091	0.91	6	38	3
PR-MD/MC-092	0.92	6	38	3
PR-MD/MC-093	0.93	6	38	3
PR-MD/MC-094	0.94	6	38	3
PR-MD/MC-095	0.95	6	38	3
PR-MD/MC-096	0.96	6	38	3
PR-MD/MC-097	0.97	6	38	3
PR-MD/MC-098	0.98	6	38	3
PR-MD/MC-099	0.99	6	38	3
PR-MD/MC-100	1	7	38	3
PR-MD/MC-101	1.01	7	38	3
PR-MD/MC-102	1.02	7	38	3
PR-MD/MC-103	1.03	7	38	3
PR-MD/MC-104	1.04	7	38	3

PRODUCT STANDARD

Part No.	DIMENSION			
	D1	L2	L1	D
PR-MD/MC-105	1.05	7	38	3
PR-MD/MC-106	1.06	7	38	3
PR-MD/MC-107	1.07	7	38	3
PR-MD/MC-108	1.08	7	38	3
PR-MD/MC-109	1.09	7	38	3
PR-MD/MC-110	1.1	7	38	3
PR-MD/MC-111	1.11	7	38	3
PR-MD/MC-112	1.12	7	38	3
PR-MD/MC-113	1.13	7	38	3
PR-MD/MC-114	1.14	7	38	3
PR-MD/MC-115	1.15	7	38	3
PR-MD/MC-116	1.16	7	38	3
PR-MD/MC-117	1.17	7	38	3
PR-MD/MC-118	1.18	7	38	3
PR-MD/MC-119	1.19	7	38	3
PR-MD/MC-120	1.2	7	38	3
PR-MD/MC-121	1.21	7	38	3
PR-MD/MC-122	1.22	7	38	3
PR-MD/MC-123	1.23	7	38	3
PR-MD/MC-124	1.24	7	38	3
PR-MD/MC-125	1.25	8	38	3
PR-MD/MC-126	1.26	8	38	3
PR-MD/MC-127	1.27	8	38	3
PR-MD/MC-128	1.28	8	38	3
PR-MD/MC-129	1.29	8	38	3
PR-MD/MC-130	1.3	8	38	3
PR-MD/MC-131	1.31	8	38	3
PR-MD/MC-132	1.32	8	38	3
PR-MD/MC-133	1.33	8	38	3
PR-MD/MC-134	1.34	8	38	3
PR-MD/MC-135	1.35	8	38	3
PR-MD/MC-136	1.36	8	38	3
PR-MD/MC-137	1.37	8	38	3
PR-MD/MC-138	1.38	8	38	3
PR-MD/MC-139	1.39	8	38	3
PR-MD/MC-140	1.4	8	38	3
PR-MD/MC-141	1.41	8	38	3
PR-MD/MC-142	1.42	8	38	3
PR-MD/MC-143	1.43	8	38	3
PR-MD/MC-144	1.44	8	38	3
PR-MD/MC-145	1.45	8	38	3
PR-MD/MC-146	1.46	8	38	3
PR-MD/MC-147	1.47	8	38	3
PR-MD/MC-148	1.48	8	38	3
PR-MD/MC-149	1.49	8	38	3
PR-MD/MC-150	1.5	8	38	3
PR-MD/MC-151	1.51	8	38	3
PR-MD/MC-152	1.52	8	38	3
PR-MD/MC-153	1.53	8	38	3
PR-MD/MC-154	1.54	8	38	3
PR-MD/MC-155	1.55	8	38	3
PR-MD/MC-156	1.56	8	38	3
PR-MD/MC-157	1.57	8	38	3
PR-MD/MC-158	1.58	8	38	3

PRODUCT STANDARD

Part No.	DIMENSION			
	D1	L2	L1	D
PR-MD/MC-159	1.59	8	38	3
PR-MD/MC-160	1.6	9	38	3
PR-MD/MC-161	1.61	9	38	3
PR-MD/MC-162	1.62	9	38	3
PR-MD/MC-163	1.63	9	38	3
PR-MD/MC-164	1.64	9	38	3
PR-MD/MC-165	1.65	9	38	3
PR-MD/MC-166	1.66	9	38	3
PR-MD/MC-167	1.67	9	38	3
PR-MD/MC-168	1.68	9	38	3
PR-MD/MC-169	1.69	9	38	3
PR-MD/MC-170	1.7	9	38	3
PR-MD/MC-171	1.71	9	38	3
PR-MD/MC-172	1.72	9	38	3
PR-MD/MC-173	1.73	9	38	3
PR-MD/MC-174	1.74	9	38	3
PR-MD/MC-175	1.75	9	38	3
PR-MD/MC-176	1.76	9	38	3
PR-MD/MC-177	1.77	9	38	3
PR-MD/MC-178	1.78	9	38	3
PR-MD/MC-179	1.79	9	38	3
PR-MD/MC-180	1.8	10	38	3
PR-MD/MC-181	1.81	10	38	3
PR-MD/MC-182	1.82	10	38	3
PR-MD/MC-183	1.83	10	38	3
PR-MD/MC-184	1.84	10	38	3
PR-MD/MC-185	1.85	10	38	3
PR-MD/MC-186	1.86	10	38	3
PR-MD/MC-187	1.87	10	38	3
PR-MD/MC-188	1.88	10	38	3
PR-MD/MC-189	1.89	10	38	3
PR-MD/MC-190	1.9	10	38	3
PR-MD/MC-191	1.91	10	38	3
PR-MD/MC-192	1.92	10	38	3
PR-MD/MC-193	1.93	10	38	3
PR-MD/MC-194	1.94	10	38	3
PR-MD/MC-195	1.95	10	38	3
PR-MD/MC-196	1.96	10	38	3
PR-MD/MC-197	1.97	10	38	3
PR-MD/MC-198	1.98	10	38	3
PR-MD/MC-199	1.99	10	38	3
PR-MD/MC-200	2	12	38	3
PR-MD/MC-201	2.01	12	38	3
PR-MD/MC-202	2.02	12	38	3
PR-MD/MC-203	2.03	12	38	3
PR-MD/MC-204	2.04	12	38	3
PR-MD/MC-205	2.05	12	38	3
PR-MD/MC-206	2.06	12	38	3
PR-MD/MC-207	2.07	12	38	3
PR-MD/MC-208	2.08	12	38	3
PR-MD/MC-209	2.09	12	38	3
PR-MD/MC-210	2.1	12	38	3
PR-MD/MC-211	2.11	12	38	3
PR-MD/MC-212	2.12	12	38	3

PRODUCT STANDARD

Part No.	DIMENSION			
	D1	L2	L1	D
PR-MD/MC-213	2.13	12	38	3
PR-MD/MC-214	2.14	12	38	3
PR-MD/MC-215	2.15	12	38	3
PR-MD/MC-216	2.16	12	38	3
PR-MD/MC-217	2.17	12	38	3
PR-MD/MC-218	2.18	12	38	3
PR-MD/MC-219	2.19	12	38	3
PR-MD/MC-220	2.2	12	38	3
PR-MD/MC-221	2.21	12	38	3
PR-MD/MC-222	2.22	12	38	3
PR-MD/MC-223	2.23	12	38	3
PR-MD/MC-224	2.24	12	38	3
PR-MD/MC-225	2.25	12	38	3
PR-MD/MC-226	2.26	12	38	3
PR-MD/MC-227	2.27	12	38	3
PR-MD/MC-228	2.28	12	38	3
PR-MD/MC-229	2.29	12	38	3
PR-MD/MC-230	2.3	12	38	3
PR-MD/MC-231	2.31	12	38	3
PR-MD/MC-232	2.32	12	38	3
PR-MD/MC-233	2.33	12	38	3
PR-MD/MC-234	2.34	12	38	3
PR-MD/MC-235	2.35	12	38	3
PR-MD/MC-236	2.36	12	38	3
PR-MD/MC-237	2.37	12	38	3
PR-MD/MC-238	2.38	12	38	3
PR-MD/MC-239	2.39	12	38	3
PR-MD/MC-240	2.4	12	38	3
PR-MD/MC-241	2.41	12	38	3
PR-MD/MC-242	2.42	12	38	3
PR-MD/MC-243	2.43	12	38	3
PR-MD/MC-244	2.44	12	38	3
PR-MD/MC-245	2.45	12	38	3
PR-MD/MC-246	2.46	12	38	3
PR-MD/MC-247	2.47	12	38	3
PR-MD/MC-248	2.48	12	38	3
PR-MD/MC-249	2.49	12	38	3
PR-MD/MC-250	2.5	12	38	3
PR-MD/MC-251	2.51	12	38	3
PR-MD/MC-252	2.52	12	38	3
PR-MD/MC-253	2.53	12	38	3
PR-MD/MC-254	2.54	12	38	3
PR-MD/MC-255	2.55	12	38	3
PR-MD/MC-256	2.56	12	38	3
PR-MD/MC-257	2.57	12	38	3
PR-MD/MC-258	2.58	12	38	3
PR-MD/MC-259	2.59	12	38	3
PR-MD/MC-260	2.6	12	38	3
PR-MD/MC-261	2.61	12	38	3
PR-MD/MC-262	2.62	12	38	3
PR-MD/MC-263	2.63	12	38	3
PR-MD/MC-264	2.64	12	38	3
PR-MD/MC-265	2.65	12	38	3
PR-MD/MC-266	2.66	12	38	3

PRODUCT STANDARD

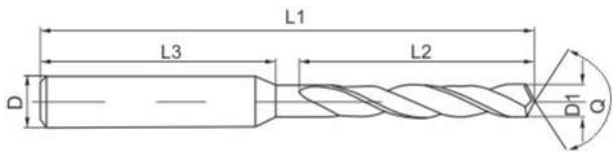
Part No.	DIMENSION			
	D1	L2	L1	D
PR-MD/MC-267	2.67	12	38	3
PR-MD/MC-268	2.68	12	38	3
PR-MD/MC-269	2.69	12	38	3
PR-MD/MC-270	2.7	12	38	3
PR-MD/MC-271	2.71	12	38	3
PR-MD/MC-272	2.72	12	38	3
PR-MD/MC-273	2.73	12	38	3
PR-MD/MC-274	2.74	12	38	3
PR-MD/MC-275	2.75	12	38	3
PR-MD/MC-276	2.76	12	38	3
PR-MD/MC-277	2.77	12	38	3
PR-MD/MC-278	2.78	12	38	3
PR-MD/MC-279	2.79	12	38	3
PR-MD/MC-280	2.8	12	38	3
PR-MD/MC-281	2.81	12	38	3
PR-MD/MC-282	2.82	12	38	3
PR-MD/MC-283	2.83	12	38	3
PR-MD/MC-284	2.84	12	38	3
PR-MD/MC-285	2.85	12	38	3
PR-MD/MC-286	2.86	12	38	3
PR-MD/MC-287	2.87	12	38	3
PR-MD/MC-288	2.88	12	38	3
PR-MD/MC-289	2.89	12	38	3
PR-MD/MC-290	2.9	12	38	3
PR-MD/MC-291	2.91	12	38	3
PR-MD/MC-292	2.92	12	38	3
PR-MD/MC-293	2.93	12	38	3
PR-MD/MC-294	2.94	12	38	3
PR-MD/MC-295	2.95	12	38	3
PR-MD/MC-296	2.96	12	38	3
PR-MD/MC-297	2.97	12	38	3
PR-MD/MC-298	2.98	12	38	3
PR-MD/MC-299	2.99	12	38	3
PR-MD/MC-300	3	12	38	3

PRODUCT STANDARD

PR-EA/EG EXTENSION SERIES

EA-Applicable materials : aluminium , non-ferrous metal, non-metallic. (Uncoated tools)

EG-Applicable materials : carbon steel , alloy steel, quenched and tempered steel , sus
 , mould steel,other steel,ductile iron.



Part No.	DIMENSION			
	D1	L2	L1	D
PR-EA/EG-050A	0.5	10	50	4
PR-EA/EG-050B	0.5	15	50	4
PR-EA/EG-060A	0.6	10	50	4
PR-EA/EG-060B	0.6	15	50	4
PR-EA/EG-070A	0.7	10	50	4
PR-EA/EG-070B	0.7	15	50	4
PR-EA/EG-075	0.75	10	50	4
PR-EA/EG-080A	0.8	10	50	4
PR-EA/EG-080B	0.8	15	50	4
PR-EA/EG-085	0.85	10	50	4
PR-EA/EG-088	0.88	10	50	4
PR-EA/EG-089	0.89	10	50	4
PR-EA/EG-090A	0.9	10	50	4
PR-EA/EG-090B	0.9	15	50	4
PR-EA/EG-095A	0.95	10	50	4
PR-EA/EG-095B	0.95	15	50	4
PR-EA/EG-100A	1	10	50	4
PR-EA/EG-100B	1	12	50	4
PR-EA/EG-100C	1	15	50	4
PR-EA/EG-100D	1	20	50	4
PR-EA/EG-105A	1.05	10	50	4
PR-EA/EG-105B	1.05	15	50	4
PR-EA/EG-108A	1.08	10	50	4
PR-EA/EG-108B	1.08	15	50	4
PR-EA/EG-110	1.1	15	50	4
PR-EA/EG-115A	1.15	15	50	4
PR-EA/EG-115B	1.15	20	50	4
PR-EA/EG-120A	1.2	12	50	4
PR-EA/EG-120B	1.2	15	50	4
PR-EA/EG-125A	1.25	12	50	4
PR-EA/EG-125B	1.25	15	50	4

PRODUCT STANDARD

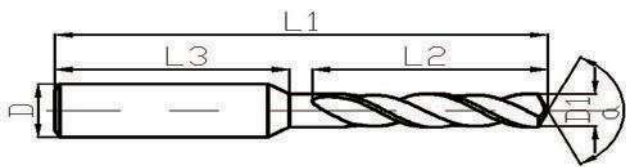
Part No.	DIMENSION			
	D1	L2	L1	D
PR-EA/EG-125C	1.25	20	50	4
PR-EA/EG-130	1.3	15	50	4
PR-EA/EG-135	1.35	15	50	4
PR-EA/EG-140	1.4	15	50	4
PR-EA/EG-145A	1.45	12	50	4
PR-EA/EG-145B	1.45	15	50	4
PR-EA/EG-145C	1.45	20	50	4
PR-EA/EG-150A	1.5	12	50	4
PR-EA/EG-150B	1.5	15	50	4
PR-EA/EG-150C	1.5	20	50	4
PR-EA/EG-160A	1.6	15	50	4
PR-EA/EG-160B	1.6	20	50	4
PR-EA/EG-165	1.65	20	50	4
PR-EA/EG-170A	1.7	15	50	4
PR-EA/EG-170B	1.7	20	50	4
PR-EA/EG-175A	1.75	15	50	4
PR-EA/EG-175B	1.75	20	50	4
PR-EA/EG-180A	1.8	15	50	4
PR-EA/EG-180B	1.8	20	50	4
PR-EA/EG-182	1.82	20	50	4
PR-EA/EG-185A	1.85	15	50	4
PR-EA/EG-185B	1.85	20	50	4
PR-EA/EG-190A	1.9	15	50	4
PR-EA/EG-190B	1.9	20	50	4
PR-EA/EG-200A	2	15	50	4
PR-EA/EG-200B	2	20	50	4
PR-EA/EG-200C	2	25	75	4
PR-EA/EG-210A	2.1	20	50	4
PR-EA/EG-210B	2.1	25	75	4
PR-EA/EG-220A	2.2	20	50	4
PR-EA/EG-220B	2.2	25	75	4
PR-EA/EG-230A	2.3	20	50	4
PR-EA/EG-230B	2.3	25	75	4
PR-EA/EG-240A	2.4	20	50	4
PR-EA/EG-240B	2.4	25	75	4
PR-EA/EG-250A	2.5	20	50	4
PR-EA/EG-250B	2.5	25	75	4
PR-EA/EG-250C	2.5	30	75	4
PR-EA/EG-260A	2.6	20	50	4
PR-EA/EG-260B	2.6	30	75	4
PR-EA/EG-270A	2.7	20	50	4
PR-EA/EG-270B	2.7	30	75	4
PR-EA/EG-275A	2.75	20	50	4
PR-EA/EG-275B	2.75	30	75	4
PR-EA/EG-280A	2.8	20	50	4
PR-EA/EG-280B	2.8	30	75	4
PR-EA/EG-290A	2.9	20	50	4
PR-EA/EG-290B	2.9	30	75	4
PR-EA/EG-300A	3	20	50	4
PR-EA/EG-300B	3	30	75	4
PR-EA/EG-300C	3	40	75	4
PR-EA/EG-310	3.1	33	75	4
PR-EA/EG-320	3.2	33	75	4
PR-EA/EG-330	3.3	36	75	4

PRODUCT STANDARD

Part No.	DIMENSION			
	D1	L2	L1	D
PR-EA/EG-340	3.4	36	75	4
PR-EA/EG-350	3.5	36	75	4
PR-EA/EG-360	3.6	40	75	4
PR-EA/EG-370	3.7	40	75	4
PR-EA/EG-380	3.8	40	75	4
PR-EA/EG-390	3.9	40	75	4
PR-EA/EG-400A	4	30	75	4
PR-EA/EG-400B	4	40	75	4
PR-EA/EG-401C	4	50	100	4
PR-EA/EG-410	4.1	45	100	6
PR-EA/EG-420	4.2	45	100	6
PR-EA/EG-430	4.3	45	100	6
PR-EA/EG-440	4.4	45	100	6
PR-EA/EG-450	4.5	50	100	6
PR-EA/EG-460	4.6	50	100	6
PR-EA/EG-470	4.7	50	100	6
PR-EA/EG-480	4.8	50	100	6
PR-EA/EG-490	4.9	50	100	6
PR-EA/EG-500A	5	40	100	6
PR-EA/EG-500B	5	50	100	6
PR-EA/EG-510	5.1	50	100	6
PR-EA/EG-520	5.2	50	100	6
PR-EA/EG-530	5.3	50	100	6
PR-EA/EG-540	5.4	50	100	6
PR-EA/EG-550	5.5	50	100	6
PR-EA/EG-560	5.6	50	100	6
PR-EA/EG-570	5.7	50	100	6
PR-EA/EG-580	5.8	50	100	6
PR-EA/EG-590	5.9	50	100	6
PR-EA/EG-600A	6	50	100	6
PR-EA/EG-600B	6	60	100	6

PR-BG 3XD SERIES STEP 0.1MM

Applicable materials : carbon steel , alloy steel , quenchedandtempered steel ,
mould steel , other steel , ductile iron.



Part No.	DIMENSION			
	D1	L2	L1	D
PR-BG-300	3	20	62	4
PR-BG-310	3.1	20	62	4
PR-BG-320	3.2	20	62	4
PR-BG-330	3.3	20	62	4
PR-BG-340	3.4	20	62	4
PR-BG-350	3.5	20	62	4
PR-BG-360	3.6	20	62	4
PR-BG-370	3.7	20	62	4
PR-BG-380	3.8	24	66	4
PR-BG-390	3.9	24	66	4
PR-BG-400	4	24	66	4
PR-BG-410	4.1	24	66	6
PR-BG-420	4.2	24	66	6
PR-BG-430	4.3	24	66	6
PR-BG-440	4.4	24	66	6
PR-BG-450	4.5	24	66	6
PR-BG-460	4.6	24	66	6
PR-BG-470	4.7	28	66	6
PR-BG-480	4.8	28	66	6
PR-BG-490	4.9	28	66	6
PR-BG-500	5	28	66	6
PR-BG-510	5.1	28	66	6
PR-BG-520	5.2	28	66	6
PR-BG-530	5.3	28	66	6
PR-BG-540	5.4	28	66	6
PR-BG-550	5.5	28	66	6
PR-BG-560	5.6	28	66	6
PR-BG-570	5.7	28	66	6
PR-BG-580	5.8	28	66	6
PR-BG-590	5.9	28	66	6
PR-BG-600	6	28	66	6

DIN STANDARD

Part No.	DIMENSION			
	D1	L2	L1	D
PR-BG-610	6.1	34	79	8
PR-BG-620	6.2	34	79	8
PR-BG-630	6.3	34	79	8
PR-BG-640	6.4	34	79	8
PR-BG-650	6.5	34	79	8
PR-BG-660	6.6	34	79	8
PR-BG-670	6.7	34	79	8
PR-BG-680	6.8	34	79	8
PR-BG-690	6.9	34	79	8
PR-BG-700	7	34	79	8
PR-BG-710	7.1	41	79	8
PR-BG-720	7.2	41	79	8
PR-BG-730	7.3	41	79	8
PR-BG-740	7.4	41	79	8
PR-BG-750	7.5	41	79	8
PR-BG-760	7.6	41	79	8
PR-BG-770	7.7	41	79	8
PR-BG-780	7.8	41	79	8
PR-BG-790	7.9	41	79	8
PR-BG-800	8	41	79	8
PR-BG-810	8.1	47	89	10
PR-BG-820	8.2	47	89	10
PR-BG-830	8.3	47	89	10
PR-BG-840	8.4	47	89	10
PR-BG-850	8.5	47	89	10
PR-BG-860	8.6	47	89	10
PR-BG-870	8.7	47	89	10
PR-BG-880	8.8	47	89	10
PR-BG-890	8.9	47	89	10
PR-BG-900	9	47	89	10
PR-BG-910	9.1	47	89	10
PR-BG-920	9.2	47	89	10
PR-BG-930	9.3	47	89	10
PR-BG-940	9.4	47	89	10
PR-BG-950	9.5	47	89	10
PR-BG-960	9.6	47	89	10
PR-BG-970	9.7	47	89	10
PR-BG-980	9.8	47	89	10
PR-BG-990	9.9	47	89	10
PR-BG-1000	10	47	89	10
PR-BG-1010	10.1	55	102	12
PR-BG-1020	10.2	55	102	12
PR-BG-1030	10.3	55	102	12
PR-BG-1040	10.4	55	102	12
PR-BG-1050	10.5	55	102	12
PR-BG-1060	10.6	55	102	12
PR-BG-1070	10.7	55	102	12
PR-BG-1080	10.8	55	102	12
PR-BG-1090	10.9	55	102	12
PR-BG-1100	11	55	102	12
PR-BG-1110	11.1	55	102	12
PR-BG-1120	11.2	55	102	12
PR-BG-1130	11.3	55	102	12
PR-BG-1140	11.4	55	102	12

DIN STANDARD

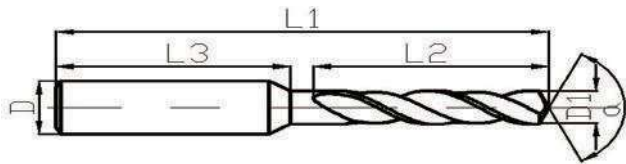
Part No.	DIMENSION			
	D1	L2	L1	D
PR-BG-1150	11.5	55	102	12
PR-BG-1160	11.6	55	102	12
PR-BG-1170	11.7	55	102	12
PR-BG-1180	11.8	55	102	12
PR-BG-1190	11.9	55	102	12
PR-BG-1200	12	55	102	12
PR-BG-1210	12.1	60	107	14
PR-BG-1220	12.2	60	107	14
PR-BG-1230	12.3	60	107	14
PR-BG-1240	12.4	60	107	14
PR-BG-1250	12.5	60	107	14
PR-BG-1260	12.6	60	107	14
PR-BG-1270	12.7	60	107	14
PR-BG-1280	12.8	60	107	14
PR-BG-1290	12.9	60	107	14
PR-BG-1300	13	60	107	14
PR-BG-1310	13.1	60	107	14
PR-BG-1320	13.2	60	107	14
PR-BG-1330	13.3	60	107	14
PR-BG-1340	13.4	60	107	14
PR-BG-1350	13.5	60	107	14
PR-BG-1360	13.6	60	107	14
PR-BG-1370	13.7	60	107	14
PR-BG-1380	13.8	60	107	14
PR-BG-1390	13.9	60	107	14
PR-BG-1400	14	60	107	14
PR-BG-1410	14.1	65	115	16
PR-BG-1420	14.2	65	115	16
PR-BG-1430	14.3	65	115	16
PR-BG-1440	14.4	65	115	16
PR-BG-1450	14.5	65	115	16
PR-BG-1460	14.6	65	115	16
PR-BG-1470	14.7	65	115	16
PR-BG-1480	14.8	65	115	16
PR-BG-1490	14.9	65	115	16
PR-BG-1500	15	65	115	16
PR-BG-1510	15.1	65	115	16
PR-BG-1520	15.2	65	115	16
PR-BG-1530	15.3	65	115	16
PR-BG-1540	15.4	65	115	16
PR-BG-1550	15.5	65	115	16
PR-BG-1560	15.6	65	115	16
PR-BG-1570	15.7	65	115	16
PR-BG-1580	15.8	65	115	16
PR-BG-1590	15.9	65	115	16
PR-BG-1600	16	65	115	16
PR-BG-1650	16.5	73	123	18
PR-BG-1680	16.8	73	123	18
PR-BG-1700	17	73	123	18
PR-BG-1750	17.5	73	123	18
PR-BG-1780	17.8	73	123	18
PR-BG-1800	18	73	123	18
PR-BG-1900	19	79	131	20
PR-BG-1950	19.5	79	131	20

DIN STANDARD

Part No.	DIMENSION			
	D1	L2	L1	D
PR-BG-1980	19.8	79	131	20
PR-BG-2000	20	79	131	20
PR-BG-2050	20.5	79	131	22
PR-BG-2100	21	79	131	22
PR-BG-2150	21.5	79	131	22
PR-BG-2200	22	79	131	22
PR-BG-2250	22.5	96	153	24
PR-BG-2300	23	96	153	24
PR-BG-2350	23.5	96	153	24
PR-BG-2400	24	96	153	24
PR-BG-2450	24.5	96	153	25
PR-BG-2500	25	96	153	25

PRC-SG 3XD SERIES STEP 0.1MM INNER-COOLANT

Applicable materials : carbon steel , alloy steel , quenchedandtempered steel ,
mould steel , other steel , ductile iron.



Part No.	DIMENSION			
	D1	L2	L1	D
PRC-SG-300	3	20	62	4
PRC-SG-310	3.1	20	62	4
PRC-SG-320	3.2	20	62	4
PRC-SG-330	3.3	20	62	4
PRC-SG-340	3.4	20	62	4
PRC-SG-350	3.5	20	62	4
PRC-SG-360	3.6	20	62	4
PRC-SG-370	3.7	20	62	4
PRC-SG-380	3.8	24	66	4
PRC-SG-390	3.9	24	66	4
PRC-SG-400	4	24	66	4
PRC-SG-410	4.1	24	66	6
PRC-SG-420	4.2	24	66	6

DIN STANDARD

Part No.	DIMENSION			
	D1	L2	L1	D
PRC-SG-430	4.3	24	66	6
PRC-SG-440	4.4	24	66	6
PRC-SG-450	4.5	24	66	6
PRC-SG-460	4.6	24	66	6
PRC-SG-470	4.7	28	66	6
PRC-SG-480	4.8	28	66	6
PRC-SG-490	4.9	28	66	6
PRC-SG-500	5	28	66	6
PRC-SG-510	5.1	28	66	6
PRC-SG-520	5.2	28	66	6
PRC-SG-530	5.3	28	66	6
PRC-SG-540	5.4	28	66	6
PRC-SG-550	5.5	28	66	6
PRC-SG-560	5.6	28	66	6
PRC-SG-570	5.7	28	66	6
PRC-SG-580	5.8	28	66	6
PRC-SG-590	5.9	28	66	6
PRC-SG-600	6	28	66	6
PRC-SG-610	6.1	34	79	8
PRC-SG-620	6.2	34	79	8
PRC-SG-630	6.3	34	79	8
PRC-SG-640	6.4	34	79	8
PRC-SG-650	6.5	34	79	8
PRC-SG-660	6.6	34	79	8
PRC-SG-670	6.7	34	79	8
PRC-SG-680	6.8	34	79	8
PRC-SG-690	6.9	34	79	8
PRC-SG-700	7	34	79	8
PRC-SG-710	7.1	41	79	8
PRC-SG-720	7.2	41	79	8
PRC-SG-730	7.3	41	79	8
PRC-SG-740	7.4	41	79	8
PRC-SG-750	7.5	41	79	8
PRC-SG-760	7.6	41	79	8
PRC-SG-770	7.7	41	79	8
PRC-SG-780	7.8	41	79	8
PRC-SG-790	7.9	41	79	8
PRC-SG-800	8	41	79	8
PRC-SG-810	8.1	47	89	10
PRC-SG-820	8.2	47	89	10
PRC-SG-830	8.3	47	89	10
PRC-SG-840	8.4	47	89	10
PRC-SG-850	8.5	47	89	10
PRC-SG-860	8.6	47	89	10
PRC-SG-870	8.7	47	89	10
PRC-SG-880	8.8	47	89	10
PRC-SG-890	8.9	47	89	10
PRC-SG-900	9	47	89	10
PRC-SG-910	9.1	47	89	10
PRC-SG-920	9.2	47	89	10
PRC-SG-930	9.3	47	89	10
PRC-SG-940	9.4	47	89	10
PRC-SG-950	9.5	47	89	10
PRC-SG-960	9.6	47	89	10

DIN STANDARD

Part No.	DIMENSION			
	D1	L2	L1	D
PRC-SG-970	9.7	47	89	10
PRC-SG-980	9.8	47	89	10
PRC-SG-990	9.9	47	89	10
PRC-SG-1000	10	47	89	10
PRC-SG-1010	10.1	55	102	12
PRC-SG-1020	10.2	55	102	12
PRC-SG-1030	10.3	55	102	12
PRC-SG-1040	10.4	55	102	12
PRC-SG-1050	10.5	55	102	12
PRC-SG-1060	10.6	55	102	12
PRC-SG-1070	10.7	55	102	12
PRC-SG-1080	10.8	55	102	12
PRC-SG-1090	10.9	55	102	12
PRC-SG-1100	11	55	102	12
PRC-SG-1110	11.1	55	102	12
PRC-SG-1120	11.2	55	102	12
PRC-SG-1130	11.3	55	102	12
PRC-SG-1140	11.4	55	102	12
PRC-SG-1150	11.5	55	102	12
PRC-SG-1160	11.6	55	102	12
PRC-SG-1170	11.7	55	102	12
PRC-SG-1180	11.8	55	102	12
PRC-SG-1190	11.9	55	102	12
PRC-SG-1200	12	55	102	12
PRC-SG-1210	12.1	60	107	14
PRC-SG-1220	12.2	60	107	14
PRC-SG-1230	12.3	60	107	14
PRC-SG-1240	12.4	60	107	14
PRC-SG-1250	12.5	60	107	14
PRC-SG-1260	12.6	60	107	14
PRC-SG-1270	12.7	60	107	14
PRC-SG-1280	12.8	60	107	14
PRC-SG-1290	12.9	60	107	14
PRC-SG-1300	13	60	107	14
PRC-SG-1310	13.1	60	107	14
PRC-SG-1320	13.2	60	107	14
PRC-SG-1330	13.3	60	107	14
PRC-SG-1340	13.4	60	107	14
PRC-SG-1350	13.5	60	107	14
PRC-SG-1360	13.6	60	107	14
PRC-SG-1370	13.7	60	107	14
PRC-SG-1380	13.8	60	107	14
PRC-SG-1390	13.9	60	107	14
PRC-SG-1400	14	60	107	14
PRC-SG-1410	14.1	65	115	16
PRC-SG-1420	14.2	65	115	16
PRC-SG-1430	14.3	65	115	16
PRC-SG-1440	14.4	65	115	16
PRC-SG-1450	14.5	65	115	16
PRC-SG-1460	14.6	65	115	16
PRC-SG-1470	14.7	65	115	16
PRC-SG-1480	14.8	65	115	16
PRC-SG-1490	14.9	65	115	16
PRC-SG-1500	15	65	115	16

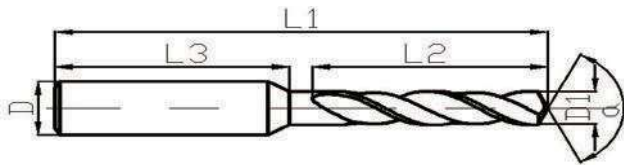
DIN STANDARD

Part No.	DIMENSION			
	D1	L2	L1	D
PRC-SG-1510	15.1	65	115	16
PRC-SG-1520	15.2	65	115	16
PRC-SG-1530	15.3	65	115	16
PRC-SG-1540	15.4	65	115	16
PRC-SG-1550	15.5	65	115	16
PRC-SG-1560	15.6	65	115	16
PRC-SG-1570	15.7	65	115	16
PRC-SG-1580	15.8	65	115	16
PRC-SG-1590	15.9	65	115	16
PRC-SG-1600	16	65	115	16
PRC-SG-1650	16.5	73	123	18
PRC-SG-1680	16.8	73	123	18
PRC-SG-1700	17	73	123	18
PRC-SG-1720	17.2	73	123	18
PRC-SG-1740	17.4	73	123	18
PRC-SG-1760	17.6	73	123	18
PRC-SG-1780	17.8	73	123	18
PRC-SG-1800	18	73	123	18
PRC-SG-1820	18.2	79	131	20
PRC-SG-2000	20	79	131	20
PRC-SG-2050	20.5	79	131	22
PRC-SG-2100	21	79	131	22
PRC-SG-2150	21.5	79	131	22
PRC-SG-2200	22	79	131	22
PRC-SG-2250	22.5	96	153	24
PRC-SG-2300	23	96	153	24
PRC-SG-2350	23.5	96	153	24
PRC-SG-2400	24	96	153	24
PRC-SG-2450	24.5	96	153	25
PRC-SG-2500	25	96	153	25

DIN STANDARD

PR-LG 5XD SERIES STEP 0.1MM

Applicable materials : carbon steel , alloy steel , quenched and tempered steel ,
mould steel, other steel, ductile iron.



Part No.	DIMENSION			
	D1	L2	L1	D
PR-LG-300	3	28	66	4
PR-LG-310	3.1	28	66	4
PR-LG-320	3.2	28	66	4
PR-LG-330	3.3	28	66	4
PR-LG-340	3.4	28	66	4
PR-LG-350	3.5	28	66	4
PR-LG-360	3.6	28	66	4
PR-LG-370	3.7	28	66	4
PR-LG-380	3.8	36	74	4
PR-LG-390	3.9	36	74	4
PR-LG-400	4	36	74	4
PR-LG-410	4.1	36	74	6
PR-LG-420	4.2	36	74	6
PR-LG-430	4.3	36	74	6
PR-LG-440	4.4	36	74	6
PR-LG-450	4.5	36	74	6
PR-LG-460	4.6	36	74	6
PR-LG-470	4.7	44	82	6
PR-LG-480	4.8	44	82	6
PR-LG-490	4.9	44	82	6
PR-LG-500	5	44	82	6
PR-LG-510	5.1	44	82	6
PR-LG-520	5.2	44	82	6
PR-LG-530	5.3	44	82	6
PR-LG-540	5.4	44	82	6
PR-LG-550	5.5	44	82	6
PR-LG-560	5.6	44	82	6
PR-LG-570	5.7	44	82	6
PR-LG-580	5.8	44	82	6
PR-LG-590	5.9	44	82	6
PR-LG-600	6	44	82	6

DIN STANDARD

Part No.	DIMENSION			
	D1	L2	L1	D
PR-LG-610	6.1	53	91	8
PR-LG-620	6.2	53	91	8
PR-LG-630	6.3	53	91	8
PR-LG-640	6.4	53	91	8
PR-LG-650	6.5	53	91	8
PR-LG-660	6.6	53	91	8
PR-LG-670	6.7	53	91	8
PR-LG-680	6.8	53	91	8
PR-LG-690	6.9	53	91	8
PR-LG-700	7	53	91	8
PR-LG-710	7.1	53	91	8
PR-LG-720	7.2	53	91	8
PR-LG-730	7.3	53	91	8
PR-LG-740	7.4	53	91	8
PR-LG-750	7.5	53	91	8
PR-LG-760	7.6	53	91	8
PR-LG-770	7.7	53	91	8
PR-LG-780	7.8	53	91	8
PR-LG-790	7.9	53	91	8
PR-LG-800	8	53	91	8
PR-LG-810	8.1	61	103	10
PR-LG-820	8.2	61	103	10
PR-LG-830	8.3	61	103	10
PR-LG-840	8.4	61	103	10
PR-LG-850	8.5	61	103	10
PR-LG-860	8.6	61	103	10
PR-LG-870	8.7	61	103	10
PR-LG-880	8.8	61	103	10
PR-LG-890	8.9	61	103	10
PR-LG-900	9	61	103	10
PR-LG-910	9.1	61	103	10
PR-LG-920	9.2	61	103	10
PR-LG-930	9.3	61	103	10
PR-LG-940	9.4	61	103	10
PR-LG-950	9.5	61	103	10
PR-LG-960	9.6	61	103	10
PR-LG-970	9.7	61	103	10
PR-LG-980	9.8	61	103	10
PR-LG-990	9.9	61	103	10
PR-LG-1000	10	61	103	10
PR-LG-1010	10.1	71	118	12
PR-LG-1020	10.2	71	118	12
PR-LG-1030	10.3	71	118	12
PR-LG-1040	10.4	71	118	12
PR-LG-1050	10.5	71	118	12
PR-LG-1060	10.6	71	118	12
PR-LG-1070	10.7	71	118	12
PR-LG-1080	10.8	71	118	12
PR-LG-1090	10.9	71	118	12
PR-LG-1100	11	71	118	12
PR-LG-1110	11.1	71	118	12
PR-LG-1120	11.2	71	118	12
PR-LG-1130	11.3	71	118	12
PR-LG-1140	11.4	71	118	12

DIN STANDARD

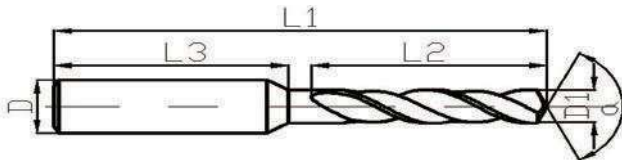
Part No.	DIMENSION			
	D1	L2	L1	D
PR-LG-1150	11.5	71	118	12
PR-LG-1160	11.6	71	118	12
PR-LG-1170	11.7	71	118	12
PR-LG-1180	11.8	71	118	12
PR-LG-1190	11.9	71	118	12
PR-LG-1200	12	71	118	12
PR-LG-1210	12.1	77	124	14
PR-LG-1220	12.2	77	124	14
PR-LG-1230	12.3	77	124	14
PR-LG-1240	12.4	77	124	14
PR-LG-1250	12.5	77	124	14
PR-LG-1260	12.6	77	124	14
PR-LG-1270	12.7	77	124	14
PR-LG-1280	12.8	77	124	14
PR-LG-1290	12.9	77	124	14
PR-LG-1300	13	77	124	14
PR-LG-1310	13.1	77	124	14
PR-LG-1320	13.2	77	124	14
PR-LG-1330	13.3	77	124	14
PR-LG-1340	13.4	77	124	14
PR-LG-1350	13.5	77	124	14
PR-LG-1360	13.6	77	124	14
PR-LG-1370	13.7	77	124	14
PR-LG-1380	13.8	77	124	14
PR-LG-1390	13.9	77	124	14
PR-LG-1400	14	77	124	14
PR-LG-1410	14.1	83	133	16
PR-LG-1420	14.2	83	133	16
PR-LG-1430	14.3	83	133	16
PR-LG-1440	14.4	83	133	16
PR-LG-1450	14.5	83	133	16
PR-LG-1460	14.6	83	133	16
PR-LG-1470	14.7	83	133	16
PR-LG-1480	14.8	83	133	16
PR-LG-1490	14.9	83	133	16
PR-LG-1500	15	83	133	16
PR-LG-1510	15.1	83	133	16
PR-LG-1520	15.2	83	133	16
PR-LG-1530	15.3	83	133	16
PR-LG-1540	15.4	83	133	16
PR-LG-1550	15.5	83	133	16
PR-LG-1560	15.6	83	133	16
PR-LG-1570	15.7	83	133	16
PR-LG-1580	15.8	83	133	16
PR-LG-1590	15.9	83	133	16
PR-LG-1600	16	83	133	16
PR-LG-1650	16.5	101	153	18
PR-LG-1680	16.8	101	153	18
PR-LG-1700	17	101	153	18
PR-LG-1750	17.5	101	153	18
PR-LG-1780	17.8	101	153	18
PR-LG-1800	18	101	153	18
PR-LG-1850	18.5	101	153	20
PR-LG-1880	18.8	101	153	20

DIN STANDARD

Part No.	DIMENSION			
	D1	L2	L1	D
PR-LG-1900	19	101	153	20
PR-LG-1950	19.5	101	153	20
PR-LG-1980	19.8	101	153	20
PR-LG-2000	20	101	153	20
PR-LG-2050	20.5	135	200	22
PR-LG-2100	21	135	200	22
PR-LG-2150	21.5	135	200	22
PR-LG-2200	22	135	200	22
PR-LG-2250	22.5	140	200	24
PR-LG-2300	23	140	200	24
PR-LG-2350	23.5	140	200	24
PR-LG-2400	24	140	200	24
PR-LG-2450	24.5	140	200	25
PR-LG-2500	25	140	200	25

PRC-XG 5XD SERIES STEP 0.1MM INNER-COOLANT

Applicable materials : carbon steel , alloy steel , quenched and tempered steel ,
mould steel, other steel, ductile iron.



Part No.	DIMENSION			
	D1	L2	L1	D
PRC-XG-300	3	28	66	4
PRC-XG-310	3.1	28	66	4
PRC-XG-320	3.2	28	66	4
PRC-XG-330	3.3	28	66	4
PRC-XG-340	3.4	28	66	4
PRC-XG-350	3.5	28	66	4
PRC-XG-360	3.6	28	66	4
PRC-XG-370	3.7	28	66	4
PRC-XG-380	3.8	36	74	4
PRC-XG-390	3.9	36	74	4
PRC-XG-400	4	36	74	4

DIN STANDARD

Part No.	DIMENSION			
	D1	L2	L1	D
PRC-XG-410	4.1	36	74	6
PRC-XG-420	4.2	36	74	6
PRC-XG-430	4.3	36	74	6
PRC-XG-440	4.4	36	74	6
PRC-XG-450	4.5	36	74	6
PRC-XG-460	4.6	36	74	6
PRC-XG-470	4.7	44	82	6
PRC-XG-480	4.8	44	82	6
PRC-XG-490	4.9	44	82	6
PRC-XG-500	5	44	82	6
PRC-XG-510	5.1	44	82	6
PRC-XG-520	5.2	44	82	6
PRC-XG-530	5.3	44	82	6
PRC-XG-540	5.4	44	82	6
PRC-XG-550	5.5	44	82	6
PRC-XG-560	5.6	44	82	6
PRC-XG-570	5.7	44	82	6
PRC-XG-580	5.8	44	82	6
PRC-XG-590	5.9	44	82	6
PRC-XG-600	6	44	82	6
PRC-XG-610	6.1	53	91	8
PRC-XG-620	6.2	53	91	8
PRC-XG-630	6.3	53	91	8
PRC-XG-640	6.4	53	91	8
PRC-XG-650	6.5	53	91	8
PRC-XG-660	6.6	53	91	8
PRC-XG-670	6.7	53	91	8
PRC-XG-680	6.8	53	91	8
PRC-XG-690	6.9	53	91	8
PRC-XG-700	7	53	91	8
PRC-XG-710	7.1	53	91	8
PRC-XG-720	7.2	53	91	8
PRC-XG-730	7.3	53	91	8
PRC-XG-740	7.4	53	91	8
PRC-XG-750	7.5	53	91	8
PRC-XG-760	7.6	53	91	8
PRC-XG-770	7.7	53	91	8
PRC-XG-780	7.8	53	91	8
PRC-XG-790	7.9	53	91	8
PRC-XG-800	8	53	91	8
PRC-XG-810	8.1	61	103	10
PRC-XG-820	8.2	61	103	10
PRC-XG-830	8.3	61	103	10
PRC-XG-840	8.4	61	103	10
PRC-XG-850	8.5	61	103	10
PRC-XG-860	8.6	61	103	10
PRC-XG-870	8.7	61	103	10
PRC-XG-880	8.8	61	103	10
PRC-XG-890	8.9	61	103	10
PRC-XG-900	9	61	103	10
PRC-XG-910	9.1	61	103	10
PRC-XG-920	9.2	61	103	10
PRC-XG-930	9.3	61	103	10
PRC-XG-940	9.4	61	103	10

DIN STANDARD

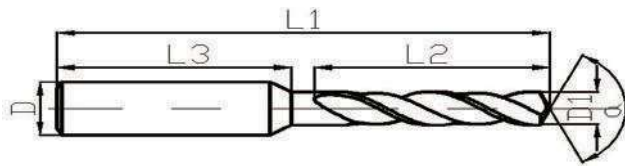
Part No.	DIMENSION			
	D1	L2	L1	D
PRC-XG-950	9.5	61	103	10
PRC-XG-960	9.6	61	103	10
PRC-XG-970	9.7	61	103	10
PRC-XG-980	9.8	61	103	10
PRC-XG-990	9.9	61	103	10
PRC-XG-1000	10	61	103	10
PRC-XG-1010	10.1	71	118	12
PRC-XG-1020	10.2	71	118	12
PRC-XG-1030	10.3	71	118	12
PRC-XG-1040	10.4	71	118	12
PRC-XG-1050	10.5	71	118	12
PRC-XG-1060	10.6	71	118	12
PRC-XG-1070	10.7	71	118	12
PRC-XG-1080	10.8	71	118	12
PRC-XG-1090	10.9	71	118	12
PRC-XG-1100	11	71	118	12
PRC-XG-1110	11.1	71	118	12
PRC-XG-1120	11.2	71	118	12
PRC-XG-1130	11.3	71	118	12
PRC-XG-1140	11.4	71	118	12
PRC-XG-1150	11.5	71	118	12
PRC-XG-1160	11.6	71	118	12
PRC-XG-1170	11.7	71	118	12
PRC-XG-1180	11.8	71	118	12
PRC-XG-1190	11.9	71	118	12
PRC-XG-1200	12	71	118	12
PRC-XG-1210	12.1	77	124	14
PRC-XG-1220	12.2	77	124	14
PRC-XG-1230	12.3	77	124	14
PRC-XG-1240	12.4	77	124	14
PRC-XG-1250	12.5	77	124	14
PRC-XG-1260	12.6	77	124	14
PRC-XG-1270	12.7	77	124	14
PRC-XG-1280	12.8	77	124	14
PRC-XG-1290	12.9	77	124	14
PRC-XG-1300	13	77	124	14
PRC-XG-1310	13.1	77	124	14
PRC-XG-1320	13.2	77	124	14
PRC-XG-1330	13.3	77	124	14
PRC-XG-1340	13.4	77	124	14
PRC-XG-1350	13.5	77	124	14
PRC-XG-1360	13.6	77	124	14
PRC-XG-1370	13.7	77	124	14
PRC-XG-1380	13.8	77	124	14
PRC-XG-1390	13.9	77	124	14
PRC-XG-1400	14	77	124	14
PRC-XG-1410	14.1	83	133	16
PRC-XG-1420	14.2	83	133	16
PRC-XG-1430	14.3	83	133	16
PRC-XG-1440	14.4	83	133	16
PRC-XG-1450	14.5	83	133	16
PRC-XG-1460	14.6	83	133	16
PRC-XG-1470	14.7	83	133	16
PRC-XG-1480	14.8	83	133	16

DIN STANDARD

Part No.	DIMENSION			
	D1	L2	L1	D
PRC-XG-1490	14.9	83	133	16
PRC-XG-1500	15	83	133	16
PRC-XG-1510	15.1	83	133	16
PRC-XG-1520	15.2	83	133	16
PRC-XG-1530	15.3	83	133	16
PRC-XG-1540	15.4	83	133	16
PRC-XG-1550	15.5	83	133	16
PRC-XG-1560	15.6	83	133	16
PRC-XG-1570	15.7	83	133	16
PRC-XG-1580	15.8	83	133	16
PRC-XG-1590	15.9	83	133	16
PRC-XG-1600	16	83	133	16
PRC-XG-1650	16.5	101	153	18
PRC-XG-1680	16.8	101	153	18
PRC-XG-1700	17	101	153	18
PRC-XG-1750	17.5	101	153	18
PRC-XG-1780	17.8	101	153	18
PRC-XG-1800	18	101	153	18
PRC-XG-1850	18.5	101	153	20
PRC-XG-1880	18.8	101	153	20
PRC-XG-1900	19	101	153	20
PRC-XG-1950	19.5	101	153	20
PRC-XG-1980	19.8	101	153	20
PRC-XG-2000	20	101	153	20
PRC-XG-2050	20.5	135	200	22
PRC-XG-2100	21	135	200	22
PRC-XG-2150	21.5	135	200	22
PRC-XG-2200	22	135	200	22
PRC-XG-2250	22.5	140	200	24
PRC-XG-2300	23	140	200	24
PRC-XG-2350	23.5	140	200	24
PRC-XG-2400	24	140	200	24
PRC-XG-2450	24.5	140	200	25
PRC-XG-2500	25	140	200	25

PR-SUSB SERIES /SIZE 3XD

Applicable materials, Stainless steel, titanium alloy, nickel-based alloy, high-temperature alloy specialized.



Part No.	DIMENSION			
	D1	L2	L1	D
PR-SUSB-300	3	20	62	4
PR-SUSB-310	3.1	20	62	4
PR-SUSB-320	3.2	20	62	4
PR-SUSB-330	3.3	20	62	4
PR-SUSB-340	3.4	20	62	4
PR-SUSB-350	3.5	20	62	4
PR-SUSB-360	3.6	20	62	4
PR-SUSB-370	3.7	20	62	4
PR-SUSB-380	3.8	24	66	4
PR-SUSB-390	3.9	24	66	4
PR-SUSB-400	4	24	66	4
PR-SUSB-410	4.1	24	66	6
PR-SUSB-420	4.2	24	66	6
PR-SUSB-430	4.3	24	66	6
PR-SUSB-440	4.4	24	66	6
PR-SUSB-450	4.5	24	66	6
PR-SUSB-460	4.6	24	66	6
PR-SUSB-470	4.7	28	66	6
PR-SUSB-480	4.8	28	66	6
PR-SUSB-490	4.9	28	66	6
PR-SUSB-500	5	28	66	6
PR-SUSB-510	5.1	28	66	6
PR-SUSB-520	5.2	28	66	6
PR-SUSB-530	5.3	28	66	6
PR-SUSB-540	5.4	28	66	6
PR-SUSB-550	5.5	28	66	6
PR-SUSB-560	5.6	28	66	6
PR-SUSB-570	5.7	28	66	6
PR-SUSB-580	5.8	28	66	6
PR-SUSB-590	5.9	28	66	6
PR-SUSB-600	6	28	66	6

DIN STANDARD

Part No.	DIMENSION			
	D1	L2	L1	D
PR-SUSB-610	6.1	34	79	8
PR-SUSB-620	6.2	34	79	8
PR-SUSB-630	6.3	34	79	8
PR-SUSB-640	6.4	34	79	8
PR-SUSB-650	6.5	34	79	8
PR-SUSB-660	6.6	34	79	8
PR-SUSB-670	6.7	34	79	8
PR-SUSB-680	6.8	34	79	8
PR-SUSB-690	6.9	34	79	8
PR-SUSB-700	7	34	79	8
PR-SUSB-710	7.1	41	79	8
PR-SUSB-720	7.2	41	79	8
PR-SUSB-730	7.3	41	79	8
PR-SUSB-740	7.4	41	79	8
PR-SUSB-750	7.5	41	79	8
PR-SUSB-760	7.6	41	79	8
PR-SUSB-770	7.7	41	79	8
PR-SUSB-780	7.8	41	79	8
PR-SUSB-790	7.9	41	79	8
PR-SUSB-800	8	41	79	8
PR-SUSB-810	8.1	47	89	10
PR-SUSB-820	8.2	47	89	10
PR-SUSB-830	8.3	47	89	10
PR-SUSB-840	8.4	47	89	10
PR-SUSB-850	8.5	47	89	10
PR-SUSB-860	8.6	47	89	10
PR-SUSB-870	8.7	47	89	10
PR-SUSB-880	8.8	47	89	10
PR-SUSB-890	8.9	47	89	10
PR-SUSB-900	9	47	89	10
PR-SUSB-910	9.1	47	89	10
PR-SUSB-920	9.2	47	89	10
PR-SUSB-930	9.3	47	89	10
PR-SUSB-940	9.4	47	89	10
PR-SUSB-950	9.5	47	89	10
PR-SUSB-960	9.6	47	89	10
PR-SUSB-970	9.7	47	89	10
PR-SUSB-980	9.8	47	89	10
PR-SUSB-990	9.9	47	89	10
PR-SUSB-1000	10	47	89	10
PR-SUSB-1010	10.1	55	102	12
PR-SUSB-1020	10.2	55	102	12
PR-SUSB-1030	10.3	55	102	12
PR-SUSB-1040	10.4	55	102	12
PR-SUSB-1050	10.5	55	102	12
PR-SUSB-1060	10.6	55	102	12
PR-SUSB-1070	10.7	55	102	12
PR-SUSB-1080	10.8	55	102	12
PR-SUSB-1090	10.9	55	102	12
PR-SUSB-1100	11	55	102	12
PR-SUSB-1110	11.1	55	102	12
PR-SUSB-1120	11.2	55	102	12
PR-SUSB-1130	11.3	55	102	12
PR-SUSB-1140	11.4	55	102	12

DIN STANDARD

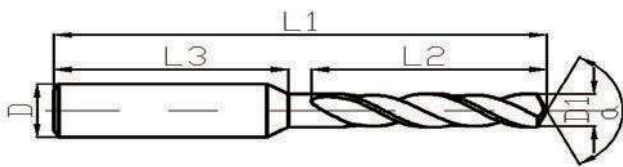
Part No.	DIMENSION			
	D1	L2	L1	D
PR-SUSB-1150	11.5	55	102	12
PR-SUSB-1160	11.6	55	102	12
PR-SUSB-1170	11.7	55	102	12
PR-SUSB-1180	11.8	55	102	12
PR-SUSB-1190	11.9	55	102	12
PR-SUSB-1200	12	55	102	12
PR-SUSB-1210	12.1	60	107	14
PR-SUSB-1220	12.2	60	107	14
PR-SUSB-1230	12.3	60	107	14
PR-SUSB-1240	12.4	60	107	14
PR-SUSB-1250	12.5	60	107	14
PR-SUSB-1260	12.6	60	107	14
PR-SUSB-1270	12.7	60	107	14
PR-SUSB-1280	12.8	60	107	14
PR-SUSB-1290	12.9	60	107	14
PR-SUSB-1300	13	60	107	14
PR-SUSB-1310	13.1	60	107	14
PR-SUSB-1320	13.2	60	107	14
PR-SUSB-1330	13.3	60	107	14
PR-SUSB-1340	13.4	60	107	14
PR-SUSB-1350	13.5	60	107	14
PR-SUSB-1360	13.6	60	107	14
PR-SUSB-1370	13.7	60	107	14
PR-SUSB-1380	13.8	60	107	14
PR-SUSB-1390	13.9	60	107	14
PR-SUSB-1400	14	60	107	14
PR-SUSB-1410	14.1	65	115	16
PR-SUSB-1420	14.2	65	115	16
PR-SUSB-1430	14.3	65	115	16
PR-SUSB-1440	14.4	65	115	16
PR-SUSB-1450	14.5	65	115	16
PR-SUSB-1460	14.6	65	115	16
PR-SUSB-1470	14.7	65	115	16
PR-SUSB-1480	14.8	65	115	16
PR-SUSB-1490	14.9	65	115	16
PR-SUSB-1500	15	65	115	16
PR-SUSB-1510	15.1	65	115	16
PR-SUSB-1520	15.2	65	115	16
PR-SUSB-1530	15.3	65	115	16
PR-SUSB-1540	15.4	65	115	16
PR-SUSB-1550	15.5	65	115	16
PR-SUSB-1560	15.6	65	115	16
PR-SUSB-1570	15.7	65	115	16
PR-SUSB-1580	15.8	65	115	16
PR-SUSB-1590	15.9	65	115	16
PR-SUSB-1600	16	65	115	16
PR-SUSB-1650	16.5	73	123	18
PR-SUSB-1680	16.8	73	123	18
PR-SUSB-1700	17	73	123	18
PR-SUSB-1750	17.5	73	123	18
PR-SUSB-1780	17.8	73	123	18
PR-SUSB-1800	18	73	123	18
PR-SUSB-1900	19	79	131	20
PR-SUSB-1950	19.5	79	131	20

DIN STANDARD

Part No.	DIMENSION			
	D1	L2	L1	D
PR-SUSB-1980	19.8	79	131	20
PR-SUSB-2000	20	79	131	20
PR-SUSB-2050	20.5	79	131	20
PR-SUSB-2100	21	79	131	20
PR-SUSB-2150	21.5	79	131	22
PR-SUSB-2200	22	79	131	22
PR-SUSB-2250	22.5	96	153	24
PR-SUSB-2300	23	96	153	24
PR-SUSB-2350	23.5	96	153	24
PR-SUSB-2400	24	96	153	24
PR-SUSB-2450	24.5	96	153	25
PR-SUSB-2500	25	96	153	25

PRC-SUSH SERIES /SIZE 3XD INNER-COOLANT

Applicable materials : Stainless steel, titanium alloy, nickel-based alloy, high-temperature alloy specialized.



Part No.	DIMENSION			
	D1	L2	L1	D
PRC-SUSH-300	3	20	62	4
PRC-SUSH-310	3.1	20	62	4
PRC-SUSH-320	3.2	20	62	4
PRC-SUSH-330	3.3	20	62	4
PRC-SUSH-340	3.4	20	62	4
PRC-SUSH-350	3.5	20	62	4
PRC-SUSH-360	3.6	20	62	4
PRC-SUSH-370	3.7	20	62	4
PRC-SUSH-380	3.8	24	66	4
PRC-SUSH-390	3.9	24	66	4
PRC-SUSH-400	4	24	66	4
PRC-SUSH-410	4.1	24	66	6
PRC-SUSH-420	4.2	24	66	6

DIN STANDARD

Part No.	DIMENSION			
	D1	L2	L1	D
PRC-SUSH-430	4.3	24	66	6
PRC-SUSH-440	4.4	24	66	6
PRC-SUSH-450	4.5	24	66	6
PRC-SUSH-460	4.6	24	66	6
PRC-SUSH-470	4.7	28	66	6
PRC-SUSH-480	4.8	28	66	6
PRC-SUSH-490	4.9	28	66	6
PRC-SUSH-500	5	28	66	6
PRC-SUSH-510	5.1	28	66	6
PRC-SUSH-520	5.2	28	66	6
PRC-SUSH-530	5.3	28	66	6
PRC-SUSH-540	5.4	28	66	6
PRC-SUSH-550	5.5	28	66	6
PRC-SUSH-560	5.6	28	66	6
PRC-SUSH-570	5.7	28	66	6
PRC-SUSH-580	5.8	28	66	6
PRC-SUSH-590	5.9	28	66	6
PRC-SUSH-600	6	28	66	6
PRC-SUSH-610	6.1	34	79	8
PRC-SUSH-620	6.2	34	79	8
PRC-SUSH-630	6.3	34	79	8
PRC-SUSH-640	6.4	34	79	8
PRC-SUSH-650	6.5	34	79	8
PRC-SUSH-660	6.6	34	79	8
PRC-SUSH-670	6.7	34	79	8
PRC-SUSH-680	6.8	34	79	8
PRC-SUSH-690	6.9	34	79	8
PRC-SUSH-700	7	34	79	8
PRC-SUSH-710	7.1	41	79	8
PRC-SUSH-720	7.2	41	79	8
PRC-SUSH-730	7.3	41	79	8
PRC-SUSH-740	7.4	41	79	8
PRC-SUSH-750	7.5	41	79	8
PRC-SUSH-760	7.6	41	79	8
PRC-SUSH-770	7.7	41	79	8
PRC-SUSH-780	7.8	41	79	8
PRC-SUSH-790	7.9	41	79	8
PRC-SUSH-800	8	41	79	8
PRC-SUSH-810	8.1	47	89	10
PRC-SUSH-820	8.2	47	89	10
PRC-SUSH-830	8.3	47	89	10
PRC-SUSH-840	8.4	47	89	10
PRC-SUSH-850	8.5	47	89	10
PRC-SUSH-860	8.6	47	89	10
PRC-SUSH-870	8.7	47	89	10
PRC-SUSH-880	8.8	47	89	10
PRC-SUSH-890	8.9	47	89	10
PRC-SUSH-900	9	47	89	10
PRC-SUSH-910	9.1	47	89	10
PRC-SUSH-920	9.2	47	89	10
PRC-SUSH-930	9.3	47	89	10
PRC-SUSH-940	9.4	47	89	10
PRC-SUSH-950	9.5	47	89	10
PRC-SUSH-960	9.6	47	89	10

DIN STANDARD

Part No.	DIMENSION			
	D1	L2	L1	D
PRC-SUSH-970	9.7	47	89	10
PRC-SUSH-980	9.8	47	89	10
PRC-SUSH-990	9.9	47	89	10
PRC-SUSH-1000	10	47	89	10
PRC-SUSH-1010	10.1	55	102	12
PRC-SUSH-1020	10.2	55	102	12
PRC-SUSH-1030	10.3	55	102	12
PRC-SUSH-1040	10.4	55	102	12
PRC-SUSH-1050	10.5	55	102	12
PRC-SUSH-1060	10.6	55	102	12
PRC-SUSH-1070	10.7	55	102	12
PRC-SUSH-1080	10.8	55	102	12
PRC-SUSH-1090	10.9	55	102	12
PRC-SUSH-1100	11	55	102	12
PRC-SUSH-1010	10.1	55	102	12
PRC-SUSH-1020	10.2	55	102	12
PRC-SUSH-1030	10.3	55	102	12
PRC-SUSH-1040	10.4	55	102	12
PRC-SUSH-1050	10.5	55	102	12
PRC-SUSH-1060	10.6	55	102	12
PRC-SUSH-1070	10.7	55	102	12
PRC-SUSH-1080	10.8	55	102	12
PRC-SUSH-1090	10.9	55	102	12
PRC-SUSH-1100	11	55	102	12
PRC-SUSH-1110	11.1	55	102	12
PRC-SUSH-1120	11.2	55	102	12
PRC-SUSH-1130	11.3	55	102	12
PRC-SUSH-1140	11.4	55	102	12
PRC-SUSH-1150	11.5	55	102	12
PRC-SUSH-1160	11.6	55	102	12
PRC-SUSH-1170	11.7	55	102	12
PRC-SUSH-1180	11.8	55	102	12
PRC-SUSH-1190	11.9	55	102	12
PRC-SUSH-1200	12	55	102	12
PRC-SUSH-1210	12.1	60	107	14
PRC-SUSH-1220	12.2	60	107	14
PRC-SUSH-1230	12.3	60	107	14
PRC-SUSH-1240	12.4	60	107	14
PRC-SUSH-1250	12.5	60	107	14
PRC-SUSH-1260	12.6	60	107	14
PRC-SUSH-1270	12.7	60	107	14
PRC-SUSH-1280	12.8	60	107	14
PRC-SUSH-1290	12.9	60	107	14
PRC-SUSH-1300	13	60	107	14
PRC-SUSH-1310	13.1	60	107	14
PRC-SUSH-1320	13.2	60	107	14
PRC-SUSH-1330	13.3	60	107	14
PRC-SUSH-1340	13.4	60	107	14
PRC-SUSH-1350	13.5	60	107	14
PRC-SUSH-1360	13.6	60	107	14
PRC-SUSH-1370	13.7	60	107	14
PRC-SUSH-1380	13.8	60	107	14
PRC-SUSH-1390	13.9	60	107	14
PRC-SUSH-1400	14	60	107	14

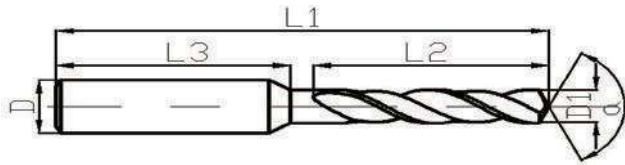
DIN STANDARD

Part No.	DIMENSION			
	D1	L2	L1	D
PRC-SUSH-1410	14.1	65	115	16
PRC-SUSH-1420	14.2	65	115	16
PRC-SUSH-1430	14.3	65	115	16
PRC-SUSH-1440	14.4	65	115	16
PRC-SUSH-1450	14.5	65	115	16
PRC-SUSH-1460	14.6	65	115	16
PRC-SUSH-1470	14.7	65	115	16
PRC-SUSH-1480	14.8	65	115	16
PRC-SUSH-1490	14.9	65	115	16
PRC-SUSH-1500	15	65	115	16
PRC-SUSH-1510	15.1	65	115	16
PRC-SUSH-1520	15.2	65	115	16
PRC-SUSH-1530	15.3	65	115	16
PRC-SUSH-1540	15.4	65	115	16
PRC-SUSH-1550	15.5	65	115	16
PRC-SUSH-1560	15.6	65	115	16
PRC-SUSH-1570	15.7	65	115	16
PRC-SUSH-1580	15.8	65	115	16
PRC-SUSH-1590	15.9	65	115	16
PRC-SUSH-1600	16	65	115	16
PRC-SUSH-1650	16.5	73	123	18
PRC-SUSH-1680	16.8	73	123	18
PRC-SUSH-1700	17	73	123	18
PRC-SUSH-1750	17.5	73	123	18
PRC-SUSH-1780	17.8	73	123	18
PRC-SUSH-1800	18	73	123	18
PRC-SUSH-1900	19	79	131	20
PRC-SUSH-1950	19.5	79	131	20
PRC-SUSH-1980	19.8	79	131	20
PRC-SUSH-2000	20	79	131	20
PRC-SUSH-2050	20.5	79	131	20
PRC-SUSH-2100	21	79	131	20
PRC-SUSH-2150	21.5	79	131	22
PRC-SUSH-2200	22	79	131	22
PRC-SUSH-2250	22.5	96	153	24
PRC-SUSH-2300	23	96	153	24
PRC-SUSH-2350	23.5	96	153	24
PRC-SUSH-2400	24	96	153	24
PRC-SUSH-2450	24.5	96	153	25
PRC-SUSH-2500	25	96	153	25

DIN STANDARD

PR-SUSL SERIES /SIZE 5XD

Applicable materials : Stainless steel, titanium alloy, nickel-based alloy, high-temperature alloy specialized..



Part No.	DIMENSION			
	D1	L2	L1	D
PR-SUSL-300	3	28	66	4
PR-SUSL-310	3.1	28	66	4
PR-SUSL-320	3.2	28	66	4
PR-SUSL-330	3.3	28	66	4
PR-SUSL-340	3.4	28	66	4
PR-SUSL-350	3.5	28	66	4
PR-SUSL-360	3.6	28	66	4
PR-SUSL-370	3.7	28	66	4
PR-SUSL-380	3.8	36	74	4
PR-SUSL-390	3.9	36	74	4
PR-SUSL-400	4	36	74	4
PR-SUSL-410	4.1	36	74	6
PR-SUSL-420	4.2	36	74	6
PR-SUSL-430	4.3	36	74	6
PR-SUSL-440	4.4	36	74	6
PR-SUSL-450	4.5	36	74	6
PR-SUSL-460	4.6	36	74	6
PR-SUSL-470	4.7	44	82	6
PR-SUSL-480	4.8	44	82	6
PR-SUSL-490	4.9	44	82	6
PR-SUSL-500	5	44	82	6
PR-SUSL-510	5.1	44	82	6
PR-SUSL-520	5.2	44	82	6
PR-SUSL-530	5.3	44	82	6
PR-SUSL-540	5.4	44	82	6
PR-SUSL-550	5.5	44	82	6
PR-SUSL-560	5.6	44	82	6
PR-SUSL-570	5.7	44	82	6
PR-SUSL-580	5.8	44	82	6
PR-SUSL-590	5.9	44	82	6
PR-SUSL-600	6	44	82	6

DIN STANDARD

Part No.	DIMENSION			
	D1	L2	L1	D
PR-SUSL-610	6.1	53	91	8
PR-SUSL-620	6.2	53	91	8
PR-SUSL-630	6.3	53	91	8
PR-SUSL-640	6.4	53	91	8
PR-SUSL-650	6.5	53	91	8
PR-SUSL-660	6.6	53	91	8
PR-SUSL-670	6.7	53	91	8
PR-SUSL-680	6.8	53	91	8
PR-SUSL-690	6.9	53	91	8
PR-SUSL-700	7	53	91	8
PR-SUSL-710	7.1	53	91	8
PR-SUSL-720	7.2	53	91	8
PR-SUSL-730	7.3	53	91	8
PR-SUSL-740	7.4	53	91	8
PR-SUSL-750	7.5	53	91	8
PR-SUSL-760	7.6	53	91	8
PR-SUSL-770	7.7	53	91	8
PR-SUSL-780	7.8	53	91	8
PR-SUSL-790	7.9	53	91	8
PR-SUSL-800	8	53	91	8
PR-SUSL-810	8.1	61	103	10
PR-SUSL-820	8.2	61	103	10
PR-SUSL-830	8.3	61	103	10
PR-SUSL-840	8.4	61	103	10
PR-SUSL-850	8.5	61	103	10
PR-SUSL-860	8.6	61	103	10
PR-SUSL-870	8.7	61	103	10
PR-SUSL-880	8.8	61	103	10
PR-SUSL-890	8.9	61	103	10
PR-SUSL-900	9	61	103	10
PR-SUSL-910	9.1	61	103	10
PR-SUSL-920	9.2	61	103	10
PR-SUSL-930	9.3	61	103	10
PR-SUSL-940	9.4	61	103	10
PR-SUSL-950	9.5	61	103	10
PR-SUSL-960	9.6	61	103	10
PR-SUSL-970	9.7	61	103	10
PR-SUSL-980	9.8	61	103	10
PR-SUSL-990	9.9	61	103	10
PR-SUSL-1000	10	61	103	10
PR-SUSL-1010	10.1	71	118	12
PR-SUSL-1020	10.2	71	118	12
PR-SUSL-1030	10.3	71	118	12
PR-SUSL-1040	10.4	71	118	12
PR-SUSL-1050	10.5	71	118	12
PR-SUSL-1060	10.6	71	118	12
PR-SUSL-1070	10.7	71	118	12
PR-SUSL-1080	10.8	71	118	12
PR-SUSL-1090	10.9	71	118	12
PR-SUSL-1100	11	71	118	12
PR-SUSL-1110	11.1	71	118	12
PR-SUSL-1120	11.2	71	118	12
PR-SUSL-1130	11.3	71	118	12
PR-SUSL-1140	11.4	71	118	12

DIN STANDARD

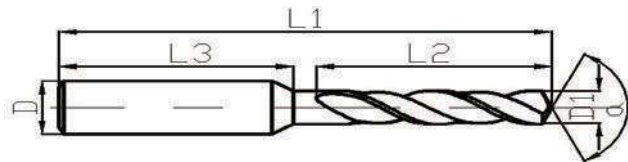
Part No.	DIMENSION			
	D1	L2	L1	D
PR-SUSL-1150	11.5	71	118	12
PR-SUSL-1160	11.6	71	118	12
PR-SUSL-1170	11.7	71	118	12
PR-SUSL-1180	11.8	71	118	12
PR-SUSL-1190	11.9	71	118	12
PR-SUSL-1200	12	71	118	12
PR-SUSL-1210	12.1	77	124	14
PR-SUSL-1220	12.2	77	124	14
PR-SUSL-1230	12.3	77	124	14
PR-SUSL-1240	12.4	77	124	14
PR-SUSL-1250	12.5	77	124	14
PR-SUSL-1260	12.6	77	124	14
PR-SUSL-1270	12.7	77	124	14
PR-SUSL-1280	12.8	77	124	14
PR-SUSL-1290	12.9	77	124	14
PR-SUSL-1300	13	77	124	14
PR-SUSL-1310	13.1	77	124	14
PR-SUSL-1320	13.2	77	124	14
PR-SUSL-1330	13.3	77	124	14
PR-SUSL-1340	13.4	77	124	14
PR-SUSL-1350	13.5	77	124	14
PR-SUSL-1360	13.6	77	124	14
PR-SUSL-1370	13.7	77	124	14
PR-SUSL-1380	13.8	77	124	14
PR-SUSL-1390	13.9	77	124	14
PR-SUSL-1400	14	77	124	14
PR-SUSL-1410	14.1	83	133	16
PR-SUSL-1420	14.2	83	133	16
PR-SUSL-1430	14.3	83	133	16
PR-SUSL-1440	14.4	83	133	16
PR-SUSL-1450	14.5	83	133	16
PR-SUSL-1460	14.6	83	133	16
PR-SUSL-1470	14.7	83	133	16
PR-SUSL-1480	14.8	83	133	16
PR-SUSL-1490	14.9	83	133	16
PR-SUSL-1500	15	83	133	16
PR-SUSL-1510	15.1	83	133	16
PR-SUSL-1520	15.2	83	133	16
PR-SUSL-1530	15.3	83	133	16
PR-SUSL-1540	15.4	83	133	16
PR-SUSL-1550	15.5	83	133	16
PR-SUSL-1560	15.6	83	133	16
PR-SUSL-1570	15.7	83	133	16
PR-SUSL-1580	15.8	83	133	16
PR-SUSL-1590	15.9	83	133	16
PR-SUSL-1600	16	83	133	16
PR-SUSL-1650	16.5	101	153	18
PR-SUSL-1680	16.8	101	153	18
PR-SUSL-1700	17	101	153	18
PR-SUSL-1750	17.5	101	153	18
PR-SUSL-1780	17.8	101	153	18
PR-SUSL-1800	18	101	153	18
PR-SUSL-1850	18.5	101	153	20
PR-SUSL-1880	18.8	101	153	20

DIN STANDARD

Part No.	DIMENSION			
	D1	L2	L1	D
PR-SUSL-1900	19	101	153	20
PR-SUSL-1950	19.5	101	153	20
PR-SUSL-1980	19.8	101	153	20
PR-SUSL-2000	20	101	153	20
PR-SUSL-2050	20.5	135	200	22
PR-SUSL-2100	21	135	200	22
PR-SUSL-2150	21.5	135	200	22
PR-SUSL-2200	22	135	200	22
PR-SUSL-2250	22.5	140	200	24
PR-SUSL-2300	23	140	200	24
PR-SUSL-2350	23.5	140	200	24
PR-SUSL-2400	24	140	200	24
PR-SUSL-2450	24.5	140	200	25
PR-SUSL-2500	25	140	200	25

PRC-SUSM SERIES /SIZE 5XD INNER-COOLANT

Applicable materials, Stainless steel, titanium alloy, nickel-based alloy, high-temperature alloy specialized.



Part No.	DIMENSION			
	D1	L2	L1	D
PRC-SUSM-300	3	28	66	4
PRC-SUSM-310	3.1	28	66	4
PRC-SUSM-320	3.2	28	66	4
PRC-SUSM-330	3.3	28	66	4
PRC-SUSM-340	3.4	28	66	4
PRC-SUSM-350	3.5	28	66	4
PRC-SUSM-360	3.6	28	66	4
PRC-SUSM-370	3.7	28	66	4
PRC-SUSM-380	3.8	36	74	4
PRC-SUSM-390	3.9	36	74	4
PRC-SUSM-400	4	36	74	4

DIN STANDARD

Part No.	DIMENSION			
	D1	L2	L1	D
PRC-SUSM-410	4.1	36	74	6
PRC-SUSM-420	4.2	36	74	6
PRC-SUSM-430	4.3	36	74	6
PRC-SUSM-440	4.4	36	74	6
PRC-SUSM-450	4.5	36	74	6
PRC-SUSM-460	4.6	36	74	6
PRC-SUSM-470	4.7	44	82	6
PRC-SUSM-480	4.8	44	82	6
PRC-SUSM-490	4.9	44	82	6
PRC-SUSM-500	5	44	82	6
PRC-SUSM-510	5.1	44	82	6
PRC-SUSM-520	5.2	44	82	6
PRC-SUSM-530	5.3	44	82	6
PRC-SUSM-540	5.4	44	82	6
PRC-SUSM-550	5.5	44	82	6
PRC-SUSM-560	5.6	44	82	6
PRC-SUSM-570	5.7	44	82	6
PRC-SUSM-580	5.8	44	82	6
PRC-SUSM-590	5.9	44	82	6
PRC-SUSM-600	6	44	82	6
PRC-SUSM-610	6.1	53	91	8
PRC-SUSM-620	6.2	53	91	8
PRC-SUSM-630	6.3	53	91	8
PRC-SUSM-640	6.4	53	91	8
PRC-SUSM-650	6.5	53	91	8
PRC-SUSM-660	6.6	53	91	8
PRC-SUSM-670	6.7	53	91	8
PRC-SUSM-680	6.8	53	91	8
PRC-SUSM-690	6.9	53	91	8
PRC-SUSM-700	7	53	91	8
PRC-SUSM-710	7.1	53	91	8
PRC-SUSM-720	7.2	53	91	8
PRC-SUSM-730	7.3	53	91	8
PRC-SUSM-740	7.4	53	91	8
PRC-SUSM-750	7.5	53	91	8
PRC-SUSM-760	7.6	53	91	8
PRC-SUSM-770	7.7	53	91	8
PRC-SUSM-780	7.8	53	91	8
PRC-SUSM-790	7.9	53	91	8
PRC-SUSM-800	8	53	91	8
PRC-SUSM-810	8.1	61	103	10
PRC-SUSM-820	8.2	61	103	10
PRC-SUSM-830	8.3	61	103	10
PRC-SUSM-840	8.4	61	103	10
PRC-SUSM-850	8.5	61	103	10
PRC-SUSM-860	8.6	61	103	10
PRC-SUSM-870	8.7	61	103	10
PRC-SUSM-880	8.8	61	103	10
PRC-SUSM-890	8.9	61	103	10
PRC-SUSM-900	9	61	103	10
PRC-SUSM-910	9.1	61	103	10
PRC-SUSM-920	9.2	61	103	10
PRC-SUSM-930	9.3	61	103	10
PRC-SUSM-940	9.4	61	103	10

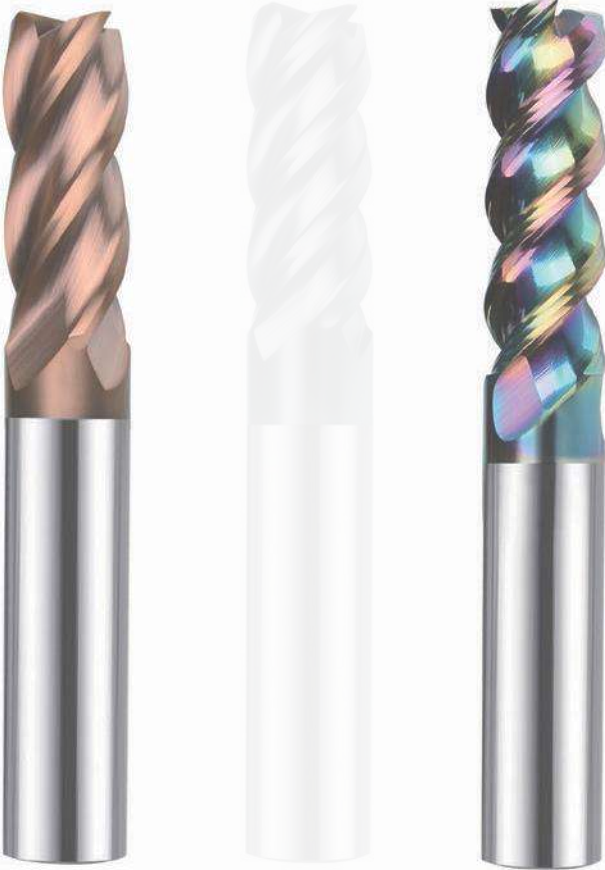
DIN STANDARD

Part No.	DIMENSION			
	D1	L2	L1	D
PRC-SUSM-950	9.5	61	103	10
PRC-SUSM-960	9.6	61	103	10
PRC-SUSM-970	9.7	61	103	10
PRC-SUSM-980	9.8	61	103	10
PRC-SUSM-990	9.9	61	103	10
PRC-SUSM-1000	10	61	103	10
PRC-SUSM-1010	10.1	71	118	12
PRC-SUSM-1020	10.2	71	118	12
PRC-SUSM-1030	10.3	71	118	12
PRC-SUSM-1040	10.4	71	118	12
PRC-SUSM-1050	10.5	71	118	12
PRC-SUSM-1060	10.6	71	118	12
PRC-SUSM-1070	10.7	71	118	12
PRC-SUSM-1080	10.8	71	118	12
PRC-SUSM-1090	10.9	71	118	12
PRC-SUSM-1100	11	71	118	12
PRC-SUSM-1110	11.1	71	118	12
PRC-SUSM-1120	11.2	71	118	12
PRC-SUSM-1130	11.3	71	118	12
PRC-SUSM-1140	11.4	71	118	12
PRC-SUSM-1150	11.5	71	118	12
PRC-SUSM-1160	11.6	71	118	12
PRC-SUSM-1170	11.7	71	118	12
PRC-SUSM-1180	11.8	71	118	12
PRC-SUSM-1190	11.9	71	118	12
PRC-SUSM-1200	12	71	118	12
PRC-SUSM-1210	12.1	77	124	14
PRC-SUSM-1220	12.2	77	124	14
PRC-SUSM-1230	12.3	77	124	14
PRC-SUSM-1240	12.4	77	124	14
PRC-SUSM-1250	12.5	77	124	14
PRC-SUSM-1260	12.6	77	124	14
PRC-SUSM-1270	12.7	77	124	14
PRC-SUSM-1280	12.8	77	124	14
PRC-SUSM-1290	12.9	77	124	14
PRC-SUSM-1300	13	77	124	14
PRC-SUSM-1310	13.1	77	124	14
PRC-SUSM-1320	13.2	77	124	14
PRC-SUSM-1330	13.3	77	124	14
PRC-SUSM-1340	13.4	77	124	14
PRC-SUSM-1350	13.5	77	124	14
PRC-SUSM-1360	13.6	77	124	14
PRC-SUSM-1370	13.7	77	124	14
PRC-SUSM-1380	13.8	77	124	14
PRC-SUSM-1390	13.9	77	124	14
PRC-SUSM-1400	14	77	124	14
PRC-SUSM-1410	14.1	83	133	16
PRC-SUSM-1420	14.2	83	133	16
PRC-SUSM-1430	14.3	83	133	16
PRC-SUSM-1440	14.4	83	133	16
PRC-SUSM-1450	14.5	83	133	16
PRC-SUSM-1460	14.6	83	133	16
PRC-SUSM-1470	14.7	83	133	16
PRC-SUSM-1480	14.8	83	133	16

DIN STANDARD

Part No.	DIMENSION			
	D1	L2	L1	D
PRC-SUSM-1490	14.9	83	133	16
PRC-SUSM-1500	15	83	133	16
PRC-SUSM-1510	15.1	83	133	16
PRC-SUSM-1520	15.2	83	133	16
PRC-SUSM-1530	15.3	83	133	16
PRC-SUSM-1540	15.4	83	133	16
PRC-SUSM-1550	15.5	83	133	16
PRC-SUSM-1560	15.6	83	133	16
PRC-SUSM-1570	15.7	83	133	16
PRC-SUSM-1580	15.8	83	133	16
PRC-SUSM-1590	15.9	83	133	16
PRC-SUSM-1600	16	83	133	16
PRC-SUSM-1650	16.5	101	153	18
PRC-SUSM-1680	16.8	101	153	18
PRC-SUSM-1700	17	101	153	18
PRC-SUSM-1750	17.5	101	153	18
PRC-SUSM-1780	17.8	101	153	18
PRC-SUSM-1800	18	101	153	18
PRC-SUSM-1850	18.5	101	153	20
PRC-SUSM-1880	18.8	101	153	20
PRC-SUSM-1900	19	101	153	20
PRC-SUSM-1950	19.5	101	153	20
PRC-SUSM-1980	19.8	101	153	20
PRC-SUSM-2000	20	101	153	20
PRC-SUSM-2050	20.5	135	200	22
PRC-SUSM-2100	21	135	200	22
PRC-SUSM-2150	21.5	135	200	22
PRC-SUSM-2200	22	135	200	22
PRC-SUSM-2250	22.5	140	200	24
PRC-SUSM-2300	23	140	200	24
PRC-SUSM-2350	23.5	140	200	24
PRC-SUSM-2400	24	140	200	24
PRC-SUSM-2450	24.5	140	200	25
PRC-SUSM-2500	25	140	200	25

Solid Carbide End Mill



CONTENTS

I ----- **MILLING**

- G** HRC55 General Purpose
- G1** HRC60 General Purpose
- H** HRC65 General Purpose
- K** (Ductile) Cast Iron Type Purpose
- S** HRC50 Toughness Type
- T** Titanium Type Purpose
- SS** Special for SUS
- L** Alu Classic Type
- PL** Fibreglass, Plastic, Alu Sharp Type
- TS** T Slot Tye
- R** Rough Type

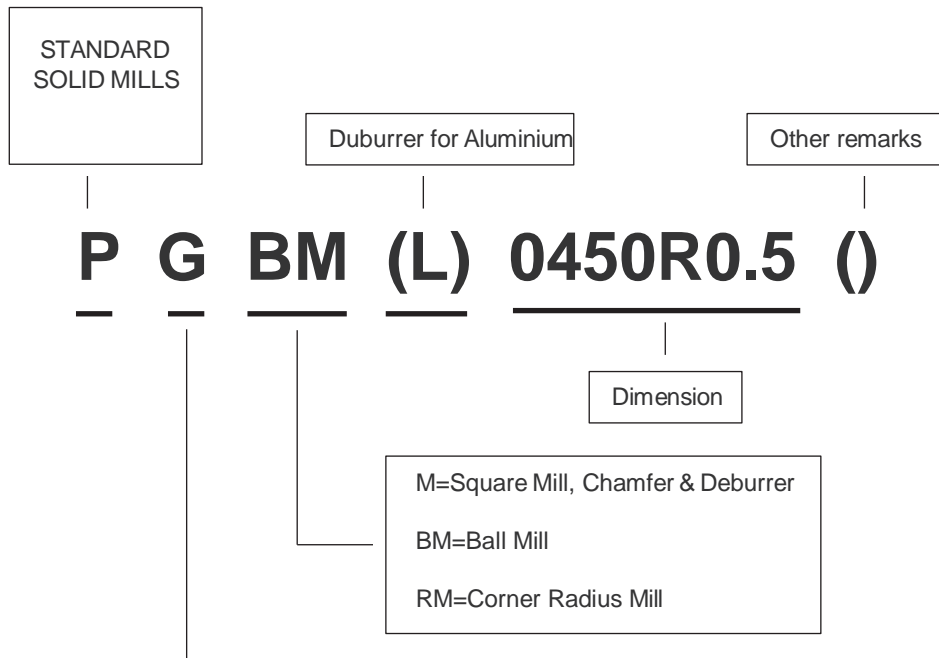
II ----- **CHAMFERING&DEBURRING**

- D** Common
- RD** Inner Radius
- SD** Spiral Center Drill
- 2SD** Double Spiral Center Drill
- UD** Undercutting
- 2UD** Forward / Reverse
- YD** Dovetail

III ----- **SINGLE FORM**

for Alu, Plastic, Acrylic

HOW TO USE ORDER CODE



- G: HRC55 General Purpose
- G1: HRC60 General Purpose
- H: HRC65 General Purpose
- K: (Ductile) Cast Iron Type Purpose
- S: HRC50 Toughness Type
- T: Titanium Type Purpose
- SS: Special for SUS
- L: Alu Classic Type
- PL: Fibreglass,Plastic,Alu Sharp Type
- TS: T Slot Tye
- R: Rough Type

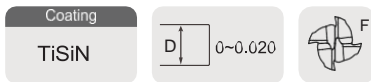
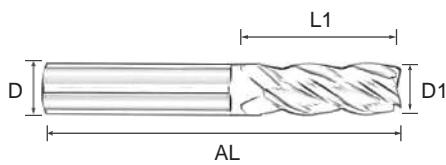
- D: Chamfering, deburring
- RD: Inner Radius, Chamfering, deburring
- SD: Spiral Chamfering, deburring
- 2SD: Double end Chamfering, deburring
- UD: Undercutting deburring
- 2UD: Forward / Reverse chamfering deburring
- YD: Dovetail chamfering, deburring

MILLING

G HRC55 General Purpose

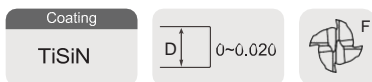
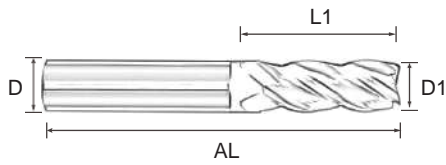
- Applicable materials: ≤HRC55, nonferrous alloy, steel, pre hardened steel, quenched and tempered steel, stainless steel and other materials.
- Characteristic: Realize finishing from high metal removal to high precision and high surface quality.

► End Mill-4F



Part No.	DIMENSION					
	D1	L1	D	AL	F	R
PGM010450	1	3	4	50	4	/
PGM010475	1	3	4	75	4	/
PGM0104100	1	3	4	100	4	/
PGM0150450	1.5	4	4	50	4	/
PGM0150475	1.5	4	4	75	4	/
PGM01504100	1.5	4	4	100	4	/
PGM020450	2	5	4	50	4	/
PGM020475	2	5	4	75	4	/
PGM0204100	2	5	4	100	4	/
PGM0250450	2.5	7	4	50	4	/
PGM030350	3	8	3	50	4	/
PGM030375	3	9	3	75	4	/
PGM0303100	3	12	3	100	4	/
PGM030450	3	8	4	50	4	/
PGM030475	3	9	4	75	4	/
PGM0304100	3	12	4	100	4	/
PGM0350450	3.5	9	4	50	4	/
PGM040450	4	10	4	50	4	/
PGM040475	4	16	4	75	4	/
PGM0404100	4	20	4	100	4	/
PGM0404150	4	20	4	150	4	/
PGM050550	5	13	5	50	4	/
PGM050575	5	18	5	75	4	/
PGM0505100	5	20	5	100	4	/
PGM0505150	5	20	5	150	4	/
PGM060650	6	15	6	50	4	/
PGM060675	6	24	6	75	4	/
PGM0606100	6	30	6	100	4	/
PGM0606150	6	45	6	150	4	/
PGM0606200	6	45	6	200	4	/
PGM080860	8	20	8	60	4	/
PGM080875	8	25	8	75	4	/

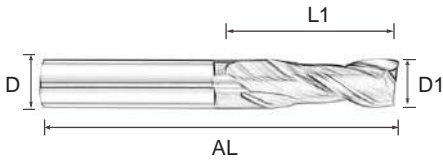
► End Mill-4F



Part No.	DIMENSION					
	D1	L1	D	AL	F	R
PGM0808100	8	35	8	100	4	/
PGM0808150	8	50	8	150	4	/
PGM0808200	8	50	8	200	4	/
PGM101075	10	25	10	75	4	/
PGM1010100	10	40	10	100	4	/
PGM1010150	10	55	10	150	4	/
PGM1010200	10	55	10	200	4	/
PGM1010250	10	55	10	250	4	/
PGM121275	12	30	12	75	4	/
PGM1212100	12	45	12	100	4	/
PGM1212150	12	55	12	150	4	/
PGM1212200	12	55	12	200	4	/
PGM1212250	12	55	12	250	4	/
PGM1414100	14	45	14	100	4	/
PGM1414150	14	60	14	150	4	/
PGM1414200	14	60	14	200	4	/
PGM1616100	16	45	16	100	4	/
PGM1616150	16	70	16	150	4	/
PGM1616200	16	70	16	200	4	/
PGM1616250	16	70	16	250	4	/
PGM1818100	18	45	18	100	4	/
PGM1818150	18	70	18	150	4	/
PGM1818200	18	70	18	200	4	/
PGM2020100	20	45	20	100	4	/
PGM2020150	20	70	20	150	4	/
PGM2020200	20	70	20	200	4	/
PGM2020250	20	70	20	250	4	/
PGM2222100	22	45	22	100	4	/
PGM2525100	25	45	25	100	4	/

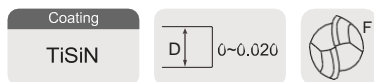
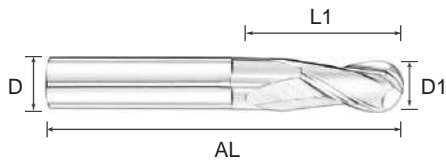
MILLING

► End Mill-2F



Part No.	DIMENSION					
	D1	L1	D	AL	F	R
PGM010450-2	1	3	4	50	2	/
PGM010475-2	1	3	4	75	2	/
PGM0150450-2	1.5	4	4	50	2	/
PGM0150475-2	1.5	4	4	75	2	/
PGM020450-2	2	5	4	50	2	/
PGM020470-2	2	5	4	75	2	/
PGM0250450-2	2.5	7	4	50	2	/
PGM0250475-2	2.5	7	4	75	2	/
PGM030350-2	3	8	3	50	2	/
PGM0303100-2	3	12	3	100	2	/
PGM030450-2	3	8	4	50	2	/
PGM030475-2	3	9	4	75	2	/
PGM0350450-2	3.5	9	4	50	2	/
PGM0350475-2	3.5	9	4	75	2	/
PGM040450-2	4	10	4	50	2	/
PGM040475-2	4	16	4	75	2	/
PGM0404100-2	4	20	4	100	2	/
PGM050550-2	5	13	5	50	2	/
PGM050575-2	5	18	5	75	2	/
PGM0505100-2	5	20	5	100	2	/
PGM060650-2	6	15	6	50	2	/
PGM060675-2	6	24	6	75	2	/
PGM0606100-2	6	30	6	100	2	/
PGM0606150-2	6	45	6	150	2	/
PGM080860-2	8	20	8	60	2	/
PGM080875-2	8	25	8	75	2	/
PGM0808100-2	8	35	8	100	2	/
PGM0808150-2	8	50	8	150	2	/
PGM101075-2	10	25	10	75	2	/
PGM1010100-2	10	40	10	100	2	/
PGM1010150-2	10	55	10	150	2	/
PGM121275-2	12	30	12	75	2	/
PGM1212100-2	12	45	12	100	2	/
PGM1212150-2	12	55	12	150	2	/
PGM1414100-2	14	45	14	100	2	/
PGM1616100-2	16	45	16	100	2	/
PGM1818100-2	18	45	18	100	2	/
PGM2020100-2	20	45	20	100	2	/

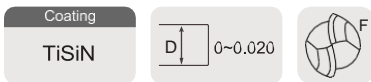
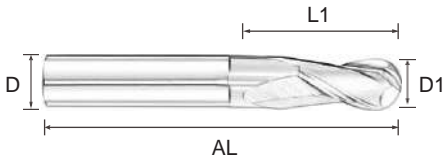
► Ball Nose End Mill



Part No.	DIMENSION					
	D1	L1	D	AL	F	R
PGBM0450R05	1	2	4	50	2	R0.5
PGBM0475R05	1	2	4	75	2	R0.5
PGBM04100R05	1	2	4	100	2	R0.5
PGBM0450R075	1.5	3	4	50	2	R0.75
PGBM0475R075	1.5	3	4	75	2	R0.75
PGBM04100R075	1.5	3	4	100	2	R0.75
PGBM0450R10	2	4	4	50	2	R1
PGBM0475R10	2	4	4	75	2	R1
PGBM04100R10	2	4	4	100	2	R1
PGBM0450R125	2.5	5	4	50	2	R1.25
PGBM0475R125	2.5	5	4	75	2	R1.25
PGBM0350R15	3	6	3	50	2	R1.5
PGBM0375R15	3	6	3	75	2	R1.5
PGBM03100R15	3	6	3	100	2	R1.5
PGBM0450R15	3	6	4	50	2	R1.5
PGBM0475R15	3	6	4	75	2	R1.5
PGBM04100R15	3	6	4	100	2	R1.5
PGBM0450R175	3.5	7	4	50	2	R1.75
PGBM0450R20	4	8	4	50	2	R2
PGBM0475R20	4	8	4	75	2	R2
PGBM04100R20	4	8	4	100	2	R2
PGBM0550R25	5	10	5	50	2	R2.5
PGBM0575R25	5	10	5	75	2	R2.5
PGBM05100R25	5	10	5	100	2	R2.5
PGBM0650R25	5	10	6	50	2	R2.5
PGBM0675R25	5	10	6	75	2	R2.5
PGBM06100R25	5	10	6	100	2	R2.5
PGBM0650R30	6	12	6	50	2	R3
PGBM0675R30	6	12	6	75	2	R3
PGBM06100R30	6	12	6	100	2	R3
PGBM06150R30	6	12	6	150	2	R3
PGBM0860R40	8	16	8	60	2	R4
PGBM0875R40	8	16	8	75	2	R4
PGBM08100R40	8	16	8	100	2	R4
PGBM08150R40	8	16	8	150	2	R4
PGBM1075R50	10	20	10	75	2	R5
PGBM10100R50	10	20	10	100	2	R5
PGBM10150R50	10	20	10	150	2	R5
PGBM1275R60	12	24	12	75	2	R6
PGBM12100R60	12	24	12	100	2	R6
PGBM12150R60	12	24	12	150	2	R6
PGBM14100R70	14	28	14	100	2	R7

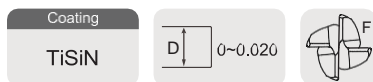
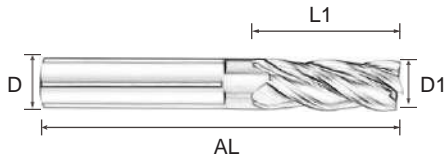
MILLING

► Ball Nose End Mill



Part No.	DIMENSION					
	D1	L1	D	AL	F	R
PGBM14150R70	14	28	14	150	2	R7
PGBM16100R80	16	32	16	100	2	R8
PGBM16150R80	16	32	16	150	2	R8
PGBM18100R90	18	36	18	100	2	R9
PGBM20100R100	20	40	20	100	2	R10
PGBM20150R100	20	40	20	150	2	R10

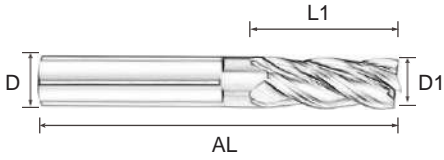
► Corner Radius End Mill



Part No.	DIMENSION					
	D1	L1	D	AL	F	R
PGRM010450R02	1	3	4	50	4	0.2
PGRM0150450R02	1.5	4	4	50	4	0.2
PGRM020450R02	2	5	4	50	4	0.2
PGRM0250450R02	2.5	6	4	50	4	0.2
PGRM030350R02	3	8	3	50	4	0.2
PGRM030450R02	3	8	4	50	4	0.2
PGRM040450R02	4	10	4	50	4	0.2
PGRM040475R02	4	16	4	75	4	0.2
PGRM0404100R02	4	20	4	100	4	0.2
PGRM050550R02	5	13	5	50	4	0.2
PGRM060650R02	6	15	6	50	4	0.2
PGRM060675R02	6	20	6	75	4	0.2
PGRM0606100R02	6	25	6	100	4	0.2
PGRM080860R02	8	20	8	60	4	0.2
PGRM080875R02	8	25	8	75	4	0.2
PGRM0808100R02	8	30	8	100	4	0.2
PGRM101075R02	10	25	10	75	4	0.2
PGRM1010100R02	10	30	10	100	4	0.2
PGRM121275R02	12	30	12	75	4	0.2
PGRM0150450R05	1.5	4	4	50	4	0.5
PGRM020450R05	2	5	4	50	4	0.5
PGRM0250450R05	2.5	6	4	50	4	0.5
PGRM030450R05	3	8	4	50	4	0.5
PGRM030350R05	3	8	3	50	4	0.5
PGRM030375R05	3	9	3	75	4	0.5
PGRM0303100R05	3	12	3	100	4	0.5
PGRM0350450R05	3.5	9	4	50	4	0.5
PGRM040450R05	4	10	4	50	4	0.5
PGRM040475R05	4	16	4	75	4	0.5
PGRM0404100R05	4	20	4	100	4	0.5
PGRM050550R05	5	13	5	50	4	0.5
PGRM050650R05	5	13	6	50	4	0.5
PGRM060650R05	6	15	6	50	4	0.5
PGRM060675R05	6	20	6	75	4	0.5
PGRM0606100R05	6	25	6	100	4	0.5
PGRM0606150R05	6	40	6	150	4	0.5
PGRM080860R05	8	20	8	60	4	0.5
PGRM080875R05	8	25	8	75	4	0.5
PGRM0808100R05	8	30	8	100	4	0.5
PGRM08045150	8	45	8	150	4	0.5
PGRM101075R05	10	25	10	75	4	0.5

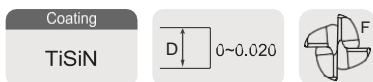
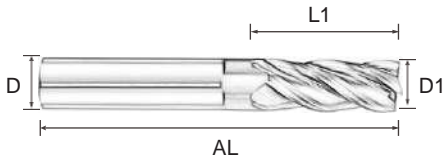
MILLING

► Corner Radius End Mill



Part No.	DIMENSION					
	D1	L1	D	AL	F	R
PGRM1010100R05	10	30	10	100	4	0.5
PGRM1010150R05	10	50	10	150	4	0.5
PGRM121275R05	12	30	12	75	4	0.5
PGRM1212100R05	12	35	12	100	4	0.5
PGRM1212150R05	12	55	12	150	4	0.5
PGRM1414100R05	14	35	14	100	4	0.5
PGRM1616100R05	16	40	16	100	4	0.5
PGRM1616150R05	16	65	16	150	4	0.5
PGRM2020100R05	20	40	20	100	4	0.5
PGRM2020150R05	20	70	20	150	4	0.5
PGRM030450R10	3	8	4	50	4	R1
PGRM040450R10	4	10	4	50	4	R1
PGRM040475R10	4	16	4	75	4	R1
PGRM0404100R10	4	20	4	100	4	R1
PGRM050550R10	5	13	5	50	4	R1
PGRM050575R10	5	15	5	75	4	R1
PGRM050650R10	5	13	6	50	4	R1
PGRM060650R10	6	15	6	50	4	R1
PGRM060675R10	6	20	6	75	4	R1
PGRM0606100R10	6	25	6	100	4	R1
PGRM0606150R10	6	40	6	150	4	R1
PGRM080860R10	8	20	8	60	4	R1
PGRM080875R10	8	25	8	75	4	R1
PGRM0808100R10	8	30	8	100	4	R1
PGRM0808150R10	8	45	8	150	4	R1
PGRM101075R10	10	25	10	75	4	R1
PGRM1010100R10	10	30	10	100	4	R1
PGRM1010150R10	10	50	10	150	4	R1
PGRM121275R10	12	30	12	75	4	R1
PGRM1212100R10	12	35	12	100	4	R1
PGRM1212150R10	12	55	12	150	4	R1
PGRM1414100R10	14	35	14	100	4	R1
PGRM1616100R10	16	40	16	100	4	R1
PGRM1616150R10	16	65	16	150	4	R1
PGRM2020100R10	20	40	20	100	4	R1
PGRM2020150R10	20	70	20	150	4	R1
PGRM060650R15	6	15	6	50	4	R1.5
PGRM080860R15	8	20	8	60	4	R1.5
PGRM080875R15	8	25	8	75	4	R1.5
PGRM101075R15	10	25	10	75	4	R1.5
PGRM1010100R15	10	30	10	100	4	R1.5

► Corner Radius End Mill



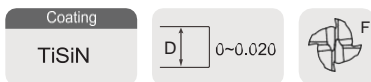
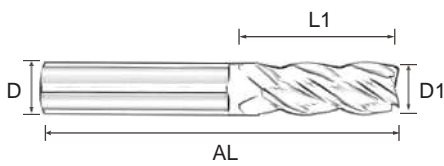
Part No.	DIMENSION					
	D1	L1	D	AL	F	R
PGRM1010150R15	10	50	10	150	4	R1.5
PGRM121275R15	12	30	12	75	4	R1.5
PGRM1212100R15	12	35	12	100	4	R1.5
PGRM2020100R15	20	40	20	100	4	R1.5
PGRM060650R20	6	15	6	50	4	R2
PGRM060675R20	6	20	6	75	4	R2
PGRM080860R20	8	20	8	60	4	R2
PGRM080875R20	8	25	8	75	4	R2
PGRM0808100R20	8	30	8	100	4	R2
PGRM0808150R20	8	45	8	150	4	R2
PGRM101075R20	10	25	10	75	4	R2
PGRM1010100R20	10	30	10	100	4	R2
PGRM1010150R20	10	50	10	150	4	R2
PGRM121275R20	12	30	12	75	4	R2
PGRM1212100R20	12	35	12	100	4	R2
PGRM1212150R20	12	55	12	150	4	R2
PGRM1616100R20	16	40	16	100	4	R2
PGRM1616150R20	16	65	16	150	4	R2
PGRM2020100R20	20	40	20	100	4	R2
PGRM121275R25	12	30	12	75	4	R2.5
PGRM1212100R25	12	35	12	100	4	R2.5
PGRM101075R30	10	25	10	75	4	R3
PGRM1010100R30	10	30	10	100	4	R3
PGRM121275R30	12	30	12	75	4	R3
PGRM1212100R30	12	35	12	100	4	R3
PGRM1212150R30	12	55	12	150	4	R3
PGRM1616100R30	16	40	16	100	4	R3
PGRM1616150R30	16	65	16	150	4	R3
PGRM2020100R30	20	40	20	100	4	R3
PGRM2020150R30	20	70	20	150	4	R3

MILLING

G1 HRC60 General Purpose

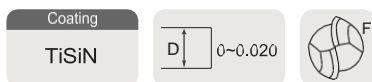
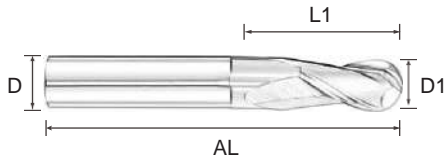
- Applicable materials: ≤HRC60, pre hardened steel, hardened steel, cast iron, ductile iron, etc.
- Characteristic: The high coating hardness and excellent high-temperature oxidation resistance are more suitable for high hardness materials and high-speed machining fields. Antique copper dot matrix heterogeneous coating, higher coating hardness and excellent high temperature oxidation resistance, more closely combined with the substrate. Special surface post-treatment can effectively reduce friction, discharge chips more smoothly, and the quality of machined surface is better.

► End Mill



Part No.	DIMENSION					
	D1	L1	D	AL	F	R
PG1M010450	1	3	4	50	4	/
PG1M0150450	1.5	4	4	50	4	/
PG1M020450	2	5	4	50	4	/
PG1M0250450	2.5	7	4	50	4	/
PG1M030350	3	8	3	50	4	/
PG1M030450	3	8	4	50	4	/
PG1M030375	3	9	3	75	4	/
PG1M0303100	3	12	3	100	4	/
PG1M0350450	3.5	9	4	50	4	/
PG1M040450	4	10	4	50	4	/
PG1M040475	4	16	4	75	4	/
PG1M0404100	4	20	4	100	4	/
PG1M050550	5	13	5	50	4	/
PG1M050650	5	13	6	50	4	/
PG1M050575	5	18	5	75	4	/
PG1M0505100	5	20	5	100	4	/
PG1M060650	6	15	6	50	4	/
PG1M060675	6	24	6	75	4	/
PG1M0606100	6	30	6	100	4	/
PG1M0808060	8	20	8	60	4	/
PG1M080875	8	25	8	75	4	/
PG1M0808100	8	35	8	100	4	/
PG1M0808150	8	50	8	150	4	/
PG1M101075	10	25	10	75	4	/
PG1M1010100	10	40	10	100	4	/
PG1M1010150	10	55	10	150	4	/
PG1M121275	12	30	12	75	4	/
PG1M1212100	12	45	12	100	4	/
PG1M1212150	12	55	12	150	4	/
PG1M1414100	14	45	14	100	4	/
PG1M1414150	14	60	14	150	4	/
PG1M1616100	16	45	16	100	4	/
PG1M1616150	16	70	16	150	4	/
PG1M1818100	18	45	18	100	4	/
PG1M2020100	20	45	20	100	4	/
PG1M2020150	20	70	20	150	4	/

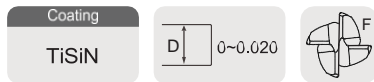
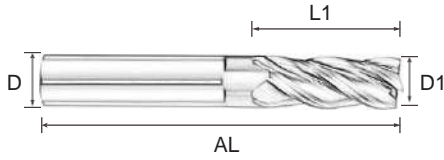
► Ball Nose End Mill



Part No.	DIMENSION					
	D1	L1	D	AL	F	R
PG1BM0450R05	1	2	4	50	2	R0.5
PG1BM0450R075	1.5	3	4	50	2	R0.75
PG1BM0450R10	2	4	4	50	2	R1
PG1BM0450R115	2.5	5	4	50	2	R1.15
PG1BM0450R15	3	6	4	50	2	R1.5
PG1BM0350R15	3	6	3	50	2	R1.5
PG1BM0375R15	3	6	3	75	2	R1.5
PG1BM03100R15	3	6	3	100	2	R1.5
PG1BM0450R20	4	8	4	50	2	R2
PG1BM0475R20	4	8	4	75	2	R2
PG1BM04100R20	4	8	4	100	2	R2
PG1BM0550R25	5	10	5	50	2	R2.5
PG1BM0575R25	5	10	5	75	2	R2.5
PG1BM05100R25	5	10	5	100	2	R2.5
PG1BM0650R25	5	10	6	50	2	R2.5
PG1BM0675R25	5	10	6	75	2	R2.5
PG1BM06100R25	5	10	6	100	2	R2.5
PG1BM0650R30	6	12	6	50	2	R3
PG1BM0675R30	6	12	6	75	2	R3
PG1BM06100R30	6	12	6	100	2	R3
PG1BM0860R40	8	16	8	60	2	R4
PG1BM0875R40	8	16	8	75	2	R4
PG1BM08100R40	8	16	8	100	2	R4
PG1BM1075R50	10	20	10	75	2	R5
PG1BM10100R50	10	20	10	100	2	R5
PG1BM10150R50	10	20	10	150	2	R5
PG1BM1275R60	12	24	12	75	2	R6
PG1BM12100R60	12	24	12	100	2	R6
PG1BM16100R80	16	32	16	100	2	R8
PG1BM16150R80	16	32	16	150	2	R8
PG1BM20100R100	20	40	20	100	2	R10

MILLING

► Corner Radius End Mill

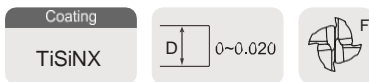
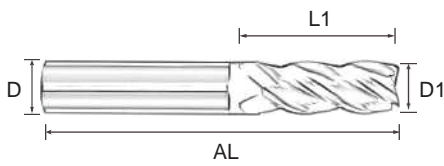


Part No.	DIMENSION					
	D1	L1	D	AL	F	R
PG1RM010450R02	1	3	4	50	4	0.2
PG1RM0150450R02	1.5	4	4	50	4	0.2
PG1RM020450R02	2	5	4	50	4	0.2
PG1RM0250450R02	2.5	6	4	50	4	0.2
PG1RM030350R02	3	8	3	50	4	0.2
PG1RM030450R02	3	8	4	50	4	0.2
PG1RM030475R02	3	9	4	75	4	0.2
PG1RM040450R02	4	10	4	50	4	0.2
PG1RM060450R02	6	15	4	50	4	0.2
PG1RM060475R02	6	20	4	75	4	0.2
PG1RM080460R02	8	20	4	60	4	0.2
PG1RM0150450R05	1.5	4	4	50	4	0.5
PG1RM020450R05	2	5	4	50	4	0.5
PG1RM0250450R05	2.5	6	4	50	4	0.5
PG1RM030450R05	3	8	4	50	4	0.5
PG1RM030350R05	3	8	3	50	4	0.5
PG1RM040450R05	4	10	4	50	4	0.5
PG1RM040475R05	4	16	4	75	4	0.5
PG1RM0404100R05	4	20	4	100	4	0.5
PG1RM060650R05	6	15	6	50	4	0.5
PG1RM060675R05	6	20	6	75	4	0.5
PG1RM0606100R05	6	25	6	100	4	0.5
PG1RM080860R05	8	20	8	60	4	0.5
PG1RM080875R05	8	25	8	75	4	0.5
PG1RM0808100R05	8	30	8	100	4	0.5
PG1RM101075R05	10	25	10	75	4	0.5
PG1RM1010100R05	10	30	10	100	4	0.5
PG1RM121275R05	12	30	12	75	4	0.5
PG1RM1212100R05	12	35	12	100	4	0.5
PG1RM040450R10	4	10	4	50	4	R1
PG1RM0404100R10	4	20	4	100	4	R1
PG1RM060650R10	6	15	6	50	4	R1
PG1RM060675R10	6	20	6	75	4	R1
PG1RM0606100R10	6	25	6	100	4	R1
PG1RM080860R10	8	20	8	60	4	R1
PG1RM080875R10	8	25	8	75	4	R1
PG1RM0808100R10	8	30	8	100	4	R1
PG1RM101075R10	10	25	10	75	4	R1
PG1RM1010100R10	10	30	10	100	4	R1
PG1RM1010150R10	10	50	10	150	4	R1
PG1RM121275R10	12	30	12	75	4	R1
PG1RM1212100R10	12	35	12	100	4	R1

H HRC65 General Purpose

- Applicable materials: ≤HRC65, pre hardened steel, hardened steel, cast iron, ductile iron, etc.
- Characteristic: The high coating hardness and excellent high-temperature oxidation resistance are more suitable for high hardness materials and high-speed machining fields. Special surface post-treatment can effectively reduce friction, discharge chips more smoothly, and the quality of machined surface is better.

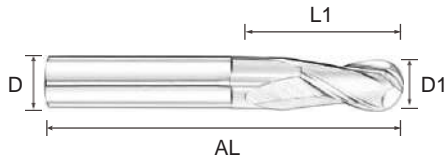
► End Mill



Part No.	DIMENSION					
	D1	L1	D	AL	F	R
PHM010450	1	3	4	50	4	/
PHM0150450	1.5	4	4	50	4	/
PHM020450	2	5	4	50	4	/
PHM0250450	2.5	7	4	50	4	/
PHM030450	3	8	4	50	4	/
PHM030350	3	8	3	50	4	/
PHM0304100	3	12	4	100	4	/
PHM0350450	3.5	9	4	50	4	/
PHM040450	4	10	4	50	4	/
PHM040475	4	16	4	75	4	/
PHM0404100	4	20	4	100	4	/
PHM050550	5	13	5	50	4	/
PHM050575	5	18	5	75	4	/
PHM0505100	5	20	5	100	4	/
PHM050650	5	13	6	50	4	/
PHM050675	5	18	6	75	4	/
PHM060650	6	15	6	50	4	/
PHM060675	6	24	6	75	4	/
PHM0606100	6	30	6	100	4	/
PHM080860	8	20	8	60	4	/
PHM080875	8	25	8	75	4	/
PHM0808100	8	35	8	100	4	/
PHM0808150	8	50	8	150	4	/
PHM101075	10	25	10	75	4	/
PHM1010100	10	40	10	100	4	/
PHM1010150	10	55	10	150	4	/
PHM121275	12	30	12	75	4	/
PHM1212100	12	45	12	100	4	/
PHM1212150	12	55	12	150	4	/
PHM1414150	14	60	14	150	4	/
PHM1616100	16	45	16	100	4	/
PHM1616150	16	70	16	150	4	/
PHM1818100	18	45	18	100	4	/
PHM2020100	20	45	20	100	4	/
PHM2020150	20	70	20	150	4	/

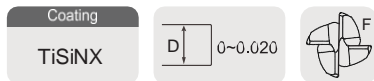
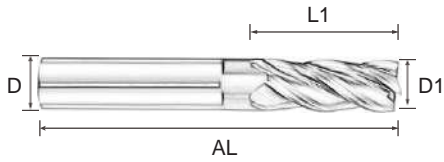
MILLING

► Ball Nose End Mill



Part No.	DIMENSION					
	D1	L1	D	AL	F	R
PHBM0450R05	0.5	2	4	50	2	R0.5
PHBM0450R075	0.75	3	4	50	2	R0.75
PHBM0450R10	1	4	4	50	2	R1
PHBM0450R125	1.25	5	4	50	2	R1.25
PHBM0450R15	1.5	6	4	50	2	R1.5
PHBM0350R15	1.5	6	3	50	2	R1.5
PHBM0450R175	1.75	7	4	50	2	R1.75
PHBM0450R20	2	8	4	50	2	R2
PHBM0475R20	2	8	4	75	2	R2
PHBM04100R20	2	8	4	100	2	R2
PHBM0550R25	2.5	10	5	50	2	R2.5
PHBM05100R25	2.5	10	5	100	2	R2.5
PHBM0650R25	2.5	10	6	50	2	R2.5
PHBM0650R30	3	12	6	50	2	R3
PHBM0675R30	3	12	6	75	2	R3
PHBM06100R30	3	12	6	100	2	R3
PHBM0860R40	4	16	8	60	2	R4
PHBM0875R40	4	16	8	75	2	R4
PHBM08100R40	4	16	8	100	2	R4
PHBM1075R50	5	20	10	75	2	R5
PHBM10100R50	5	20	10	100	2	R5
PHBM10150R50	5	20	10	150	2	R5
PHBM1275R60	6	24	12	75	2	R6
PHBM12100R60	6	24	12	100	2	R6
PHBM16100R80	8	32	16	100	2	R8

► Corner Radius End Mill



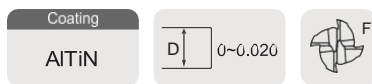
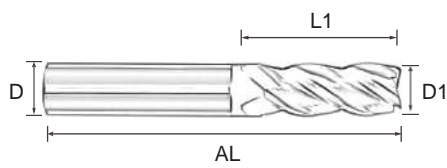
Part No.	DIMENSION					
	D1	L1	D	AL	F	R
PHRM010450R02	1	3	4	50	4	R0.2
PHRM0150450R02	1.5	4	4	50	4	R0.2
PHRM020450R02	2	5	4	50	4	R0.2
PHRM030450R02	3	8	4	50	4	R0.2
PHRM040450R02	4	10	4	50	4	R0.2
PHRM040475R02	4	16	4	75	4	R0.2
PHRM060650R02	6	15	6	50	4	R0.2
PHRM060675R02	6	20	6	75	4	R0.2
PHRM080860R02	8	20	8	60	4	R0.2
PHRM080875R02	8	25	8	75	4	R0.2
PHRM020450R05	2	5	4	50	4	R0.5
PHRM030450R05	3	8	4	50	4	R0.5
PHRM030350R05	3	8	3	50	4	R0.5
PHRM040450R05	4	10	4	50	4	R0.5
PHRM040475R05	4	16	4	75	4	R0.5
PHRM0404100R05	4	20	4	100	4	R0.5
PHRM050650R05	5	13	6	50	4	R0.5
PHRM060650R05	6	15	6	50	4	R0.5
PHRM060675R05	6	20	6	75	4	R0.5
PHRM0606100R05	6	25	6	100	4	R0.5
PHRM080860R05	8	20	8	60	4	R0.5
PHRM080875R05	8	25	8	75	4	R0.5
PHRM0808100R05	8	30	8	100	4	R0.5
PHRM101075R05	10	25	10	75	4	R0.5
PHRM121275R05	12	30	12	75	4	R0.5
PHRM1212100R05	12	35	12	100	4	R0.5
PHRM040450R10	4	10	4	50	4	R1
PHRM060650R10	6	15	6	50	4	R1
PHRM060675R10	6	20	6	75	4	R1
PHRM0606100R10	6	25	6	100	4	R1
PHRM080860R10	8	20	8	60	4	R1
PHRM080875R10	8	25	8	75	4	R1
PHRM101075R10	10	25	10	75	4	R1
PHRM1010100R10	10	30	10	100	4	R1
PHRM1212100R10	12	30	12	100	4	R1

MILLING

K (Ductile) Cast Iron Type Purpose

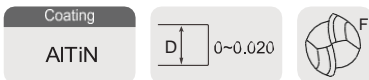
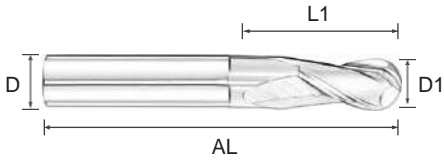
- Suitable for machining pre-hardened steel, hardened steel, cast iron, ductile iron, and other materials with a hardness of \leq HRC 60.
- The AlTiN coating is highly resistant to high temperatures and oxidation, offering a combination of high hardness and low cutting resistance, providing high-performance capabilities.

► End Mill



Part No.	DIMENSION					
	D1	L1	D	AL	F	R
PKM010450	1	3	4	50	4	/
PKM0150450	1.5	4	4	50	4	/
PKM020450	2	5	4	50	4	/
PKM0250450	2.5	7	4	50	4	/
PKM030450	3	8	4	50	4	/
PKM030350	3	8	3	50	4	/
PKM030375	3	9	3	75	4	/
PKM040450	4	10	4	50	4	/
PKM040475	4	16	4	75	4	/
PKM0404100	4	20	4	100	4	/
PKM050550	5	13	5	50	4	/
PKM050575	5	18	5	75	4	/
PKM050650	5	13	6	50	4	/
PKM060650	6	15	6	50	4	/
PKM060675	6	24	6	75	4	/
PKM0606100	6	30	6	100	4	/
PKM080860	8	20	8	60	4	/
PKM080875	8	25	8	75	4	/
PKM0808100	8	35	8	100	4	/
PKM0808150	8	50	8	150	4	/
PKM101075	10	25	10	75	4	/
PKM1010100	10	40	10	100	4	/
PKM121275	12	30	12	75	4	/
PKM1212100	12	45	12	100	4	/
PKM1212150	12	55	12	150	4	/
PKM1414100	14	45	14	100	4	/
PKM1414150	14	60	14	150	4	/
PKM1616100	16	45	16	100	4	/
PKM1616150	16	70	16	150	4	/

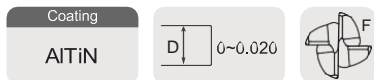
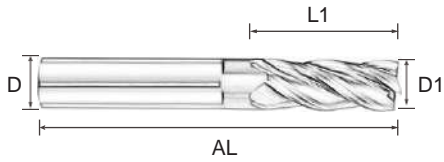
► Ball Nose End Mill



Part No.	DIMENSION					
	D1	L1	D	AL	F	R
PKBM0450R05	1	2	4	50	2	R0.5
PKBM0450R075	1.5	3	4	50	2	R0.75
PKBM0450R10	2	4	4	50	2	R1
PKBM0350R15	3	6	3	50	2	R1.5
PKBM030450R15	3	6	4	50	2	R1.5
PKBM0450R20	4	8	4	50	2	R2
PKBM0475R20	4	8	4	75	2	R2
PKBM04100R20	4	8	4	100	2	R2
PKBM0650R25	5	10	6	50	2	R2.5
PKBM0650R30	6	12	6	50	2	R3
PKBM0675R30	6	12	6	75	2	R3
PKBM06100R30	6	12	6	100	2	R3
PKBM0860R40	8	16	8	60	2	R4
PKBM0875R40	8	16	8	75	2	R4
PKBM08100R40	8	16	8	100	2	R4
PKBM1075R50	10	20	10	75	2	R5
PKBM10100R50	10	20	10	100	2	R5
PKBM1275R60	12	24	12	75	2	R6
PKBM12100R60	12	24	12	100	2	R6

MILLING

► Corner Radius End Mill

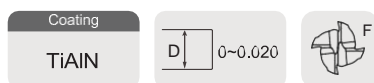
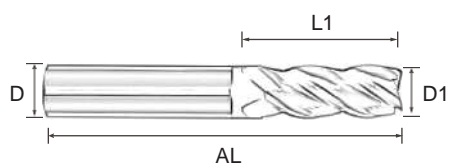


Part No.	DIMENSION					
	D1	L1	D	AL	F	R
PKRM010450R02	1	3	4	50	4	0.2
PKRM0150450R02	1.5	4	4	50	4	0.2
PKRM020450R02	2	5	4	50	4	0.2
PKRM030450R02	3	8	4	50	4	0.2
PKRM040450R02	4	10	4	50	4	0.2
PKRM060650R02	6	15	6	50	4	0.2
PKRM020450R05	2	5	4	50	4	0.5
PKRM030450R05	3	8	4	50	4	0.5
PKRM040450R05	4	10	4	50	4	0.5
PKRM060650R05	6	15	6	50	4	0.5
PKRM060675R05	6	20	6	75	4	0.5
PKRM0606100R05	6	25	6	100	4	0.5
PKRM080860R05	8	20	8	60	4	0.5
PKRM080875R05	8	25	8	75	4	0.5
PKRM0808100R5	8	30	8	100	4	0.5
PKRM101075R05	10	25	10	75	4	0.5
PKRM1010100R05	10	30	10	100	4	0.5
PKRM121275R05	12	30	12	75	4	0.5
PKRM1212100R05	12	35	12	100	4	0.5

S HRC50 Toughness Type

- Suitable for machining carbon steel, alloy steel, cast iron, stainless steel, and other materials with a hardness of \leq HRC 50.
- The TiAlN coating is highly resistant to high temperatures and wear, offering a combination of hardness and toughness for versatile performance.

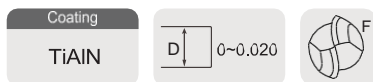
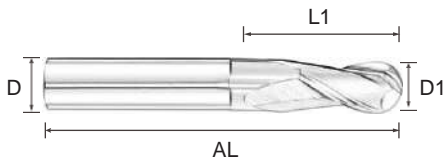
► End Mill



Part No.	DIMENSION					
	D1	L1	D	AL	F	R
PSM010450	1	3	4	50	4	/
PSM0150450	1.5	4	4	50	4	/
PSM020450	2	5	4	50	4	/
PSM0250450	2.5	7	4	50	4	/
PSM030350	3	8	3	50	4	/
PSM030450	3	8	4	50	4	/
PSM0350450	3.5	9	4	50	4	/
PSM040450	4	10	4	50	4	/
PSM040475	4	16	4	75	4	/
PSM0404100	4	20	4	100	4	/
PSM050550	5	13	5	50	4	/
PSM050650	5	13	6	50	4	/
PSM060650	6	15	6	50	4	/
PSM060675	6	24	6	75	4	/
PSM0606100	6	30	6	100	4	/
PSM080860	8	20	8	60	4	/
PSM080875	8	25	8	75	4	/
PSM0808100	8	35	8	100	4	/
PSM101075	10	25	10	75	4	/
PSM1010100	10	40	10	100	4	/
PSM1010150	10	55	10	150	4	/
PSM121275	12	30	12	75	4	/
PSM1212100	12	45	12	100	4	/
PSM1212150	12	55	12	150	4	/
PSM1414100	14	45	14	100	4	/
PSM1414150	14	60	14	150	4	/
PSM1616100	16	45	16	100	4	/
PSM1616150	16	70	16	150	4	/
PSM1818100	18	45	18	100	4	/
PSM2020100	20	45	20	100	4	/

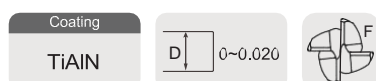
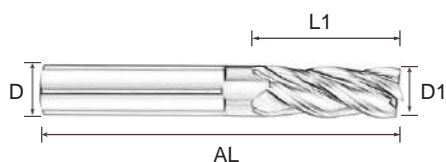
MILLING

► Ball Nose End Mill



Part No.	DIMENSION					
	D1	L1	D	AL	F	R
PSBM0450R05	1	2	4	50	2	R0.5
PSBM0450R075	1.5	3	4	50	2	R0.75
PSBM0450R10	2	4	4	50	2	R1
PSBM0350R15	3	6	3	50	2	R1.5
PSBM0450R15	3	6	4	50	2	R1.5
PSBM0450R20	4	8	4	50	2	R2
PSBM0475R20	4	8	4	75	2	R2
PSBM04100R20	4	8	4	100	2	R2
PSBM0550R25	5	10	5	50	2	R2.5
PSBM0550R25	5	10	6	50	2	R2.5
PSBM0650R30	6	12	6	50	2	R3
PSBM0675R30	6	12	6	75	2	R3
PSBM06100R30	6	12	6	100	2	R3
PSBM0860R40	8	16	8	60	2	R4
PSBM0875R40	8	16	8	75	2	R4
PSBM08100R40	8	16	8	100	2	R4
PSBM1075R50	10	20	10	75	2	R5
PSBM10100R50	10	20	10	100	2	R5
PSBM10200R20	10	20	10	200	2	R5
PSBM1275R60	12	24	12	75	2	R6
PSBM12100R60	12	24	12	100	2	R6
PSBM12150R60	12	24	12	150	2	R6

► Corner Radius End Mill



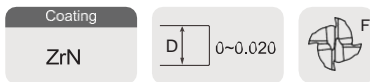
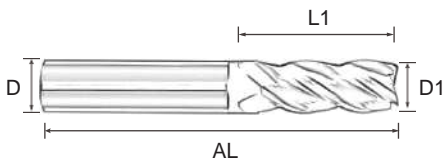
Part No.	DIMENSION					
	D1	L1	D	AL	F	R
PSRM010450R02	1	3	4	50	4	R0.2
PSRM0150450R02	1.5	4	4	50	4	R0.2
PSRM020450R02	2	5	4	50	4	R0.2
PSRM0250450R02	2.5	6	4	50	4	R0.2
PSRM030450R02	3	8	4	50	4	R0.2
PSRM040450R02	4	10	4	50	4	R0.2
PSRM060650R02	6	15	6	50	4	R0.2
PSRM020450R05	2	5	4	50	4	R0.5
PSRM030450R05	3	8	4	50	4	R0.5
PSRM030350R05	3	8	3	50	4	R0.5
PSRM040450R05	4	10	4	50	4	R0.5
PSRM040475R05	4	16	4	75	4	R0.5
PSRM0404100R05	4	20	4	100	4	R0.5
PSRM060650R05	6	15	6	50	4	R0.5
PSRM060675R05	6	20	6	75	4	R0.5
PSRM0606100R05	6	25	6	100	4	R0.5
PSRM080860R05	8	20	8	60	4	R0.5
PSRM080875R05	8	25	8	75	4	R0.5
PSRM0808100R05	8	30	8	100	4	R0.5
PSRM101075R05	10	25	10	75	4	R0.5
PSRM1010100R05	10	30	10	100	4	R0.5
PSRM1010150R05	10	50	10	150	4	R0.5
PSRM121275R05	12	30	12	75	4	R0.5
PSRM1212100R05	12	35	12	100	4	R0.5
PSRM1212150R05	12	55	12	150	4	R0.5
PSRM1414100R05	14	35	14	100	4	R0.5

MILLING

T Titanium Type Purpose

- Suitable for stainless steel (both rough and finish machining), titanium alloys, Kovar alloys, and materials with a hardness of ≤ 45 HRC. It excels particularly in rough machining.
- The unequal division design enhances tool stability and anti-vibration effects during high-speed machining. The low-friction nano-composite coating effectively reduces adhesion issues when machining stainless steel.

► End Mill

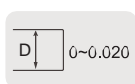
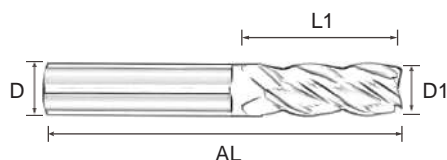


Part No.	DIMENSION					
	D1	L1	D	AL	F	R
PTM010450	1	3	4	50	4	/
PTM0150450	1.5	4	4	50	4	/
PTM020450	2	5	4	50	4	/
PTM0250450	2.5	7	4	50	4	/
PTM030450	3	8	4	50	4	/
PTM030350	3	8	3	50	4	/
PTM040450	4	10	4	50	4	/
PTM040475	4	16	4	75	4	/
PTM0404100	4	20	4	100	4	/
PTM050550	5	13	5	50	4	/
PTM050650	5	13	6	50	4	/
PTM060650	6	15	6	50	4	/
PTM060675	6	24	6	75	4	/
PTM0606100	6	30	6	100	4	/
PTM080860	8	20	8	60	4	/
PTM080875	8	25	8	75	4	/
PTM0808100	8	35	8	100	4	/
PTM101075	10	25	10	75	4	/
PTM1010100	10	40	10	100	4	/
PTM121275	12	30	12	75	4	/
PTM1212100	12	45	12	100	4	/
PTM1616100	16	45	16	100	4	/

SS Special for SUS

- Applicable materials: stainless steel SUS303, SUS304, SUS316L, etc. (<280HB).and materials with a hardness of ≤ 45 HRC. It excels particularly in rough machining.
- Characteristic:The high coating hardness and excellent high-temperature oxidation resistance are more suitable for high hardness materials and high-speed machining fields. Special surface post-treatment can effectively reduce friction, discharge chips more smoothly, and the quality of machined surface is better.

► End Mill



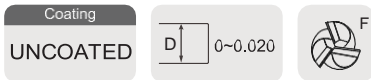
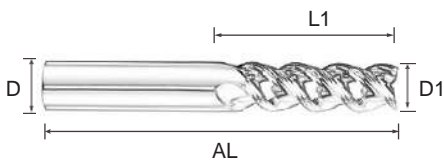
Part No.	DIMENSION					
	D1	L1	D	AL	F	R
PSSM010450	1	3	4	50	4	/
PSSM0150450	1.5	4	4	50	4	/
PSSM020450	2	5	4	50	4	/
PSSM0250450	2.5	7	4	50	4	/
PSSM030350	3	8	3	50	4	/
PSSM030450	3	8	4	50	4	/
PSSM0350450	3.5	9	4	50	4	/
PSSM040450	4	10	4	50	4	/
PSSM050550	5	13	5	50	4	/
PSSM050650	5	13	6	50	4	/
PSSM060650	6	15	6	50	4	/
PSSM060675	6	24	6	75	4	/
PSSM080860	8	20	8	60	4	/
PSSM080875	8	25	8	75	4	/
PSSM0808100	8	35	8	100	4	/
PSSM101075	10	25	10	75	4	/
PSSM1010100	10	40	10	100	4	/
PSSM121275	12	30	12	75	4	/
PSSM1212100	12	45	12	100	4	/
PSSM2020100	20	45	20	100	4	/

MILLING

L *Alu Classic Type*

- Applicable materials: aluminium alloy AL5052, AL6063, AL6061, AL7075, etc; General processing of aluminium alloy (Si ≤ 12%) and copper alloy (<200HB).
- Characteristic: The special cutting edge design effectively prevents vibration and solves the problem of chip sticking on the cutting edge; Water cooling is the best cooling method.

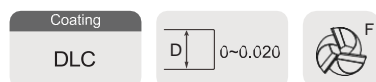
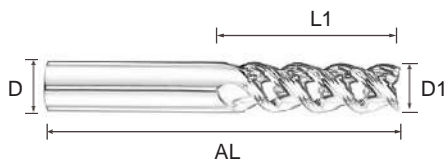
► End Mill



Part No.	DIMENSION					
	D1	L1	D	AL	F	R
PLM020450-3	2	6	4	50	3	/
PLM030450-3	3	9	4	50	3	/
PLM040450-3	4	12	4	50	3	/
PLM050650-3	5	15	6	50	3	/
PLM060650-3	6	18	6	50	3	/
PLM080860-3	8	24	8	60	3	/
PLM101075-3	10	30	10	75	3	/
PLM121275-3	12	36	12	75	3	/

MILLING

► End Mill



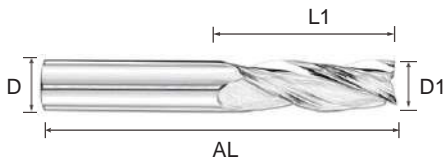
Part No.	DIMENSION					
	D1	L1	D	AL	F	R
PCLM010450-3	1	3	4	50	3	/
PCLM020450-3	2	6	4	50	3	/
PCLM030350-3	3	9	3	50	3	/
PCLM030450-3	3	9	4	50	3	/
PCLM040450-3	4	12	4	50	3	/
PCLM060650-3	6	18	6	50	3	/
PCLM060675-3	6	25	6	75	3	/
PCLM0606100-3	6	30	6	100	3	/
PCLM080860-3	8	24	8	60	3	/
PCLM0808750-3	8	30	8	75	3	/
PCLM0808100-3	8	35	8	100	3	/
PCLM101075-3	10	30	10	75	3	/
PCLM1010100-3	10	40	10	100	3	/
PCLM121275-3	12	36	12	75	3	/
PCLM1212100-3	12	45	12	100	3	/
PCLM1414150-3	14	60	14	150	3	/

MILLING

PL *Fiberglass, Plastic, Alu Sharp Type*

- Suitable for machining aluminium, copper, and fiberglass materials.
- The unequal division design and polished rake face ensure high surface finish and smoother chip evacuation.

► End Mill



Coating
UNCOATED

D₁ 0-0.020

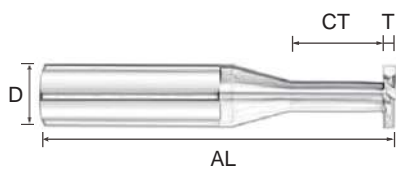


Part No.	DIMENSION					
	D1	L1	D	AL	F	R
PPLM010450	1	3	4	50	3	/
PPLM0150450	1.5	5	4	50	3	/
PPLM020450	2	6	4	50	3	/
PPLM0250450	2.5	7	4	50	3	/
PPLM030450	3	9	4	50	3	/
PPLM030350	3	9	3	50	3	/
PPLM031275	3	12	4	75	3	/
PPLM0350450	3.5	11	4	50	3	/
PPLM040450	4	12	4	50	3	/
PPLM040475	4	16	4	75	3	/
PPLM0404100	4	20	4	100	3	/
PPLM050550	5	15	5	50	3	/
PPLM050650	5	15	6	50	3	/
PPLM060650	6	18	6	50	3	/
PPLM060675	6	25	6	75	3	/
PPLM0606100	6	30	6	100	3	/
PPLM080860	8	24	8	60	3	/
PPLM080875	8	30	8	75	3	/
PPLM0808100	8	35	8	100	3	/
PPLM101075	10	30	10	75	3	/
PPLM1010100	10	40	10	100	3	/
PPLM121275	12	36	12	75	3	/
PPLM1212100	12	45	12	100	3	/
PPLM1414100	14	45	14	100	3	/
PPLM1616100	16	45	16	100	3	/

TS T Slot Tye

- PTSLM-Applicable materials : aluminium , non-ferrous metals.non-metallic. (Uncoated tools)
- PTSM-Applicable materials : carbon steel , alloy steel , quenchedandtempered steel , sus , mould steel , other steel , ductile iro

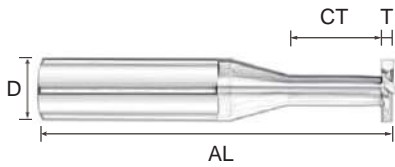
► PTSLM



Part No.	DIMENSION						
	D1	D	AL	F	CD	CL	T
PTSLM030450T05	3	4	50	4T	1.5	6	0.5
PTSLM030450T10	3	4	50	4T	1.5	6	1
PTSLM030450T15	3	4	50	4T	1.5	6	1.5
PTSLM030450T20	3	4	50	4T	1.5	6	2
PTSLM030450T25	3	4	50	4T	1.5	6	2.5
PTSLM030450T30	3	4	50	4T	1.5	6	3
PTSLM030450T35	3	4	50	4T	1.5	6	3.5
PTSLM030450T40	3	4	50	4T	1.5	6	4
PTSLM040450T05	4	4	50	4T	2	8	0.5
PTSLM040450T10	4	4	50	4T	2	8	1
PTSLM040450T15	4	4	50	4T	2	8	1.5
PTSLM040450T20	4	4	50	4T	2	8	2
PTSLM040450T25	4	4	50	4T	2	8	2.5
PTSLM040450T30	4	4	50	4T	2	8	3
PTSLM040450T35	4	4	50	4T	2	8	3.5
PTSLM040450T40	4	4	50	4T	2	8	4
PTSLM060650T05	6	6	50	4T	3	10	0.5
PTSLM060650T10	6	6	50	4T	3	10	1
PTSLM060650T15	6	6	50	4T	3	10	1.5
PTSLM060650T20	6	6	50	4T	3	10	2
PTSLM060650T25	6	6	50	4T	3	10	2.5
PTSLM060650T30	6	6	50	4T	3	10	3
PTSLM060650T35	6	6	50	4T	3	10	3.5
PTSLM060650T40	6	6	50	4T	3	10	4
PTSLM080850T05	8	8	50	4T	3	12	0.5
PTSLM080850T10	8	8	50	4T	3	12	1
PTSLM080850T15	8	8	50	4T	3	12	1.5
PTSLM080850T20	8	8	50	4T	3	12	2
PTSLM080850T25	8	8	50	4T	3	12	2.5
PTSLM080850T30	8	8	50	4T	3	12	3
PTSLM080850T35	8	8	50	4T	3	12	3.5
PTSLM080850T40	8	8	50	4T	3	12	4
PTSLM101060T05	10	10	60	4T	5	15	0.5
PTSLM101060T10	10	10	60	4T	5	15	1
PTSLM101060T15	10	10	60	4T	5	15	1.5
PTSLM101060T20	10	10	60	4T	5	15	2
PTSLM101060T25	10	10	60	4T	5	15	2.5
PTSLM101060T30	10	10	60	4T	5	15	3
PTSLM101060T35	10	10	60	4T	5	15	3.5
PTSLM101060T40	10	10	60	4T	5	15	4
PTSLM121260T05	12	12	60	4T	6	15	0.5
PTSLM121260T10	12	12	60	4T	6	15	1

MILLING

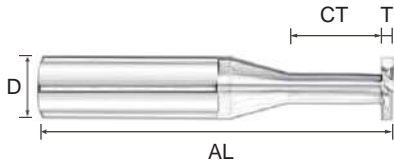
► PTSLM



Part No.	DIMENSION						
	D1	D	AL	F	CD	CL	T
PTSLM121260T15	12	12	60	4T	6	15	1.5
PTSLM121260T20	12	12	60	4T	6	15	2
PTSLM121260T25	12	12	60	4T	6	15	2.5
PTSLM121260T30	12	12	60	4T	6	15	3
PTSLM121260T35	12	12	60	4T	6	15	3.5
PTSLM121260T40	12	12	60	4T	6	15	4
PTSLM161675T10	16	16	75	6T	8	20	1
PTSLM161675T20	16	16	75	6T	8	20	2
PTSLM161675T30	16	16	75	6T	8	20	3
PTSLM161675T40	16	16	75	6T	8	20	4
PTSLM161675T50	16	16	75	6T	8	20	5
PTSLM202075T10	20	20	75	6T	10	20	1
PTSLM202075T20	20	20	75	6T	10	20	2
PTSLM202075T30	20	20	75	6T	10	20	3
PTSLM202075T40	20	20	75	6T	10	20	4
PTSLM202075T50	20	20	75	6T	10	20	5

MILLING

► PTSM



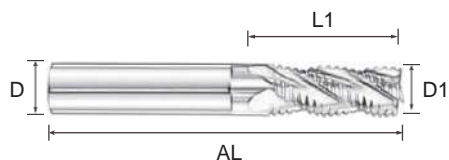
Part No.	DIMENSION						
	D1	D	AL	F	CD	CL	T
PTSM030450T05	3	4	50	4T	1.5	6	0.5
PTSM030450T10	3	4	50	4T	1.5	6	1
PTSM030450T15	3	4	50	4T	1.5	6	1.5
PTSM030450T20	3	4	50	4T	1.5	6	2
PTSM030450T25	3	4	50	4T	1.5	6	2.5
PTSM030450T30	3	4	50	4T	1.5	6	3
PTSM030450T35	3	4	50	4T	1.5	6	3.5
PTSM030450T40	3	4	50	4T	1.5	6	4
PTSM040450T05	4	4	50	4T	2	8	0.5
PTSM040450T10	4	4	50	4T	2	8	1
PTSM040450T15	4	4	50	4T	2	8	1.5
PTSM040450T20	4	4	50	4T	2	8	2
PTSM040450T25	4	4	50	4T	2	8	2.5
PTSM040450T30	4	4	50	4T	2	8	3
PTSM040450T35	4	4	50	4T	2	8	3.5
PTSM040450T40	4	4	50	4T	2	8	4
PTSM060650T05	6	6	50	4T	3	10	0.5
PTSM060650T10	6	6	50	4T	3	10	1
PTSM060650T15	6	6	50	4T	3	10	1.5
PTSM060650T20	6	6	50	4T	3	10	2
PTSM060650T25	6	6	50	4T	3	10	2.5
PTSM060650T30	6	6	50	4T	3	10	3
PTSM060650T35	6	6	50	4T	3	10	3.5
PTSM060650T40	6	6	50	4T	3	10	4
PTSM080850T05	8	8	50	4T	3	12	0.5
PTSM080850T10	8	8	50	4T	3	12	1
PTSM080850T15	8	8	50	4T	3	12	1.5
PTSM080850T20	8	8	50	4T	3	12	2
PTSM080850T25	8	8	50	4T	3	12	2.5
PTSM080850T30	8	8	50	4T	3	12	3
PTSM080850T35	8	8	50	4T	3	12	3.5
PTSM080850T40	8	8	50	4T	3	12	4
PTSM101060T05	10	10	60	4T	5	15	0.5
PTSM101060T10	10	10	60	4T	5	15	1
PTSM101060T15	10	10	60	4T	5	15	1.5
PTSM101060T20	10	10	60	4T	5	15	2
PTSM101060T25	10	10	60	4T	5	15	2.5
PTSM101060T30	10	10	60	4T	5	15	3
PTSM101060T35	10	10	60	4T	5	15	3.5
PTSM101060T40	10	10	60	4T	5	15	4
PTSM121260T05	12	12	60	4T	6	15	0.5
PTSM121260T10	12	12	60	4T	6	15	1
PTSM121260T15	12	12	60	4T	6	15	1.5
PTSM121260T20	12	12	60	4T	6	15	2
PTSM121260T25	12	12	60	4T	6	15	2.5
PTSM121260T30	12	12	60	4T	6	15	3
PTSM121260T35	12	12	60	4T	6	15	3.5
PTSM121260T40	12	12	60	4T	6	15	4
PTSM161675T10	16	16	75	6T	8	20	1
PTSM161675T20	16	16	75	6T	8	20	2
PTSM161675T30	16	16	75	6T	8	20	3
PTSM161675T40	16	16	75	6T	8	20	4
PTSM161675T50	16	16	75	6T	8	20	5
PTSM202075T10	20	20	75	6T	10	20	1
PTSM202075T20	20	20	75	6T	10	20	2
PTSM202075T30	20	20	75	6T	10	20	3
PTSM202075T40	20	20	75	6T	10	20	4
PTSM202075T50	20	20	75	6T	10	20	5

MILLING

R Rough Type

- PRLM-Applicable materials : aluminium , non-ferrous metals.non-metallic. (Uncoated tools)
- PRM-Applicable materials : carbon steel , alloy steel , quenchedandtempered steel , sus , mould steel , other steel , ductile iro

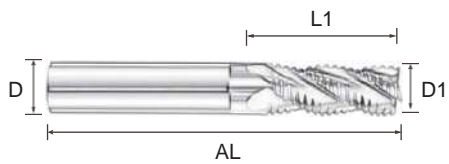
► PRLM



Part No.	DIMENSION					
	D1	L1	D	AL	F	R
PRLM040450	4	10	4	50	4	/
PRLM050550	5	13	5	50	4	/
PRLM060650	6	15	6	50	4	/
PRLM060675	6	24	6	75	4	/
PRLM0606100	6	30	6	100	4	/
PRLM080860	8	20	8	60	4	/
PRLM080875	8	25	8	75	4	/
PRLM0808100	8	35	8	100	4	/
PRLM101075	10	25	10	75	4	/
PRLM1010100	10	40	10	100	4	/
PRLM121275	12	30	12	75	4	/
PRLM1212100	12	45	12	100	4	/
PRLM1414100	14	45	14	100	4	/
PRLM1616100	16	45	16	100	4	/
PRLM1616150	16	70	16	150	4	/
PRLM1818100	18	45	18	100	4	/
PRLM2020100	20	45	20	100	4	/
PRLM2020150	20	70	20	150	4	/

MILLING

► PRM



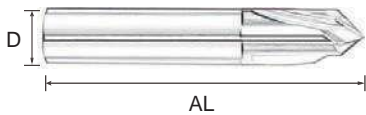
Part No.	DIMENSION					
	D1	L1	D	AL	F	R
PRM040450	4	10	4	50	4	/
PRM050550	5	13	5	50	4	/
PRM060650	6	15	6	50	4	/
PRM060675	6	24	6	75	4	/
PRM0606100	6	30	6	100	4	/
PRM080860	8	20	8	60	4	/
PRM080875	8	25	8	75	4	/
PRM0808100	8	35	8	100	4	/
PRM101075	10	25	10	75	4	/
PRM1010100	10	40	10	100	4	/
PRM121275	12	30	12	75	4	/
PRM1212100	12	45	12	100	4	/
PRM1414100	14	45	14	100	4	/
PRM1616100	16	45	16	100	4	/
PRM1616150	16	70	16	150	4	/
PRM1818100	18	45	18	100	4	/
PRM2020100	20	45	20	100	4	/
PRM2020150	20	70	20	150	4	/

CHAMFERING & DEBURRING

D Common

- PDML-Applicable materials : aluminium , non-ferrous metals.non-metallic. (Uncoated tools)
- PDM-Applicable materials : carbon steel , alloy steel , quenched and tempered steel , sus, mould steel,other steel , ductile iron.

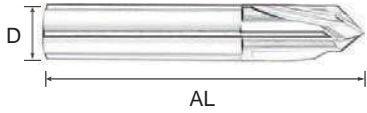
► PDML



Part No.	DIMENSION			
	A	D	AL	F
PDML0450A60	60°	4	50	3
PDML04100A60	60°	4	100	3
PDML0650A60	60°	6	50	3
PDML06100A60	60°	6	100	3
PDML0860A60	60°	8	60	3
PDML008100A60	60°	8	100	3
PDML1075A60	60°	10	75	3
PDML10100A60	60°	10	100	3
PDML1275A60	60°	12	75	3
PDML12100A60	60°	12	100	3
PDML14100A60	60°	14	100	3
PDML16100A60	60°	16	100	3
PDML0450A90	90°	4	50	3
PDML04100A90	90°	4	100	3
PDML0650A90	90°	6	50	3
PDML06100A90	90°	6	100	3
PDML0860A90	90°	8	60	3
PDML08100A90	90°	8	100	3
PDML1075A90	90°	10	75	3
PDML10100A90	90°	10	100	3
PDML1275A90	90°	12	75	3
PDML12100A90	90°	12	100	3
PDML14100A90	90°	14	100	3
PDML16100A90	90°	16	100	3
PDML20100A90	90°	20	100	3
PDML0450A120	120°	4	50	3

CHAMFERING & DEBURRING

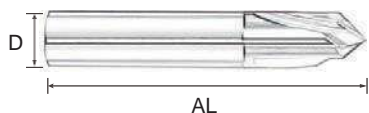
► PDML



Part No.	DIMENSION			
	A	D	AL	F
PDML04100A120	120°	4	100	3
PDML0650A120	120°	6	50	3
PDML06100A120	120°	6	100	3
PDML860A120	120°	8	60	3
PDML08100A120	120°	8	100	3
PDML1075A120	120°	10	75	3
PDML10100A120	120°	10	100	3
PDML1275A120	120°	12	75	3
PDML12100A120	120°	12	100	3
PDML14100A120	120°	14	100	3
PDML16100A120	120°	16	100	3

CHAMFERING & DEBURRING

► PDM



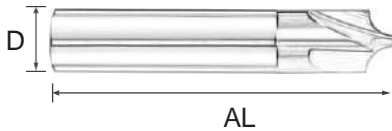
Part No.	DIMENSION			
	A	D	AL	F
PDM0450A60	60°	4	50	3
PDM04100A60	60°	4	100	3
PDM0650A60	60°	6	50	3
PDM06100A60	60°	6	100	3
PDM0860A60	60°	8	60	3
PDM008100A60	60°	8	100	3
PDM1075A60	60°	10	75	3
PDM10100A60	60°	10	100	3
PDM1275A60	60°	12	75	3
PDM12100A60	60°	12	100	3
PDM14100A60	60°	14	100	3
PDM16100A60	60°	16	100	3
PDM0450A90	90°	4	50	3
PDM04100A90	90°	4	100	3
PDM0650A90	90°	6	50	3
PDM06100A90	90°	6	100	3
PDM0860A90	90°	8	60	3
PDM08100A90	90°	8	100	3
PDM1075A90	90°	10	75	3
PDM10100A90	90°	10	100	3
PDM1275A90	90°	12	75	3
PDM12100A90	90°	12	100	3
PDM14100A90	90°	14	100	3
PDM16100A90	90°	16	100	3
PDM20100A90	90°	20	100	3
PDM0450A120	120°	4	50	3
PDM04100A120	120°	4	100	3
PDM0650A120	120°	6	50	3
PDM06100A120	120°	6	100	3
PDM860A120	120°	8	60	3
PDM08100A120	120°	8	100	3
PDM1075A120	120°	10	75	3
PDM10100A120	120°	10	100	3
PDM1275A120	120°	12	75	3
PDM12100A120	120°	12	100	3
PDM14100A120	120°	14	100	3
PDM16100A120	120°	16	100	3

CHAMFERING & DEBURRING

RD Inner Radius

- PRDML-Applicable materials : aluminium , non-ferrous metals.non-metallic. (Uncoated tools)
- PRDM-Applicable materials : carbon steel , alloy steel, quenched and tempered steel, sus, mould steel,other steel , ductile iron.

► PRDML



Part No.	DIMENSION			
	D	AL	F	R
PRDML0450R05	4	50	4	R0.5
PRDML0450R075	4	50	4	R0.75
PRDML0450R10	4	50	4	R1
PRDML0450R15	4	50	4	R1.5
PRDML0650R15	6	50	4	R1.5
PRDML0650R10	6	50	4	R1
PRDML0650R20	6	50	4	R2
PRDML0650R25	6	50	4	R2.5
PRDML0850R25	8	50	4	R2.5
PRDML0850R30	8	50	4	R3
PRDML1060R40	10	60	4	R4
PRDML1260R50	12	60	4	R5
PRDML1680R60	16	80	4	R6
PRDML1880R70	18	80	4	R7
PRDML2080R80	20	80	4	R8
PRDML0450R02	4	50	4	R0.2
PRDML0450R03	4	50	4	R0.3
PRDML0450R04	4	50	4	R0.4
PRDML0450R06	4	50	4	R0.6
PRDML0450R07	4	50	4	R0.7
PRDML0450R08	4	50	4	R0.8
PRDML0450R09	4	50	4	R0.9

CHAMFERING & DEBURRING

► PRDM



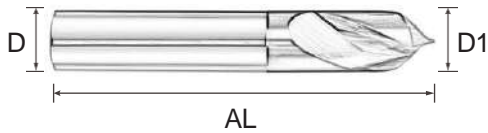
Part No.	DIMENSION			
	D	AL	F	R
PRDM0450R05	4	50	4	R0.5
PRDM0450R075	4	50	4	R0.75
PRDM0450R10	4	50	4	R1
PRDM0450R15	4	50	4	R1.5
PRDM0650R15	6	50	4	R1.5
PRDM0650R10	6	50	4	R1
PRDM0650R20	6	50	4	R2
PRDM0650R25	6	50	4	R2.5
PRDM0850R25	8	50	4	R2.5
PRDM0850R30	8	50	4	R3
PRDM1060R40	10	60	4	R4
PRDM1260R50	12	60	4	R5
PRDM1680R60	16	80	4	R6
PRDM1880R70	18	80	4	R7
PRDM2080R80	20	80	4	R8
PRDM0450R02	4	50	4	R0.2
PRDM0450R03	4	50	4	R0.3
PRDM0450R04	4	50	4	R0.4
PRDM0450R06	4	50	4	R0.6
PRDM0450R07	4	50	4	R0.7
PRDM0450R08	4	50	4	R0.8
PRDM0450R09	4	50	4	R0.9

CHAMFERING & DEBURRING

SD Spiral Center Drill

- PSDML-Applicable materials : aluminium , non-ferrous metals.non-metallic. (Uncoated tools)
- PSDM-Applicable materials : carbon steel , alloy steel , quenched and tempered steel , sus , mould steel,other steel , ductile iron.

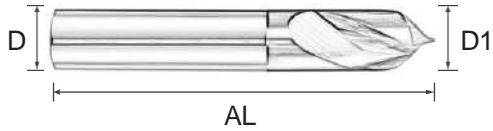
► PSDML



Part No.	DIMENSION				
	D1	D	AL	F	A
PSDML010450	1	4	50	2	90°
PSDML0150450	1.5	4	50	2	90°
PSDML020450	2	4	50	2	90°
PSDML0250450	2.5	4	50	2	90°
PSDML030350	3	3	50	2	90°
PSDML0303100	3	3	100	2	90°
PSDML030450	3	4	50	2	90°
PSDML040450	4	4	50	2	90°
PSDML040475	4	4	75	2	90°
PSDML0404100	4	4	100	2	90°
PSDML0404150	4	4	150	2	90°
PSDML050550	5	5	50	2	90°
PSDML0505100	5	5	100	2	90°
PSDML060650	6	6	50	2	90°
PSDML060675	6	6	75	2	90°
PSDML0606100	6	6	100	2	90°
PSDML0606150	6	6	150	2	90°
PSDML080860	8	8	60	2	90°
PSDML080875	8	8	75	2	90°
PSDML0808100	8	8	100	2	90°
PSDML0808150	8	8	150	2	90°
PSDML101075	10	10	75	2	90°
PSDML1010100	10	10	100	2	90°
PSDML1010150	10	10	150	2	90°
PSDML121275	12	12	75	2	90°
PSDML1212100	12	12	100	2	90°
PSDML1212150	12	12	150	2	90°
PSDML1414100	14	14	100	2	90°
PSDML1616100	16	16	100	2	90°
PSDML2020100	20	20	100	2	90°

CHAMFERING & DEBURRING

► PSDM



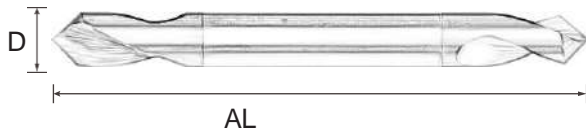
Part No.	DIMENSION				
	D1	D	AL	F	A
PSDM010450	1	4	50	2	90°
PSDM0150450	1.5	4	50	2	90°
PSDM020450	2	4	50	2	90°
PSDM0250450	2.5	4	50	2	90°
PSDM030350	3	3	50	2	90°
PSDM0303100	3	3	100	2	90°
PSDM030450	3	4	50	2	90°
PSDM040450	4	4	50	2	90°
PSDM040475	4	4	75	2	90°
PSDM0404100	4	4	100	2	90°
PSDM0404150	4	4	150	2	90°
PSDM050550	5	5	50	2	90°
PSDM0505100	5	5	100	2	90°
PSDM060650	6	6	50	2	90°
PSDM060675	6	6	75	2	90°
PSDM0606100	6	6	100	2	90°
PSDM0606150	6	6	150	2	90°
PSDM080860	8	8	60	2	90°
PSDM080875	8	8	75	2	90°
PSDM0808100	8	8	100	2	90°
PSDM0808150	8	8	150	2	90°
PSDM101075	10	10	75	2	90°
PSDM1010100	10	10	100	2	90°
PSDM1010150	10	10	150	2	90°
PSDM121275	12	12	75	2	90°
PSDM1212100	12	12	100	2	90°
PSDM1212150	12	12	150	2	90°
PSDM1414100	14	14	100	2	90°
PSDM1616100	16	16	100	2	90°
PSDM2020100	20	20	100	2	90°

CHAMFERING & DEBURRING

2SD Double Spiral Center Drill

- PSDML-Applicable materials : aluminium , non-ferrous metals.non-metallic. (Uncoated tools)
- PSDM-Applicable materials : carbon steel , alloy steel , quenchedandtempered steel , sus , mould steel , other steel , ductile iron

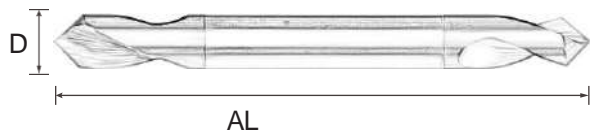
► P2SDML



Part No.	DIMENSION			
	D	AL	F	R
P2SDML04100	4	100	2	90°
P2SDML06100	6	100	2	90°
P2SDML08100	8	100	2	90°
P2SDML10100	10	100	2	90°
P2SDML12100	12	100	2	90°

CHAMFERING & DEBURRING

► P2SDM



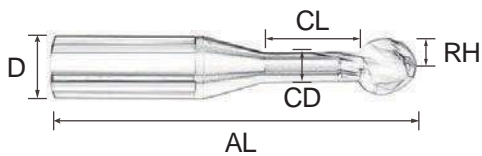
Part No.	DIMENSION			
	D	AL	F	R
P2SDM04100	4	100	2	90°
P2SDM06100	6	100	2	90°
P2SDM08100	8	100	2	90°
P2SDM10100	10	100	2	90°
P2SDM12100	12	100	2	90°

CHAMFERING & DEBURRING

UD Undercutting

- PUDML-Applicable materials : aluminium , non-ferrous metals.non-metallic. (Uncoated tools)
- PUDM-Applicable materials : carbon steel , alloy steel , quenched and tempered steel, sus , mould steel, other steel , ductile iron.

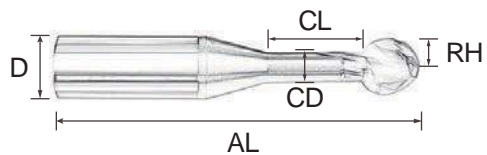
► PUDML



Part No.	DIMENSION					
	D	AL	F	CD	CL	RH
PUDML0450R05	4	50	2	0.5	2	R0.5
PUDML0450R075	4	50	2	0.75	3	R0.75
PUDML0450R10	4	50	2	1	4	R1
PUDML0450R15	4	50	2	1.5	6	R1.5
PUDML0450R20	4	50	2	2	6	R2
PUDML0650R25	6	50	2	2.5	10	R2.5
PUDML0650R30	6	50	2	3	10	R3
PUDML0860R40	8	60	2	4	12	R4
PUDML1060R50	10	60	2	5	15	R5
PUDML1260R60	12	60	2	6	15	R6
PUDML1675R80	16	75	2	8	25	R8
PUDML1875R90	18	75	2	9	25	R9

CHAMFERING & DEBURRING

► PUDM



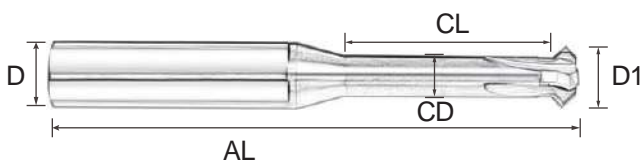
Part No.	DIMENSION					
	D	AL	F	CD	CL	RH
PUDM0450R05	4	50	2	0.5	2	R0.5
PUDM0450R075	4	50	2	0.75	3	R0.75
PUDM0450R10	4	50	2	1	4	R1
PUDM0450R15	4	50	2	1.5	6	R1.5
PUDM0450R20	4	50	2	2	6	R2
PUDM0650R25	6	50	2	2.5	10	R2.5
PUDM0650R30	6	50	2	3	10	R3
PUDM0860R40	8	60	2	4	12	R4
PUDM1060R50	10	60	2	5	15	R5
PUDM1260R60	12	60	2	6	15	R6
PUDM1675R80	16	75	2	8	25	R8
PUDM1875R90	18	75	2	9	25	R9

CHAMFERING & DEBURRING

2UD Forward / Reverse

- P2UDML-Applicable materials : aluminium, non-ferrous metals, non-metallic. (Uncoated tools)
- P2UDM-Applicable materials : carbon steel , alloy steel , quenched and tempered steel , sus , mould steel , other steel , ductile iron

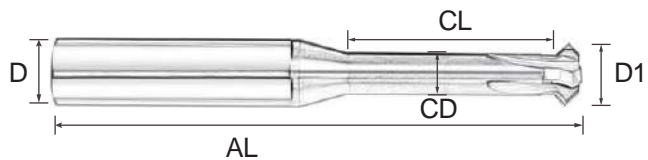
► P2UDML



Part No.	DIMENSION						
	D1	AL	D	F	CD	CL	A
P2UDML020450	2	50	4	4	1.2	8	90°
P2UDML0250450	2.5	50	4	4	1.5	10	90°
P2UDML030450	3	50	4	4	1.8	12	90°
P2UDML040450	4	50	4	4	2.4	16	90°
P2UDML050650	5	50	6	4	2.8	20	90°
P2UDML060650	6	50	6	4	3	25	90°
P2UDML080860	8	60	8	4	4.8	28	90°
P2UDML101075	10	75	10	4	6.3	35	90°
P2UDML121275	12	75	12	4	7	42	90°

CHAMFERING & DEBURRING

► P2UDM



Part No.	DIMENSION						
	D1	AL	D	F	CD	CL	A
P2UDM020450	2	50	4	4	1.2	8	90°
P2UDM0250450	2.5	50	4	4	1.5	10	90°
P2UDM030450	3	50	4	4	1.8	12	90°
P2UDM040450	4	50	4	4	2.4	16	90°
P2UDM050650	5	50	6	4	2.8	20	90°
P2UDM060650	6	50	6	4	3	25	90°
P2UDM080860	8	60	8	4	4.8	28	90°
P2UDM101075	10	75	10	4	6.3	35	90°
P2UDM121275	12	75	12	4	7	42	90°

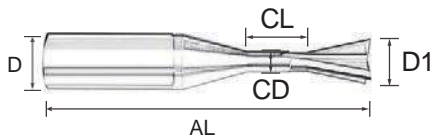
CHAMFERING & DEBURRING

YD *Dovetail*

•PYDML-Applicable materials : aluminium , non-ferrous metals.non-metallic. (Uncoated tools)

*PYDM-Applicable materials : carbon steel , alloy steel , quenched and tempered steel,sus,mould steel,other steel,ductile iron.

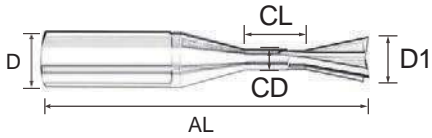
► PYDML



Part No.	DIMENSION						
	D1	D	AL	F	CD	CL	A
PYDML0150450A30	1.5	4	50	4	0.75	3	30°
PYDML020450A30	2	4	50	4	1	4	30°
PYDML0250450A30	2.5	4	50	4	1.25	5	30°
PYDML030450A30	3	4	50	4	1.5	6	30°
PYDML040450A30	4	4	50	4	2	6	30°
PYDML050650A30	5	6	50	4	2.5	10	30°
PYDML060650A30	6	6	50	4	3	10	30°
PYDML080850A30	8	8	50	4	4	12	30°
PYDML101060A30	10	10	60	4	5	15	30°
PYDML121260A30	12	12	60	4	6	15	30°
PYDML0150450A60	1.5	4	50	4	0.75	3	60°
PYDML020450A60	2	4	50	4	1	4	60°
PYDML0250450A60	2.5	4	50	4	1.25	5	60°
PYDML030450A60	3	4	50	4	1.5	6	60°
PYDML040450A60	4	4	50	4	2	6	60°
PYDML050650A60	5	6	50	4	2.5	10	60°
PYDML060650A60	6	6	50	4	3	10	60°
PYDML080850A60	8	8	50	4	4	12	60°
PYDML101060A60	10	10	60	4	5	15	60°
PYDML121260A60	12	12	60	4	6	15	60°
PYDML010450A90	1	4	50	4	0.5	2	90°
PYDML0150450A90	1.5	4	50	4	0.75	3	90°
PYDML020450A90	2	4	50	4	1	4	90°
PYDML0250450A90	2.5	4	50	4	1.25	5	90°
PYDML030450A90	3	4	50	4	1.5	6	90°
PYDML040450A90	4	4	50	4	2	6	90°
PYDML050650A90	5	6	50	4	2.5	10	90°
PYDML060650A90	6	6	50	4	3	10	90°
PYDML080850A90	8	8	50	4	4	12	90°
PYDML101060A90	10	10	60	4	5	15	90°
PYDML121260A90	12	12	60	4	6	15	90°

CHAMFERING & DEBURRING

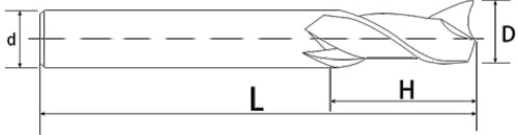
► PYDM



Part No.	DIMENSION						
	D1	D	AL	F	CD	CL	A
PYDML0150450A30	1.5	4	50	4	0.75	3	30°
PYDML020450A30	2	4	50	4	1	4	30°
PYDML0250450A30	2.5	4	50	4	1.25	5	30°
PYDML030450A30	3	4	50	4	1.5	6	30°
PYDML040450A30	4	4	50	4	2	6	30°
PYDML050650A30	5	6	50	4	2.5	10	30°
PYDML060650A30	6	6	50	4	3	10	30°
PYDML080850A30	8	8	50	4	4	12	30°
PYDML101060A30	10	10	60	4	5	15	30°
PYDML121260A30	12	12	60	4	6	15	30°
PYDML0150450A60	1.5	4	50	4	0.75	3	60°
PYDML020450A60	2	4	50	4	1	4	60°
PYDML0250450A60	2.5	4	50	4	1.25	5	60°
PYDML030450A60	3	4	50	4	1.5	6	60°
PYDML040450A60	4	4	50	4	2	6	60°
PYDML050650A60	5	6	50	4	2.5	10	60°
PYDML060650A60	6	6	50	4	3	10	60°
PYDML080850A60	8	8	50	4	4	12	60°
PYDML101060A60	10	10	60	4	5	15	60°
PYDML121260A60	12	12	60	4	6	15	60°
PYDML010450A90	1	4	50	4	0.5	2	90°
PYDML0150450A90	1.5	4	50	4	0.75	3	90°
PYDML020450A90	2	4	50	4	1	4	90°
PYDML0250450A90	2.5	4	50	4	1.25	5	90°
PYDML030450A90	3	4	50	4	1.5	6	90°
PYDML040450A90	4	4	50	4	2	6	90°
PYDML050650A90	5	6	50	4	2.5	10	90°
PYDML060650A90	6	6	50	4	3	10	90°
PYDML080850A90	8	8	50	4	4	12	90°
PYDML101060A90	10	10	60	4	5	15	90°
PYDML121260A90	12	12	60	4	6	15	90°

MILLING

One Flutes Carbide End Mills For Aluminium



DIMENSION			
D	H	d	L
0.4	1, 1.5, 2	3.175	38.5
0.5	1.5, 2, 2.5, 3	3.175	38.5
0.6	1.5, 2, 3, 3.5	3.175	38.5
0.8	2, 3, 4, 5	3.175	38.5
1.0	1, 1.5, 3, 4, 5, 6, 7	3.175	38.5
1.5	3, 4, 6, 8, 10, 12	3.175	38.5
2.0	3, 4, 6, 8, 10, 12, 17	3.175	38.5
2.0	22	3.175	45
2.5	3, 4, 6, 8, 10, 12, 17	3.175	38.5
2.5	21, 22	3.175	45
3.0	4, 6, 8, 10, 12, 15	3.175	38.5
3.2	6, 8, 10, 12, 15, 17	3.175	38.5
3.2	22	3.175	45
3.2	25, 26	3.175	50
3.2	32	3.175	55
3.2	35	3.175	60
3.2	42	3.175	70
4.0	4, 6, 8, 10, 12, 15, 17, 22	4	45
4.0	25	4	50
4.0	28	4	55
4.0	32	4	55
4.0	35	4	60
4.0	42	4	70
5.0	17, 22, 25	5	60
6.0	12, 15, 17, 22, 25	6	50
6.0	28	6	55
6.0	32	6	55
6.0	35	6	60
6.0	42	6	70
6.0	52	6	75
6.0	62	6	100
8.0	17, 22, 25	8	60
8.0	28	8	60
8.0	32	8	65
8.0	37	8	65
8.0	42	8	75
8.0	52	8	100
10.0	25	10	75
10.0	30	10	75
10.0	35	10	75
10.0	42	10	75
10.0	52	10	100
10.0	62	10	100
12.0	25	12	75
12.0	30, 35	12	75
12.0	42	12	75
12.0	52	12	100

Solid Carbide Thread Mill



3D

CONTENTS

I _____ **SINGLE FORM**

ISO Z General Purpose
ISO Z Total Extended General Purpose
ISO Z Relief Extended Range General Purpose
ISO X Range Alu & Plastic Type Purpose
ISO Y Titanium & High Temperature Type Purpose
ISO Y Range Titanium & High Temperature Type Purpose
W 55° Z Range General Purpose
TR 30° Z Range General Purpose
ACME 29° Z Range General Purpose
PG 80° Z Range General Purpose

II _____ **TRI FORM**

ISO Z General Purpose
ISO Z Total Extended General Purpose
ISO Z Relief Extended Range General Purpose
ISO X Range Alu & Plastic Type Purpose
ISO Y Titanium & High Temperature Type Purpose
ISO Y Range Extended Titanium & High Temperature Type Purpose
ISO W High Hardness Steel Type Purposee
UN Z General Purpose
MJ Y Titanium & High Temperature Type Purpose

III _____ **MULTI-FORM**

ISO Z General Purpose
UN Z Range General Purpose
BSP Z General Purpose
BSPT Z General Purpose
NPT Z General Purpose
NPTF Z General Purpose

IV _____ **DOUBLE-FORM**

ISO W High Hardness Steel Type Purpose

V _____ **DRILLING&THREAD MILLING**

ISO X Alu & Plastic Type Purpose
ISO Z General Purpose

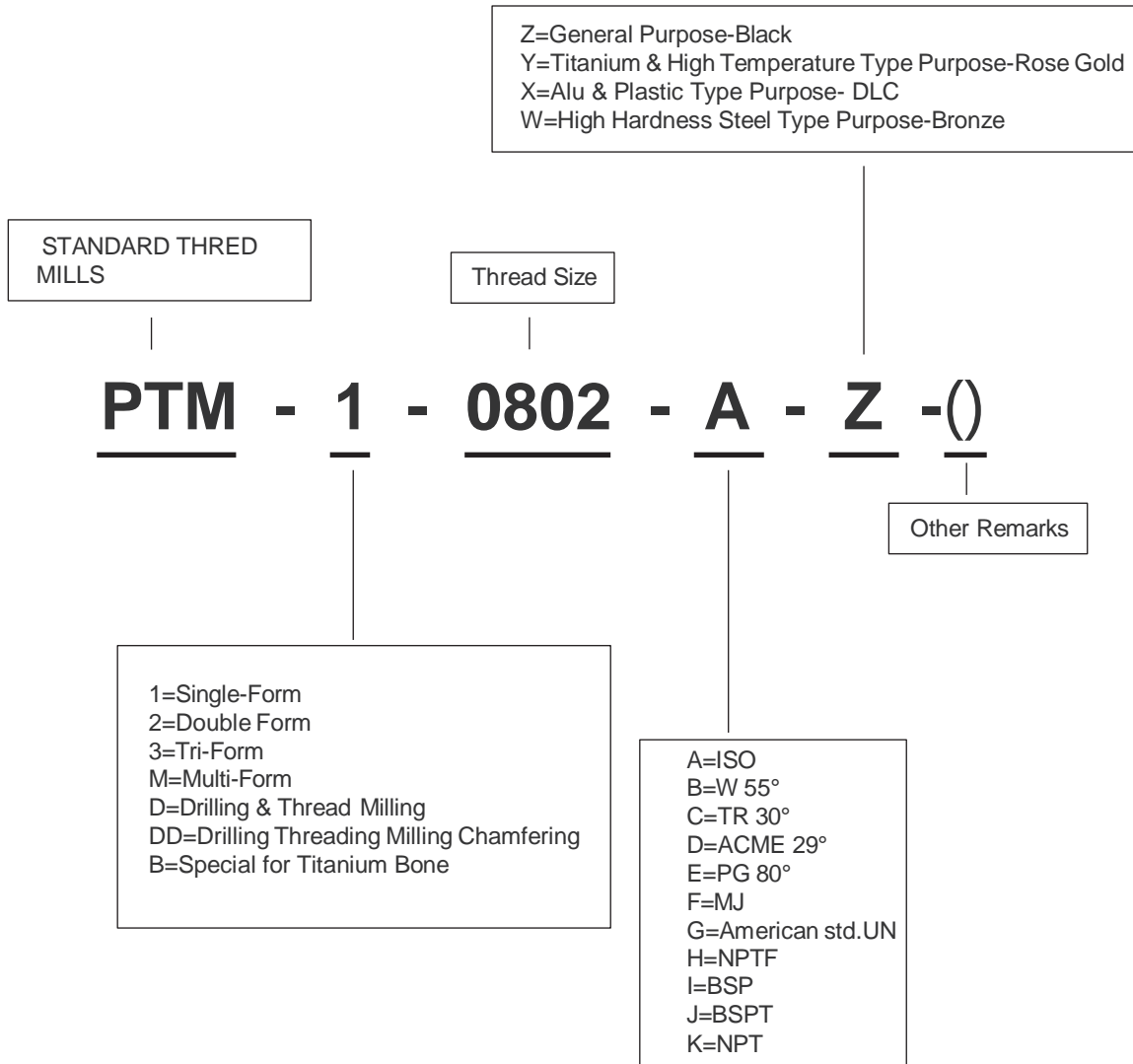
VI _____ **DRILLING , THREAD MILLING , CHAMFERING**

ISO X Alu & Plastic Type Purpose
ISO Z General Purpose

VII _____ **SPECIAL FOR TITANIUM BONE**

ISO Z General Purpose

HOW TO USE PRODUCT CODE



SINGLE FORM

ISO Z General Purpose

- Applicable materials: carbon steel, stainless steel, alloy steel, pre-hardened steel, cast iron and other materials

⊙ = Best ○ = Good

P			H				K	M	N				S	
			Hardened Steel											
Carbon Steel	Alloy Steel	Prehardened Steel	+0-0.05	+0-0.10	+0-0.15	+0-0.20	Cast Iron	Spring Steels	Aluminum Alloys	Copper Alloys	Plastic, Cement	Acrylic	Superalloy	Titanium alloy
⊙	⊙	⊙	○				⊙	⊙						



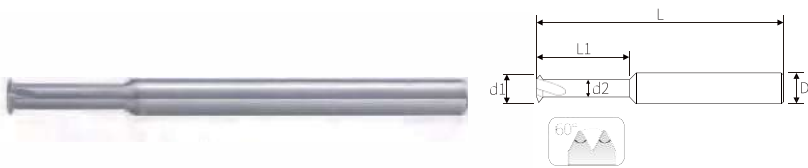
Part No.	MODEL	DIMENSION					
	mm	d1	d2	L1	D	L	Flutes
PTM10802AZ	M0.8*0.2	0.55	0.32	1.5	4	50	2
PTM1090225AZ	M0.9*0.225	0.625	0.35	1.8	4	50	2
PTM110025AZ	M1.0*0.25	0.72	0.43	2.5	4	50	2
PTM112025AZ	M1.2*0.25	0.9	0.63	3.2	4	50	2
PTM11403AZ	M1.4*0.3	1.05	0.7	3.5	4	50	3
PTM116035AZ	M1.6*0.35	1.2	0.8	4	4	50	3
PTM12004AZ	M2.0*0.4	1.55	0.9	6	4	50	3
PTM125045AZ	M2.5*0.45	1.96	1.3	6.5	4	50	4
PTM13005AZ	M3.0*0.5	2.35	1.6	8	4	50	4
PTM14007AZ	M4.0*0.7	3.15	2.1	10	4	50	4
PTM15008AZ	M5.0*0.8	3.9	2.8	12	4	50	4
PTM16010AZ	M6.0*1.0	4.8	3.4	15	6	50	4
PTM180125AZ	M8.0*1.25	6	4.2	20	6	60	4
PTM11015AZ	M10*1.5	7.7	5.6	25	8	60	4
PTM112175AZ	M12*1.75	9.6	7.3	30	10	75	4
PTM11420AZ	M14*2.0	10	7.3	36	10	75	4
PTM11825AZ	M18*2.5	12	8.8	38	12	75	4
PTM12430AZ	M24*3.0	14	10.2	48	14	100	6
PTM13035AZ	M30*3.5	16	11.5	50	16	100	6

ISO Z Total Extended *General Purpose*

- Full length extra length

⊙ = Best ○ = Good

P			H				K	M	N					S	
Carbon Steel	Alloy Steel	Prehardened Steel	Hardened Steel				Cast Iron	Stainless Steels	Aluminium Alloys	Copper Alloys	Plastic/Cement	Acrylic	Superalloy	Titanium alloy	
⊙	⊙	⊙	○					⊙	⊙						



Part No.	MODEL	DIMENSION						Flutes
	mm	d1	d2	L1	D	L		
PTM11403AZ100	M1.4*0.3	1.05	0.7	3.5	4	100	3	
PTM116035AZ100	M1.6*0.35	1.2	0.8	4	4	100	3	
PTM12004AZ100	M2.0*0.4	1.55	0.9	6	4	100	3	
PTM125045AZ100	M2.5*0.45	1.96	1.3	6.5	4	100	4	
PTM13005AZ100	M3.0*0.5	2.35	1.6	8	4	100	4	
PTM14007AZ100	M4.0*0.7	3.15	2.1	10	4	100	4	
PTM15008AZ100	M5.0*0.8	3.9	2.8	12	4	100	4	
PTM16010AZ100	M6.0*1.0	4.8	3.4	15	6	100	4	
PTM180125AZ100	M8.0*1.25	6	4.2	20	6	100	4	
PTM11015AZ100	M10*1.5	7.7	5.6	25	8	100	4	
PTM112175AZ100	M12*1.75	9.6	7.3	30	10	100	4	
PTM11420AZ100	M14*2.0	10	7.3	36	10	100	4	
PTM11825AZ100	M18*2.5	12	8.8	38	12	100	4	
PTM12430AZ100	M24*3.0	14	10.2	48	14	100	6	
PTM13035AZ100	M30*3.5	16	11.5	50	16	100	6	

SINGLE FORM

ISO Z Relief Extended Range *General Purpose*

- Applicable materials: carbon steel, stainless steel, alloy steel, pre-hardened steel, cast iron and other materials
- Extended blade length

P			H				A	M	N				S	
Carbon Steel	Alloy Steel	Prehardened Steel	Hardened Steel				Cast Iron	Stainless Steels	Aluminium Alloys	Copper Alloys	Plastic, Cement	Acrylic	Superalloy	Titanium alloy
			~45HRC	~55HRC	~60HRC	~65HRC								
⊙	⊙	⊙	○				⊙	⊙						

⊙ = Best ○ = Good



Part No.	Thread Model			PITCH	DIMENSION						
	Coarse	Fine	UN		mm	tpi	d1	d2	L1	D	L
PTM10508AZ	M5x0.8	M5x0.5 M5X0.75	No.10-56UNS, No.10-48UNS, No.40UNS	0.5-0.8	32-56	3.9	2.8	16	4	50	4
PTM10510AZ	M6x1.0	M6x0.5 M6X0.75	No.12-56UNS, No.12-48UNS, 1/4-40UNS, 1/4-36UNS, 1/4-32UNEF, 1/4-28UNF, 1/4-27UNS, 1/4-24UNS	0.5-1.0	24-56	4.85	3.5	20	6	60	5
PTM105125AZ	M8x1.25	M7x0.5 M7X0.75 M7.5X1.0	5/16-48UNS, 5/16-40UNS, 5/16-36UNS, 5/16-36UNEF, 5/16-28UN, 5/16-27UNS, 5/16-24UNS, 5/16-20UNS	0.5-1.25	20-48	5.9	4.2	25	6	60	5
PTM1051098ZAZ		M10x0.5 M11X0.75 M11X1.0	7/16-32UNS, 7/16-28UNEF, 7/16-27UNS, 7/16-24UNS	0.5-1.0	24-56	9.8	8.5	35	10	75	6
PTM11015AZ	M10x1.5	M10x1.0 M10X1.25	3/8-24UNF, 3/8-20NS, 7/16-18UNS, 7/16-16UNS	1.0-1.50	13-24	7.9	5.8	32	8	75	6
PTM110175AZ	M12x1.75	M12x1.0 M12X1.25 M12X1.5	1/2-24UNS, 1/2-20UNS, 1/2-18UNS, 1/2-16UNS, 1/2-14UNS	1.0-1.75	14-24	9.9	7.6	38	10	75	6
PTM11020AZ	M16x2.0	M13.5X1.0 M14X1.25 M14X1.5	9/16-24UNEF, 9/16-18UNF, 5/8-18UNF, 3/4-16UNF, 7/8-14UNF	1.0-2.0	14-24	11.9	9.6	40	12	75	6
PTM12030AZ	M18x2.5 M20x2.5 M22x2.5 M24x3.0 M27x3.0		9/16-12UNC, 5/8-11UNC 3/4-10UNC, 7/8-9UNC	2.0-3.0	9-12	14	10.2	48	14	100	6
PTM12035AZ	M20x2.5 M22x2.5 M24x3.0 M27x3.0 M30x3.5 M33x3.5		9/16-12UNC, 5/8-11UNC 3/4-10UNC, 1-8UNC	2.0-3.5	8-12	16	11.5	50	16	100	6

ISO X Range *Alu & Plastic Type Purpose*

- Applicable materials: aluminium alloy, copper alloy, plastic, acrylic and other materials

⊙ = Best ○ = Good

P			H				K	M	N				S	
			Hardened Steel											
Carbon Steel	Alloy Steel	Prehardened Steel	~48HRC	~55HRC	~60HRC	~65HRC	Cast Iron	Stainless Steels	Aluminium Alloys	Copper Alloys	Plastic/Cement	Acrylic	Superalloy	Titanium alloy
									⊙	⊙	⊙	⊙		

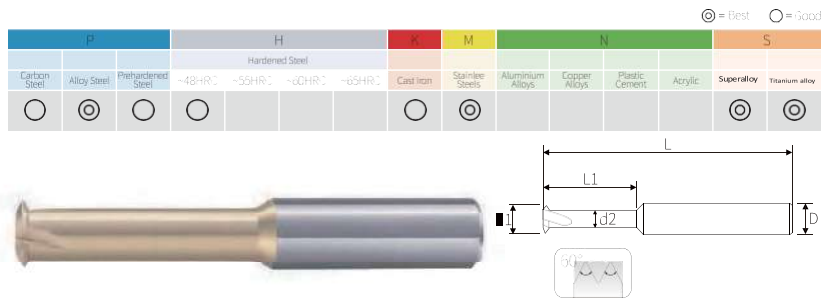


Part No.	MODEL	DIMENSION					
	mm	d1	d2	L1	D	L	Flutes
PTM110025AX	P0.25	0.72	0.43	2.5	4	50	2
PTM112025AX	P0.25	0.9	0.63	3.2	4	50	2
PTM1025035AX	P0.3	1.05	0.6	3.5	4	50	3
PTM102503512AX	P0.35	1.2	0.75	4	4	50	3
PTM10405AX	P0.4-P0.5	1.55	0.9	6	4	50	3
PTM104506AX	P0.45-P0.6	1.96	1.1	6.5	4	50	4
PTM10507AX	P0.5-P0.7	2.35	1.4	8	4	50	4
PTM10510AX	P0.5-P1.0	3.15	2	10	4	50	4
PTM10510AX2	P0.5-P1.0	3.9	2.5	12	4	50	4
PTM10515AX	P0.5-P1.5	4.8	2.9	15	6	50	4
PTM105156AX	P0.5-P1.5	6	4	20	6	50	4
PTM10820AX	P0.8-P2.0	7.7	4.8	25	8	60	4
PTM11025AX	P1.0-P2.5	9.6	6	30	10	75	4
PTM11030AX	P1.0-P3.0	10	6	36	10	75	4
PTM112535AX	P1.25-3.5	12	7.3	38	12	75	4

SINGLE FORM

ISO Y Titanium & High Temperature Type Purpose

- Applicable materials: stainless steel, high temperature alloy, alloy steel, titanium alloy and other materials



Part No.	MODEL	DIMENSION					
	mm	d1	d2	L1	D	L	Flutes
PTM112025AY	M1.2*0.25	0.9	0.63	3.2	4	50	4
PTM11403AY	M1.4*0.3	1.05	0.7	3.5	4	50	4
PTM116035AY	M1.6*0.35	1.2	0.8	4	4	50	3
PTM12004AY	M2.0*0.4	1.55	0.9	6	4	50	3
PTM125045AY	M2.5*0.45	1.96	1.3	6.5	4	50	4
PTM13005AY	M3.0*0.5	2.35	1.6	8	4	50	4
PTM14007AY	M4.0*0.7	3.15	2.1	10	4	50	4
PTM15008AY	M5.0*0.8	3.9	2.8	12	4	50	4
PTM16010AY	M6.0*1.0	4.8	3.4	15	6	50	4
PTM180125AY	M8.0*1.25	6	4.2	20	6	60	4
PTM11015AY	M10*1.5	7.7	5.6	25	8	60	4
PTM112175AY	M12*1.75	9.6	7.3	30	10	75	4
PTM11420AY	M14*2.0	10	7.3	36	10	75	4
PTM11825AY	M18*2.5	12	8.8	38	12	75	4
PTM12430AY	M24*3.0	14	10.2	48	14	100	6
PTM13035AY	M30*3.5	16	11.5	50	16	100	6

ISO Y Range *Titanium & High Temperature Type Purpose*

- Applicable materials: stainless steel, high temperature alloy, alloy steel, titanium alloy and other materials

⊗ = Best ⊙ = Good

P			H				F	M	N				S	
Hardened Steel			Hardened Steel				Cast Iron	Stainless Steels	Aluminum Alloys	Copper Alloys	Plastic/Cement	Acrylic	Superalloy	Titanium alloy
Carbon Steel	Alloy Steel	Prehardened Steel	~48HRC	~53HRC	~60HRC	~65HRC								
⊙	⊗	⊙	⊙				⊙	⊗					⊗	⊗



Part No.	Thread Model			PITCH	DIMENSION						
	Coarse	Fine	UN		mm	tpi	d1	d2	L1	D	L
PTM10508AY	M5x0.8	M5x0.5 M5X0.75	No.10-56UNS, No.10-48UNS, No.40UNS	0.5-0.8	32-56	3.9	2.8	16	4	50	4
PTM10510AY	M6x1.0	M6x0.5 M6X0.75	No.12-56UNS, No.12-48UNS, 1/4-40UNS, 1/4-36UNS, 1/4-32UNEF, 1/4-28UNF, 1/4-27UNS, 1/4-24UNS	0.5-1.0	24-56	4.85	3.5	20	6	60	5
PTM105125AY	M8x1.25	M7x0.5 M7X0.75 M7.5X1.0	5/16-48UNS, 5/16-40UNS, 5/16-36UNS, 5/16-36UNEF, 5/16-28UN, 5/16-27UNS, 5/16-24UNS, 5/16-20UNS	0.5-1.25	20-48	5.9	4.2	25	6	60	5
PTM10510AY2		M10x0.5 M11X0.75 M11X1.0	7/16-32UNS, 7/16-28UNEF, 7/16-27UNS, 7/16-24UNS	0.5-1.0	24-56	9.8	8.5	35	10	75	6
PTM11015AY	M10x1.5	M10x1.0 M10X1.25	3/8-24UNF, 3/8-20NS, 7/16-18UNS, 7/16-16UNS	1.0-1.50	13-24	7.9	5.8	32	8	75	6
PTM110175AY	M12x1.75	M12x1.0 M12X1.25 M12X1.5	1/2-24UNS, 1/2-20UNS, 1/2-18UNS, 1/2-16UNS, 1/2-14UNS	1.0-1.75	14-24	9.9	7.6	38	10	75	6
PTM11020AY	M16x2.0	M13.5X1.0 M14X1.25 M14X1.5	9/16-24UNEF, 9/16-18UNF, 5/8-18UNF, 3/4-16UNF, 7/8-14UNF	1.0-2.0	14-24	11.9	9.6	40	12	75	6
PTM12030AY	M18x2.5 M20x2.5 M22x2.5 M24x3.0 M27x3.0		9/16-12UNC, 5/8-11UNC 3/4-10UNC, 7/8-9UNC	2.0-3.0	9-12	14	10.2	48	14	100	6
PTM12035AY	M20x2.5 M22x2.5 M24x3.0 M27x3.0 M30x3.5 M33x3.5		9/16-12UNC, 5/8-11UNC 3/4-10UNC, 1-8UNC	2.0-3.5	8-12	16	11.5	50	16	100	6

SINGLE FORM

W 55° Z Range *General Purpose*

- Applicable materials: carbon steel, stainless steel, alloy steel, pre-hardened steel, cast iron and other materials

⊙ = Best ○ = Good

P			H				A	M	N				S	
Carbon Steel	Alloy Steel	Prehardened Steel	Hardened Steel				Cast Iron	Stainless Steels	Aluminum Alloys	Copper Alloys	Plastic/Cement	Acrylic	Superalloy	Titanium alloy
-48HRC	-55HRC	-60HRC	-65HRC	-70HRC	-75HRC	-80HRC								
⊙	⊙	⊙	○				⊙	⊙					○	



Part No.	MODEL	Pitch	DIMENSION						
			d1	angel	d2	L1	D	L	Flutes
PTM107937BZ	W5/32-32	P0.793	3.1	55°	1.9	8	4	50	4
PTM11058BZ	W3/16-24	P1.058	3.5	55°	2	10	4	50	4
PTM1127BZ	W1/4-20	P1.27	4	55°	2.2	12	4	50	4
PTM109071411BZ	W5/16-18	P0.907-P1.411	6	55°	4.5	14	6	50	4
	G1/16-28								
	G1/8-28								
PTM113361814BZ	W7/16-14	P1.336-P1.814	8	55°	5.9	22	8	60	4
	G1/4-19								
	G3/8-19								
PTM113361814BZ2	G1/2-14	P1.336-P1.814	10	55°	7.3	30	10	75	4
	G1/4-19								
	G3/4-14								
	G3/8-19								
PTM11336254BZ	W5/8-11	P1.336-P2.54	12	55°	8.2	38	12	75	4
	W3/4-10								
	G1/2-14								
	G3/4-14 G1-11								

TR 30° Z Range *General Purpose*

- Applicable materials: carbon steel, stainless steel, alloy steel, pre-hardened steel, cast iron and other materials

P			H				A	M	N				S	
Carbon Steel	Alloy Steel	Prehardened Steel	Hardened Steel				Cast Iron	Stainless Steels	Aluminium Alloys	Copper Alloys	Plastic/Cement	Acrylic	Superalloy	Titanium alloy
~48HRC	~55HRC	~60HRC	~65HRC											
⊙	⊙	⊙	○				⊙	⊙					○	

⊙ = Best ○ = Good



Part No.	MODEL	DIMENSION					
	mm	d1	d2	L1	D	L	Flutes
PTM1TR7CZ	TR7x1.0	5.5	4.1	20	6	50	4
PTM1TR89CZ	TR 8x1.5 TR9x1.5	6	4	20	6	50	4
PTM1TR911CZ	TR9x2 TR11x2 TR10x2	6.4	3.7	20	8	60	4
PTM1TR1218CZ	TR12x2 TR14x2 TR16x2 TR18x2 TR20x2	9.4	6.5	35	10	75	4
PTM1TR1114CZ	TR11x3 TR12x3 TR14x3	7.4	3.8	25	8	60	4
PTM1TR1430CZ	TR14x3 TR22x3 TR24x3 TR26x3 TR28x3 TR30x3	10	6	35	10	75	4
PTM1TR1620CZ	TR16x4 TR18x4 TR20x4	11	6	38	12	75	4
PTM1TR2228CZ	TR22x5 TR24x5 TR26x5 TR28x5	14	7.8	50	14	100	4
PTM1TR3042CZ	TR30*6 TR32*6 TR34*6 TR36*6 TR38*6 TR40*6 TR42*6	16	9	50	16	100	4

SINGLE FORM

ACME 29° Z Range *General Purpose*

- Applicable materials: carbon steel, stainless steel, alloy steel, pre-hardened steel, cast iron and other materials

⊙ = Best ○ = Good

P			H				A	M	N				S	
Carbon Steel	Alloy Steel	Prehardened Steel	Hardened Steel				Cast Iron	Stainless Steels	Aluminum Alloys	Copper Alloys	Plastic Cement	Acrylic	Superalloy	Titanium alloy
~48HRC	~55HRC	~60HRC	~65HRC											
⊙	⊙	⊙	○				⊙	⊙					○	



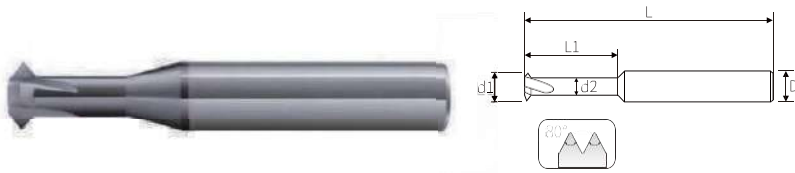
Part No.	MODEL	DIMENSION						Flutes
	mm	d1	d2	L1	D	L		
PTM11416DZ	1/4-16	4.7	2.6	15	6	50	4	
PTM151614DZ	5/16-14	6	3.6	20	6	50	4	
PTM138716DZ	3/8-12 7/16-12	7.2	4.5	25	8	60	4	
PTM11210DZ	1/2-10	10	6.6	35	10	75	4	
PTM1588DZ	2005/8/8	12	7.5	35	12	75	4	
PTM1346786DZ	3/4-6 7/8-6	12	6.5	35	12	75	4	

PG 80° Z Range *General Purpose*

- Applicable materials: carbon steel, stainless steel, alloy steel, pre-hardened steel, cast iron and other materials

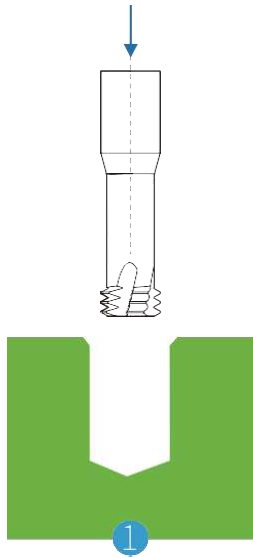
⊙ = Best ○ = Good

P			H				A	M	N					S	
Carbon Steel	Alloy Steel	Prehardened Steel	Hardened Steel				Cast Iron	Stainless Steels	Aluminum Alloys	Copper Alloys	Plastic/Cement	Acrylic	Superalloy	Titanium alloy	
⊙	⊙	⊙	○				⊙	⊙						○	

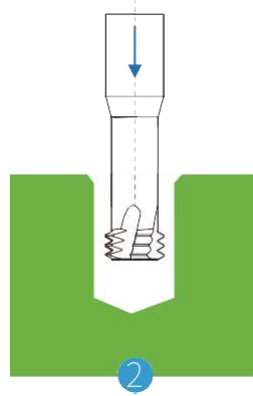


Part No.	MODEL	DIMENSION					
	mm	d1	d2	L1	D	L	Flutes
PTM1716EZ	PG7	8	6	15	8	60	4
	PG9						
	PG11						
	PG13.5						
	PG16						
PTM1916EZ	PG9	10	7	20	10	75	4
	PG11						
	PG13.5						
	PG16						
PTM12148EZ	PG21	12	7	20	12	75	4
	PG29						
	PG36						
	PG42						
	PG48						

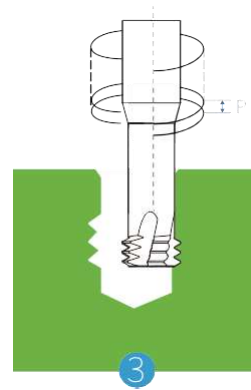
TRI FORM



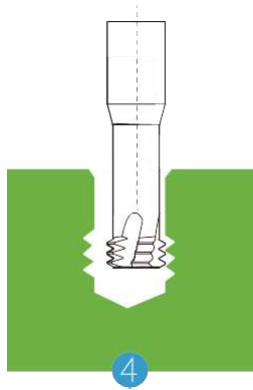
1
Position above the bottom hole



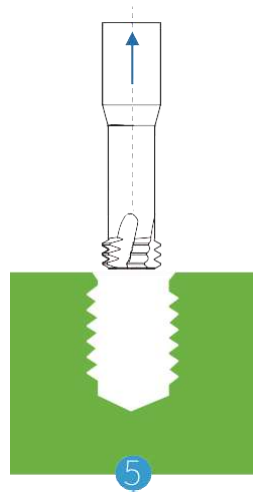
2
Depth of thread



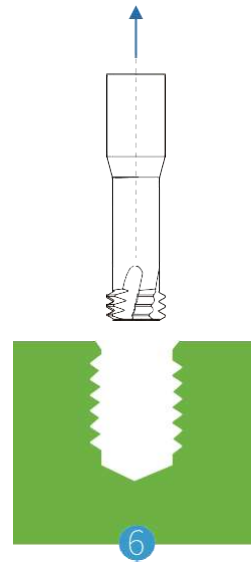
3
Screw feed
Go up one tooth distance



4
According to a tooth spacing P
Spiral repeat upward machining



5
180° Exit to the middle position



6
Tool back to starting position

ISO Z General Purpose

- Applicable materials: carbon steel, stainless steel, alloy steel, pre-hardened steel, cast iron and other materials

P			H				K	M	N					S	
Carbon Steel	Alloy Steel	Prehardened Steel	Hardened Steel				Cast Iron	Stainless Steels	Aluminium Alloys	Copper Alloys	Plastic Cement	Acrylic	Superalloy	Titanium alloy	
⊙	⊙	⊙	~48HRC	~53HRC	~60HRC	~65HRC	⊙	⊙				○	⊙		

⊙ = Best ○ = Good

Part No.	MODEL	Pitch	DIMENSION					
			d1	d2	L1	D	L	Flutes
PTM310025AZ	M1.0	0.25	0.73	0.43	2	4	50	3
PTM312025AZ	M1.2	0.25	0.92	0.62	2.4	4	50	3
PTM31403AZ	M1.4	0.3	1.05	0.65	2.8	4	50	3
PTM316035AZ	M1.6	0.35	1.2	0.78	3.2	4	50	3
PTM316035AZ2	M1.6	0.35	1.2	0.78	3.2	6	50	3
PTM318035AZ	M1.8	0.35	1.4	0.98	3.6	4	50	3
PTM32004AZ	M2.0	0.4	1.55	1.05	4	4	50	3
PTM32004AZ2	M2.0	0.4	1.55	1.05	4	6	50	3
PTM322045AZ	M2.2	0.45	1.7	1.1	5	4	50	3
PTM325045AZ	M2.5	0.45	2	1.45	5	4	50	3
PTM325045AZ2	M2.5	0.45	2	1.45	5	6	50	3
PTM33005AZ	M3.0	0.5	2.4	1.8	6	4	50	3
PTM33005AZ2	M3.0	0.5	2.4	1.8	6	6	50	3
PTM33506AZ	M3.5	0.6	2.75	2	8	4	50	3
PTM34007AZ	M4.0	0.7	3.15	2.3	8	4	50	3
PTM34007AZ2	M4.0	0.7	3.15	2.3	8	6	50	3
PTM345075AZ	M4.5	0.75	3.5	2.55	9	4	50	3
PTM35008AZ	M5.0	0.8	4	3	10	4	50	3
PTM35008AZ2	M5.0	0.8	4	3	10	6	50	3
PTM360075AZ	M6.0	0.75	4.8	3.8	12	6	50	3
PTM36010AZ	M6.0	1	4.8	3.6	12	6	50	3
PTM3810AZ	M8.0	1	6	4.8	16	6	50	4
PTM38125AZ	M8.0	1.25	6	4.5	16	6	50	4
PTM31010AZ	M10	1	8	6.8	20	8	60	4
PTM31015AZ	M10	1.5	8	6.2	20	8	60	4
PTM31210AZ	M12	1	10	8.7	24	10	75	4
PTM312125AZ	M12	1.25	10	8.5	24	10	75	4
PTM31215AZ	M12	1.5	10	8.1	24	10	75	4
PTM312175AZ	M12	1.75	10	7.8	24	10	75	4
PTM31415AZ	M14	1.5	12	10.1	28	12	75	4
PTM31420AZ	M14	2	10	7.5	28	10	75	4
PTM31620AZ	M16	2	12	9.5	32	12	75	4
PTM31620AZ	M16	1.5	14		32	14	100	4
PTM31620AZ	M16	2	13.5		32	14	100	4
PTM31620AZ	M18	2.5	14.8		38	16	100	4
PTM31620AZ	M20	1.5	16		40	16	100	4
PTM31620AZ	M20	2.5	16		40	16	100	4
PTM31620AZ	M24	3	16		48	16	100	4

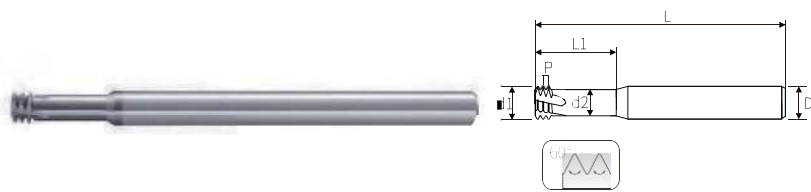
TRI FORM

ISO Z Total Extended *General Purpose*

- Full length extra length

⊙ = Best ○ = Good

P			H				K	M	N				S	
			Hardened Steel				Cast Iron	Stainless Steels	Aluminium Alloys	Copper Alloys	Plastic, Cement	Acrylic	Superalloy	Titanium alloy
Carbon Steel	Alloy Steel	Prehardened Steel	~48HRC	~53HRC	~60HRC	~65HRC								
⊙	⊙	⊙	⊙	○			⊙	⊙					○	⊙



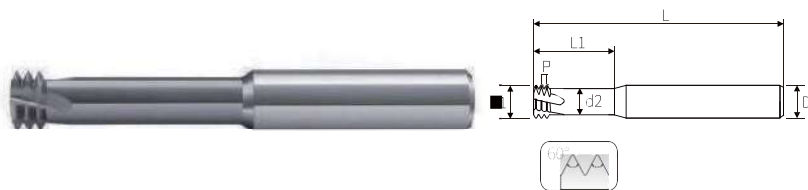
Part No.	MODEL	Pitch	DIMENSION					
			d1	d2	L1	D	L	Flutes
PTM316035AZ100	M1.6	0.35	1.2	0.78	3.2	6	100	3
PTM32004AZ75	M2.0	0.4	1.55	1.05	6	6	75	3
PTM32004AZ100	M2.0	0.4	1.55	1.05	4	6	100	3
PTM325045AZ75	M2.5	0.45	2	1.45	7.5	6	75	3
PTM325045AZ100	M2.5	0.45	2	1.45	5	6	100	3
PTM33005AZ75	M3.0	0.5	2.4	1.8	9	6	75	3
PTM33005AZ100	M3.0	0.5	2.4	1.8	6	6	100	3
PTM34007AZ75	M4.0	0.7	3.15	2.3	12	6	75	3
PTM34007AZ100	M4.0	0.7	3.15	2.3	8	6	100	3
PTM35008AZ75	M5.0	0.8	4	3	15	6	75	3
PTM35008AZ100	M5.0	0.8	4	3	10	6	100	3
PTM36010AZ75	M6.0	1	4.8	3.6	18	6	75	3
PTM36010AZ100	M6.0	1	4.8	3.6	12	6	100	3
PTM380125AZ75	M8.0	1.25	6	4.5	24	6	75	4
PTM380125AZ100	M8.0	1.25	6	4.5	16	6	100	3
PTM31015AZ75	M10	1.5	8	6.2	30	8	75	4
PTM31015AZ75	M10	1.5	8	6.2	20	8	100	3
PTM312175AZ100	M12	1.75	10	7.8	24	10	100	4
PTM31420AZ100	M14	2	10	7.5	28	10	100	4

ISO Z Relief Extended Range *General Purpose*

- Extended blade length

⊙ = Best ○ = Good

P			H				K	M	N				S	
Carbon Steel	Alloy Steel	Prehardened Steel	Hardened Steel				Cast Iron	Stainless Steels	Aluminum Alloys	Copper Alloys	Plastic, Cement	Acrylic	Superalloy	Titanium alloy
~48HRC	~55HRC	~60HRC	~62HRC	~64HRC	~66HRC									
⊙	⊙	⊙	⊙	○			⊙	⊙					○	⊙



Part No.	MODEL	Pitch	DIMENSION					
			d1	d2	L1	D	L	Flutes
PTM310025-AZ3	M1.0	0.25	0.73	0.43	3	4	50	3
PTM312025-AZ3	M1.2	0.25	0.92	0.62	3.6	4	50	3
PTM31403-AZ3	M1.4	0.3	1.05	0.65	4.2	4	50	3
PTM316035-AZ3	M1.6	0.35	1.2	0.78	4.8	4	50	3
PTM316035D6-AZ3	M1.6	0.35	1.2	0.78	4.8	6	50	3
PTM32004-AZ3	M2.0	0.4	1.55	1.05	6	4	50	3
PTM32004D6-AZ3	M2.0	0.4	1.55	1.05	6	6	50	3
PTM325045-AZ3	M2.5	0.45	2	1.45	7.5	4	50	3
PTM325045D6-AZ3	M2.5	0.45	2	1.45	7.5	6	50	3
PTM33005-AZ3	M3.0	0.5	2.4	1.8	9	4	50	3
PTM33005D6-AZ3	M3.0	0.5	2.4	1.8	9	6	50	3
PTM34007-AZ3	M4.0	0.7	3.15	2.3	12	4	50	3
PTM34007D6-AZ3	M4.0	0.7	3.15	2.3	12	6	50	3
PTM35008-AZ3	M5.0	0.8	4	3	15	4	50	3
PTM35008D6-AZ3	M5.0	0.8	4	3	15	6	50	3
PTM36010-AZ3	M6.0	1	4.8	3.6	18	6	50	3
PTM38125-AZ3	M8.0	1.25	6	4.5	24	6	50	4
PTM31015-AZ3	M10	1.5	8	6.2	30	8	60	4
PTM312175-AZ3	M12	1.75	10	7.8	36	10	75	4
PTM3204-AZ4	M2.0	0.4	1.55	1.05	8	4	50	3
PTM325045-AZ4	M2.5	0.45	2	1.45	10	4	50	3
PTM33005-AZ4	M3.0	0.5	2.4	1.8	12	4	50	3
PTM34007-AZ4	M4.0	0.7	3.15	2.3	16	4	50	3
PTM35008-AZ4	M5.0	0.8	4	3	20	4	50	3

TRI FORM

ISO X Range *Alu & Plastic Type Purpose*

- Applicable materials: aluminium alloy, copper alloy, plastic, acrylic and other materials

P			H				A	M	N				S	
Carbon Steel	Alloy Steel	Prehardened Steel	Hardened Steel				Cast Iron	Stainless Steels	Aluminium Alloy	Copper Alloy	Plastic Cement	Acrylic	Superalloy	Titanium alloy
			~48HRC	~55HRC	~60HRC	~65HRC								
								⊙	⊙	⊙	⊙			

⊙ = Best ○ = Good



Part No.	MODEL	Pitch	DIMENSION					
			d1	d2	L1	D	L	Flutes
PTM310025AX	M1.0	0.25	0.73	0.43	3	4	50	3
PTM312025AX	M1.2	0.25	0.92	0.62	3.6	4	50	3
PTM31403AX	M1.4	0.3	1.05	0.65	4.2	4	50	3
PTM316035AX	M1.6	0.35	1.2	0.78	4.8	4	50	3
PTM32004AX	M2.0	0.4	1.55	1.05	6	4	50	3
PTM325045AX	M2.5	0.45	2	1.45	7.5	4	50	3
PTM33005AX	M3.0	0.5	2.4	1.8	9	4	50	3
PTM34007AX	M4.0	0.7	3.15	2.3	12	4	50	3
PTM35008AX	M5.0	0.8	4	3	15	4	50	3
PTM36010AX	M6.0	1	4.8	3.6	12	6	50	3
PTM36010AX2	M6.0	1	4.8	3.6	18	6	50	3
PTM38125AX	M8.0	1.25	6	4.5	16	6	50	4
PTM38125AX2	M8.0	1.25	6	4.5	24	6	50	4
PTM31015AX	M10	1.5	8	6.2	20	8	60	4
PTM31015AX2	M10	1.5	8	6.2	30	8	60	4
PTM312175AX	M12	1.75	10	7.8	36	10	75	4
PTM31420AX	M14	2	10	7.5	28	10	75	4

ISO Y Titanium & High Temperature Type Purpose

- Applicable materials: stainless steel, high temperature alloy, alloy steel, titanium alloy and other materials

D			H				K	M	N				S	
Carbon Steel	Alloy Steel	Prehardened Steel	Hardened Steel				Cast Iron	Stainless Steels	Aluminium Alloys	Copper Alloys	Plastic Cement	Acrylic	Superalloy	Titanium alloy
~48HRC	~55HRC	~60HRC	~63HRC											
○	◎	○	○				○	◎					◎	◎

◎ = Best ○ = Good

Part No.	MODEL	Pitch	DIMENSION					
			d1	d2	L1	D	L	Flutes
PTM310025AY	M1.0	0.25	0.73	0.43	2	4	50	3
PTM312025AY	M1.2	0.25	0.92	0.62	2.4	4	50	3
PTM31403AY	M1.4	0.3	1.05	0.65	2.8	4	50	3
PTM316035AY	M1.6	0.35	1.2	0.78	3.2	4	50	3
PTM316035AY2	M1.6	0.35	1.2	0.78	3.2	6	50	3
PTM318035AY	M1.8	0.35	1.4	0.98	3.6	4	50	3
PTM32004AY	M2.0	0.4	1.55	1.05	4	4	50	3
PTM32004AY2	M2.0	0.4	1.55	1.05	4	6	50	
PTM322045AY	M2.2	0.45	1.7	1.1	5	4	50	3
PTM325045AY	M2.5	0.45	2	1.45	5	4	50	3
PTM325045AY2	M2.5	0.45	2	1.45	5	6	50	
PTM33005AY	M3.0	0.5	2.4	1.8	6	4	50	3
PTM33005AY2	M3.0	0.5	2.4	1.8	6	6	50	
PTM33506AY	M3.5	0.6	2.75	2	8	4	50	3
PTM34007AY	M4.0	0.7	3.15	2.3	8	4	50	3
PTM34007AY2	M4.0	0.7	3.15	2.3	8	6	50	
PTM345075AY	M4.5	0.75	3.5	2.55	9	4	50	3
PTM35008AY	M5.0	0.8	4	3	10	4	50	3
PTM35008AY2	M5.0	0.8	4	3	10	6	50	
PTM36010AY	M6.0	1	4.8	3.6	12	6	50	3
PTM3810AY	M8.0	1	6	4.8	16	6	50	4
PTM38125AY	M8.0	1.25	6	4.5	16	6	50	4
PTM31010AY	M10	1	8	6.8	20	8	60	4
PTM31015AY	M10	1.5	8	6.2	20	8	60	4
PTM31210AY	M12	1	10	8.7	24	10	75	4
PTM31215AY	M12	1.5	10	8.1	24	10	75	4
PTM312175AY	M12	1.75	10	7.8	24	10	75	4
PTM31415AY	M14	1.5	12	10.1	28	12	75	4
PTM31420AY	M14	2	10	7.5	28	10	75	4
PTM31620AY	M16	2	12	9.5	32	12	75	4
PTM31615AY	M16	1.5	14	12.1	32	14	100	4
PTM31620AY2	M16	2	13.5	11	32	14	100	4
PTM32015AY	M20	1.5	16	14.1	40	16	100	4
PTM32025AY	M20	2.5	16	12.6	40	16	100	6
PTM32430AY	M24	3	16	12	48	16	100	6

TRI FORM

ISO Y Relief Extended *Titanium & High Temperature Type Purpose*

- Extended blade length

P			H				K	M	N				S	
Carbon Steel	Alloy Steel	Prehardened Steel	Hardened Steel				Cast Iron	Stainless Steels	Aluminium Alloys	Copper Alloys	Plastic Cement	Acrylic	Superalloy	Titanium alloy
○	◎	○	○				○	◎					◎	◎

◎ = Best ○ = Good



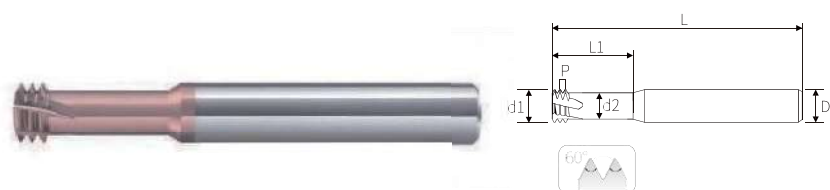
Part No.	MODEL	Pitch	DIMENSION					
			d1	d2	L1	D	L	Flutes
PTM310025AY3	M1.0	0.25	0.73	0.43	3	4	50	3
PTM312025AY3	M1.2	0.25	0.92	0.62	3.6	4	50	3
PTM31403AY3	M1.4	0.3	1.05	0.65	4.2	4	50	3
PTM316035AY3	M1.6	0.35	1.2	0.78	4.8	4	50	3
PTM316035AY32	M1.6	0.35	1.2	0.78	4.8	6	50	3
PTM32004AY3	M2.0	0.4	1.55	1.05	6	4	50	3
PTM32004AY32	M2.0	0.4	1.55	1.05	0.6	6	50	3
PTM325045AY3	M2.5	0.45	2	1.45	7.5	4	50	3
PTM325045AY32	M2.5	0.45	2	1.45	7.5	6	50	3
PTM33005AY3	M3.0	0.5	2.4	1.8	9	4	50	3
PTM33005AY32	M3.0	0.5	2.4	1.8	9	6	50	3
PTM34007AY3	M4.0	0.7	3.15	2.3	12	4	50	3
PTM34007AY32	M4.0	0.7	3.15	2.3	12	6	50	3
PTM35008AY3	M5.0	0.8	4	3	15	4	50	3
PTM35008AY32	M5.0	0.8	4	3	15	6	50	3
PTM36010AY3	M6.0	1	4.8	3.6	18	6	50	3
PTM38125AY3	M8.0	1.25	6	4.5	24	6	50	4
PTM31015AY3	M10	1.5	8	6.2	30	8	60	4
PTM312175AY3	M12	1.75	10	7.8	36	10	75	4

ISO W High Hardness Steel Type Purpose

- Applicable materials: carbon steel, pre-hardened steel, ~48HRC, cast iron and other materials

◎ = Best ○ = Good

P			H				K	M	N				S	
			Hardened Steel											
Carbon Steel	Alloy Steel	Prehardened Steel	~48HRC	~55HRC	~60HRC	~65HRC	Cast Iron	Stainless Steels	Aluminium Alloys	Copper Alloys	Plastic, Cement	Acrylic	Superalloy	Titanium alloy
◎	○	◎	◎				◎	○						



Part No.	MODEL	Pitch	DIMENSION					
			d1	d2	L1	D	L	Flutes
PTM310025AW	M1.0	0.25	0.73	2	3	4	50	3
PTM312025AW	M1.2	0.25	0.92	2.4	3.6	4	50	3
PTM31403AW	M1.4	0.3	1.05	2.8	4.2	4	50	3
PTM316035AW	M1.6	0.35	1.2	3.2	4.8	4	50	3
PTM32004AW	M2.0	0.4	1.55	4	6	4	50	3
PTM325045AW	M2.5	0.45	2	5	7.5	4	50	3
PTM33005AW	M3.0	0.5	2.4	6	9	4	50	3
PTM34007AW	M4.0	0.7	3.15	8	12	4	50	3
PTM35008AW	M5.0	0.8	4	10	15	4	50	3
PTM36010AW	M6.0	1	4.8	12	18	6	50	3
PTM38125AW	M8.0	1.25	6	16	24	6	50	4
PTM31015AW	M10	1.5	8	20	30	8	60	4
PTM312175AW	M12	1.75	10	24	36	10	75	4
PTM31420AW	M14	2	10	10.1	28	10	75	4

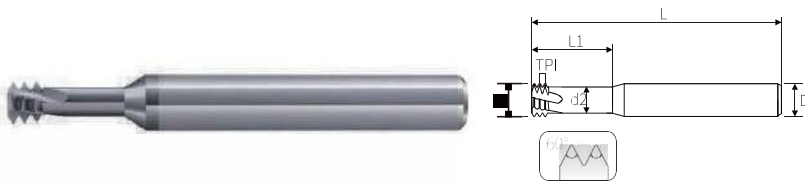
TRI FORM

UN Z General Purpose

- Applicable materials: carbon steel, alloy steel, pre-hardened steel, ~48HRC, cast iron, stainless steel, titanium alloy, etc.

⊙ = Best ○ = Good

P			H				P	M	N					S	
			Hardened Steel												
Carbon Steel	Alloy Steel	Prehardened Steel	~48HRC	~55HRC	~60HRC	~65HRC	Cast Iron	Stainless Steels	Aluminium Alloys	Copper Alloys	Plastic, Cement	Acrylic	Superalloy	Titanium alloy	
⊙	⊙	⊙	⊙	○			⊙	⊙					○	⊙	



Part No.	MODEL	DIMENSION					
		d1	d2	L1	D	L	Flutes
PTM3172GZ	NO.1-72	1.45	1	3.9	4	50	3
PTM3356GZ	NO.3-56	1.95	1.4	5.3	4	50	3
PTM3448GZ	NO.4-48	2.25	1.6	6	4	50	3
PTM3640GZ	NO.6-40	2.75	1.9	7.2	4	50	3
PTM3836GZ	NO.8-36	3.3	2.4	8.7	4	50	3
PTM31032GZ	NO.10-32	3.9	2.9	10	4	50	3
PTM31428GZ	1/4-28	5.3	4.2	12	6	50	3
PTM371620GZ	7/16-20	9.5	7.9	24	10	75	4
PTM3164GZ	NO.1-64	1.4	0.9	4	4	50	3
PTM3256GZ	NO.2-56	1.65	1.1	5	4	50	3
PTM3348GZ	NO.3-48	1.95	1.3	5	4	50	3
PTM3440GZ	NO.4-40	2.15	1.3	6	4	50	3
PTM3540GZ	NO.5-40	2.45	1.6	7.2	4	50	3
PTM3632GZ	NO.6-32	2.65	1.6	7.5	4	50	3
PTM3832GZ	NO.8-32	3.2	2.2	9	4	50	3
PTM31024GZ	NO.10-24	3.7	2.4	10	4	50	3
PTM31420GZ	1/4-20	4.9	3.3	12	6	50	3
PTM33816GZ	5/16-18	6.4	4.7	18	8	60	4
PTM351618GZ	3/8-16	7.8	5.85	20	8	60	4
PTM371614GZ	7/16-14	9.2	7	24	10	75	4
PTM31213GZ	1/2-13	10	7.5	24	10	75	4

MJ Y Titanium & High Temperature Type Purpose

- Applicable materials: stainless steel, high temperature alloy, alloy steel, titanium alloy and other materials

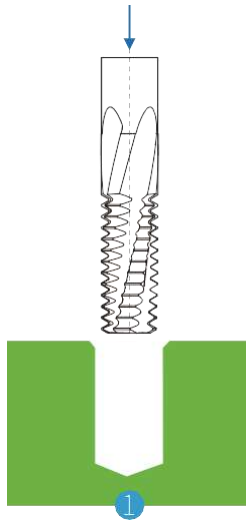
◎ = Best ○ = Good

P			H				A	M	N				S	
Carbon Steel	Alloy Steel	Prehardened Steel	Hardened Steel				Cast Iron	Stainless Steels	Aluminium Alloys	Copper Alloys	Plastic/Cement	Acrylic	Superalloy	Titanium alloy
~48HRc	~55HRc	~60HRc	~65HRc	~70HRc	~75HRc	~80HRc								
○	◎	○	○				○	◎					◎	◎

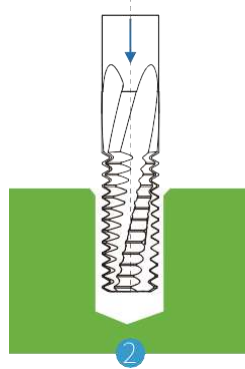


Part No.	MODEL	Pitch	DIMENSION				
			d1	d2	L1	D	L
PTM32004FY	MJ2.0	0.4	1.55	1.05	6	4	50
PTM325045FY	MJ2.5	0.45	2	1.45	7.5	4	50
PTM33005FY	MJ3.0	0.5	2.4	1.8	9	4	50
PTM34007FY	MJ4.0	0.7	3.15	2.3	12	4	50
PTM35008FY	MJ5.0	0.8	4	3	15	4	50
PTM36010FY	MJ6.0	1	4.8	3.6	18	6	50
PTM38125FY	MJ8.0	1.25	6	4.5	24	6	50
PTM31015FY	MJ10	1.5	8	6.2	30	8	60
PTM312175FY	MJ12	1.75	10	7.8	36	10	75

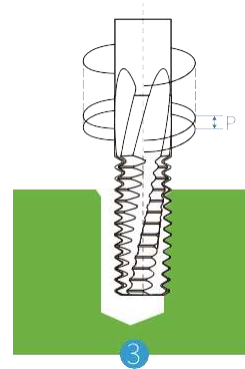
Multi-Form



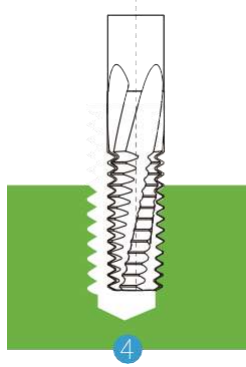
1
Position above the bottom hole



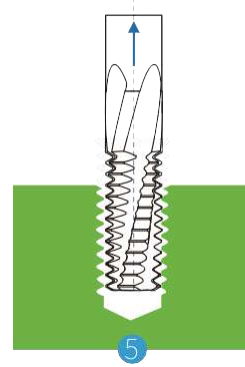
2
Lift to thread depth



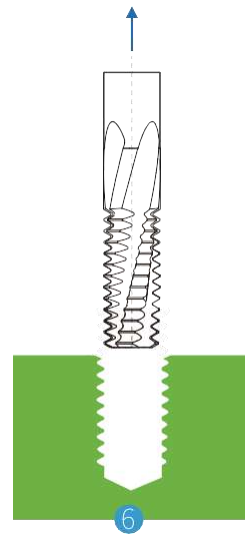
3
Screw feed
Go up one tooth distance



4
Use 360° spiral motion
Finish thread



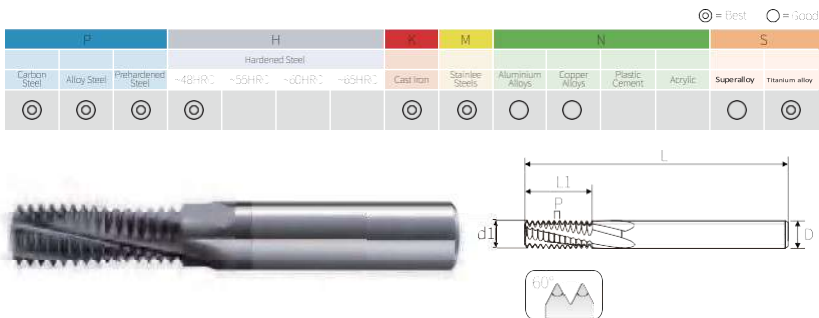
5
180° Exit to the middle position



6
Tool back to starting position

ISO Z General Purpose

- Applicable materials: carbon steel, alloy steel, pre-hardened steel, ~48HRC, cast iron, stainless steel, titanium alloy, etc.



Part No.	MODEL	Pitch	DIMENSION				
			d1	L1	D	L	Flutes
PTMM204AZ	M2	0.4	1.55	4	4	50	3
PTMM25045AZ	M2.5	0.45	2	5	4	50	3
PTMM305AZ	M3	0.5	2.4	6	4	50	4
PTMM407AZ	M4	0.7	3.15	8	4	50	4
PTMM505AZ	M5	0.5	4	10	4	50	3
PTMM5075AZ	M5	0.75	4	10	4	50	3
PTMM508AZ	M5	0.8	4	10	6	50	4
PTMM6075AZ	M6	0.75	4.8	12	6	60	3
PTMM610AZ	M6	1	4.8	12	6	60	4
PTMM805AZ	M8	0.5	6	16	6	60	3
PTMM8075AZ	M8	0.75	6	16	6	60	3
PTMM810AZ	M8	1	6	16	6	60	3
PTMM8125AZ	M8	1.25	6	16	8	60	4
PTMM1010AZ	M10	1	8	20	8	60	4
PTMM10125AZ	M10	1.25	8	20	8	60	4
PTMM1015AZ	M10	1.5	8	20	10	60	4
PTMM1205AZ	M12	0.5	10	24	10	75	4
PTMM12075AZ	M12	0.75	10	24	10	75	4
PTMM1210AZ	M12	1	10	24	10	75	4
PTMM12125AZ	M12	1.25	10	24	10	75	4
PTMM1215AZ	M12	1.5	10	24	10	75	4
PTMM12175AZ	M12	1.75	10	24	12	75	4
PTMM1410AZ	M14	1	12	28	12	75	4
PTMM1415AZ	M14	1.5	12	28	12	75	4
PTMM1420AZ	M14	2	11.6	28	14	75	4
PTMM1615AZ	M16	1.5	14	32	14	100	4
PTMM1620AZ	M16	2	13	32	16	100	4
PTMM1825AZ	M18	2.5	14.8	38	16	100	4
PTMM2015AZ	M20	1.5	16	38	16	100	4
PTMM2025AZ	M20	2.5	16	42	16	100	4
PTMM2430AZ	M24	3	16	42		100	4

Notice: Remark whether internal thread or external thread purpose while order

MULTI-FORM

UN Z Range *General Purpose*

- Applicable materials: carbon steel, alloy steel, pre-hardened steel, ~48HRC, cast iron, stainless steel, titanium alloy, etc.

⊙ = Best ○ = Good

P			H				K	M	N					S	
Carbon Steel	Alloy Steel	Prehardened Steel	Hardened Steel				Cast Iron	Stainless Steels	Aluminium Alloys	Copper Alloys	Plastic Cement	Acrylic	Superalloy	Titanium alloy	
~48HR	~55HR	~60HR	~65HR												
⊙	⊙	⊙	⊙				⊙	⊙	○	○			○	⊙	

Part No.	Thread Model			TPI	DIMENSION				
	UNC	UNF	UNEF		d1	L1	D	L	Flutes
PTMM1032GZ		10-32		32	3.9	10	4	50	4
PTMM51632GZ			5/16-32 3/8-32	32	6.8	18	8	60	4
PTMM1428GZ		1/4-28	7/16-28 1/2-28	28	5.3	12	6	60	4
PTMM51624GZ		5/16-24	9/16-24 5/8-24	24	6.5	18	8	60	4
PTMM1420GZ	1/4-20	7/16-20 1/2-20	3/4-20 7/8-20 1"-20	20	4.85	12	6	60	4
PTMM71620GZ		7/16-20 1/2-20	3/4-20 7/8-20 1"-20	20	9.5	24	10	75	4
PTMM51618GZ	5/16-18	9/16-18 5/8-18		18	6.4	18	8	60	4
PTMM91618GZ		9/16-18 5/8-18		18	10	24	10	75	4
PTMM3816GZ	3/8-16	3/4-16		16	7.8	21	8	60	4
PTMM3416GZ		3/4-16		16	12	28	12	75	4
PTMM71614GZ	7/16-14	7/8-14		14	8.8	24	10	75	4
PTMM1213GZ	1/2-13			13	10	24	10	75	4
PTMM91612GZ	9/16-12	1"-12 1"-1/8-12 1"-1/4-12 1"-1/2-12 1"-3/8-12		12	12	28	12	75	4
PTMM581GZ	5/8-11			11	12	28	12	75	4
PTMM3410GZ	3/4-10			10	16	38	16	100	4
PTMM789GZ	7/8-9			9	16	38	16	100	4

BSP Z General Purpose

- Applicable materials: carbon steel, alloy steel, pre-hardened steel, ~48HRC, cast iron, stainless steel, titanium alloy, etc.

⊙ = Best ○ = Good

P			H				A	M	N				S	
			Hardened Steel											
Carbon Steel	Alloy Steel	Prehardened Steel	~48HRC	~55HRC	~60HRC	~65HRC	Cast Iron	Stainless Steels	Aluminum Alloys	Copper Alloys	Plastic/Cement	Acrylic	Superalloy	Titanium alloy
⊙	⊙	⊙	⊙				⊙	⊙	○	○			○	⊙



Part No.	MODEL	TPI	DIMENSION				
			d1	L1	D	L	Flutes
PTMMT628IZ	1/16	28	6	14	6	60	4
PTMM1828IZ	1/8	28	8	14	8	60	4
PTMM1419IZ	1/4	19	8	18	8	60	4
PTMM1419IZ2	1/4-	19	10	20	10	75	4
PTMM1419IZ3	1/4	19	10	24	10	75	4
PTMM3819IZ	3/8	19	12	25	12	75	4
PTMM3819IZ2	3/8	19	12	28	12	75	4
PTMM1214IZ	1/2	14	12	20	12	75	4
PTMM1214IZ2	1/2	14	12	28	12	75	4
PTMM3414IZ	3/4	14	16	30	16	100	4
PTMM11IZ	1"	11	16	32	16	100	4
PTMM11IZ2	1"	11	16	38	16	100	4
PTMM11IZ3	1"	11	20	42	20	100	5

MULTI-FORM

BSPT Z *General Purpose*

- Applicable materials: carbon steel, alloy steel, pre-hardened steel, ~48HRC, cast iron, stainless steel, titanium alloy, etc.

⊙ = Best ○ = Good

P			H				R	M	N				S	
Carbon Steel	Alloy Steel	Prehardened Steel	Hardened Steel				Cast Iron	Stainless Steels	Aluminium Alloys	Copper Alloys	Plastic/Cement	Acrylic	Superalloy	Titanium alloy
~42HRC	~55HRC	~60HRC	~65HRC											
⊙	⊙	⊙	⊙				⊙	⊙	○	○			○	⊙



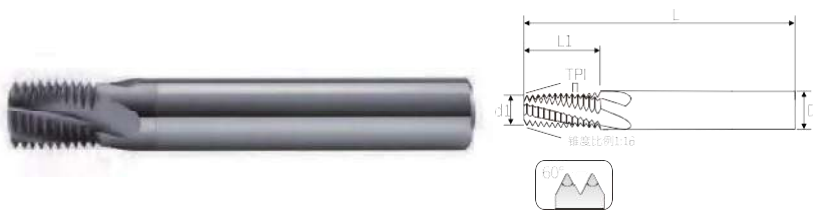
Part No.	MODEL	TPI	DIMENSION				
			d1	L1	D	L	Flutes
PTMM1628JZ	1/16	28	5.3	9.9	6	60	4
PTMM1828JZ	1/8	28	7.3	9.9	8	60	4
PTMM1828JZ2	1/4	19	6.75	20	8	60	4
PTMM1419JZ	1/4-	19	7	14	8	60	4
PTMM1419JZ2	1/4	19	9	15	10	75	4
PTMM1419JZ3	3/8	19	8.5	24	10	75	4
PTMM3819JZ	3/8	19	11	14	12	75	4
PTMM3819JZ2	1/2	14	10.25	28	12	75	4
PTMM1214JZ	1/2	14	10.8	19	12	75	4
PTMM1214JZ2	3/4	14	10.2	28	12	75	4
PTMM3414JZ	1"	11	14.6	21	16	100	4
PTMM11JZ	1"	11	14.3	27	16	100	4
PTMM11JZ2	1"	11	17.38	42	20	100	5

NPT Z General Purpose

- Applicable materials: carbon steel, alloy steel, pre-hardened steel, ~48HRC, cast iron, stainless steel, titanium alloy, etc.

⊙ = Best ○ = Good

P			H				K	M	N				S	
Carbon Steel	Alloy Steel	Prehardened Steel	Hardened Steel				Cast Iron	Stainless Steels	Aluminium Alloys	Copper Alloys	Plastic/Cement	Acrylic	Superalloy	Titanium alloy
~48HRC	~55HRC	~60HRC	~65HRC											
⊙	⊙	⊙	⊙				⊙	⊙	○	○			○	⊙



Part No.	MODEL	TPI	DIMENSION				
			d1	L1	D	L	Flutes
PTMM11627KZ	1/16	27	5.4	9.4	6	60	4
PTMM1827KZ	1/8	27	7.4	9.4	8	60	4
PTMM1418KZ	1/4	18	7.1	14.1	8	60	4
PTMM1418KZ2	1/4	18	9.1	14.1	10	75	4
PTMM3818KZ	3/8	18	11.1	14.1	12	75	4
PTMM1214KZ	1/2	14	10.8	18.1	12	75	4
PTMM3414KZ	3/4	14	14.8	18.1	16	100	4
PTMM1115KZ	1"	11.5	14.6	22	16	100	4
PTMM1115KZ2	1"	11.5	17.38	42	20	100	5

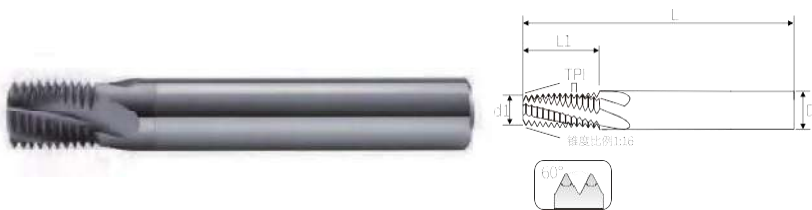
MULTI-FORM

NPTF Z *General Purpose*

- Applicable materials: carbon steel, alloy steel, pre-hardened steel, ~48HRC, cast iron, stainless steel, titanium alloy, etc.

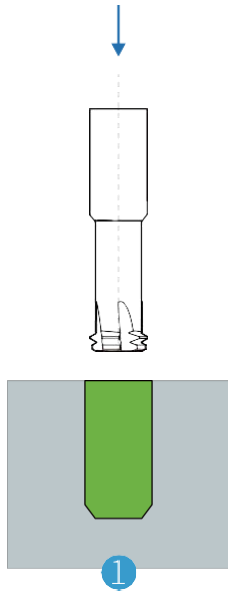
⊙ = Best ○ = Good

P			H				K	M	N				S	
Carbon Steel	Alloy Steel	Pre-hardened Steel	Hardened Steel				Cast Iron	Stainless Steels	Aluminum Alloys	Copper Alloys	Plastic/Cement	Acrylic	Superalloy	Titanium alloy
~48HRC	~55HRC	~60HRC	~48HRC	~55HRC	~60HRC	~65HRC								
⊙	⊙	⊙	⊙				⊙	⊙	○	○			○	⊙

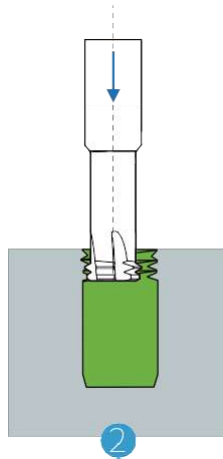


Part No.	MODEL	TPI	DIMENSION				
			d1	L1	D	L	Flutes
PTMM11627HZ	1/16	27	5.4	9.4	6	60	4
PTMM1827HZ	1/8	27	7.4	9.4	8	60	4
PTMM1418HZ	1/4	18	7.1	14.1	8	60	4
PTMM1418HZ2	1/4	18	9.1	14.1	10	75	4
PTMM3818HZ	3/8	18	11.1	14.1	12	75	4
PTMM1214HZ	1/2	14	10.8	18.1	12	75	4
PTMM3414HZ	3/4	14	14.8	18.1	16	100	4
PTMM1115HZ	1"	11.5	14.6	22	16	100	4
PTMM1115HZ2	1"	11.5	17.38	42	20	100	5

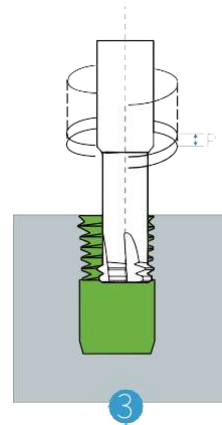
DOUBLE-FORM



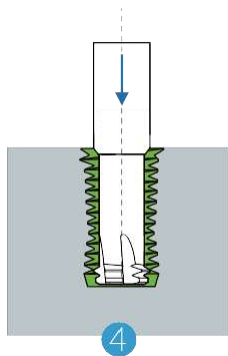
1
Initial location
In the center of the hole



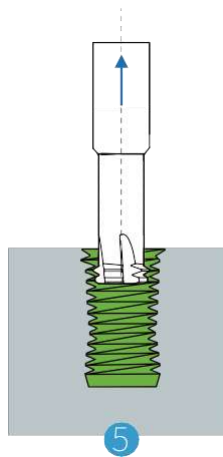
2
Cut left and right
Screw feed



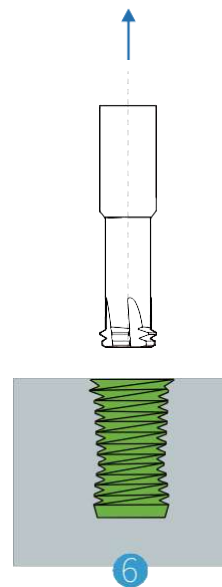
3
Spiral machining down
Go to the tooth spacing P



4
Follow a tooth pitch
Screw down repeatedly



5
180° Exit to the middle position



6
Return to starting point

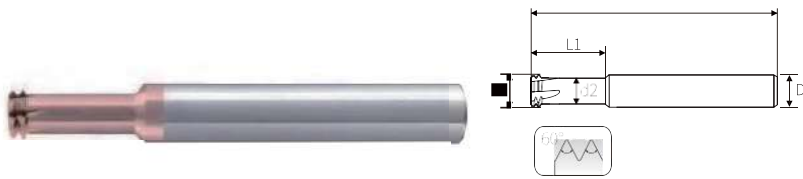
DOUBLE-FORM

ISO W High Hardness Steel Type Purpose

- Applicable materials: carbon steel, pre-hardened steel, ~48HRC, cast iron and other materials

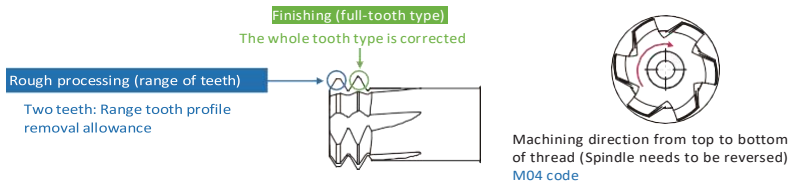
◎ = Best ○ = Good

P			H				R	M	N				S	
			Hardened Steel											
Carbon Steel	Alloy Steel	Prehardened Steel	~48HRC	~50HRC	~60HRC	~65HRC	Cast Iron	Stainless Steels	Aluminium Alloys	Copper Alloys	Plastic, Cement	Acrylic	Superalloy	Titanium alloy
			◎	◎	◎									



Part No.	MODEL	Pitch	DIMENSION					
			d1	d2	L1	D	L	Flutes
PTM2216035AW	M1.6	0.35	1.2	0.78	3.2	6	50	3
PTM222004AW	M2.0	0.4	1.55	1.05	4	6	50	4
PTM2225045AW	M2.5	0.45	2	1.45	5	6	50	4
PTM223005AW	M3.0	0.5	2.4	1.8	6	6	50	4
PTM224007AW	M4.0	0.7	3.15	2.3	8	6	50	4
PTM225008AW	M5.0	0.8	4.05	3.05	10	6	50	4
PTM226010AW	M6.0	1	4.8	3.6	12	6	50	5
PTM228125AW	M8.0	1.25	6.5	5	16	8	60	6
PTM221015AW	M10	1.5	8.2	6.4	20	10	75	6
PTM2212175AW	M12	1.75	9.6	7.5	24	10	75	6

Working principle of metric superhard two-row thread milling cutter:



DRILLING&THREAD MILLING

ISO X *Alu & Plastic Type Purpose*

- Applicable materials: aluminium alloy, copper alloy, plastic, acrylic and other materials

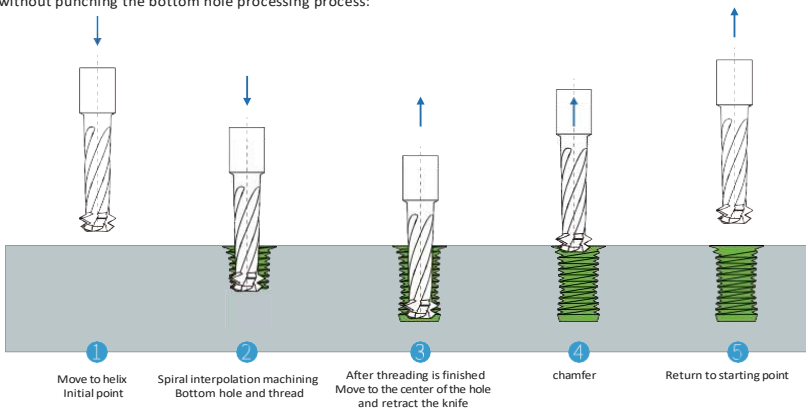
P			H				K	M	N					S	
Carbon Steel	Alloy Steel	Prehardened Steel	Hardened Steel				Cast Iron	Stainless Steels	Aluminium Alloys	Copper Alloys	Plastic/Cement	Acrylic	Superalloy	Titanium alloy	
~42HRC	~53HRC	~60HRC	~65HRC												
◎	◎	◎						○							

◎ = Best ○ = Good



Part No.	MODEL	Pitch	DIMENSION				
			d1	L1	D	L	Flutes
PTMD216035AX	M1.6	0.35	1.15	5	4	50	2
PTMD22004AX	M2.0	0.4	1.5	6.5	4	50	2
PTMD225045AX	M2.5	0.45	1.9	7	4	50	2
PTMD23005AX	M3.0	0.5	2.4	9	6	50	3
PTMD24007AX	M4.0	0.7	3.2	11	6	50	3
PTMD25008AX	M5.0	0.8	3.9	12	6	50	3
PTMD26010AX	M6.0	1	4.7	14	6	50	3
PTMD280125AX	M8.0	1.25	6.5	18	8	60	4
PTMD21015AX	M10	1.5	7.8	23	8	60	4
PTMD212175AX	M12	1.75	9.6	26	10	75	4

Multi-function thread milling cutter for aluminium without punching the bottom hole processing process:



DRILLING&THREAD MILLING

ISO Z General Purpose

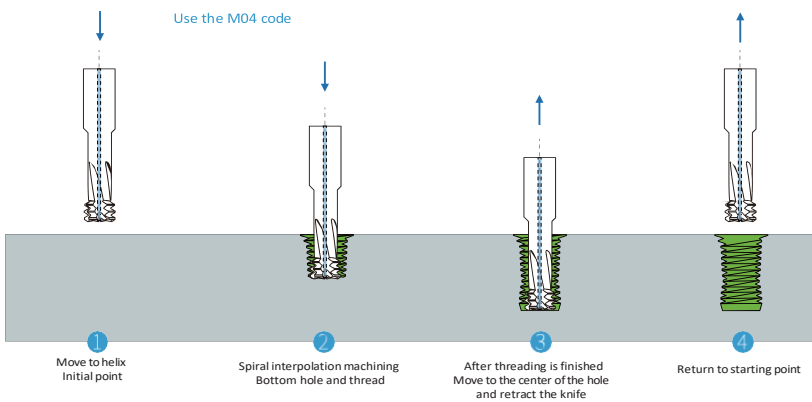
- Applicable materials: carbon steel, stainless steel, alloy steel, -hardened steel, cast iron and other materials

⊙ = Best ○ = Good

P			H				K	M	N				S	
			Hardened Steel				Cast Iron	Stainless Steels	Aluminium Alloys	Copper Alloys	Plastic Cement	Acrylic	Superalloy	Titanium alloy
Carbon Steel	Alloy Steel	Prehardened Steels	~48HRC	~55HRC	~60HRC	~65HRC								
⊙	⊙	⊙					○							

Part No.	MODEL	Pitch	DIMENSION					Flutes	Coolant
			d1	L1	D	L			
PTMD3005AZ	M3.0	0.5	2.4	7	6	50	4	Outer Coolant	
PTMD4007AZ	M4.0	0.7	3.2	9	6	50	4	Outer Coolant	
PTMD5008AZ	M5.0	0.8	3.9	12	6	50	4	Outer Coolant	
PTMD6010AZ	M6.0	1	4.7	14	6	50	4	Outer Coolant	
PTMD8125AZ	M8.0	1.25	6.2	18	8	60	4	Outer Coolant	
PTMD1015AZ	M10	1.5	7.5	23	8	60	4	Outer Coolant	
PTMD12175AZ	M12	1.75	9	26	10	75	4	Outer Coolant	

Multi-function thread milling cutter for no-punch steel processing process:



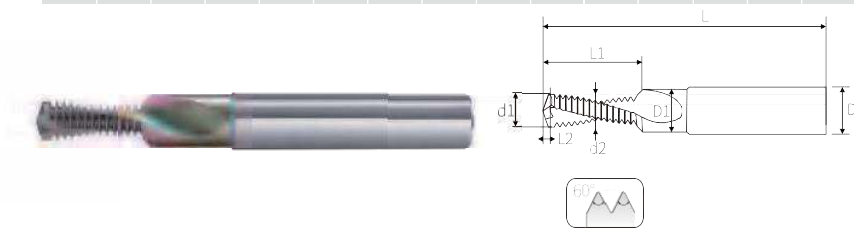
DRILLING , THREAD MILLING , CHAMFERING

ISO X *Alu & Plastic Type Purpose*

- Applicable materials: aluminium alloy, copper alloy, plastic, acrylic and other materials

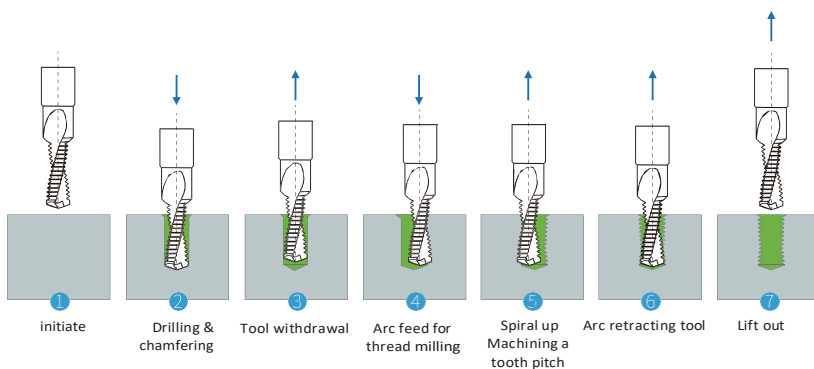
⊙ = Best ○ = Good

P			H				K	M	N				S	
			Hardened Steel											
Carbon Steel	Alloy Steel	Prehardened Steel	~48HRC	~55HRC	~60HRC	~65HRC	Cast Iron	Stainless Steels	Aluminium Alloys	Copper Alloys	Plastic / Cement	Acrylic	Superalloy	Titanium alloy
							○		⊙	⊙				



Part No.	MODEL	Pitch	DIMENSION						
			d2	d1	L1	D1	D	L	Flutes
PTMDD610AX	M6*1.0	4.8	5	12	1	7	8	60	2
PTMDD8125AX	M8*1.25	6.5	6.8	15	1.3	9	10	75	2
PTMDDI015AX	M10*1.5	8.2	8.5	20	1.5	11	12	75	2
PTMDDI2175AX	M12*1.75	9.9	10.3	24	1.8	13.5	14	75	2

Three-in-one drilling and milling thread milling process:



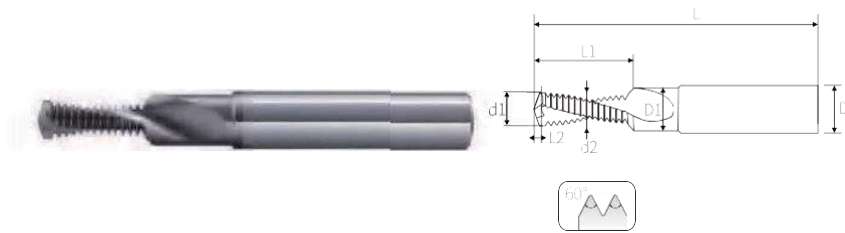
DRILLING , THREAD MILLING , CHAMFERING

ISO Z General Purpose

- Applicable materials: carbon steel, stainless steel, alloy steel, pre-hardened steel, cast iron and other materials

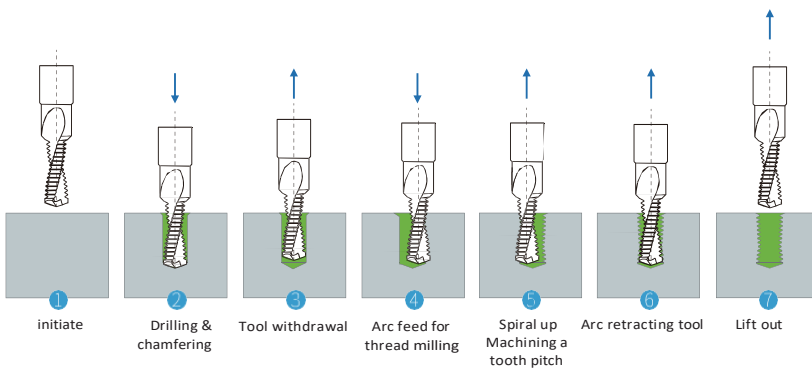
⊙ = Best ○ = Good

P			H				K	M	N				S	
			Hardened Steel											
Carbon Steel	Alloy Steel	Prehardened Steel	~48HRC	~50HRC	~52HRC	~65HRC	Cast Iron	Stainless Steels	Aluminium Alloys	Copper Alloys	Plastic/Cement	Acrylic	Superalloy	Titanium alloy
							⊙		○	○				



Part No.	MODEL	Pitch	DIMENSION						
			d2	d1	L1	D1	D	L	Flutes
PTMDD610AZ	M6*1.0	4.8	5	12	1	7	8	60	2
PTMDD8125AZ	M8*1.25	6.5	6.8	15	1.3	9	10	75	2
PTMDDI015AZ	M10*1.5	8.2	8.5	20	1.5	11	12	75	2
PTMDDI2175AZ	M12*1.75	9.9	10.3	24	1.8	13.5	14	75	2

Three-in-one drilling and milling thread process:



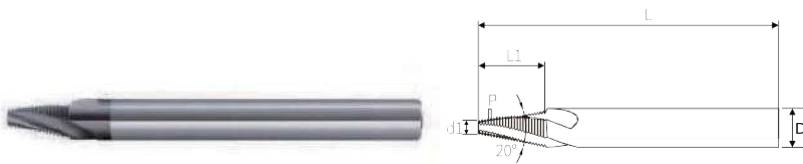
SPECIAL FOR TITANIUM BONE

ISO Z General Purpose

- Applicable materials: carbon steel, alloy steel, pre-hardened steel, ~48HRC, cast iron, stainless steel, titanium alloy, etc.

⊙ = Best ○ = Good

P			H				K	M	N					S	
			Hardened Steel												
Carbon Steel	Alloy Steel	Prehardened Steel	~42HRC	~53HRC	~60HRC	~65HRC	Cast Iron	Stainless Steels	Aluminium Alloys	Copper Alloys	Plastic/Cement	Acrylic	Superalloy	Titanium alloy	
														⊙	



Part No.	Pitch	Profile angle	DIMENSION				
			d1	Angle	L	D	L
PTMB03AZ	0.3	60°	1.9	20°	6	6	60
PTMB04AZ	0.4	60°	2.3	20°	10	6	60
PTMB05AZ	0.5	60°	2.9	20°	9	6	60
PTMB06AZ	0.6	60°	3	20°	14	8	60

