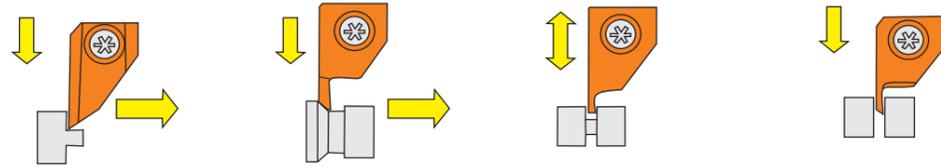


Turning small tools

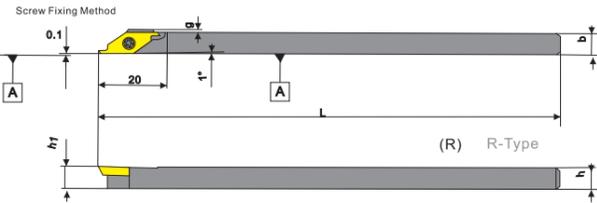
VKE



Radial Holder



HAO HAO Type Holder



Features - Compared With The Current Welding Knives, It Has Improved Its Long Life, High Quality And Convenience.

(Toolholder Parts) P01-P04

Tool Holder Model	(mm)							Screw	Key	Order Number
	R	L	h	b	L	h1	g			
HAO R/L07	●	●	7	7	140	7	0.5	M2.5X7	T8	201100
HAO R/L08	●	●	8	8		8	201102			
HAO R/L095	●	●	9.5	9.5		9.5	0.0			201104
HAO R/L10	●	●	10	10		10	201106			
HAO R/L12	●	●	12	12		12	201108			

HAOF HAOF Type Insert (front Sweeping Turning)

Shape	Tip Shape	Tool Holder Model	(mm) Size (mm)			rε	R	L	Order Number
			W	L	h				
		HAOF0533 R/L	6.35	2.38	0.05	●	●	201400	
		HAOF0533 R/LB	6.35	2.38	0.05	●	●	201402	
		HAOF0533 R/L03005	6.35	2.38	0.05 MAX	●	●	201404	
		HAOF0533 R/LB03005	6.35	2.38	0.05 MAX	●	●	201406	

HAOC HAOC Type Insert (cutting Turning)

Shape	Tip Shape	Tool Holder Model	(mm) Size (mm)			rε	R	L	Order Number
			W	L	h				
		HAOC070R/L	6.35	2.38	0.7	3.0	●	●	201200
		HAOC120R/L	1.0	0.03	●	●	201202		
		HAOC150R/L	1.2	4.0	●	●	201204		
		HAOC070R/LB	1.5	●	●	201206			
		HAOC100R/LB	0.7	3.0	●	●	201208		
		HAOC120R/LB	1.0	0.03	●	●	201210		
		HAOC120R/LB	1.2	●	●	201212			
		HAOC150R/LB05	1.5	0.05	●	●	201214		

HAOG HAOG Type Insert (slot Cutter)

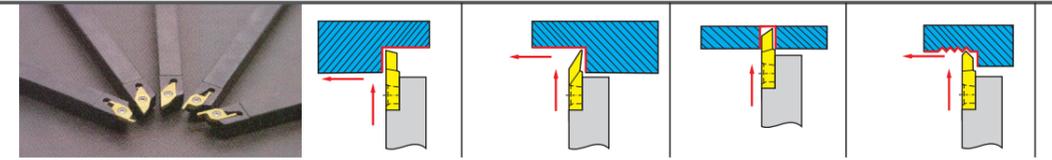
Shape	Tip Shape	Tool Holder Model	(mm) Size (mm)			rε	R	L	Order Number
			W	L	h				
		HAOG050 R/L	6.35	2.38	0.50	1.0	●	●	201500
		HAOG75 R/L	0.75	●	●	201502			
		HAOG095 R/L	0.95	2.0	0.03	●	●	201504	
		HAOG100 R/L	1.00	●	●	201506			
		HAOG150 R/L	1.50	3.0	●	●	201508		
		HAOG050 R/LB	0.50	1.0	●	●	201510		
		HAOG75 R/LB	0.75	●	●	201512			
		HAOG095 R/LB	0.95	2.0	0.03	●	●	201514	
		HAOG100 R/LB	1.00	●	●	201516			
		HAOG150 R/LB	1.50	3.0	●	●	201518		

HAOB HAOB Type Insert (rear Sweeping Turning)

Shape	Tip Shape	Tool Holder Model	(mm) Size (mm)			rε	R	L	Order Number
			W	L	h				
		HAOB035 R/L	6.35	2.38	0.03	●	●	201300	
		HAOB035 R/LB	6.35	2.38	0.03	●	●	201302	

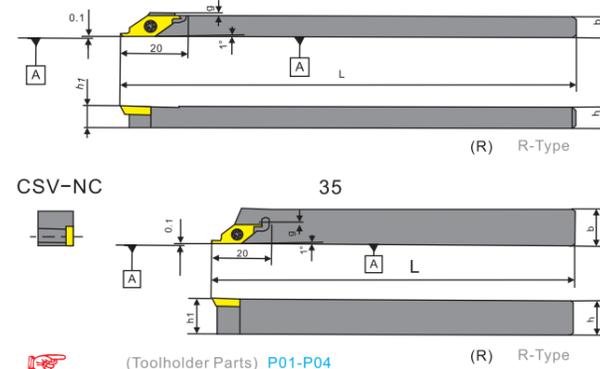
Shape	Tip Shape	Tool Holder Model	(mm) Size (mm)			rε	R	L	Order Number
			W	L	h				
		HAOG100R/L	6.35	2.38	1.00	2.0	●	●	201600
		HAOG150R/L	6.35	2.38	1.50	3.0	●	●	201602

CSV



CSV

35



CSV-NC

(Toolholder Parts) P01-P04

Tool Holder Model	(mm)							Screw	Key	Order Number	
	R	L	h	b	L	h1	g				
CSV R/L07GX	●	●	7	7	85	7	0.5	CSVF	M2.5X7	T8	202100
CSV R/L07	●	●	7	7	140	7	202102				
CSV R/L08GX	●	●	8	8	85	8	202104				
CSV R/L08	●	●	8	8	140	8	202106				
CSV R/L095	●	●	9.5	9.5	140	9.5	CSVB	M2.5X7	T8	202108	
CSV R/L10	●	●	10	10	10	202110					
CSV R/L12GX	●	●	12	12	85	12	0.0	CSVG	M2.5X7	T8	202112
CSV R/L12	●	●	12	12	140	12	202114				
CSV R/L08NC	●	●	8	8	120	8	CSVT	M2.5X7	T8	202116	
CSV R/L10GXNC	●	●	10	10	85	10				202118	
CSV R/L10NC	●	●	10	10	120	10	202120				
CSV R/L12NC	●	●	12	12	120	12	202122				

CSVF

Front Turning

Shape	Tip Shape	Tool Holder Model	(mm) Size (mm)			rε	R	L	Order Number
			W	L	h				
		CSVF11FR/LV	6.35	2.38	0.0	●	●	201700	
		CSVF11FR/LV-A	1.00	0.385	6.35	2.38	0.0	201702	
		CSVF11FR/LV-M	1.585	0.385	6.35	2.38	0.0	201704	
		CSVF11FR/LV-C	1.585	0.385	6.35	2.38	0.0	201706	
		CSVF11FR/LVB	3.0	1.00	0.385	6.35	2.38	0.0	201708
		CSVF11FR/LVB-A	3.0	1.00	0.385	6.35	2.38	0.0	201710
		CSVF11FR/LVB-M	3.0	1.00	0.385	6.35	2.38	0.0	201712
		CSVF11FR/LVB-C	3.0	1.00	0.385	6.35	2.38	0.0	201714
		CSVF11FR/LVX	6.35	2.38	0.0	●	●	201716	

CSVB

Rear turning CSVB Type

Shape	Tip Shape	Tool Holder Model	(mm) Size (mm)			rε	R	L	Order Number
			W	L	h				
		CSVB11FR/LV	2.0	1.00	0.385	6.35	2.38	0.0	202200
		CSVB11FR/LV-A	1.00	0.385	6.35	2.38	0.0	202202	
		CSVB11FR/LV-M	1.585	0.385	6.35	2.38	0.0	202204	
		CSVB11FR/LV-C	1.585	0.385	6.35	2.38	0.0	202206	
		CSVB11FR/LV12	1.20	0.385	6.35	2.38	0.0	202208	
		CSVB11FR/LV14	1.40	0.385	6.35	2.38	0.0	202210	
		CSVB11FR/LVB	2.0	1.00	0.385	6.35	2.38	0.0	202212
		CSVB11FR/LVB-A	1.00	0.385	6.35	2.38	0.0	202214	
		CSVB11FR/LVB-M	1.585	0.385	6.35	2.38	0.0	202216	
		CSVB11FR/LVB-C	1.585	0.385	6.35	2.38	0.0	202218	
		CSVB11FR/LVB12	1.20	0.385	6.35	2.38	0.0	202220	
		CSVB11FR/LVB14	1.40	0.385	6.35	2.38	0.0	202222	
		CSVB11FR/LVX	6.35	2.38	0.0	●	●	202224	

CSVC

Cutting Turning CSVB Type

Shape	Tip Shape	Tool Holder Model	(mm) Size (mm)			rε	R	L	Order Number
			W	L	h				
		CSVC11FR/LV06	2.0	1.5	0.6	●	●	201800	
		CSVC11FR/LV07	2.0	1.5	0.7	●	●	201802	
		CSVC11FR/LV08	2.5	2.0	0.8	●	●	201804	
		CSVC11FR/LV09	2.5	2.0	0.9	●	●	201806	
		CSVC11FR/LV10	3.0	2.5	1.0	●	●	201808	
		CSVC11FR/LV13	3.0	2.5	1.3	●	●	201810	
		CSVC11FR/LV15	3.0	2.5	1.5	●	●	201812	
		CSVC11FR/LVB06	6.35	2.38	2.0	1.5	0.0	201814	
		CSVC11FR/LVB07	6.35	2.38	2.0	1.5	0.0	201816	
		CSVC11FR/LVB08	6.35	2.38	2.5	2.0	0.0	201818	
		CSVC11FR/LVB09	6.35	2.38	2.5	2.0	0.0	201820	
		CSVC11FR/LVB10	6.35	2.38	3.0	2.5	0.0	201822	
		CSVC11FR/LVB13	6.35	2.38	3.0	2.5	0.0	201824	
		CSVC11FR/LVB15	6.35	2.38	3.0	2.5	0.0	201826	

CSVT

Thread Cutting CSVT Type

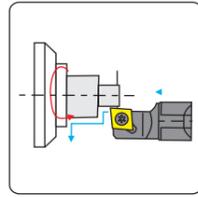
Shape	Tip Shape	Tool Holder Model	(mm) Size (mm)			rε	R	L	Order Number
			W	L	h				
		CSVT11FR/L P60-035A	6.35	2.38	0.2	MAX	●	●	201900
		CSVT11FR/L P60-035B	6.35	2.38	0.5	MAX	●	●	201902

CSVG

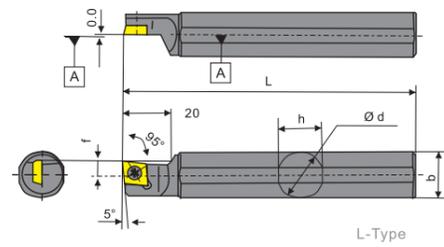
Slot Cutter CSVG Type

Shape	Tip Shape	Tool Holder Model	(mm) Size (mm)			rε	R	L	Order Number
			W	L					

DS-SCLL
DS-SCLL Type



External / End Face Turning

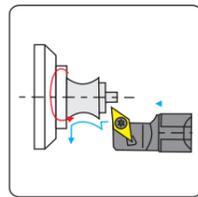


L-Type

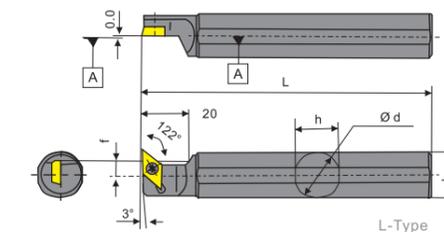
(Inserts) A15-A16
(Toolholder Parts) P01-P04

Ordering code	Dimensions						Insert	Wrench	Screw	Stock		Order Number
	ød	h	b	L	f	R				L		
DS-SCLL 14F-06	14	13	13	80	6.0	CC..0602..	T8	M2.5×7	o	●	202400	
15H-06	15.875	15	15	100	6.0				o	●	202402	
16F-06	16	15	15	80	6.0				o	●	202404	
19-06	19.05	18	18	120	6.0				o	●	202406	
20X-06	20	19	19	95	6.0				o	●	202408	
20-06	20	19	19	120	6.0				o	●	202410	
22-06	22	21	21	120	6.0				o	●	202412	
25-06MET	25	24	24	120	6.0				o	●	202414	
25-06	25.4	24	24	150	6.0				o	●	202416	
14F-09	14	13	13	80	6.0				CC.09T3..	T15	M4.0×8	o
15H-09	15.875	15	15	100	6.0	o	●	202420				
16F-09	16	15	15	80	6.0	o	●	202422				
19GX-09	19.05	18	18	85	6.0	o	●	202424				
19-09	19.05	18	18	120	6.0	o	●	202426				
20X-09	20	19	19	95	6.0	o	●	202428				
20-09	20	19	19	120	6.0	o	●	202430				
22-09	22	21	21	120	6.0	o	●	202432				
25-09MET	25	24	24	120	6.0	o	●	202434				
25-09	25.4	24	24	150	6.0	o	●	202436				

DS-SDUL
DS-SDUL Type



External / End Face Turning

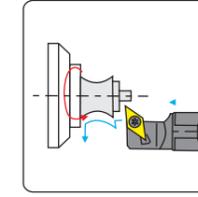


L-Type

(Inserts) A17-A18
(Toolholder Parts) P01-P04

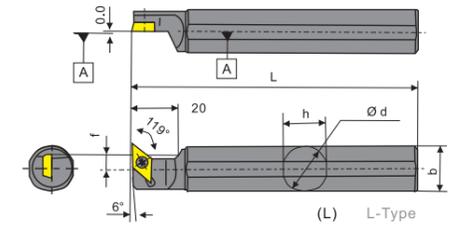
Ordering code	Dimensions						Insert	Wrench	Screw	Stock		Order Number		
	ød	h	b	L	f	R				L				
DS-SDUL 14F-07	14	13	13	80	6.0	DC..0702..	T8	M2.5×7	o	●	202500			
15H-07	15.875	15	15	100	6.0				o	●	202502			
16F-07	16	15	15	80	6.0				o	●	202504			
16X-07	16	15	15	120	6.0				o	●	202506			
19-07	19.05	18	18	120	6.0				o	●	202508			
20X-07	20	19	19	95	6.0				o	●	202510			
20-07	20	19	19	120	6.0				o	●	202512			
22-07	22	21	21	120	6.0				o	●	202514			
14F-11	14	13	13	80	6.0				DC.11T3..	T15	M4.0×10	o	●	202516
16F-11	16	15	15	80	6.0							o	●	202518
19-11	19.05	18	18	120	6.0	o	●	202520						
19-11SPL	19.05	18	18	160	6.0	o	●	202522						
20X-11	20	19	19	95	11.0	o	●	202524						
20-11	20	19	19	120	10	o	●	202526						
22-11	22	21	21	120	10	o	●	202528						
25-11MET	25	25	25	120	10	o	●	202530						
25-11	25.4	25.4	25.4	150	10	o	●	202532						

DS-SDXL
DS-SDXL Type



External / End Face Turning

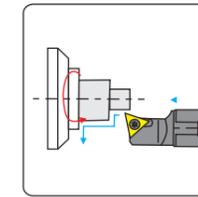
(Inserts) A17-A18
(Toolholder Parts) P01-P04



(L) L-Type

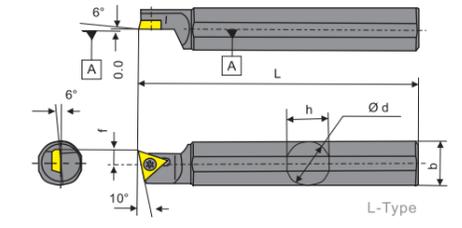
Ordering code	Dimensions						Insert	Wrench	Screw	Stock		Order Number
	ød	h	b	L	f	R				L		
DS-SDXL 19-11	19.05	19.05	19.05	120	10	DC.11T3..	T15	M4.0×10	o	●	202534	
20X-11	20	20	20	95	10				o	●	202536	
20-11	20	20	20	120	10				o	●	202538	
25-11MET	25	25	25	120	10				o	●	202540	

DS-PTXL
DS-PTXL Type



External / End Face Turning

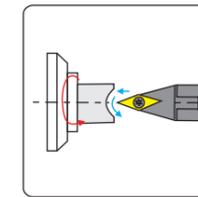
(Inserts) A09-A10
(Toolholder Parts) P01-P04



L-Type

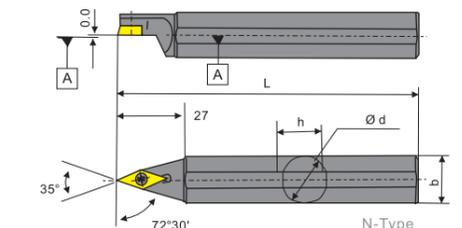
Ordering code	Dimensions						Insert	Wrench	Screw	Stock		Order Number
	ød	h	b	L	f	R				L		
DS-PTXNR/L 19-33	19.05	18	18	120	11	TN..1604..	T15	M3.5×13T	o	●	202600	
20-33	20	19	19	120	11				o	●	202602	
22-33	22	21	21	120	12				o	●	202604	
25M-33	25.4	24	24	150	13				o	●	202606	

DS-SVVPN
DS-SVVPN Type



End Face Turning

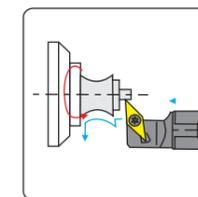
(Inserts) A23-A24
(Toolholder Parts) P01-P04



N-Type

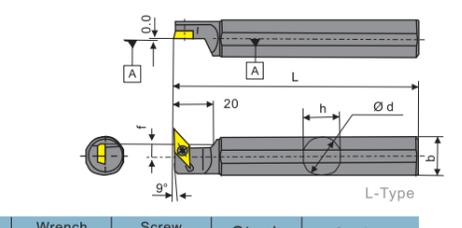
Ordering code	Dimensions						Insert	Wrench	Screw	Stock		Order Number
	ød	h	b	L	f	N						
DS-SVVPN 15-11	15.875	15	15	120	0	VP..1103..	T8	M2.5×7	o	●	202607	
19-11	19.05	18	18	120	0				o	●	202608	
22-11	22	21	21	120	0				o	●	202610	
25-11	25.4	24	24	150	0				o	●	202612	

DS-SVXL
DS-SVXL Type



External / End Face Turning

(Inserts) A23-A24
(Toolholder Parts) P01-P04



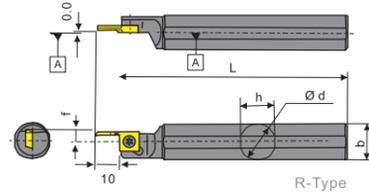
L-Type

Ordering code	Dimensions						Insert	Wrench	Screw	Stock		Order Number
	ød	h	b	L	f	R				L		
DS-SVXL 14F-11	14	13	13	80	10	DC..0702..	T8	M2.5×7	o	●	202700	
15H-11	15.875	15	15	100	10				o	●	202702	
16F-11	16	15	15	80	10				o	●	202704	
19-11	19.05	18	18	120	10				o	●	202706	
19-11SPL	19.05	18	18	160	11				o	●	202708	
20X-11	20	19	19	95	10				o	●	202710	
20-11	20	19	19	120	10				o	●	202712	
22-11	22	21	21	120	10				o	●	202714	
25-11	25.4	24	24	150	10				o	●	202716	
DS-SVXPL 19-08	19.05	18	18	120	10				DC.11T3..	T15	M4.0×10	o
20-08	20	19	19	120	10	o	●	202720				
22-08	22	21	21	120	10	o	●	202722				
25-08	25.4	24	24	150	10	o	●	202724				

DS-LBMB

DS-LBMB Type

(Inserts) AB08
(Toolholder Parts) P01-P04

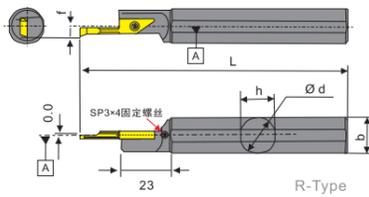


Ordering code	Dimensions					Insert	Wrench	Screw	Stock		Order Number
	ød	h	b	L	f				R	L	
DS-LBMB 14F	14	13	13	80	6.0	LBMD-S LBM(C)3080 LBM(E)2060 LBMD1020	T15	M4.0×10	○	●	202728
15H	15.875	15	15	100	6.0				○	●	202730
16X	16	15	15	95	6.0				○	●	202732
19	19.05	18	18	120	6.0				○	●	202734
20	20	19	19	120	6.0				○	●	202736
22	22	21	21	120	6.0				○	●	202738
25-MET	25	24	24	120	6.0				○	●	202740
25	25.4	24	24	160	6.0				○	●	202742

S-SVNR

S-SVNR Type

(Toolholder Parts) P01-P04

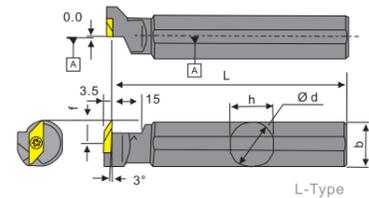


Ordering code	Dimensions					Insert	Wrench	Screw	Stock		Order Number
	ød	h	b	L	f				R	L	
S12F-SVNR12N	12	11	11	80	4	VNBR.. VNBTR.. VNGR.. VNFGR.. VNTR..	T10	M3.0×8	●	○	202750
S14G-SVNR12N	14	13	13	90	4				●	○	202752
S16H-SVNR12N	16	15	15	120	6				●	○	202754
S19H-SVNR12N	19.05	17	17	120	6				●	○	202756
S20H-SVNR12N	20	18	18	120	6				●	○	202758
S25H-SVNR12N	25.4	23	23	120	6				●	○	202760

DS-TBPL

DS-TBPL Type

(Inserts) A43
(Toolholder Parts) P01-P04

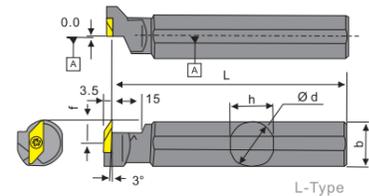


Ordering code	Dimensions					Insert	Wrench	Screw	Stock		Order Number
	ød	h	b	L	f				R	L	
DS-TBPL 19	19.05	18	18	120	11.0	TBP..	T15	M4.0×10	○	●	202800
20	20	19	19	120	11.0				○	●	202802
25	25.4	24	24	150	13.0				○	●	202804

DS-KTKFL

DS-KTKFL Type

(Inserts) A33,A44,A51-A54
(Toolholder Parts) P01-P04

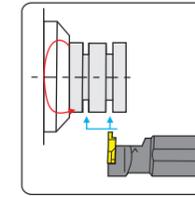


Ordering code	Dimensions					Insert	Wrench	Screw	Stock		Order Number
	ød	h	b	L	f				R	L	
DS-KTKFL 19	19.05	18	18	120	11.0	TKF..12R.. TKFB..12R.. TKFT..12R..	T20	M4.5×8	○	●	202850
20	20	19	19	120	11.0				○	●	202852
25	25.4	24	24	150	13.0				○	●	202854

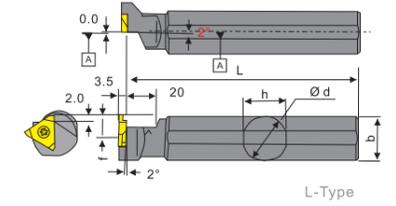
DS-KTGFL
DS-GTTL

DS-KTGFL Type
DS-GTTL Type

(Inserts): A25
(Toolholder Parts) P01-P04



Grooving

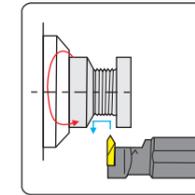


Ordering code	Dimensions					Insert	Wrench	Screw	Stock		Order Number
	ød	h	b	L	f				R	L	
DS-GTTL 14F	14	13	13	80	6.0	GTM32 GTMH32 GTMX32	T15	M4.0×10	○	●	202806
15H	15.875	15	15	100	6.0				○	●	202808
16X	16	15	15	95	6.0				○	●	202810
19	19.05	18	18	120	6.0				○	●	202812
20	20	19	19	120	6.0				○	●	202814
22	22	21	21	120	6.0				○	●	202816
25	25.4	24	24	120	10.0	○	●	202818			
DS-KTGFL 14F	14	13	13	80	6.0	TGF32R..	T15	M4.0×10	○	●	202820
15H	15.875	15	15	100	6.0				○	●	202822
16H	16	15	15	100	6.0				○	●	202824
19	19.05	18	18	120	6.0				○	●	202826
20	20	19	19	120	6.0				○	●	202828
25	25.4	24	24	120	6.0				○	●	202830

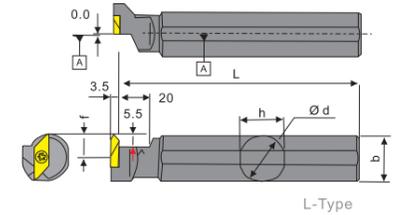
DS-TTPL

DS-TTPL Type

(Inserts) A51-A54
(Toolholder Parts) P01-P04



Threading

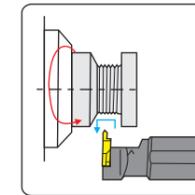


Ordering code	Dimensions					Insert	Wrench	Screw	Stock		Order Number
	ød	h	b	L	f				R	L	
DS-TTPL 19	19.05	18	18	120	10.0	TTP..	T15	M4.0×10	○	●	202900
20	20	19	19	120	10.0				○	●	202902
25	25.4	24	24	150	10.0				○	●	202904

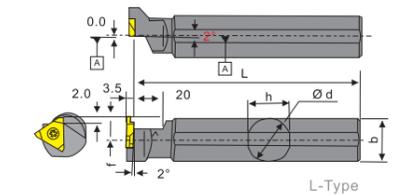
DS-KTTXL
DS-STTL

DS-KTTXL Type
DS-STTL Type

(Inserts) A51-A54
(Toolholder Parts) P01-P04



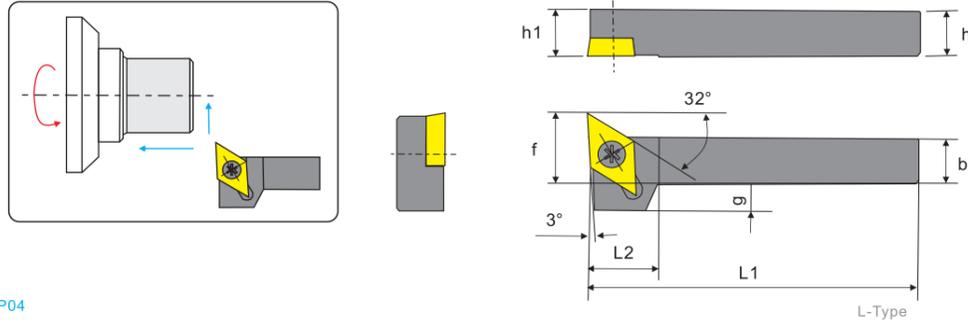
Threading



Ordering code	Dimensions					Insert	Wrench	Screw	Stock		Order Number
	ød	h	b	L	f				R	L	
DS-STTL 14F	14	13	13	80	6.0	TTMH3260	T15	M4.0×10	○	●	202906
15H	15.875	15	15	100	6.0				○	●	202908
16X	16	15	15	95	6.0				○	●	202910
DS-KTTXL 14F	14	13	13	80	6.0	TTX32R..	T15	M4.0×10	○	●	202920
15H	15.875	15	15	100	6.0				○	●	202922
16H	16	15	15	100	6.0				○	●	202924
19	19.05	18	18	120	6.0				○	●	202926
20	20	19	19	120	6.0				○	●	202928
25	25.4	24	24	120	6.0				○	●	202930

CH-SDUCL
CH-SDUCL Type

External / End Face Turning

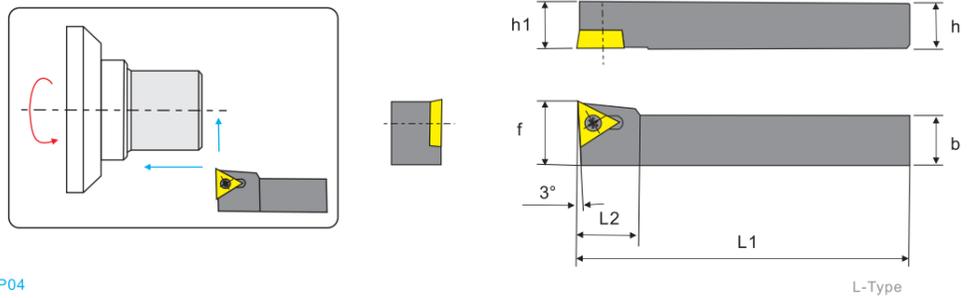


(Inserts) A17-A18
(Toolholder Parts) P01-P04

Ordering code	Dimensions						Insert	Wrench	Screw	Stock		Order Number
	g	h=h1	b	L1	L2	f				R	L	
CH-SDUCL 1010H11	6	10	10	100	15	15	DC..11T3	T15	M4.0×10	○	●	203100
1212H11	4	12	12	100	15	17				○	●	203102

CH-STUCL
CH-STUCL Type

External / End Face Turning

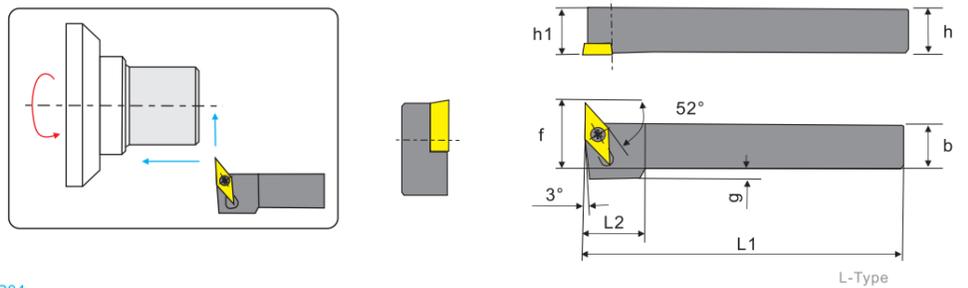


(Inserts) A21-A22
(Toolholder Parts) P01-P04

Ordering code	Dimensions						Insert	Wrench	Screw	Stock		Order Number
	g	h=h1	b	L1	L2	f				R	L	
CH-STUCL 1010H09	-	10	10	100	13	13	TC..0902	T8	M2.2×6	○	●	203104
1212H09	-	12	12	100	13	15				○	●	203106

CH-SVUPL
CH-SVUP Type

External / End Face Turning

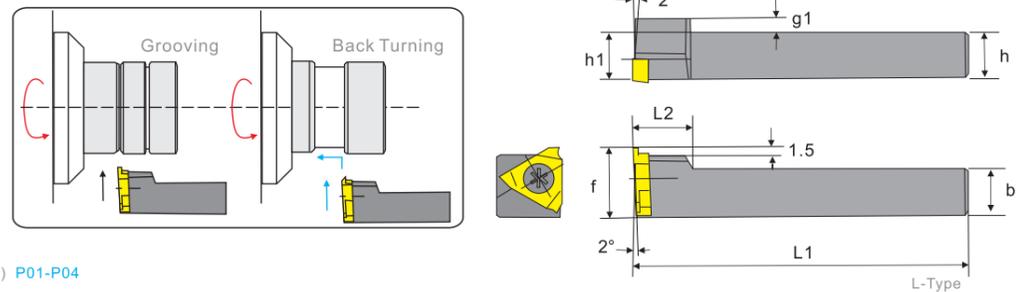


(Inserts) A23-A24
(Toolholder Parts) P01-P04

Ordering code	Dimensions						Insert	Wrench	Screw	Stock		Order Number
	g	h=h1	b	L1	L2	f				R	L	
CH-SVUPL 1010H08	2	10	10	100	13	15	VP..0802	T8	M2.0×6	○	●	203108
1212H08	0	12	12	100	13	17				○	●	203110

CH-GTTL
CH-GTTL Type

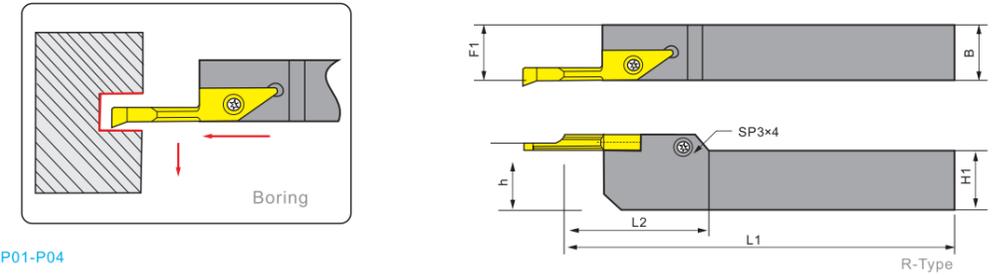
(Toolholder Parts) P01-P04



Ordering code	Dimensions						Insert	Wrench	Screw	Stock		Order Number
	g1	h=h1	b	L1	L2	f				R	L	
CH-GTTL 10H00	10	10	10	100	12	15	GTM..	T15	M4.0×9	○	●	203200
12H00	12	12	12	100	12	17				○	●	203202

SVN
SVN Type

(Toolholder Parts) P01-P04

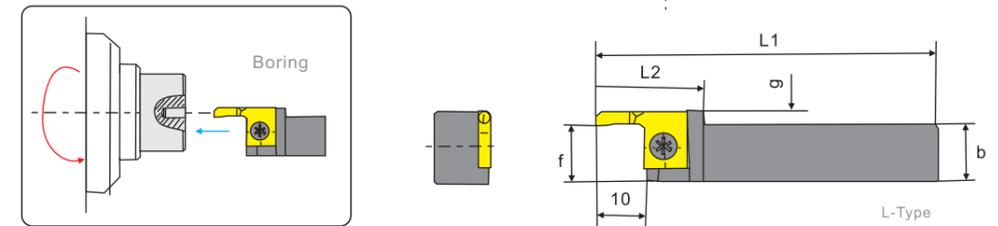


Ordering code	Dimensions						Insert	Wrench	Screw	Stock	Order Number	
	H1=h	B	L1	L2	T	F1						
SVNR 1010H12N	10	10	100	22		10	VNBR..	T10	M3×8	●	207500	
1212K-12N	12	12	125	22		12				VNBTR..	●	207502
1616K-12N	16	16	125	22		16				VNGR..	●	207504
2020K-12N	20	20	125	22		20				VNFGR..	●	207506
2525M-12N	25	25	150	22		25				VNTR..	●	207508

Please order the round shank type shank.

CH-LBML
CH-LBML Type

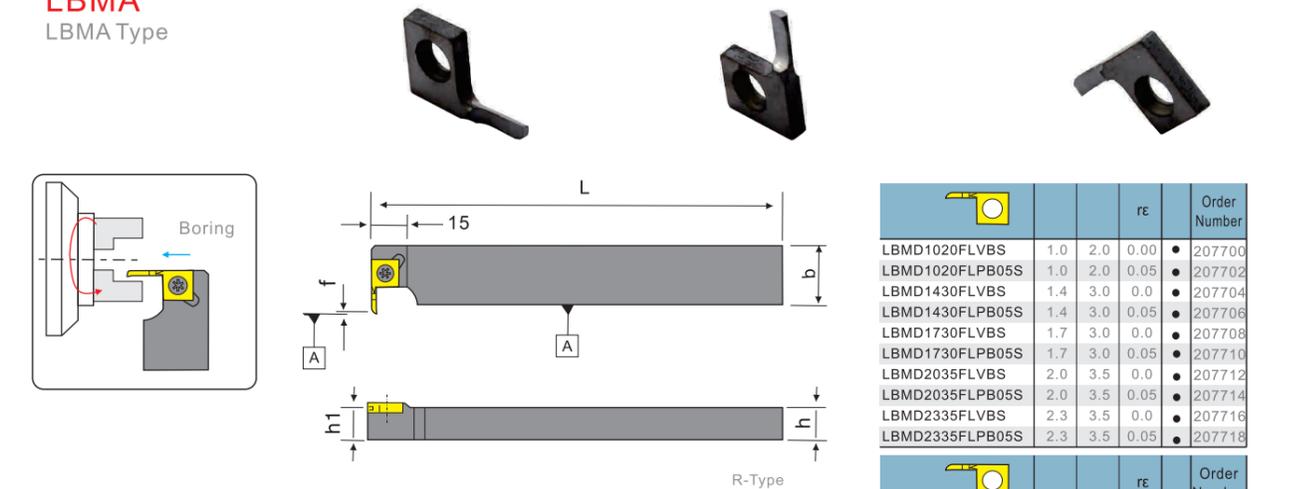
(Toolholder Parts) P01-P04



Ordering code	Dimensions						Insert	Wrench	Screw	Stock		Order Number
	g	h=h1	b	L1	L2	f				R	L	
CH-LBML 1012H	3	10	12	100	22	12	LBM..	T15	M4.0×10	○	●	203300
1212H	3	12	12	100	22	12				○	●	203302

LBMA
LBMA Type

(Toolholder Parts) P01-P04



Ordering code	(mm)						Insert	Wrench	Screw	Order Number
	h1	h	b	L	f					
LBMAR 10SGX	●	10	10	10	10		LBMD-S 短型	M4.0X10	T15	207600
	●	10	10	10	10	0.0				207602
	●	12	12	12	12					207604
LBMAR 08	●	8	8	8	8		LBMD(C)3080 LBMD(E)2060 LBMD1020	M4.0X10	T15	207606
	●	10	10	10	10					207608
	●	10	10	10	10	11.0				207610
	●	12	12	12	12	0.0				207612
16	●	16	16	16	16					207614

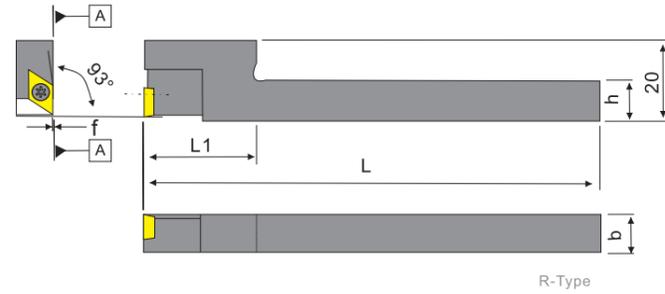
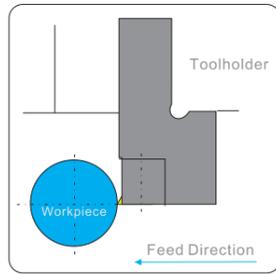
Ordering code	h1	h	b	re	Order Number
LBMD1020FLVBS	1.0	2.0	0.00	●	207700
LBMD1020FLPB05S	1.0	2.0	0.05	●	207702
LBMD1430FLVBS	1.4	3.0	0.0	●	207704
LBMD1430FLPB05S	1.4	3.0	0.05	●	207706
LBMD1730FLVBS	1.7	3.0	0.0	●	207708
LBMD1730FLPB05S	1.7	3.0	0.05	●	207710
LBMD2035FLVBS	2.0	3.5	0.0	●	207712
LBMD2035FLPB05S	2.0	3.5	0.05	●	207714
LBMD2335FLVBS	2.3	3.5	0.0	●	207716
LBMD2335FLPB05S	2.3	3.5	0.05	●	207718

Ordering code	h1	h	b	re	Order Number
LBMD1020FLVB	1.0	2.0	0.00	●	207800
LBMD1020FLPB05	1.0	2.0	0.05	●	207802
LBMD2060FLVB	2.0	6.0	0.0	●	207804
LBMD2060FLPB05	2.0	6.0	0.05	●	207806
LBME2060FLV	2.0	6.0	0.0	●	207808
LBME2060FLP05	2.0	6.0	0.05	●	207810
LBME2060FLVB	2.0	6.0	0.0	●	207812
LBME2060FLPB05	2.0	6.0	0.05	●	207814
LBMC3080FLV	3.0	8.0	0.0	●	207816
LBMC3080FLP05	3.0	8.0	0.05	●	207818
LBMC3080FLVB	3.0	8.0	0.0	●	207820
LBMC3080FLPB05	3.0	8.0	0.05	●	207822
LBMC3080FLVBS	3.0	8.0	0.0	●	207824
LBMC3080FLPB05S	3.0	8.0	0.05	●	207826

Y-SDJCR

Y-SDJC Type

Front Turning



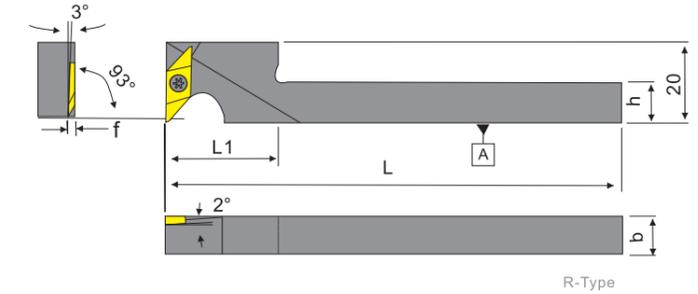
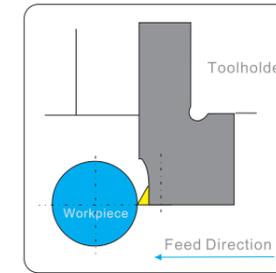
(Inserts) A17-A18
(Toolholder Parts) P01-P04

Ordering code	Dimensions						Insert	Wrench	Screw	Stock		Order Number
	h	b	L	L1	f	R				L		
Y-SDJCR 10-07S	10	10	120	20	0	DC..0702	T8	M2.5×7	●	○	203400	
12-07S	12	12	120	20	0				●	○	203402	
10-07	10	10	120	25	0				●	○	203404	
12-07	12	12	120	25	0				●	○	203406	
10-07L	10	10	120	30	0				●	○	203408	
12-07L	12	12	120	30	0				●	○	203410	
10-11L	10	10	120	30	0	DC..11T3	T15	M4.0×10	●	○	203412	
12-11S	10	16	120	20	0				●	○	203414	
12-11L	12	16	120	20	0				●	○	203416	
12-11LL	12	16	120	30	0				●	○	203418	
16-11L	16	16	120	30	0				●	○	203420	
16-11LL	16	16	140	42	0				●	○	203422	

Y-TBPR

Y-TBPR Type

Back Sweep



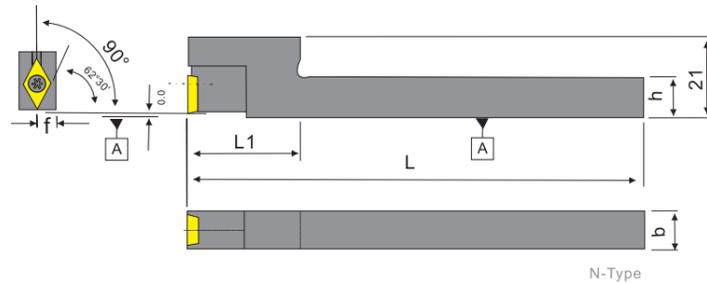
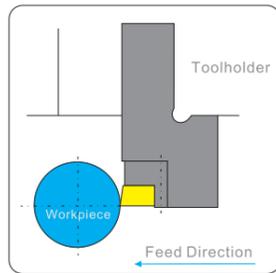
(Inserts) A43
(Toolholder Parts) P01-P04

Ordering code	Dimensions						Insert	Wrench	Screw	Stock		Order Number
	h	b	L	L1	f	R				L		
Y-TBPR 10S	10	10	120	20	3.5	TBP..FR	T15	M4.0×10	●	○	203500	
12S	12	12	120	20	3.5				●	○	203502	
10	10	10	120	25	3.5				●	○	203504	
12	12	12	120	25	3.5				●	○	203506	
10L	10	10	120	30	3.5				●	○	203508	
12L	12	12	120	30	3.5				●	○	203510	

Y-SDNCN

Y-SDNCN Type

Front Turning



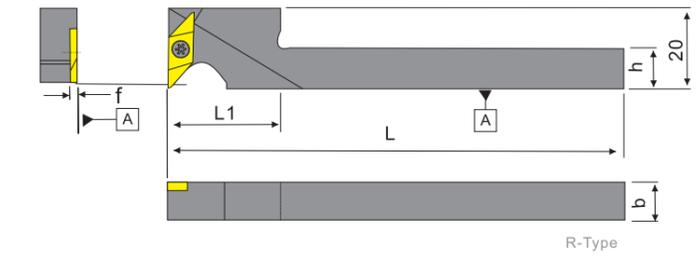
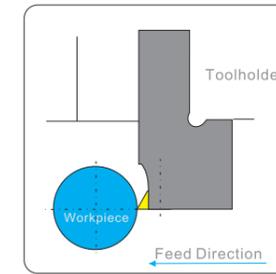
(Inserts) A17-A18
(Toolholder Parts) P01-P04

Ordering code	Dimensions						Insert	Wrench	Screw	Stock		Order Number
	h	b	L	L1	f	R				L		
Y-SDJCR 12-11S	12	12	120	20	6.0	DC..11T3	T15	M4.0×10	●	○	203424	
16-11L	16	16	120	30	8.0				●	○	203426	

Y-GTPA

Y-GTPA Type

Multifunctional



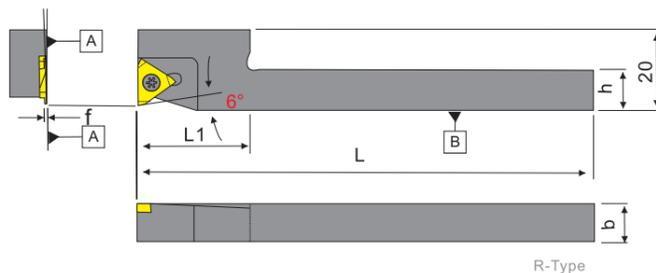
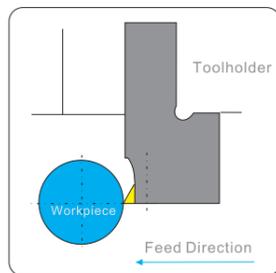
(Inserts) A29-A31
(Toolholder Parts) P01-P04

Ordering code	Dimensions						Insert	Wrench	Screw	Stock		Order Number
	h	b	L	L1	f	R				L		
Y-GTPA 1216	12	16	120	20	-	GTPA..	T15	M4.0×10	●	○	203524	

Y-GTTR

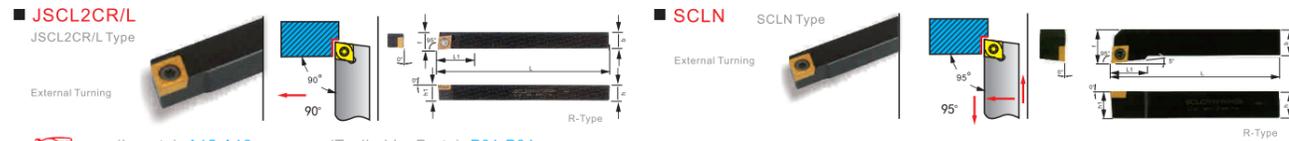
Y-GTTR Type

Grooving

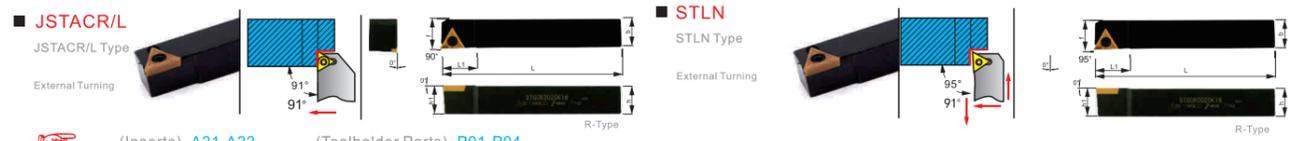


(Toolholder Parts) P01-P04

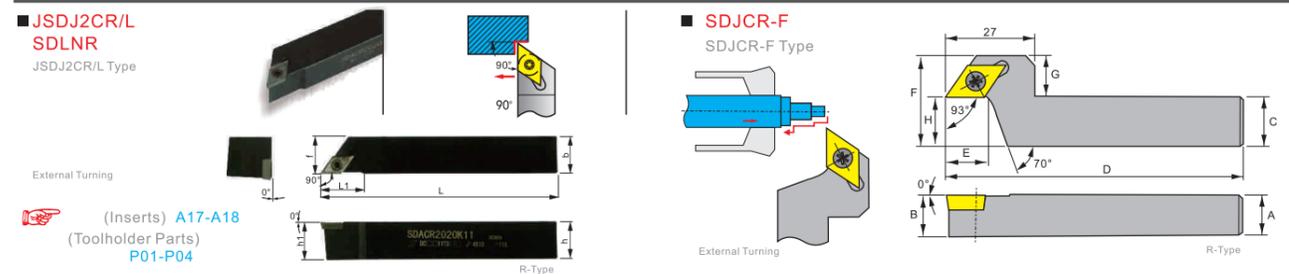
Ordering code	Dimensions						Insert	Wrench	Screw	Stock		Order Number
	h	b	L	L1	f	R				L		
Y-GTTR 10S	10	10	120	20	-	GTM..	T15	M4.0×10	●	○	203512	
10	10	10	120	20	-				●	○	203514	
10L	10	10	120	25	-				●	○	203516	
12S	12	12	120	25	-				●	○	203518	
12	12	12	120	30	-				●	○	203520	
12L	12	12	120	30	-				●	○	203522	



Ordering code	Dimensions						Insert	Wrench	Screw	Stock		Order Number
	h	b	L	L1	h1	f				R	L	
JSCL2CR/L 0808K06	8	8	125	10	8	8	CC..0606..	T8	M2.5x7	•	•	204100
1010K06	10	10	125	10	10	10	•	•	•	•	•	204102
1212K06	12	12	125	13	12	12	•	•	•	•	•	204104
JSCL2CR/L 1010K09	10	10	125	13	10	10	CC..09T3..	T15	M4x10	•	•	204106
1212K09	12	12	125	13	12	12	•	•	•	•	•	204108
1616K09	16	16	125	13	16	16	•	•	•	•	•	204110
SCLNR 1010K-07FF	10	10	125	15	10	10	CN..0703..	T10	M3x8	•	•	203600
1212F-07FF	12	12	85	15	12	12	•	•	•	•	•	203602
1212K-07FF	12	12	125	15	12	12	•	•	•	•	•	203604
1616K-07FF	16	16	125	15	16	16	•	•	•	•	•	203606

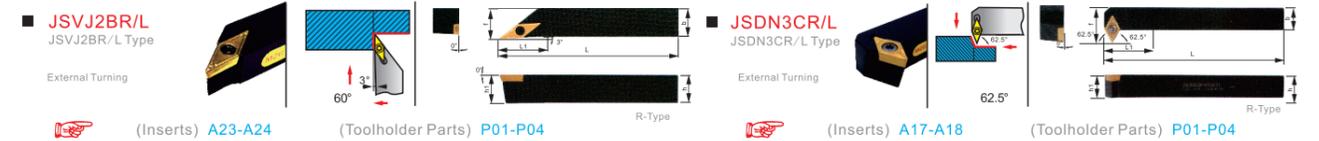


Ordering code	Dimensions						Insert	Wrench	Screw	Stock		Order Number
	h	b	L	L1	h1	f				R	L	
JSTACR/L 0808K08	8	8	100	10	8	8	TC..0802..	T6	M2.2x6	•	•	203900
1010K08	10	10	100	10	10	10	•	•	•	•	•	203902
1212K11	12	12	100	12	12	12	TC..1102..	T8	M2.5x7	•	•	203904
1616K11	16	16	100	12	16	16	•	•	•	•	•	203906
STLNR 1010K-09FF	10	10	125	15	10	10	TN..0903..	T8	M2.5x7	•	•	203800
1212F-09FF	12	12	85	15	12	12	•	•	•	•	•	203802
1212K-09FF	12	12	125	15	12	12	•	•	•	•	•	203804
1616K-09FF	16	16	125	15	16	16	•	•	•	•	•	203806



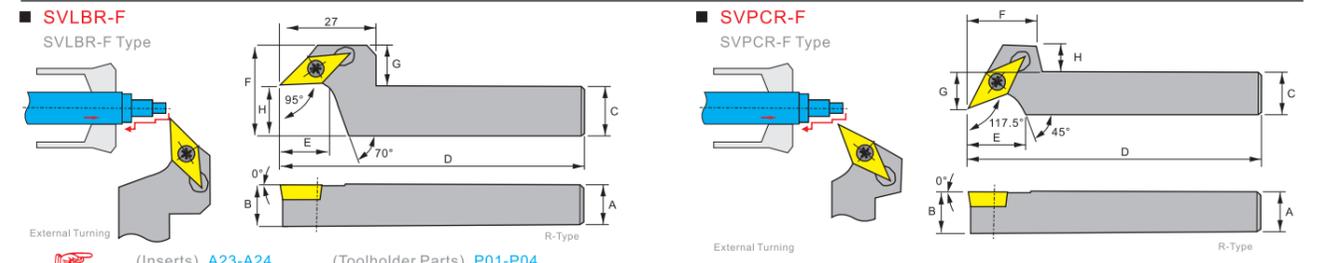
Ordering code	Dimensions						Insert	Wrench	Screw	Stock		Order Number
	h	b	L	L1	h1	f				R	L	
JSDJ2CR/L 0808K07	8	8	125	15	8	8	DC..0702..	T8	M2.5x7	•	•	204200
1010K07	10	10	125	15	10	10	•	•	•	•	•	204202
1212K07	12	12	125	15	12	12	•	•	•	•	•	204204
JSDJ2CR/L 1010K11	10	10	125	22	10	10	DC..11T3..	T15	M4x10	•	•	204206
1212K11	12	12	125	22	12	12	•	•	•	•	•	204208
1616K11	16	16	125	22	16	16	•	•	•	•	•	204210
SDLNR 1010K-08FF	10	10	125	18	10	10	DN..0803..	T10	M3x8	•	•	203700
1212F-08FF	12	12	85	18	12	12	•	•	•	•	•	203702
1212K-08FF	12	12	125	18	12	12	•	•	•	•	•	203704
1616K-08FF	16	16	125	18	16	16	•	•	•	•	•	203706

Ordering code	Dimensions								Insert	Wrench	Screw	Stock		Order Number
	A	B	C	D	E	F	G	H				R	L	
SDJCR 1216JX11-F05	12	12	16	120	12.6	18	2	5	DC..11T3..	T15	M4x10	•	•	204220
1216JX11-F15	12	12	16	120	12.6	28	12	15	•	•	•	•	•	204222
1620JX11-F05	16	16	20	120	12.6	20	-	5	•	•	•	•	•	204224
1620JX11-F15	16	16	20	120	12.6	28	8	15	•	•	•	•	•	204226

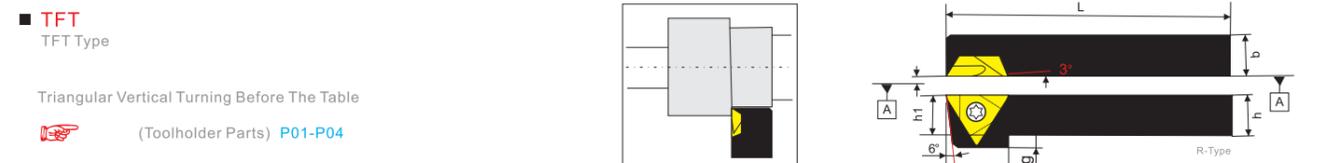


Ordering code	Dimensions						Insert	Wrench	Screw	Stock		Order Number
	h	b	L	L1	h1	f				R	L	
JSVJ2BR/L 0808K11	8	8	125	20	8	8	VB..1103..	T8	M2.5x6	•	•	204300
1010K11	10	10	125	20	10	10	•	•	•	•	•	204302
1212K11	12	12	125	22	12	12	•	•	•	•	•	204304
1616K11	16	16	125	22	16	16	•	•	•	•	•	204306
JSVJ2CR/L 0808K11	8	8	125	20	8	8	VC..1103..	T8	M2.5x6	•	•	204308
1010K11	10	10	125	20	10	10	•	•	•	•	•	204310
1212K11	12	12	125	22	12	12	•	•	•	•	•	204312
1616K11	16	16	125	22	16	16	•	•	•	•	•	204314

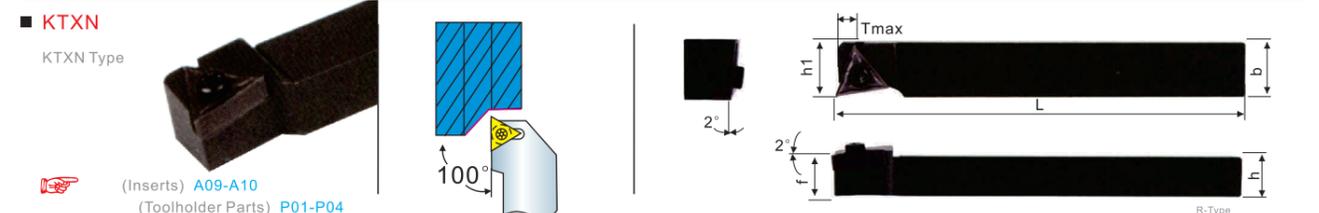
Ordering code	Dimensions						Insert	Wrench	Screw	Stock		Order Number
	h	b	L	L1	h1	f				R	L	
JSDN3CR/L 1212K07	12	12	125	12	12	18	DC..0702..	T8	M2.5x7	•	•	204400
1616K11	16	16	125	15	16	25	DC..11T3..	T15	M3.5x10	•	•	204402



Ordering code	Dimensions								Insert	Wrench	Screw	Stock		Order Number
	A	B	C	D	E	F	G	H				R	L	
SVLBR 1216JX11-F15	12	12	16	120	12	26	10	15	VB..1103..	T8	M2.5x6	•	•	204330
1620JX11-F15	16	16	20	120	12	26	6	15	•	•	•	•	•	204332
SVPCR 1010JX-11F	10	10	10	120	16	20	10	8	•	•	•	•	•	204334
1212F-11FF	12	12	12	85	16	20	12	6	VB..1103..	T8	M2.5x6	•	•	204336
1212JX-11FF	12	12	12	120	16	20	12	6	•	•	•	•	•	204338
1616JX-11FF	16	16	16	120	20	20	16	2	•	•	•	•	•	204339

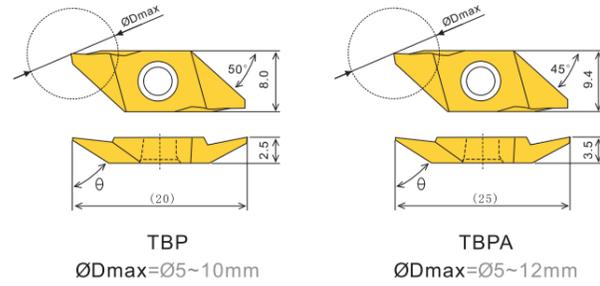


Insert model	rE	R	Order Number	Tool holder model (mm)						Applicable Insert	Order Number
				h	b	L	h1	f	g		
TF3300R	0	•	204600	10	10	10	10	3	TF 33	M4X10 T15	204500
TF3305R	0.05	•	204602	12	12	12	12	1			204502
TF3315R	0.15	•	204604	16	16	16	16	0.0			204504
TF3320R	0.20	•	204606	20	20	20	20	0.0			204506
				20	20	20	20	0.0			204506



Ordering code	Dimensions						Insert	Wrench	Screw	Stock		Order Number
	h	b	L	L1	h1	f				R	L	
KTXNR 1016X33N	10	16	120	20	10	16	TN□□33	T15	M3.5x13T	•	•	204700
1216X33N	12	16	120	20	12	16	•	•	•	•	•	204702
1616X33N	16	16	120	20	16	16	•	•	•	•	•	204704
2020X33N	20	20	120	20	20	20	•	•	•	•	•	204706

TBP



Cutting Environment ● Stable Cutting ● General Cutting ☹ General Cutting(Second recommend) ✖ Unstable Cutting

P	Steel	●●●●●●●●●●
M	Stainless Steel	●●●●●●●●●●
K	Iron	●●●●●●●●●●
N	Aluminum/Copper/Magnesium/Zinc/Plastic/Wood	●●●●●●●●●●
S	Carbide/Powder Metallurgy	●●●●●●●●●●
H	Titanium/Superalloy/Carbon Fiber	●●●●●●●●●●

Application	Dimension and Shape	Specification	Dimension				Application									
			A	B	rε	θ	PCD	CBN-K	CBN-S	ZN60	ZN80	ZP15	ZP80	ZM86	ZM88	
External Processing	With Groove	TBP 55FR00	3.0		0.00	55°	●	●	●	●	●	●	●	●	●	●
		TBP 55FR10	3.0		0.10	55°	●	●	●	●	●	●	●	●	●	●
		TBP 60FR00	3.7	5.3	0.00	60°	●	●	●	●	●	●	●	●	●	●
		TBP 60FR10	3.7		0.10	60°	●	●	●	●	●	●	●	●	●	●
		TBP 60FR20	3.7		0.20	60°	●	●	●	●	●	●	●	●	●	●
External Processing	With Groove	TBPA 60FR00	4.5		0.00	60°	●	●	●	●	●	●	●	●	●	
		TBPA 60FR10	4.5	5.3	0.10	60°	●	●	●	●	●	●	●	●	●	
		TBPA 60FR20	4.5		0.20	60°	●	●	●	●	●	●	●	●	●	

Cutting Environment ● Stable Cutting ● General Cutting ☹ General Cutting(Second recommend) ✖ Unstable Cutting

P	Steel	●●●●●●●●●●
M	Stainless Steel	●●●●●●●●●●
K	Iron	●●●●●●●●●●
N	Aluminum/Copper/Magnesium/Zinc/Plastic/Wood	●●●●●●●●●●
S	Carbide/Powder Metallurgy	●●●●●●●●●●
H	Titanium/Superalloy/Carbon Fiber	●●●●●●●●●●

Application	Dimension and Shape	Specification	Dimension				Application								
			Wx0.05	B	rε	θ	PCD	CBN-K	CBN-S	ZN60	ZN80	ZP15	ZP80	ZM86	ZM88
External Processing	Without Groove	TBP 60FRV00	4.8	5.3	0.00	60°	●	●	●	●	●	●	●	●	●
		TBP 60FRV05			0.05	60°	●	●	●	●	●	●	●	●	●
		TBP 60FRV10			0.10	60°	●	●	●	●	●	●	●	●	●
External Processing	Without Groove	TBPA 60FRV00	6.3	6.8	0.00	60°	●	●	●	●	●	●	●	●	
		TBPA 60FRV05			0.05	60°	●	●	●	●	●	●	●	●	
		TBPA 60FRV10			0.10	60°	●	●	●	●	●	●	●	●	

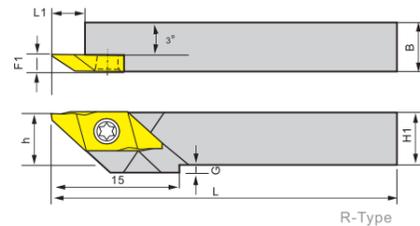
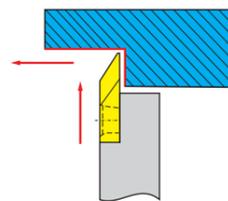
☆θ Installation Angle For The Toolholder

TBP

TBP Type

Back Turning

(Inserts) AB15,A43
(Toolholder Parts) P01-P04



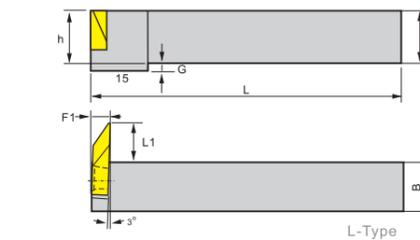
Ordering Code	Dimensions						Insert	Wrench	Screw	Stock		Order Number
	H1=h	B	L	L1	G	F1				R	L	
TBPR/L 08	8	10	120	5.5	4	2.5	TBP..	T15	M4×10	●	○	205100
10	10	10	120	5.5	2	3.5				●	○	205102
12GX	12	12	85	5.5	0	3.5				●	○	205104
12	12	12	120	5.5	0	3.5				●	○	205106
13	13	13	120	5.5	0	3.5				●	○	205108
16H	16	16	100	5.5	0	3.5				●	○	205110
16	16	16	120	5.5	0	3.5				●	○	205112

TBPSL

TBPSL Type

Back Turning

(Inserts) AB15,A43
(Toolholder Parts) P01-P04

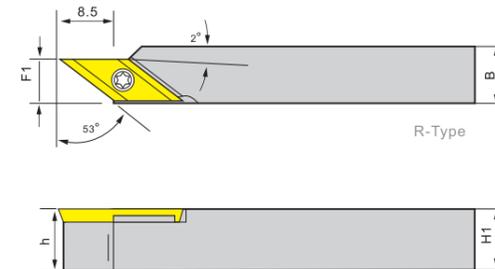


Ordering Code	Dimensions						Insert	Wrench	Screw	Stock		Order Number
	H1=h	B	L	L1	G	F1				R	L	
TBPSR/L 10	10	10	120	5.5	2	3.5	TBP..	T15	M4×10	○	●	205121
12	12	12	120	5.5	0	3.5				○	●	205123
16	16	16	120	5.5	0	3.5				○	●	205125
20	20	20	125	5.5	0	3.5				○	●	205127

TBVC

TBVC Type

Back Turning



(Toolholder Parts) P01-P04



Tool Holder Model	(mm)						Insert	Screw	Order Number
	h	B	L	H1	F1	θ			
TBVC R 10	●	10	10		10	7.5	TBVC VCGT1103	M2.5X7	205200
12	●	12	12	120	12	16			205202
16	●	16	16		16				205204
10-F10	●	10	10		10				205206
12GX-F10	●	12	12	85	12				205208
12-F10	●			120	12				205210
16H-F10	●	16	16	100	16				205212
-F10	●			120					205214
20F-F10	●	20	20	80	20				205216

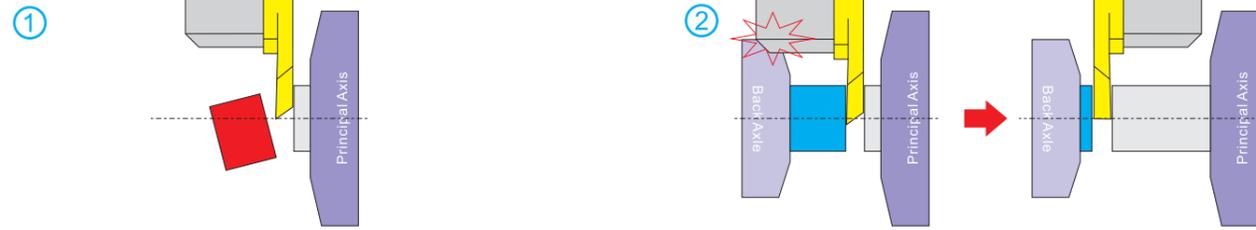
TBVC

TBVC Type Insert

Insert Model	(mm)				Order Number	
	R	L	d	s		
TBVC11FR05U	●	●	6.35	3.18	0.05	205300
TBVC11FR10U	●	●			0.10	205302
TBVC11FR10S	●	●			0.10	205304

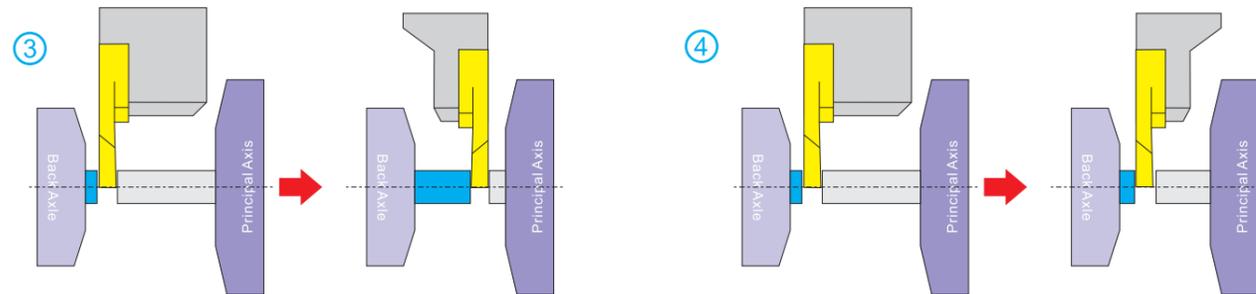
1 How to select the R and L toolholder

No back axle



Recommended to use the R Toolholder when there is no back axle. In order to reduce the residual tail pin, it is recommended to use a cutting knife with an angle at the tip.

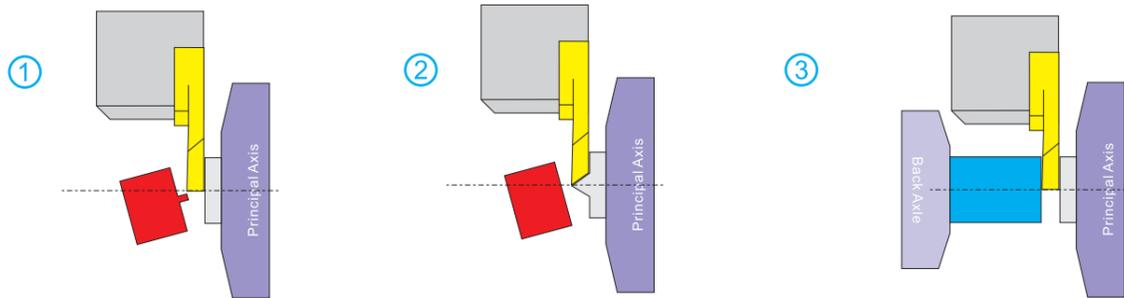
If the back axle interferes with the cutter rod during cutting, the L toolholder can be used. There is no residual tail pin. It is recommended to use a blade with no angle at the tip.



R-SUB type toolholder is recommended when rigidity is considered for small workpiece diameter.

When the diameter of workpiece is small and the rigidity of workpiece is short, L-SUB type toolholder is recommended.

2 How to choose flat head / angle head



In the case of no back axis, using a flat head cutter without angle, the workpiece will leave a tail pin.

In the case of no back axis, using angle head cutter, the workpiece without tail pin.

In the case of a back shaft, use a flat head cutter without angle, and the workpiece will not leave a tail pin. However, when considering the deformation of cutting resistance in small workpiece processing, please select the tool tip with angle.

3 How to choose the right width

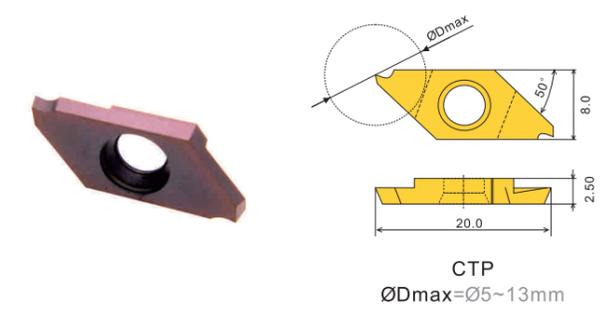
$$\text{Cutter Width} = \text{Workpiece Diameter} + 7$$

4 Countermeasures for abnormal tool damage

- It is recommended to set the processing program with constant linear speed. When the rotation speed is fixed, the closer the tool tip is to the center of the workpiece, the linear speed will be greatly reduced, which is easy to cause abnormal damage such as knife sticking and knife collapsing.
- Considering the impact during cutting and insufficient linear speed at the center of workpiece, it is recommended to reduce the feed before cutting (1-2mm) (to 50% of the original).
- Try to avoid intermittent processing.

5 Recommended cutting parameters for grooving / cutting of small parts

Application	Processed Material	f(mm/rev) Cutting Parameter											
		CTP/TKF12..						CTPA/TKF16..					
		0.5	0.7	1.0	1.25	1.5	2.0	0.7	1.0	1.5	2.0	2.5	3.0
P	Steel	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02
M	Stainless Steel	0.005	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
K	Iron	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02
N	Aluminum/Copper/Magnesium/Zinc/Plastic/Wood	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02
S	Carbide/Powder Metallurgy	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.005	0.005	0.005
H	Titanium/Superalloy/Carbon Fiber	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.005	0.005	0.005

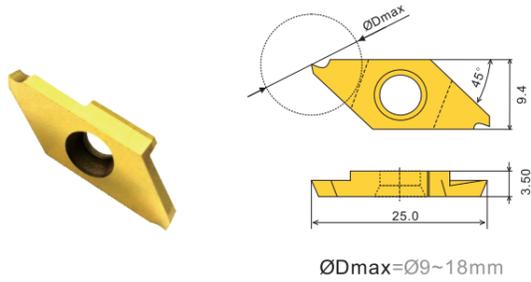


Material	Cutter Material	(Cutting Speed) : m/min ¹ (mm)							
		PCD	CBN-K	CBN-S	ZN60	ZK01	ZM826	ZP15	ZM856
P	High Carbon Steel				150-600		60-250	70-250	100-250
P	HRC46-58			10-30	150-350		60-150	70-150	80-150
M	Stainless Steel						20-60	20-60	20-60
K	Iron		300-1500		100-300		130-210	150-200	150-300
K	Cast Iron		400-800		100-200		100-160	100-150	150-230
N	Aluminum/Copper/Magnesium/Zinc/Plastic/Wood	300-1200				300-1200			
N	HB50-70	300-1500				300-1500			
N	HB70-110	300-800				300-800			
S	Carbide/Powder Metallurgy	10-30				10-30			
S	Wear Resistant Hard Alloy	400-600				400-600			
H	Titanium/Superalloy/Carbon Fiber	100-200				100-200	20-50	20-50	20-60

Application	Dimension and Shape	Specification	Dimension				Cutting Environment									
			W _{d.0.05}	B	r _e	θ	Stable Cutting	General Cutting	General Cutting(Second recommend)	Unstable Cutting						
Cut-off	With Groove	CTP 05FR	0.5	2.8	0.03	15°	●	●	●	●	●	●	●	●	●	●
		CTP 07FR	0.7	4.5	0.05	16°	●	●	●	●	●	●	●	●	●	●
		CTP 10FR	1.0	6.7	0.05	16°	●	●	●	●	●	●	●	●	●	●
		CTP 15FR	1.5	6.7	0.05	16°	●	●	●	●	●	●	●	●	●	●
Cut-off/Grooving	Without Groove	CTP 10FRV	1.0	6.7	0.05	20°	●	●	●	●	●	●	●	●	●	●
		CTP 15FRV	1.5	6.7	0.05	20°	●	●	●	●	●	●	●	●	●	●
		CTP 20FRV	2.0	6.7	0.05	20°	●	●	●	●	●	●	●	●	●	●
		CTP 15FRNV	1.5	6.7	0.05	0°	●	●	●	●	●	●	●	●	●	●
Cut-off	With Groove	CTP 10FRK	1.0	6.7	0.05	16°	●	●	●	●	●	●	●	●	●	●
		CTP 15FRK	1.5	6.7	0.05	16°	●	●	●	●	●	●	●	●	●	●
		CTP 20FRK	2.0	6.7	0.05	16°	●	●	●	●	●	●	●	●	●	●
		CTP 07FL	0.7	4.5	0.05	16°	●	●	●	●	●	●	●	●	●	●
Cut-off/Grooving	Without Groove	CTP 10FLV	1.0	6.7	0.05	20°	●	●	●	●	●	●	●	●	●	●
		CTP 15FLV	1.5	6.7	0.05	20°	●	●	●	●	●	●	●	●	●	●
		CTP 20FLV	2.0	6.7	0.05	20°	●	●	●	●	●	●	●	●	●	●
		CTP 15FLNV	1.5	6.7	0.05	0°	●	●	●	●	●	●	●	●	●	●
Cut-off	With Groove	CTP 05FLK	0.5	2.8	0.03	17°	●	●	●	●	●	●	●	●	●	●
		CTP 10FLK	1.0	6.7	0.05	16°	●	●	●	●	●	●	●	●	●	●
		CTP 15FLK	1.5	6.7	0.05	16°	●	●	●	●	●	●	●	●	●	●
		CTP 20FLK	2.0	6.7	0.05	16°	●	●	●	●	●	●	●	●	●	●

☆θ Installation Angle For The Toolholder

CTPA



(Cutting Speed) m/min¹ (mm)

Material	PCD	CBN-K	CBN-S	ZN60	ZK01	ZM826	ZP15	ZM856
P HRC46-58			10-30	150-600		60-250	70-250	100-250
M				150-350		80-150	70-150	80-150
K		300-1500		200-300		20-60	20-60	20-60
N	300-1200			100-300		130-210	150-200	150-300
S	300-1500			300-800		100-160	100-150	150-230
H	300-800			300-1000				
	10-30			10-30				
	400-600			400-600				
	100-200			100-200		20-50	20-50	20-60

Cutting Environment ● Stable Cutting ● General Cutting ☺ General Cutting(Second recommend) ✖ Unstable Cutting

Application	Material	Stable Cutting	General Cutting	General Cutting(Second recommend)	Unstable Cutting
P	Steel	●	●	☺	✖
M	Stainless Steel	●	●	☺	✖
K	Iron	●	●	☺	✖
N	Aluminum/Copper/Magnesium/Zinc/Plastic/Wood	●	●	☺	✖
S	Carbide/Powder Metallurgy	●	●	☺	✖
H	Titanium/Superalloy/Carbon Fiber	●	●	☺	✖

Cutting Environment ● Stable Cutting ● General Cutting ☺ General Cutting(Second recommend) ✖ Unstable Cutting

Application	Material	Stable Cutting	General Cutting	General Cutting(Second recommend)	Unstable Cutting
P	Steel	●	●	☺	✖
M	Stainless Steel	●	●	☺	✖
K	Iron	●	●	☺	✖
N	Aluminum/Copper/Magnesium/Zinc/Plastic/Wood	●	●	☺	✖
S	Carbide/Powder Metallurgy	●	●	☺	✖
H	Titanium/Superalloy/Carbon Fiber	●	●	☺	✖

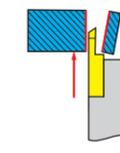
Application	Dimension and Shape	Specification	Dimension			PCD	CBN-K	CBN-S	ZN60	ZK01	ZM826	ZP15	ZM856
			W _{±0.05}	B	re								
Cut-off	With Groove	CTPA 07FR	0.7	4.5	0.05	16°	●	●	●	●	●	●	●
		10FR	1.0	6.7			●	●	●	●	●		
		15FR	1.5	9.2			●	●	●	●	●		
		20FR	2.0	9.2			●	●	●	●	●		
		25FR	2.5	9.2			●	●	●	●	●		
Cut-off/Groove	With Groove	CTPA 07FRN	0.7	4.5	0.05	0°	●	●	●	●	●	●	●
		10FRN	1.0	6.7			●	●	●	●	●		
		15FRN	1.5	9.2			●	●	●	●	●		
		20FRN	2.0	9.2			●	●	●	●	●		
		25FRN	2.5	9.2			●	●	●	●	●		
Cut-off	With Groove	CTPA 07FRK	0.7	4.5	0.05	16°	●	●	●	●	●	●	●
		10FRK	1.0	6.7			●	●	●	●	●		
		15FRK	1.5	9.2			●	●	●	●	●		
		20FRK	2.0	9.2			●	●	●	●	●		
		25FRK	2.5	9.2			●	●	●	●	●		
Cut-off	With Groove	CTPA 07FL	0.7	4.5	0.05	16°	●	●	●	●	●	●	●
		10FL	1.0	6.7			●	●	●	●	●		
		15FL	1.5	9.2			●	●	●	●	●		
		20FL	2.0	9.2			●	●	●	●	●		
		25FL	2.5	9.2			●	●	●	●	●		
Cut-off/Groove	With Groove	CTPA 07FLN	0.7	4.5	0.05	0°	●	●	●	●	●	●	●
		10FLN	1.0	6.7			●	●	●	●	●		
		15FLN	1.5	9.2			●	●	●	●	●		
		20FLN	2.0	9.2			●	●	●	●	●		
		25FLN	2.5	9.2			●	●	●	●	●		
Cut-off	With Groove	CTPA 07FLK	0.7	4.5	0.05	16°	●	●	●	●	●	●	●
		10FLK	1.0	6.7			●	●	●	●	●		
		15FLK	1.5	9.2			●	●	●	●	●		
		20FLK	2.0	9.2			●	●	●	●	●		
		25FLK	2.5	9.2			●	●	●	●	●		

Application	Dimension and Shape	Specification	Dimension			PCD	CBN-K	CBN-S	ZN60	ZK01	ZM826	ZP15	ZM856
			W _{±0.05}	B	re								
Cut-off	Without Groove	CTPA 10FRV	1.0	6.7	0.0	20°	●	●	●	●	●	●	●
		15FRV	1.5	9.5			●	●	●	●	●		
		20FRV	2.0	9.5			●	●	●	●	●		
		25FRV	2.5	9.5			●	●	●	●	●		
Cut-off/Groove	Without Groove	CTPA 15FRNV	1.5	9.5	0.0	0°	●	●	●	●	●	●	●
		20FRNV	2.0	9.5			●	●	●	●	●		
		25FRNV	2.5	9.5			●	●	●	●	●		
		30FRNV	3.0	9.5			●	●	●	●	●		
Cut-off	Without Groove	CTPA 10FLV	1.0	6.7	0.0	20°	●	●	●	●	●	●	●
		15FLV	1.5	9.5			●	●	●	●	●		
		20FLV	2.0	9.5			●	●	●	●	●		
		25FLV	2.5	9.5			●	●	●	●	●		
Cut-off/Groove	Without Groove	CTPA 15FLNV	1.5	9.5	0.0	0°	●	●	●	●	●	●	●
		20FLNV	2.0	9.5			●	●	●	●	●		
		25FLNV	2.5	9.5			●	●	●	●	●		
		30FLNV	3.0	9.5			●	●	●	●	●		
Cut-off	Without Groove	CTPA 15FLKV	1.5	9.5	0.0	20°	●	●	●	●	●	●	●
		20FLKV	2.0	9.5			●	●	●	●	●		
		25FLKV	2.5	9.5			●	●	●	●	●		
		30FLKV	3.0	9.5			●	●	●	●	●		

☆ Installation Angle For The Toolholder

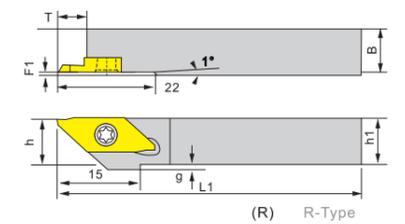
CTP/CTPA

CTP/CTPA Type



Grooving / Cut-Off/Back Turning

(Inserts): AB18-AB19,A30-A31 (Toolholder Parts): P01-P04



(R) R-Type

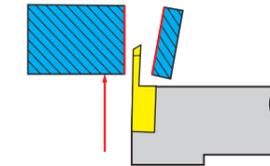
Ordering code	Dimensions						Insert	Wrench	Screw	Stock		Order Number
	h	B	L1	h1	g	T				R	L	
CTPR/L 08	8	10	120	8	4	5.5	CTP CTP-X CTPX	T15	M4.0×8	●	●	206300
10	10	10	120	10	2	5.5				●	●	206302
12GX	12	12	85	12	0	5.5				●	●	206304
12	12	12	120	12	0	5.5				●	●	206306
13	13	13	120	13	0	5.5				●	●	206308
16H	16	16	100	16	0	5.5				●	●	206310
16	16	16	120	16	0	5.5				●	●	206312

CTPA 15mm

Ordering code	Dimensions						Insert	Wrench	Screw	Stock		Order Number
	h	B	L1	h1	g	T				R	L	
CTPAR/L 10	10	10	120	10	2	7.5	CTPA CTPAX TBPA TTPA	T15	M4.0×8	●	●	206316
12	12	12	120	12	0	7.5				●	●	206318
16	16	16	120	16	0	7.5				●	●	206320
20F	20	20	80	20	0	7.5				●	●	206322

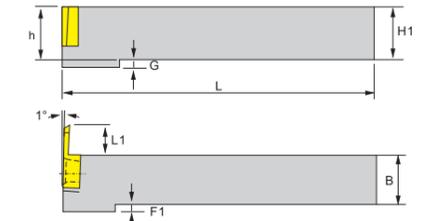
CTPSL

CTPSL Type



Back Turning

(Inserts) AB18-AB19,A30-A31 (Toolholder Parts) P01-P04



(L) L-Type

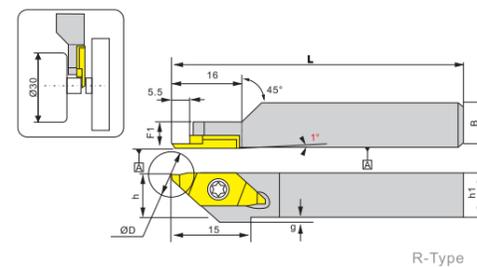
Ordering Code	Dimensions						Insert	Wrench	Screw	Stock		Order Number
	H1=h	B	L	L1	G	F1				R	L	
CTPSR/L 10	10	10	120	6.0	2	6	CTP CTP-X CTPX	T15	M4.0×8	○	●	206121
12	12	12	120	6.0	0	4				○	●	206123
16	16	16	120	6.0	0	2				○	●	206125
20	20	20	120	6.0	0	0				○	●	206127
CTPASR/L 10	10	10	120	8.0	2	8	CTPA CTPAX TBPA TTPA	T15	M4.0×8	○	●	206129
12	12	12	120	8.0	0	6				○	●	206131
16	16	16	120	8.0	0	4				○	●	206133
20	20	20	120	8.0	0	2				○	●	206135

CTPR-SUB

CTPR-SUB Type

Back Shaft Turning

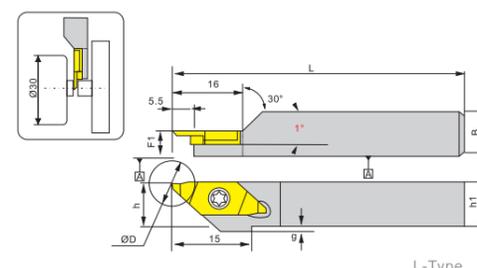
(Inserts) AB18-AB19,A30-A31 (Toolholder Parts) P01-P04



R-Type

CTPL-SUB

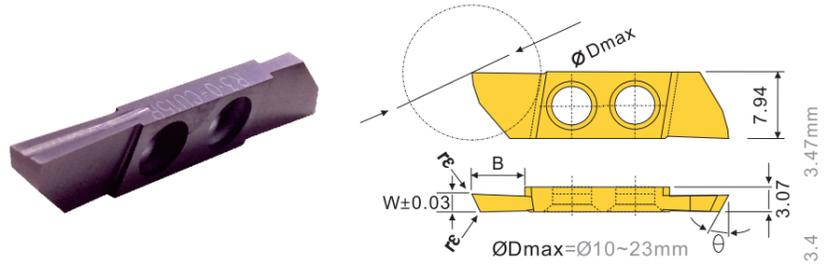
CTPL-SUB Type



L-Type

Tool holder model	(mm)							Insert	Wrench	Screw	Stock		Order Number
	ØD	h	b	L	h1	f	g				R	L	
CTPR 08-SUB	●	12	8	8	120	10	4	CTP-FR(N)(V)(N)(V) CTP-FR(F)(R)(N)(N) CTPX-FR(N)	M4X5	T15	●	●	206200
08J-SUB	●	12	8	8	110	10	4				●	●	206202
10F-SUB	●	12	10	10	80	10	5.5				●	●	206204
10KX-SUB	●	12	10	10	120	10	2				●	●	206206
12GX-SUB	●	12	12	12	85	12	0				●	●	206208
12-SUB	●	12	12	12	120	12	0				●	●	206210
CTPL 08-SUB	●	12	8	8	120	8	4				CTP-FLK CTP-FLKV CTP-FLN CTPX-FLN CTP-FLNK	M4X5	T15
08J-SUB	●	12	8	8	110	8	5.5	●	●	206214			
10GX-SUB	●	12	10	10	85	10	2	●	●	206216			
12GX-SUB	●	12	12	12	85	12	0	●	●	206218			
CTPAR10GX-SUB	●	16	10	10	85	10	2	CTPA-FR(N)(V)(N)(V) CTPAX-FR(N)	M4X5	T15	●	●	206220
12GX-SUB	●	16	12	12	85	12	0.0				●	●	206222
12KX-SUB	●	16	12	12	120	12	0				●	●	206224
CTPAL10GX-SUB	●	16	10	10	85	10	2						

CTPW

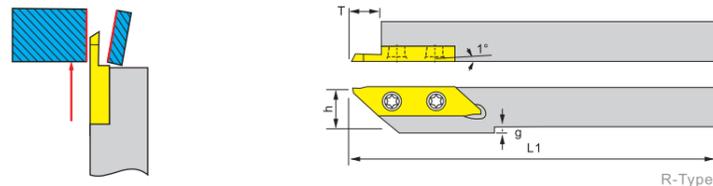


Application	Dimension and Shape	Specification	Dimension				θ	PCD	CBN-K	CBN-S	ZN60	ZM826	ZP15	ZP150	ZP680	ZM856	ZM860
			W _{±0.03}	B	r _R	θ											
Cut-off	With Groove	CTPW10FR	1.0	5.0	0.06	15°											
		15FR	1.5	8.5	0.06												
		20FR	2.0	11.5	0.1												
		25FR	2.5	11.5	0.1												
		30FR	3.0	11.5	0.2												
Cut-off/Grooving	With Groove	CTPW10FRN	1.0	5.0	0.06	0°											
		15FRN	1.5	8.5	0.06												
		20FRN	2.0	11.5	0.1												
		25FRN	2.5	11.5	0.1												
		30FRN	3.0	11.5	0.2												
Cut-off	With Groove	CTPW10FL	1.0	5.0	0.06	15°											
		15FL	1.5	8.5	0.06												
		20FL	2.0	11.5	0.1												
		25FL	2.5	11.5	0.1												
		30FL	3.0	11.5	0.2												
Cut-off/Grooving	With Groove	CTPW10FLN	1.0	5.0	0.06	0°											
		15FLN	1.5	8.5	0.06												
		20FLN	2.0	11.5	0.1												
		25FLN	2.5	11.5	0.1												
		30FLN	3.0	11.5	0.2												
End Face Grooving	Without Groove	CTPW20FLN-D	2.0	9.0	0.06	0°											
		25FLN-D	2.5	11.5	0.10												
		30FLN-D	3.0	11.5	0.15												
		34FLN-D	3.4	11.5	0.15												

θ Installation Angle For The Toolholder

CTPW

CTPW Type



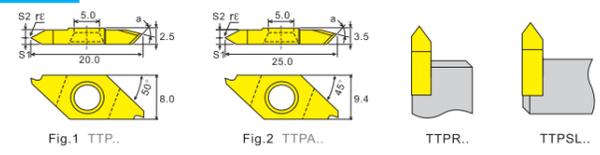
(Inserts) AB21,A32 (Toolholder Parts) P01-P04

Ordering code	Dimensions						Insert	Wrench	Screw	Stock		Order Number	
	h	B	L1	h1	g	T				R	L		
CTPWR/L	10	10	12	120	9.95	2	11.5	CTPW..	T15	M4.0×8	●	●	206326
	12	12	12	120	11.95	0	11.5				●	●	206328
	16	16	16	120	15.95	0	11.5				●	●	206330
	20	20	20	125	19.95	0	11.5				●	●	206332
	25	25	25	150	24.95	0	11.5				●	●	206334

TTP

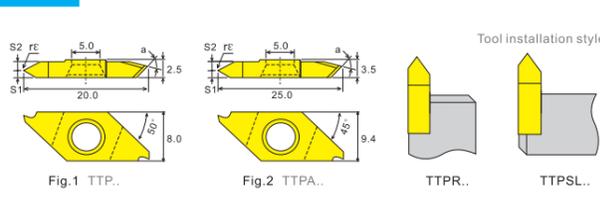
Thread Application: Pipe thread for industrial machinery

ISO-60°



Application	Specification	Pitch of Screw		Dimension (mm)				PCD	CBN-K	CBN-S	ZN60	ZM826	ZP15	ZP150	ZP680	ZM856	ZM860	
		(mm)	(tpi)	r _R	S1	S2	a											Fig
Thread processing	TTP60	FR4A	0.2-0.6	64-48	<0.05	0.4	2.1	60°	1									
		FR4B	0.2-0.6	64-48	<0.05	2.1	0.4											
		FR8A	0.5-1.25	48-24	0.05	0.8	1.7											0.8
		FR8B	0.5-1.25	48-24	0.05	1.7	0.8											0.8
		FRN	1.0-1.50	24-18	0.1	1.25	1.25											1.25
	TTPA60	FR4A	0.2-0.6	64-48	<0.05	0.4	2.1	60°	2									
		FR4B	0.2-0.6	64-48	<0.05	2.1	0.4											
		FR8A	0.5-1.25	48-24	0.05	0.8	1.7											0.8
		FR8B	0.5-1.25	48-24	0.05	1.7	0.8											0.8
		FRN	1.0-1.50	24-18	0.1	1.25	1.25											1.25

W-55°



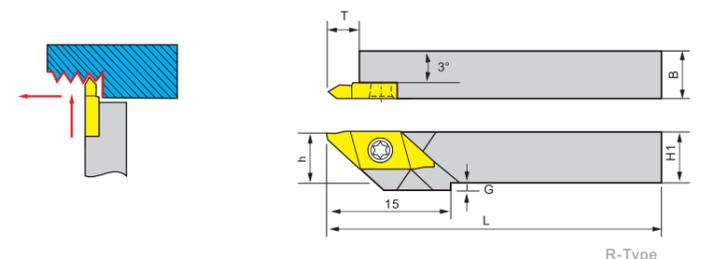
Application	Specification	Pitch of Screw		Dimension (mm)				PCD	CBN-K	CBN-S	ZN60	ZM826	ZP15	ZP150	ZP680	ZM856	ZM860
		(mm)	(tpi)	r _R	S1	S2	a										
Thread processing	TTP55	FR8A	-	48-16	0.05	0.8	1.7	55°	1								
		FR8B	-	48-16	0.05	1.7	0.8										
	TTPA55	FR8A	-	48-16	0.05	0.8	1.7	55°	2								
		FR8B	-	48-16	0.05	1.7	0.8										

TTP

TTP Type

Thread Turning

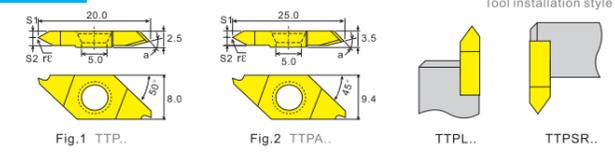
(Inserts) A51-A54 (Toolholder Parts) P01-P04



Ordering code	Dimensions						Insert	Wrench	Screw	Stock		Order Number	
	h	B	L1	H1	G	T				R	L		
TTPR/L	08	8	8	120	8	4	7.0	TTP..	T15	M4.0×10	●	●	205700
	10	10	10	120	10	2	7.0				●	●	205702
	12GX	12	12	85	12	0	7.0				●	●	205704
	12	12	12	120	12	0	7.0				●	●	205706
	16H	16	16	100	16	0	7.0				●	●	205708
	16	16	16	120	16	0	7.0				●	●	205710
	20F	20	20	80	20	0	7.0				●	●	205712

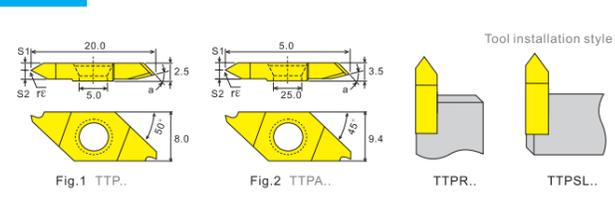
Material	Cutting Environment	Material														
		PCD	CBN-K	CBN-S	ZN60	ZM826	ZP15	ZP150	ZP680	ZM856	ZM860					
P	Steel	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
M	Stainless Steel	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
K	Iron	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
N	Aluminum/Copper/Magnesium/Zinc/Plastic/Wood	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S	Carbide/Powder Metallurgy	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
H	Titanium/Superalloy/Carbon Fiber	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

ISO-60°



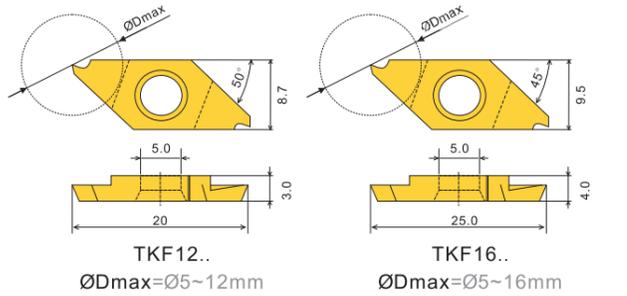
Application	Specification	Pitch of Screw		Dimension (mm)				PCD	CBN-K	CBN-S	ZN60	ZM826	ZP15	ZP150	ZP680	ZM856	ZM860	
		(mm)	(tpi)	r _R	S1	S2	a											Fig
Thread processing	TTP60	FL4A	0.2-0.6	64-48	<0.05	2.1	0.4	60°	1									
		FL4B	0.2-0.6	64-48	<0.05	0.4	2.1											
		FL8A	0.5-1.25	48-24	0.05	1.7	0.8											0.8
		FL8B	0.5-1.25	48-24	0.05	0.8	1.7											0.8
		FLN	1.0-1.50	24-18	0.1	1.25	1.25											1.25
	TTPA60	FL4A	0.2-0.6	64-48	<0.05	2.1	0.4	60°	2									
		FL4B	0.2-0.6	64-48	<0.05	0.4	2.1											
		FL8A	0.5-1.25	48-24	0.05	1.7	0.8											0.8
		FL8B	0.5-1.25	48-24	0.05	0.8	1.7											0.8
		FLN	1.0-1.50	24-18	0.1	1.25	1.25											1.25

W-55°



Application	Specification	Pitch of Screw		Dimension (mm)				PCD	CBN-K	CBN-S	ZN60	ZM826	ZP15	ZP150	ZP680	ZM856	ZM860
		(mm)	(tpi)	r _R	S1	S2	a										
Thread processing	TTP55	FL8A	-	48-16	0.05	1.7	0.8	55°	1								
		FL8B	-	48-16	0.05	0.8	1.7										
	TTPA55	FL8A	-	48-16	0.05	1.7	0.8	55°	2								
		FL8B	-	48-16	0.05	0.8	1.7										

TKF



Application	Material	Dimension and Shape	Specification	Dimension				PCD	CBN-K	CBN-S	ZM826	ZM856	ZM860
				W	B	rE	a						
Cut-off	Steel	With Groove	TKF12R 050-S16R	0.5	2.8	0.03	16°	•	•	•	•	•	•
			TKF16R 100-S16R	1.0	6.5								
Cut-off/Grooving	Stainless Steel	Without Groove	TKF12R 050-S	0.5	2.8	0.03	0°	•	•	•	•	•	•
			TKF16R 100-S	1.0	6.5								
Cut-off	Iron	With Groove	TKF12L 050-S16R	0.5	2.8	0.03	16°	•	•	•	•	•	•
			TKF16L 100-S16R	1.0	6.5								
Cut-off/Grooving	Aluminum/Copper/Magnesium/Zinc/Plastic/Wood	Without Groove	TKF12L 050-S	0.5	2.8	0.03	0°	•	•	•	•	•	•
			TKF16L 100-S	1.0	6.5								
Cut-off	Carbide/Powder Metallurgy	With Groove	TKF12R 050-S16R	0.5	2.8	0.03	16°	•	•	•	•	•	•
			TKF16R 100-S16R	1.0	6.5								
Cut-off/Grooving	Titanium/Superalloy/Carbon Fiber	Without Groove	TKF12R 050-S	0.5	2.8	0.03	0°	•	•	•	•	•	•
			TKF16R 100-S	1.0	6.5								

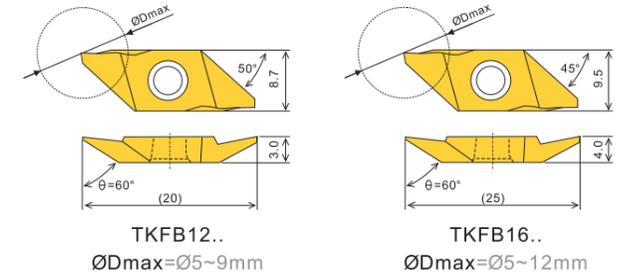
(Cutting Speed) : m/min^* (mm)

Material	PCD	CBN-K	CBN-S	ZM826	ZM856	ZM860
P	Steel			150-600	60-250	70-250
M	Stainless Steel			150-350	60-150	70-150
K	Iron		10-30	20-60	20-60	20-60
N	Aluminum/Copper/Magnesium/Zinc/Plastic/Wood			200-300	50-150	50-150
S	Carbide/Powder Metallurgy	300-1200		100-300	130-210	150-200
H	Titanium/Superalloy/Carbon Fiber	400-800		100-200	100-160	100-150

Application	Material	Dimension and Shape	Specification	Dimension				PCD	CBN-K	CBN-S	ZM826	ZM856	ZM860
				W	B	rE	a						
Cut-off	Steel	With Groove	TKF12R 050-S16R	0.5	2.8	0.03	20°	•	•	•	•	•	•
			TKF16R 100-S16R	1.0	6.5								
Cut-off/Grooving	Stainless Steel	Without Groove	TKF12R 050-S	0.5	2.8	0.03	0°	•	•	•	•	•	•
			TKF16R 100-S	1.0	6.5								
Cut-off	Iron	With Groove	TKF12L 050-S16R	0.5	2.8	0.03	20°	•	•	•	•	•	•
			TKF16L 100-S16R	1.0	6.5								
Cut-off/Grooving	Aluminum/Copper/Magnesium/Zinc/Plastic/Wood	Without Groove	TKF12L 050-S	0.5	2.8	0.03	0°	•	•	•	•	•	•
			TKF16L 100-S	1.0	6.5								
Cut-off	Carbide/Powder Metallurgy	With Groove	TKF12R 050-S16R	0.5	2.8	0.03	20°	•	•	•	•	•	•
			TKF16R 100-S16R	1.0	6.5								
Cut-off/Grooving	Titanium/Superalloy/Carbon Fiber	Without Groove	TKF12R 050-S	0.5	2.8	0.03	0°	•	•	•	•	•	•
			TKF16R 100-S	1.0	6.5								

☆ θ Installation Angle For The Toolholder

TKFB



Cutting Environment ● Stable Cutting ● General Cutting ☺ General Cutting(Second recommend) ✖ Unstable Cutting

Application	Material	Dimension and Shape	Specification	W	B	rE	a	PCD	CBN-K	CBN-S	ZM826	ZM856	ZM860
External processing	Steel	With Groove	TKFB12R 15005M	1.5	2.6	0.05	0.25	•	•	•	•	•	•
			TKFB16R 38005M	3.8	0.3	0.05	0.3						
External processing	Stainless Steel	Without Groove	TKFB12R 28005M	2.8	4.6	0.05	0.3	•	•	•	•	•	•
			TKFB16R 38005M	3.8	0.3	0.05	0.3						

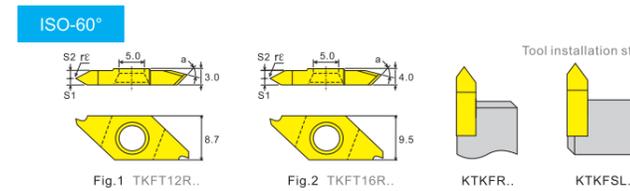
Cutting Environment ● Stable Cutting ● General Cutting ☺ General Cutting(Second recommend) ✖ Unstable Cutting

Application	Material	Dimension and Shape	Specification	W	B	rE	a	PCD	CBN-K	CBN-S	ZM826	ZM856	ZM860
External processing	Steel	With Groove	TKFB12L 15005M	1.5	2.6	0.05	0.25	•	•	•	•	•	•
			TKFB16L 38005M	3.8	0.3	0.05	0.3						
External processing	Stainless Steel	Without Groove	TKFB12L 28005M	2.8	4.6	0.05	0.3	•	•	•	•	•	•
			TKFB16L 38005M	3.8	0.3	0.05	0.3						

☆ θ Installation Angle For The Toolholder

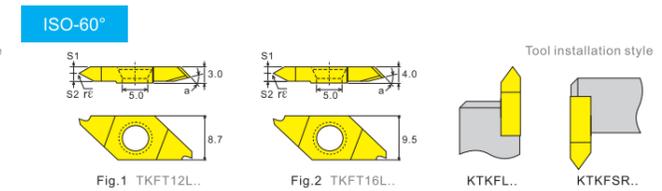
TKFT

Thread Application: General Industry



Application

Specification	Pitch of Screw		Dimension (mm)				Fig	PCD	CBN-K	CBN-S	ZM826	ZM856	ZM860	
	(mm)	(tpi)	rE	S1	S2	a								
TKFT12R	A6000	0.2-0.6	64-48	<0.05	0.4	2.1	1	•	•	•	•	•	•	
	B6000	0.2-0.6	64-48	<0.05	2.1	0.4								
	A60005	0.5-1.25	48-24	0.05	0.8	1.7								0.8
	B60005	0.5-1.25	48-24	0.05	1.7	0.8								1.7
	N6001	1.0-1.50	24-18	0.1	1.25	1.25								1.25
TKFT16R	A6000	0.2-0.6	64-48	<0.05	0.4	2.1	2	•	•	•	•	•	•	
	B6000	0.2-0.6	64-48	<0.05	2.1	0.4								
	A60005	0.5-1.25	48-24	0.05	0.8	1.7								0.8
	B60005	0.5-1.25	48-24	0.05	1.7	0.8								1.7
	N6001	1.0-1.50	24-18	0.1	1.25	1.25								1.25



Application

Specification	Pitch of Screw		Dimension (mm)				Fig	PCD	CBN-K	CBN-S	ZM826	ZM856	ZM860	
	(mm)	(tpi)	rE	S1	S2	a								
TKFT12L	A6000	0.2-0.6	64-48	<0.05	0.4	2.1	1	•	•	•	•	•	•	
	B6000	0.2-0.6	64-48	<0.05	2.1	0.4								
	A60005	0.5-1.25	48-24	0.05	0.8	1.7								0.8
	B60005	0.5-1.25	48-24	0.05	1.7	0.8								1.7
	N6001	1.0-1.50	24-18	0.1	1.25	1.25								1.25
TKFT16L	A6000	0.2-0.6	64-48	<0.05	0.4	2.1	2	•	•	•	•	•	•	
	B6000	0.2-0.6	64-48	<0.05	2.1	0.4								
	A60005	0.5-1.25	48-24	0.05	0.8	1.7								0.8
	B60005	0.5-1.25	48-24	0.05	1.7	0.8								1.7
	N6001	1.0-1.50	24-18	0.1	1.25	1.25								1.25

Application

Specification	Pitch of Screw		Dimension (mm)				Fig	PCD	CBN-K	CBN-S	ZM826	ZM856	ZM860
	(mm)	(tpi)	rE	S1	S2	a							
TKFT12R	A55005	-	40-16	0.05	0.8	1.7	1	•	•	•	•	•	•
	B55005	-	40-16	0.05	1.7	0.8							
TKFT16R	A55005	-	40-16	0.05	0.8	1.7	2	•	•	•	•	•	•
	B55005	-	40-16	0.05	1.7	0.8							

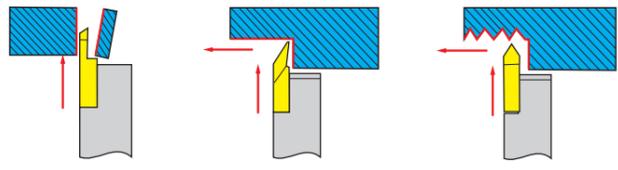
Application

Specification	Pitch of Screw		Dimension (mm)				Fig	PCD	CBN-K	CBN-S	ZM826	ZM856	ZM860
	(mm)	(tpi)	rE	S1	S2	a							
TKFT12L	A55005	-	40-16	0.05	1.7	0.8	1	•	•	•	•	•	•
	B55005	-	40-16	0.05	0.8	1.7							
TKFT16L	A55005	-	40-16	0.05	1.7	0.8	2	•	•	•	•	•	•
	B55005	-	40-16	0.05	0.8	1.7							

KTKFR

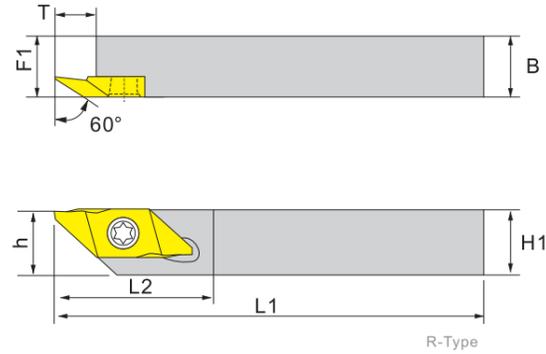
KTKFR Type

Grooving/Cut-off/Back Turning/Threading



Grooving/Cut-off (Inserts) AB23,A33
 Back Turning (Inserts) AB24,A44
 Threading (Inserts) AB24,A51-A54

(Toolholder Parts) P01-P04

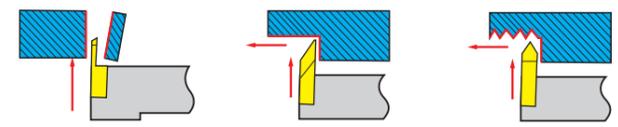


Ordering code	Dimensions						Insert	Wrench	Screw	Stock		Order Number
	H1=h	B	L1	L2	T	F1				R	L	
KTKFR/L 0808K-12	8	8	125	15	6	8	TKF..12R.. TKFB..12R.. TKFT..12R..	T20	M4.5x8	●	●	206100
1010K-12	10	10	125	15	6	10				●	●	206102
1212F-12	12	12	85	-	6	12				●	●	206104
1212M-12	12	12	150	-	6	12				●	●	206106
1616M-12	16	16	150	-	6	16	●	●	206108			
KTKFR/L 0808K-16	8	8	125	15	8	8	TKF..12R.. TKFB..12R.. TKFT..12R..	T20	M4.5x8	●	●	206110
1010K-16	10	10	125	20	8	10				●	●	206112
1212F-16	12	12	85	-	8	12				●	●	206114
1212M-16	12	12	150	-	8	12				●	●	206116
1616M-16	16	16	150	-	8	16				●	●	206118

KTKFSL

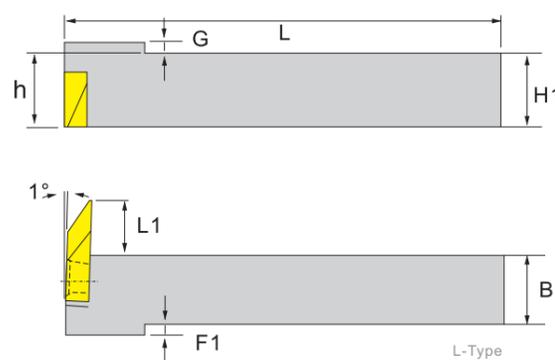
KTKFSL Type

Grooving/Cut-off/Back Turning/Threading



Grooving/Cut-off (Inserts) AB23,A33
 Back Turning (Inserts) AB24,A44
 Threading (Inserts) AB24,A51-A54

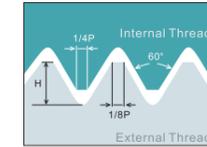
(Toolholder Parts) P01-P04



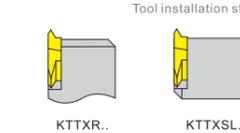
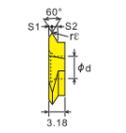
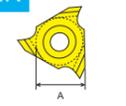
Ordering Code	Dimensions						Insert	Wrench	Screw	Stock		Order Number
	H1=h	B	L	L1	G	F1				R	L	
KTKFSR/L 1010JX12	10	10	120	6.0	2	6	切断 TKF..12R.. 后扫 TKFB..12R.. 螺纹 TKFT..12R..	T20	M4.5x8	●	●	206121
1212JX12	12	12	120	6.0	0	4				●	●	206123
1616JX12	16	16	120	6.0	0	2				●	●	206125
2020JX12	20	20	120	6.0	0	0				●	●	206127
KTKFSR/L 1010JX16	10	10	120	8.0	2	8	切断 TKF..12R.. 后扫 TKFB..12R.. 螺纹 TKFT..12R..	T20	M4.5x8	●	●	206129
1212JX16	12	12	120	8.0	0	6				●	●	206131
1616JX16	16	16	120	8.0	0	4				●	●	206133
2020JX16	20	20	120	8.0	0	2				●	●	206135

TTX

Thread Application: General Industry



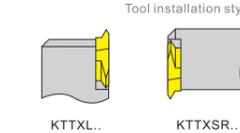
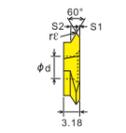
TTX32R



Application	Specification	Pitch of Screw		Dimension (mm)						Material									
		(mm)	(tpi)	re	S1	S2	A	phi_d	PCD	CBN-K	CBN-S	ZN60	ZN80	ZM826	ZP150	ZP680	ZM856	ZM860	
Thread processing	TTX32R 6000	0.5-1.0	56-32	0.00	0.6	1.12								●	●	●	●	●	●
	6000S	0.5-1.0	56-32	0.00	0.3	1.12								●	●	●	●	●	●
	60005	0.5-1.0	48-32	0.05	0.6	1.12								●	●	●	●	●	●
	60005S	0.5-1.0	48-32	0.05	0.3	1.12	9.525	4.4						●	●	●	●	●	●
	6001	1.0-2.0	28-14	0.1	1.1	1.62								●	●	●	●	●	●
	6002	1.5-2.5	16-10	0.2	1.1	1.62								●	●	●	●	●	●
6003	2.5	11-10	0.3	1.1	1.62								●	●	●	●	●	●	

Material	Cutting Environment	Material												
		PCD	CBN-K	CBN-S	ZN60	ZN80	ZM826	ZP150	ZP680	ZM856	ZM860	ZM860	ZM860	
P	Steel	●	●	●	●	●	●	●	●	●	●	●	●	●
M	Stainless Steel	●	●	●	●	●	●	●	●	●	●	●	●	●
K	Iron	●	●	●	●	●	●	●	●	●	●	●	●	●
N	Aluminum/Copper/Magnesium/Zinc/Plastic/Wood	●	●	●	●	●	●	●	●	●	●	●	●	●
S	Carbide/Powder Metallurgy	●	●	●	●	●	●	●	●	●	●	●	●	●
H	Titanium/Superalloy/Carbon Fiber	●	●	●	●	●	●	●	●	●	●	●	●	●

TTX32L



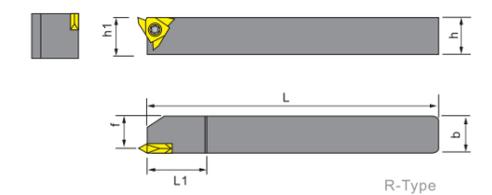
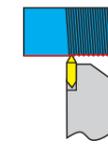
Application	Specification	Pitch of Screw		Dimension (mm)						Material								
		(mm)	(tpi)	re	S1	S2	A	phi_d	PCD	CBN-K	CBN-S	ZN60	ZN80	ZM826	ZP150	ZP680	ZM856	ZM860
Thread processing	TTX32L 6000	0.5-1.0	56-32	0.00	0.6	1.12								●	●	●	●	●
	6000S	0.5-1.0	56-32	0.00	0.3	1.12								●	●	●	●	●
	60005	0.5-1.0	48-32	0.05	0.6	1.12								●	●	●	●	●
	60005S	0.5-1.0	48-32	0.05	0.3	1.12	9.525	4.4						●	●	●	●	●
	6001	1.0-2.0	28-14	0.1	1.1	1.62								●	●	●	●	●
	6002	1.5-2.5	16-10	0.2	1.1	1.62								●	●	●	●	●
6003	2.5	11-10	0.3	1.1	1.62								●	●	●	●	●	

KTTXR

Steel



External Thread Turning

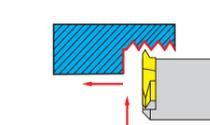


(Inserts) AB26,A51-A54
 (Toolholder Parts) P01-P04

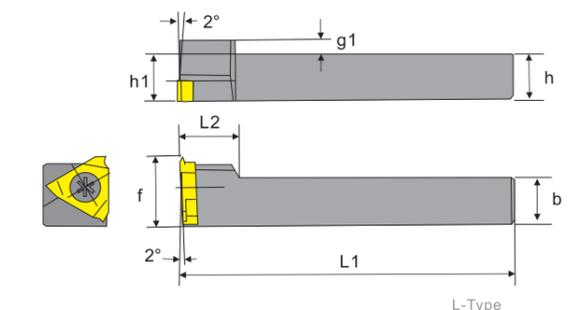
Ordering code	Dimensions						Insert	Screw	Wrench	Stock		Order Number	
	h	b	L	L1	h1	f				R	L		
KTTXR/L1010F32	10	10	90	20	10	12	TTX32..	M4x10	L2.5	T15	●	●	232500
KTTXR/L1212H32	12	12	100	20	12	16					●	●	232502
KTTXR/L1616H32	16	16	100	20	16	20					●	●	232504
KTTXR/L2020K32	20	20	125	22	20	25	TT43..	M5x12			●	●	232506
KTTXR/L2020K43	20	20	125	28	20	25					●	●	232508
KTTXR/L2525M43	25	25	150	30	25	32					●	●	232510
KTTXR/L3232P43	32	32	170	30	32	40					●	●	232512

KTTXSL

KTTXSL Type



(Inserts) AB26,A51-A54
 (Toolholder Parts) P01-P04



Ordering code	Dimensions						Insert	Wrench	Screw	Stock		Order Number
	g1	h=h1	b	L1	L2	f				R	L	
KTTXSR/L 1010H16	2	10	10	100	12	16	TTX32..	T15	M4.0x10	○	●	232513
1212H16	0	12	12	100	16	20				○	●	232514
1616H16	0	16	16	100	20	24				○	●	232515
2020K16	0	20	20	125	25	30				○	●	232516
2525M16	0	25	25	150	32	35				○	○	232517

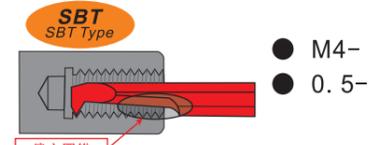
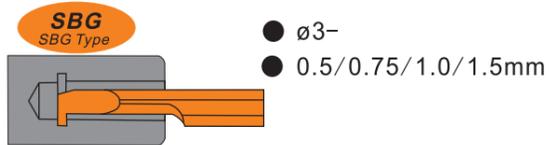
Boring Tools

- $\phi 2 \cdot 2-$
- SBFS SBFB
- R R0.05 R0.15

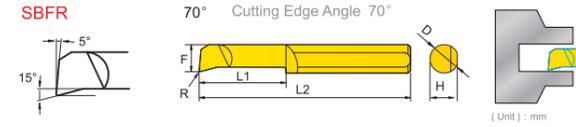
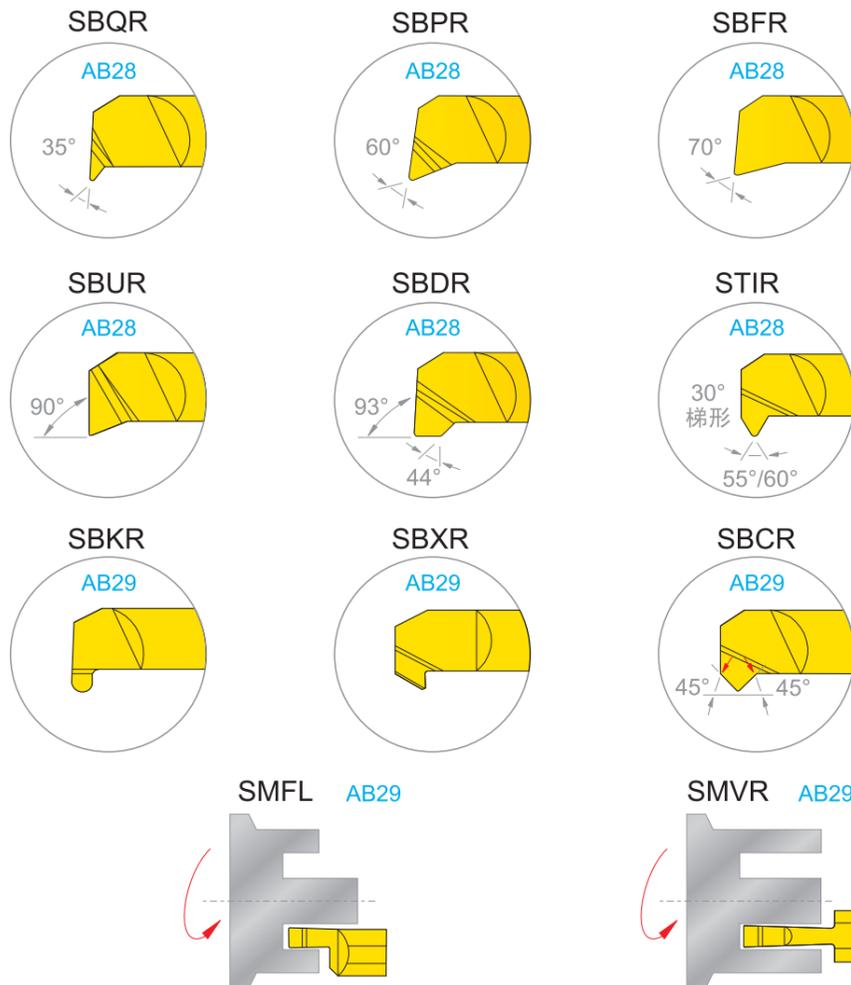


Groove Machining

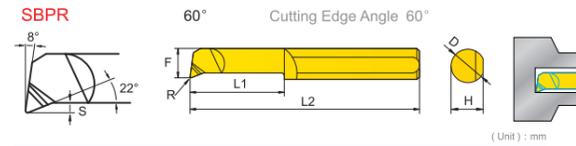
Thread Cutting



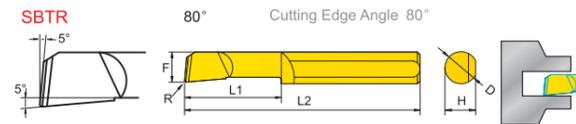
Alloy Small Boring Tool



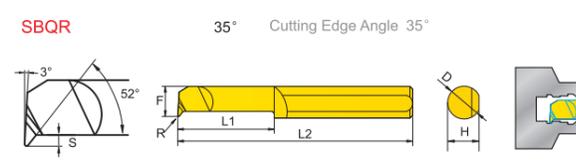
Model	F	L1	S	R	D	L2	H	Stock	Processing Diameter	Order No.
SBFR10030R005-D4	0.8	3.0	0.2	0.05	D4	40	3.7	○	1mm	207131
SBFR15050R010-D4	1.2	5.0	0.2	0.1	D4	40	3.7	○	1.5mm	207132
SBFR20070R010-D4	1.7	7.0	0.35	0.1	D4	40	3.7	○	2mm	207133
SBFR25070R010-D4	2.3	7.0	0.45	0.1	D4	40	3.7	○	2.5mm	207134
SBFR30100R010-D4	2.7	10.0	0.45	0.1	D4	50	3.7	○	3mm	207135
SBFR35150R015-D4	3.2	15.0	0.5	0.15	D4	50	3.7	○	3.5mm	207136
SBFR40150R015-D4	3.7	15.0	0.5	0.15	D4	50	3.7	○	4mm	207137
SBFR45150R015-D4	4.0	15.0	0.5	0.15	D4	50	3.7	○	4.5mm	207138
SBFR50200R020-D6	4.7	20.0	0.9	0.20	D6	50	5.7	○	5mm	207139
SBFR55200R020-D6	5.2	20.0	0.9	0.20	D6	50	5.7	○	5.5mm	207140
SBFR60200R020-D6	5.7	20.0	0.9	0.20	D6	50	5.7	○	6mm	207141
SBFR80400R020-D8	7.5	40.0	1.2	0.20	D8	60	7.7	○	8mm	207142



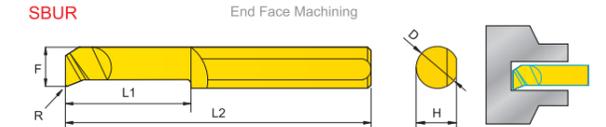
Model	F	L1	S	R	D	L2	H	Stock	Processing Diameter	Order No.
SBPR 10040R000-D4	0.85	4.0	0.15	0.00	D4	40	3.7	○	1mm	207145
10040R005-D4	0.85	4.0	0.15	0.05	D4	40	3.7	○	1mm	207146
20060R005-D4	1.8	6.0	0.30	0.05	D4	40	3.7	○	2mm	207147
20060R010-D4	1.8	6.0	0.30	0.10	D4	40	3.7	○	2mm	207148
30060R005-D4	2.7	6.0	0.30	0.05	D4	50	3.7	○	3mm	207149
30060R010-D4	2.7	6.0	0.30	0.10	D4	50	3.7	○	3mm	207150
30060R020-D4	2.7	6.0	0.30	0.20	D4	50	3.7	○	3mm	207151
30100R005-D4	2.7	10.0	0.30	0.05	D4	50	3.7	○	3mm	207152
30100R010-D4	2.7	10.0	0.30	0.10	D4	50	3.7	○	3mm	207153
30100R020-D4	2.7	10.0	0.30	0.20	D4	50	3.7	○	3mm	207154
40080R005-D4	3.7	8.0	0.40	0.05	D4	50	3.7	○	4mm	207155
40080R010-D4	3.7	8.0	0.40	0.10	D4	50	3.7	○	4mm	207157
40080R020-D4	3.7	8.0	0.40	0.20	D4	50	3.7	○	4mm	207158
40150R005-D4	3.7	15.0	0.40	0.05	D4	50	3.7	○	4mm	207159
40150R010-D4	3.7	15.0	0.40	0.10	D4	50	3.7	○	4mm	207160
40150R020-D4	3.7	15.0	0.40	0.20	D4	50	3.7	○	4mm	207161
50200R005-D5	4.7	20.0	0.50	0.05	D5	50	4.7	○	5mm	207162
50200R010-D5	4.7	20.0	0.50	0.10	D5	50	4.7	○	5mm	207163
50200R020-D5	4.7	20.0	0.50	0.20	D5	50	4.7	○	5mm	207164
60200R005-D6	5.7	20.0	0.50	0.05	D6	50	5.7	○	6mm	207165
60200R010-D6	5.7	20.0	0.50	0.10	D6	50	5.7	○	6mm	207166
60200R020-D6	5.7	20.0	0.50	0.20	D6	50	5.7	○	6mm	207167
SBPR 70250R015-D7	6.5	25.0	0.50	0.15	D7	50	6.7	○	7mm	207167
SBPR 80300R015-D8	7.5	30.0	0.50	0.15	D8	60	7.7	○	8mm	207168
80300R030-D8	7.5	30.0	0.50	0.30	D8	60	7.7	○	8mm	207169



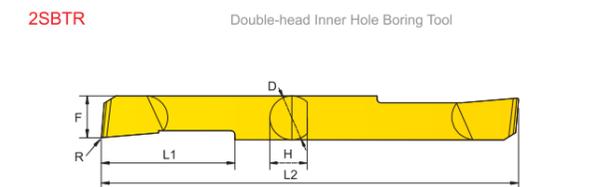
Model	F	L1	S	R	D	L2	H	Stock	Processing Diameter	Order No.
SBTR 10040R000-D4	0.85	4.0	0.15	0.00	D4	40	3.7	○	1mm	207170
10040R005-D4	0.85	4.0	0.15	0.05	D4	40	3.7	○	1mm	207171
20060R005-D4	1.8	6.0	0.30	0.05	D4	40	3.7	○	2mm	207172
20060R010-D4	1.8	6.0	0.30	0.10	D4	40	3.7	○	2mm	207173
30060R005-D4	2.7	6.0	0.30	0.05	D4	50	3.7	○	3mm	207174
30060R010-D4	2.7	6.0	0.30	0.10	D4	50	3.7	○	3mm	207175
30060R020-D4	2.7	6.0	0.30	0.20	D4	50	3.7	○	3mm	207176
30100R005-D4	2.7	10.0	0.30	0.05	D4	50	3.7	○	3mm	207177
30100R010-D4	2.7	10.0	0.30	0.10	D4	50	3.7	○	3mm	207178
30100R020-D4	2.7	10.0	0.30	0.20	D4	50	3.7	○	3mm	207179
40080R005-D4	3.7	8.0	0.40	0.05	D4	50	3.7	○	4mm	207180
40080R010-D4	3.7	8.0	0.40	0.10	D4	50	3.7	○	4mm	207181
40080R020-D4	3.7	8.0	0.40	0.20	D4	50	3.7	○	4mm	207182
40150R005-D4	3.7	15.0	0.40	0.05	D4	50	3.7	○	4mm	207183
40150R010-D4	3.7	15.0	0.40	0.10	D4	50	3.7	○	4mm	207184
40150R020-D4	3.7	15.0	0.40	0.20	D4	50	3.7	○	4mm	207185
50200R005-D5	4.7	20.0	0.50	0.05	D5	50	4.7	○	5mm	207186
50200R010-D5	4.7	20.0	0.50	0.10	D5	50	4.7	○	5mm	207187
50200R020-D5	4.7	20.0	0.50	0.20	D5	50	4.7	○	5mm	207188
60200R005-D6	5.7	20.0	0.50	0.05	D6	50	5.7	○	6mm	207189
60200R010-D6	5.7	20.0	0.50	0.10	D6	50	5.7	○	6mm	207190
60200R020-D6	5.7	20.0	0.50	0.20	D6	50	5.7	○	6mm	207191
SBTR 70250R020-D7	6.5	25.0	0.50	0.20	D7	50	6.7	○	7mm	207192
SBTR 80300R020-D8	7.5	30.0	0.50	0.20	D8	60	7.7	○	8mm	207193
80300R040-D8	7.5	30.0	0.50	0.40	D8	60	7.7	○	8mm	207194



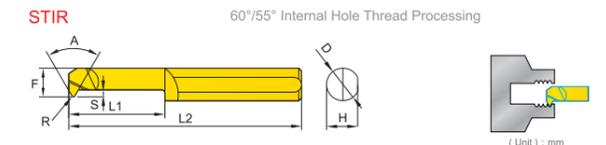
Model	F	L1	S	R	D	L2	H	Stock	Processing Diameter	Order No.
SBQR 30060R005-D4	2.9	6.0	0.6	0.05	D4	50	3.7	○	3mm	207320
30100R020-D4	2.9	10.0	0.6	0.20	D4	50	3.7	○	3mm	207321
SBQR 40100R010-D4	3.9	10.0	0.8	0.10	D4	50	3.7	○	4mm	207322
40100R020-D4	3.9	10.0	0.8	0.20	D4	50	3.7	○	4mm	207323
SBQR 50150R010-D5	4.9	15.0	1.0	0.10	D5	50	4.7	○	5mm	207324
50150R020-D5	4.9	15.0	1.0	0.20	D5	50	4.7	○	5mm	207325
SBQR 60150R010-D6	5.9	15.0	1.0	0.10	D6	50	5.7	○	6mm	207326
60150R020-D6	5.9	15.0	1.0	0.20	D6	50	5.7	○	6mm	207327
SBQR 70200R020-D7	6.5	20.0	1.5	0.20	D7	50	6.7	○	7mm	207328
SBQR 80250R010-D8	7.5	25.0	2.0	0.10	D8	60	7.7	○	8mm	207329
80250R020-D8	7.5	25.0	2.0	0.20	D8	60	7.7	○	8mm	207330



Model	F	L1	S	R	D	L2	H	F1	Stock	Processing Diameter	Order No.
SBUR30100R010-D4	2.7	10.0	0.4	0.1	D4	50	3.7	1.3	○	3mm	207332
SBUR40150R010-D4	3.7	15.0	0.5	0.1	D4	50	3.7	1.7	○	4mm	207333
SBUR50200R020-D5	4.7	20.0	0.7	0.2	D5	50	4.7	2.1	○	5mm	207334
SBUR60200R020-D6	5.7	20.0	1.0	0.2	D6	50	5.7	2.8	○	6mm	207335
SBUR70250R020-D7	6.7	25.0	1.0	0.2	D7	50	6.7	3.2	○	7mm	207336
SBUR80300R020-D8	7.7	30.0	1.0	0.2	D8	60	7.7	3.8	○	8mm	207337

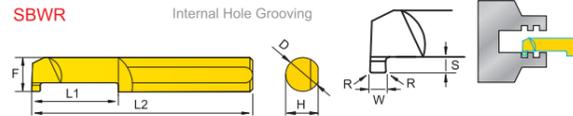


Model	F	L1	S	R	D	L2	H	Stock	Processing Diameter	Order No.
2SBTR02050R005-D3	1.8	5.0	0.15	0.05	D3	50	2.7	○	2mm	207191
2SBTR03150R010-D3	2.7	15.0	0.3	0.1	D3	50	3.7	○	3mm	207192
2SBTR04150R015-D4	3.7	15.0	0.4	0.15	D4	50	3.7	○	4mm	207193
2SBTR05250R010-D5	4.7	25.0	0.5	0.1	D5	70	4.7	○	5mm	207194
2SBTR05250R020-D5	4.7	25.0	0.5	0.2	D5	70	4.7	○	5mm	207195
2SBTR06250R010-D6	5.7	25.0	0.5	0.1	D6	70	5.7	○	6mm	207496
2SBTR06250R020-D6	5.7	25.0	0.5	0.2	D6	70	5.7	○	6mm	207497



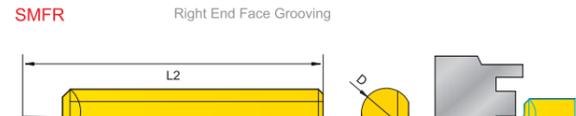
Model	F	L1	S	R	D	L2	American	Metric	Min	Max	Processing Diameter	A	Order No.
STIR 14050-60°	1.4	5.0	0.4	0.00	D4	50	UN-1UN-2	M2	0.25	0.45	1.5mm	60°	207421
16070-60°	1.8	7.0	0.6	0.00	D4	50	UN-3UN-4	M2.5	0.25	0.7	1.5mm	60°	207422
24070-60°	2.4	7.0	0.5	0.00	D4	50	UN-5UN-6	M3	0.35	0.6	2.5mm	60°	207423
30120-60°	3.0	12.0	0.85	0.03	D4	50	UN-8UN-10	M4	0.5	0.8	3.1mm	60°	207424
40150-60°	3.85	15.0	1.1	0.05	D4	50	UN-12UN-14	M5/M6	0.5	1.0	4.0mm	60°	207425
50150-60°	4.8	15.0	1.5	0.05	D5	50	UN-14UN-16	M6	0.75	1.5	5.0mm	60°	207426
60200-60°	5.6	20.0	1.8	0.08	D6	50	UN-14UN-16	M10	0.75	1.75	6.0mm	60°	207427
80220-60°	7.8	22.0	2.2	0.08	D8	50	UN-16UN-18	M12	1.0	2.0	8.0mm	60°	207428

Model	F	L1	S	R	D	L2	American	Metric	Min	Max	Processing Diameter	A	Order No.
STIR 40150-55°	3.85	15.0	1.1	0.05	D4	50	14-20BSW				4.0mm	55°	207430
50150-55°	4.8	15.0	1.5	0.05	D5	50	5/16-18BSW				5.0mm	55°	207431
60200-55°	5.6	20.0	1.8	0.08	D6	50	3/8-16UNF-18				6.0mm	55°	207432
80240-55°	7.8	24.0	2.2	0.08	D8	50</							



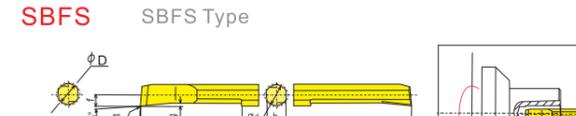
(Unit) : mm

Model	W	S	L1	R	F	D	L2	H	Stock	Processing Diameter	Order No.
SBWR05100R005-D4	0.5	1.0	10	0.05	3.8	D4	50	3.7	○	4mm	207241
SBWR08100R005-D4	0.8	1.0	10	0.05	3.8	D4	50	3.7	○	4mm	207242
SBWR10100R005-D4	1.0	1.5	10	0.05	3.8	D4	50	3.7	○	4mm	207243
SBWR15100R005-D4	1.5	1.5	10	0.05	3.8	D4	50	3.7	○	4mm	207244
SBWR10100R010-D5	1.0	1.5	10	0.1	4.8	D5	50	4.7	○	5mm	207245
SBWR12100R010-D5	1.2	1.5	10	0.1	4.8	D5	50	4.7	○	5mm	207246
SBWR15100R010-D5	1.5	2.0	10	0.1	4.8	D5	50	4.7	○	5mm	207247
SBWR20100R010-D5	2.0	2.0	10	0.1	4.8	D5	50	4.7	○	5mm	207248
SBWR10120R015-D6	1.0	2.0	12	0.15	5.8	D6	50	5.7	○	6mm	207249
SBWR15120R015-D6	1.5	2.0	12	0.15	5.8	D6	50	5.7	○	6mm	207250
SBWR20120R015-D6	2.0	2.0	12	0.15	5.8	D6	50	5.7	○	6mm	207251
SBWR25160R015-D6	2.5	2.5	16	0.15	5.8	D6	50	5.7	○	6mm	207252
SBWR15160R015-D8	1.5	2.0	16	0.15	7.8	D8	50	7.7	○	8mm	207253
SBWR20160R015-D8	2.0	3.0	16	0.15	7.8	D8	50	7.7	○	8mm	207254
SBWR25160R015-D8	2.5	3.0	16	0.15	7.8	D8	50	7.7	○	8mm	207255



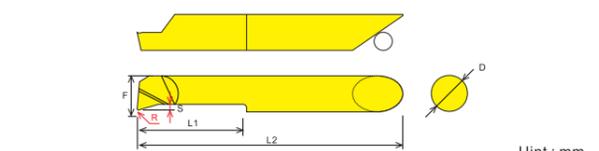
(Unit) : mm

Model	F	L1	T	W	R	D	L2	H	Stock	Processing Diameter	Order No.
SMFR0150W0.75-D6	2.95	15	1.5	0.75	0.1	D6	50	5.7	○	8.0	207271
SMFR0150W1.0-D6	2.95	15	2.0	1.0	0.1	D6	50	5.7	○	8.0	207272
SMFR0200W2.0-D8	3.95	20	4.0	2.0	0.2	D8	50	7.7	○	10.0	207273
SMFR0200W2.5-D8	3.95	20	5.0	2.5	0.2	D8	50	7.7	○	10.0	207274
SMFR0200W3.0-D8	3.95	20	6.0	3.0	0.2	D8	50	7.7	○	10.0	207275



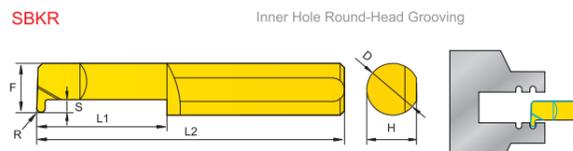
Ordering code	(mm) D	Dimensions										Order Number
		φd	L	L1	f	h	g	r	Stock			
SBFS 020R005S	2.2	2	50	10	0.9	1.8	0.25	0.05	○	207100		
030R005S	3.2	3	50	15	1.4	2.7	0.40	0.05	○	207102		
030R015S	3.2	3	50	15	1.4	2.7	0.40	0.15	○	207104		
040R005S	4.2	4	60	20	1.9	3.6	0.45	0.05	○	207106		
040R015S	4.2	4	60	20	1.9	3.6	0.45	0.15	○	207108		
050R005S	5.2	5	70	25	2.4	4.5	0.50	0.05	○	207110		
050R015S	5.2	5	70	25	2.4	4.5	0.50	0.15	○	207112		

Tungsten Steel Small Diameter Boring Tool (Back oblique insertion)



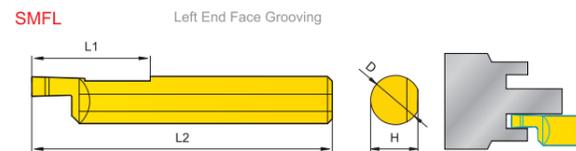
(Unit) : mm

Ordering code	Minimum Machining Diameter	Dimensions								Order Number
		F	L1	S	R	H	L2	φD		
XSBFR 20R005	2.0	1.7	7	0.25	0.05		32.5	4		207120
25R005	2.5	2.3	8	0.25	0.05		33.5	4		207121
30R008	3.0	2.75	12	0.4	0.08		37.5	4		207122
35R010	3.5	3.25	15	0.4	0.1		40	4		207123
40R010	4.0	3.8	15	0.6	0.1		39.5	4		207124
50R015	5.0	4.7	25	0.75	0.15		51	5		207125
60R015	6.0	5.7	30	0.75	0.15		56.5	6		207126
70R015	7.0	6.7	35	0.8	0.15		60	7		207127



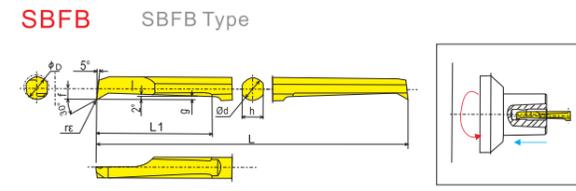
(Unit) : mm

Model	F	S	L1	R	D	L2	H	Stock	Processing Diameter	Order No.
SBKR40100R050-D4	3.8	1.0	10	0.5	D4	50	3.7	○	4mm	207261
SBKR40100R075-D4	3.8	1.0	10	0.75	D4	50	3.7	○	4mm	207262
SBKR60150R050-D6	5.8	1.5	15	0.5	D6	50	5.7	○	6mm	207263
SBKR60150R075-D6	5.8	1.5	15	0.75	D6	50	5.7	○	6mm	207264
SBKR60150R100-D6	5.8	1.5	15	1.0	D6	50	5.7	○	6mm	207265



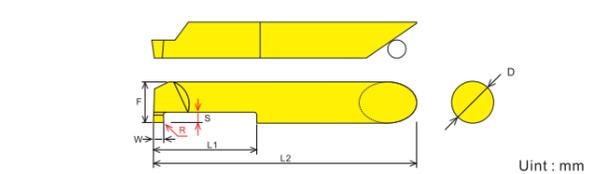
(Unit) : mm

Model	F	L1	T	W	R	D	L2	H	Stock	Processing Diameter	Order No.
SMFL60150W0.75-D6	2.95	15	1.5	0.75	0.1	D6	50	5.7	○	8.0	207281
SMFL60150W1.0-D6	2.95	15	2.0	1.0	0.1	D6	50	5.7	○	8.0	207282
SMFL80200W2.0-D8	3.95	20	4.0	2.0	0.2	D8	50	7.7	○	8.0	207283
SMFL80200W2.5-D8	3.95	20	5.0	2.5	0.2	D8	50	7.7	○	10.0	207284
SMFL80200W3.0-D8	3.95	20	6.0	3.0	0.2	D8	50	7.7	○	10.0	207285



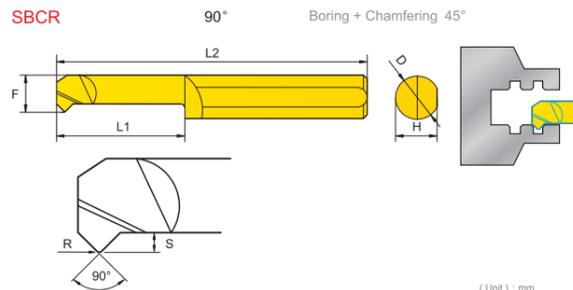
Ordering code	(mm) D	Dimensions										Order Number
		φd	L	L1	f	h	g	r	Stock			
SBFB 020R005F	2.2	2	50	10	0.9	1.8	0.25	0.05	○	207300		
030R005F	3.2	3	50	15	1.4	2.7	0.40	0.05	○	207302		
030R015F	3.2	3	50	15	1.4	2.7	0.40	0.15	○	207304		
040R005F	4.2	4	60	20	1.9	3.6	0.45	0.05	○	207306		
040R015F	4.2	4	60	20	1.9	3.6	0.45	0.15	○	207308		
050R005F	5.2	5	70	25	2.4	4.5	0.50	0.05	○	207310		
050R015F	5.2	5	70	25	2.4	4.5	0.50	0.15	○	207312		

Tungsten Steel Small Bore Grooving Cutter (Back oblique insertion)



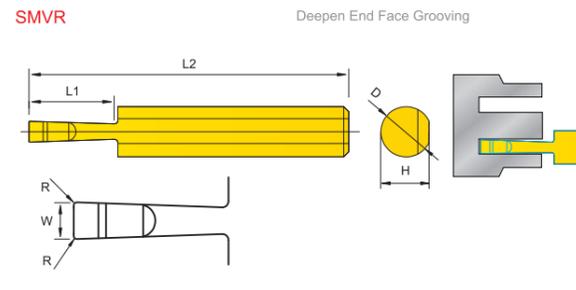
(Unit) : mm

Ordering code	Minimum Machining Diameter	Dimensions								Order Number
		F	L1	S	R	H	L2	φD	W	
XSBWR 0512R005D4	4.0	3.8	12	1.0	0.05		37	4	0.5	207220
1012R005D4	4.0	3.8	12	1.0	0.05		37	4	1.0	207221
1512R005D4	4.0	3.8	12	1.0	0.05		37	4	1.5	207222
1020R010D5	5.0	4.6	20	1.5	0.1		46	5	1.0	207223
1520R010D5	5.0	4.6	20	1.5	0.1		46	5	1.5	207224
2020R010D5	5.0	4.6	20	1.5	0.1		46	5	2.0	207225
1020R015D6	6.0	5.7	20	2.0	0.15		46.5	6	1.0	207226
1520R015D6	6.0	5.7	20	2.0	0.15		46.5	6	1.5	207227
2020R015D6	6.0	5.7	20	2.0	0.15		46.5	6	2.0	207228
1025R015D8	8.0	7.5	25	2.0	0.15		53.5	8	1.0	207229
1525R015D8	8.0	7.5	25	2.0	0.15		53.5	8	1.5	207230
2025R015D8	8.0	7.5	25	2.5	0.15		53.5	8	2.0	207231
2525R015D8	8.0	7.5	25	3.0	0.15		53.5	8	2.5	207232



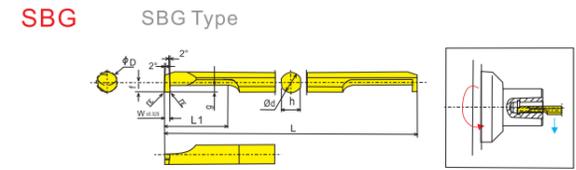
(Unit) : mm

Model	F	L1	S	R	D	L2	H	Stock	Processing Diameter	Order No.
SBCR30100R020-D4	2.8	10	0.5	0.2	D4	50	3.7	○	4mm	207321
SBCR40150R020-D4	3.7	15	0.8	0.2	D4	50	3.7	○	4mm	207322
SBCR50150R020-D5	4.7	15	1.2	0.2	D5	50	4.7	○	5mm	207323
SBCR60150R020-D6	5.7	15	1.5	0.2	D6	50	5.7	○	6mm	207324



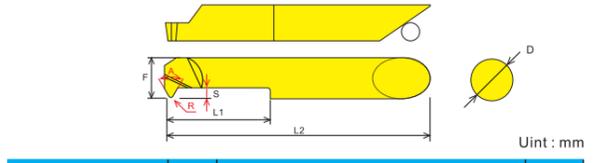
(Unit) : mm

Model	L1	W	R	D	L2	H	Stock	Processing Diameter	Order No.
SMVR10150W2.0-D10	15	2.0	0.2	D10	50	9	○	15	207291
SMVR10150W3.0-D10	15	3.0	0.2	D10	50	9	○	15	207292
SMVR10150W4.0-D10	15	4.0	0.2	D10	50	9	○	15	207293



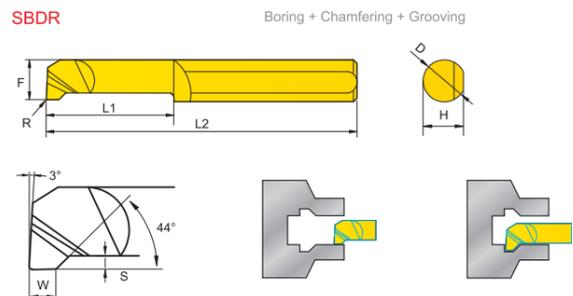
Ordering code	(mm) D	Dimensions										Order Number
		W	φd	L1	g	L	f	h	r	Stock		
SBG 030050RB	0.50										○	207200
030075RB	3	0.75	3	9	0.8	50	1.3	2.7	0.05		○	207202
030100RB	1.00										○	207204
040050RB	0.50										○	207206
040075RB	4	0.75	4	12	1.0	60	1.8	3.6	0.05		○	207208
040100RB	1.00										○	207210
050050RB	0.50										○	207212
050100RB	5	1.00	5	20	1.2	70	2.3	4.5	0.05		○	207214
050150RB	1.50										○	207216

Tungsten Steel Small Bore Threading Tool (Back oblique insertion)



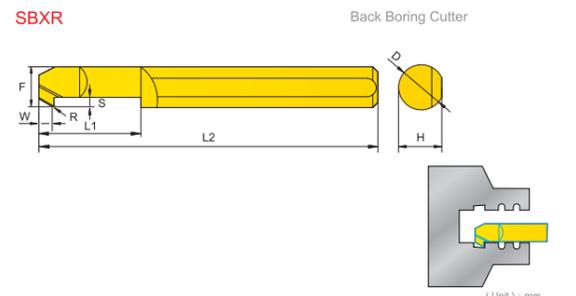
(Unit) : mm

Ordering code	Minimum Machining Diameter	Dimensions								Order Number
		F	L1	S	R	H	L2	φD	A	
XSTIR 3815-A60	M4	3.8	15	1.2	0.05		40	4	60°	207410
4715-A60	M5	4.7	15	1.5	0.05		40	5	60°	207411
5920-A60	M6	5.9	20	2.0	0.08		46.5	6	60°	207412
3815-A55	M4	3.8	15	1.2	0.05		40	4	55°	207413
4715-A55	M5	4.7	15	1.5	0.05		40	5	55°	207414
5920-A55	M6	5.9	20	2.0	0.08		46.5	6	55°	207415



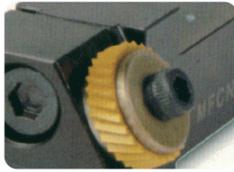
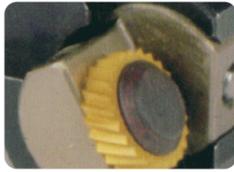
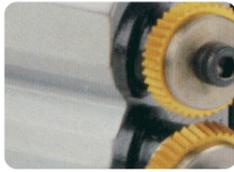
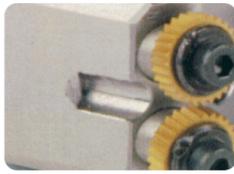
(Unit) : mm

Model	F	L1	S	R	D	L2	H	W	Stock	Processing Diameter	Order No.
SBDP40100R020-D4	3.8	10.0	0.8	0.2	D4	50	3.7	1.5	○	4mm	207331
SBDP50150R020-D5	4.8	15.0	1.2	0.2	D5	50	4.7	1.5	○	5mm	207332
SBDP60150R020-D6	5.8	15.0	1.4	0.2	D6	50	5.7	1.5	○	6mm	207333



Car flower knurling cutter series

Series Size	Pitch	Smooth AilIde Tooth Angle 90°									Order Number
		AA	BL 30	BR 30	BL 45	BR 45	GE 30	GV 30	GE 45	GV 45	
"MB" 10mm 3mm 4mm Hi-Co	0.3mm	MBSX0.3	---	---	MBCX0.3	MBDX0.3	---	---	---	MBGX0.3	● 208100
	0.4mm	MBSX0.4	---	---	MBCX0.4	MBDX0.4	---	---	---	MBGX0.4	● 208102
	0.5mm	MBSX0.5	---	---	MBCX0.5	MBDX0.5	---	---	---	MBGX0.5	● 208104
	0.6mm	MBSX0.6	---	---	MBCX0.6	MBDX0.6	---	---	---	MBGX0.6	● 208106
	0.7mm	MBSX0.7	---	---	MBCX0.7	MBDX0.7	---	---	---	MBGX0.7	● 208108
	0.8mm	MBSX0.8	---	---	MBCX0.8	MBDX0.8	---	---	---	MBGX0.8	● 208110
	0.9mm	MBSX0.9	---	---	MBCX0.9	MBDX0.9	---	---	---	MBGX0.9	● 208112
	1.0mm	MBSX1.0	---	---	MBCX1.0	MBDX1.0	---	---	---	MBGX1.0	● 208114
	"MM" 10mm 4mm 4mm	0.2mm	MMS-0.2	---	---	---	---	---	---	---	---
0.3mm		MMS-0.3	MML-0.3	MMR-0.3	MMC-0.3	MMD-0.3	---	---	---	MMG-0.3	● 208118
0.4mm		MMS-0.4	MML-0.4	MMR-0.4	MMC-0.4	MMD-0.4	---	---	---	MMG-0.4	● 208120
0.5mm		MMS-0.5	MML-0.5	MMR-0.5	MMC-0.5	MMD-0.5	---	MMF-0.5	---	MMG-0.5	● 208122
0.6mm		MMS-0.6	MML-0.6	MMR-0.6	MMC-0.6	MMD-0.6	---	MMF-0.6	---	MMG-0.6	● 208124
0.7mm		MMS-0.7	MML-0.7	MMR-0.7	MMC-0.7	MMD-0.7	---	MMF-0.7	MMN-0.7	MMG-0.7	● 208126
0.8mm		MMS-0.8	MML-0.8	MMR-0.8	MMC-0.8	MMD-0.8	---	---	---	MMG-0.8	● 208128
0.9mm		MMS-0.9	---	---	MMC-0.9	MMD-0.9	---	---	MMN-0.9	MMG-0.9	● 208130
1.0mm		MMS-1.0	MML-1.0	MMR-1.0	MMC-1.0	MMD-1.0	---	---	---	MMG-1.0	● 208132
"MN" 10mm 4mm 4mm	1.1mm	---	---	---	---	---	---	---	---	---	● 208134
	1.2mm	MMS-1.2	MML-1.2	MMR-1.2	MMC-1.2	MMD-1.2	---	---	---	---	● 208136
	0.3mm	MNS-0.3	MNL-0.3	MNR-0.3	MNC-0.3	MND-0.3	---	---	---	MNG-0.3	● 208138
	0.4mm	MNS-0.4	MNL-0.4	MNR-0.4	MNC-0.4	MND-0.4	---	---	---	MNG-0.4	● 208140
	0.5mm	MNS-0.5	MNL-0.5	MNR-0.5	MNC-0.5	MND-0.5	---	---	---	MNG-0.5	● 208142
"MQ" 15mm 6mm 4mm	0.6mm	MNS-0.6	MNL-0.6	MNR-0.6	MNC-0.6	MND-0.6	---	---	---	MNG-0.6	● 208144
	0.7mm	MNS-0.7	MNL-0.7	MNR-0.7	MNC-0.7	MND-0.7	---	---	---	MNG-0.7	● 208146
	0.8mm	MNS-0.8	MNL-0.8	MNR-0.8	MNC-0.8	MND-0.8	---	---	---	MNG-0.8	● 208148
	0.9mm	MNS-0.9	MNL-0.9	MNR-0.9	MNC-0.9	MND-0.9	---	---	---	MNG-0.9	● 208150
	1.0mm	MNS-1.0	MNL-1.0	MNR-1.0	MNC-1.0	MND-1.0	---	---	---	MNG-1.0	● 208152
	1.2mm	MNS-1.2	MNL-1.2	MNR-1.2	MNC-1.2	MND-1.2	---	---	---	MNG-1.2	● 208154
	1.5mm	MNS-1.5	MNL-1.5	MNR-1.5	MNC-1.5	MND-1.5	---	---	---	---	● 208156
	0.3mm	MQS-0.3	QQL-0.3	QQR-0.3	QQC-0.3	QQD-0.3	MQM-0.3	MQF-0.3	---	MQG-0.3	● 208158
	0.4mm	MQS-0.4	QQL-0.4	QQR-0.4	QQC-0.4	QQD-0.4	---	MQF-0.4	---	MQG-0.4	● 208160
0.5mm	MQS-0.5	QQL-0.5	QQR-0.5	QQC-0.5	QQD-0.5	MQM-0.5	MQF-0.5	MQN-0.5	MQG-0.5	● 208162	
0.6mm	MQS-0.6	QQL-0.6	QQR-0.6	QQC-0.6	QQD-0.6	MQM-0.6	MQF-0.6	MQN-0.6	MQG-0.6	● 208164	
0.7mm	MQS-0.7	QQL-0.7	QQR-0.7	QQC-0.7	QQD-0.7	---	---	---	MQG-0.7	● 208166	
0.8mm	MQS-0.8	QQL-0.8	QQR-0.8	QQC-0.8	QQD-0.8	---	MQF-0.8	MQN-0.8	MQG-0.8	● 208168	
0.9mm	MQS-0.9	---	---	QQC-0.9	QQD-0.9	---	---	---	MQG-0.9	● 208170	
1.0mm	MQS-1.0	QQL-1.0	QQR-1.0	QQC-1.0	QQD-1.0	---	MQF-1.0	MQN-1.0	MQG-1.0	● 208172	
1.2mm	MQS-1.2	QQL-1.2	QQR-1.2	QQC-1.2	QQD-1.2	---	MQF-1.2	MQN-1.2	MQG-1.2	● 208174	
1.5mm	MQS-1.5	QQL-1.5	QQR-1.5	QQC-1.5	QQD-1.5	---	---	---	---	● 208176	



Series Size	Pitch	Smooth AilIde Tooth Angle 90°									Order Number
		AA	BL 30	BR 30	BL 45	BR 45	GE 30	GV 30	GE 45	GV 45	
"MR" 20mm 6mm 6mm	0.4mm	MRS-0.4	MRL-0.4	MRR-0.4	---	---	---	---	---	---	● 208500
	0.5mm	MRS-0.5	MRL-0.5	MRR-0.5	---	---	---	---	---	---	● 208502
	0.6mm	MRS-0.6	MRL-0.6	MRR-0.6	---	---	---	---	---	---	● 208504
	0.7mm	MRS-0.7	---	---	---	---	---	---	---	---	● 208506
	0.8mm	MRS-0.8	MRL-0.8	MRR-0.8	---	---	---	---	---	---	● 208508
	0.9mm	MRS-0.9	---	---	---	---	---	---	---	---	● 208510
	1.0mm	MRS-1.0	MRL-1.0	MRR-1.0	---	---	---	---	---	---	● 208512
	1.1mm	MRS-1.1	---	---	---	---	---	---	---	---	● 208514
	1.2mm	MRS-1.2	MRL-1.2	MRR-1.2	---	---	---	---	---	---	● 208516
	1.3mm	MRS-1.3	---	---	---	---	---	---	---	---	● 208518
	1.4mm	MRS-1.4	---	---	---	---	---	---	---	---	● 208520
	1.5mm	MRS-1.5	MRL-1.5	MRR-1.5	---	---	---	---	---	---	● 208522
2.0mm	MRS-2.0	MRL-2.0	MRR-2.0	---	---	---	---	---	---	● 208524	
"MS" 20mm 8mm 6mm	0.2mm	MMS-0.2	---	---	---	---	---	---	---	---	● 208526
	0.3mm	MMS-0.3	---	---	---	---	---	MSF-0.3	---	---	● 208528
	0.4mm	---	---	---	---	---	---	MSF-0.4	---	---	● 208530
	0.5mm	MSS-0.5	MSL-0.5	MSR-0.5	---	---	MSM-0.5	MSF-0.5	---	MSG-0.5	● 208532
	0.6mm	MSS-0.6	MSL-0.6	MSR-0.6	---	---	MSM-0.6	MSF-0.6	---	MSG-0.6	● 208534
	0.7mm	MSS-0.7	---	---	---	---	---	---	---	MSG-0.7	● 208536
	0.8mm	MSS-0.8	MSL-0.8	MSR-0.8	---	---	MSM-0.8	MSF-0.8	---	MSG-0.8	● 208538
	1.0mm	MSS-0.9	MSL-1.0	MSR-1.0	---	---	MSM-1.0	MSF-1.0	---	---	● 208540
	1.2mm	MSS-1.0	MSL-1.2	MSR-1.2	---	---	MSM-1.2	MSF-1.2	---	---	● 208542
	1.5mm	MSS-1.2	MSL-1.5	MSR-1.5	---	---	MSM-1.5	MSF-1.5	---	---	● 208544
	2.0mm	MSS-2.0	---	---	---	---	---	---	---	---	● 208546
	"MU" 20mm 10mm 6mm Hi-Co	0.3mm	---	---	---	---	---	MUFX0.3	---	MUGX0.3	● 208548
0.4mm		MUS-0.4	---	---	---	---	MUFX0.4	---	MUGX0.4	● 208550	
0.5mm		MUS-0.5	---	---	---	---	MUFX0.5	MUNX0.5	MUGX0.5	● 208552	
0.6mm		MUS-0.6	---	---	---	---	MUFX0.6	---	MUGX0.6	● 208554	
0.7mm		MUS-0.7	---	---	---	---	MUFX0.7	---	MUGX0.7	● 208556	
0.8mm		MUS-0.8	MULX0.8	MURX0.8	MUCX0.8	MUDX0.8	---	MUFX0.8	MUNX0.8	MUGX0.8	● 208558
0.9mm		---	---	---	---	---	---	MUFX0.9	---	MUGX0.9	● 208560
1.0mm		MUS-1.0	MULX1.0	MURX1.0	MUCX1.0	MUDX1.0	MUMX1.0	MUFX1.0	MUNX1.0	MUGX1.0	● 208562
1.2mm		MUS-1.2	---	---	---	---	MUMX1.2	---	---	MUGX1.2	● 208564
1.5mm	MUS-1.5	---	---	---	---	MUMX1.5	---	MUNX1.5	MUGX1.5	● 208566	
2.0mm	MUS-2.0	MULX2.0	MURX2.0	---	---	---	---	---	MUGX2.0	● 208568	
"MW" 25mm 8mm 6mm	0.5mm	MWS-0.5	MWL-0.5	MWR-0.5	---	---	---	---	---	---	● 208570
	0.6mm	MWS-0.6	MWL-0.6	MWR-0.6	---	---	---	---	---	---	● 208572
	0.8mm	MWS-0.8	MWL-0.8	MWR-0.8	---	---	---	---	---	---	● 208574
	1.0mm	MWS-1.0	MWL-1.0	MWR-1.0	---	---	---	---	---	---	● 208576
	1.2mm	MWS-1.2	MWL-1.2	MWR-1.2	---	---	---	---	---	---	● 208578
	1.5mm	MWS-1.5	MWL-1.5	MWR-1.5	---	---	---	---	---	---	● 208580
	1.6mm	MWS-1.6	MWL-1.6	MWR-1.6	---	---	---	---	---	---	● 208582
	2.0mm	MWS-2.0	---	---	---	---	---	---	---	---	● 208584

Automatic Welding Turning Tool

		15 / 20	3X3X22X5R 4X4X22X5R 8X8X150mm
		15 / 20	1.5X3X22X5R 2X3X22X5R 2.5X3X22X5R 3X3X22X5R 8X8X150mm
		15 / 20	3X5X18X5R 8X8X150mm
		15 / 20	3X6X18X5R 8X8X150mm
		15 / 20	3X8X18 8X8X150mm
		15 / 20	3X3X18X5R 4X4X22X5R 8X8X150mm
		25	3X3X18X5R 4X4X22X5R 9.5X9.5X150mm
		25	3X3X18X5R 4X4X22X5R 9.5X9.5X150mm
			3X3X22X5R 4X4X22X5R
			3X3X22X5R 2.5X3X22X5R 3X3X22X5R
			3X10X18
			3X3X22X5R 4X4X22X5R
			2X3X22X5R 2.5X3X22X5R 3X3X22X5R
			3X12X18
			3X3X22X5R 4X4X22X5R
			2.5X3X22X5R 3X3X22X5R 4X4X22X5R
			3X16X18
			3X3X22X5R 4X4X22X5R
			2.5X3X22X5R 3X3X22X5R 4X4X22X5R
			3X20X18

	Density G/cm3	Hardness HRA	TRS N/mm2
UF20	14.2	91.5	2500
K10	13.5	92.5	1850
K01	14.5	93	1620



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