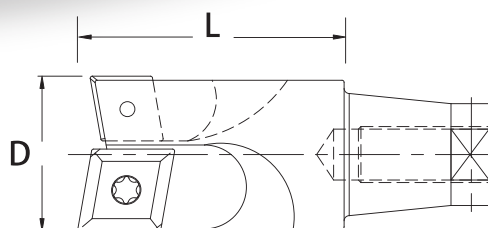




TJUM

鑽銑刀

Multi-functional



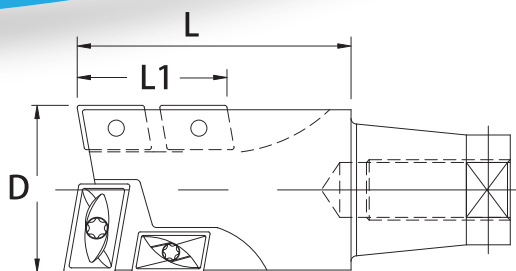
Ordering Code	Dimensions / mm		Connecting Screw			KG
	D	L				
TJUM-16	16	40	M6-1.0	CCMT060204	CPMT080204Z	0.05
TJUM-20	20	40	M6-1.0	CCMT060204	CPMT090204Z	0.08
TJUM-25	25	40	M8-1.25	CPMT090308	CPMT120308Z	0.1
TJUM-32	32	40	M8-1.25	CPMT120408	CPMT160408Z	0.15
TJUM-40	40	40	M10-1.5	CPMT160408Z	CPMT190408Z	0.27



TSJM

鑽銑刀

Multi-functional

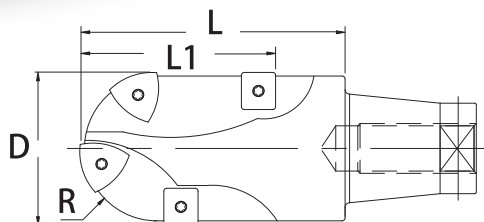


Ordering Code	Dimensions / mm			Connecting Screw			KG
	D	L1	L				
TSJM-20	20	20	40	M6-1.0	ADMT100308L	ACMT100308R	0.06
TSJM-25	25	25	40	M8-1.25	ADMT12T308L	APMT12T308R	0.1
TSJM-32	32	32	50	M8-1.25	APMT160408L	APMT150408R	0.22
TSJM-35	35	35	50	M10-1.5	APMT170408L	APMT150408R	0.28
TSJM-40	40	40	55	M10-1.5	APMT190508L	APMT150408R	0.43



T2039M 球型粗銑刀

Roughing ball nose milling cutters

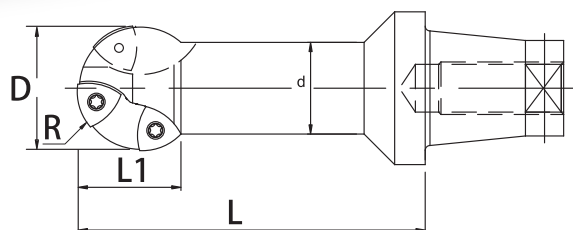


Ordering Code	Dimensions / mm				Connecting Screw			KG
	R	D	L1	L				
T2039M-10.0R	10	20	20.5	40	M6-1.0	P26315-R10	P28415.00	0.05
T2039M-12.5R	12.5	25	23	40	M8-1.25	P26315-R12	P28415.00	0.1
T2039M-16.0R	16	32	31	40	M8-1.25	P26315-R16	P28415-0	0.18
T2039M-20.0R	20	40	41.5	66	M10-1.5	P26315-R20	P28495.1	0.4
T2039M-25.0R	25	50	66	90	M12-1.75	P26315-R25	P28495.1	1



T2039LM 球型粗銑刀

Roughing ball nose milling cutters



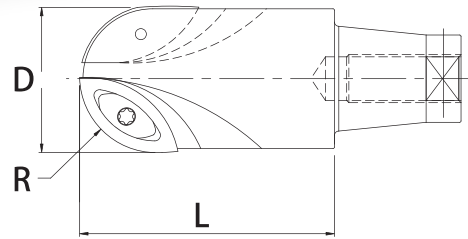
Ordering Code	Dimensions / mm					Connecting Screw		KG
	R	D	d	L1	L			
T2039LM-25.0R	25	50	34	39	92	M12-1.75	P26315-R25	0.85



TCFM

球型粗銑刀

Roughing ball nose milling cutters



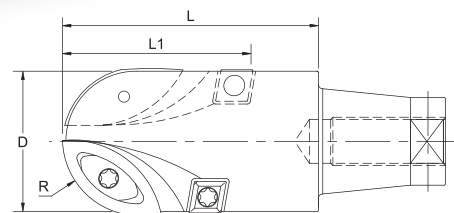
Ordering Code	Dimensions / mm				Connecting Screw			KG
	R	D	L1	L				
TCFM-10.0R	10	20	18	40	M6-1.0	ZCEW100CE	ZCEW100SE	0.07
TCFM-12.5R	12.5	25	23	40	M8-1.25	ZCEW125CE	ZCEW125SE	0.1
TCFM-15.0R	15	30	28	46	M8-1.25	ZCEW150CE	ZCEW150SE	0.15
TCFM-20.0R	20	40	35	50	M10-1.5	ZCEW200CE	ZCEW200SE	0.33
TCFM-25.0R	25	50	45	63	M12-1.75	ZCEW250CE-N	ZCEW250SK-N	0.63



TCFLM

球型粗銑刀

Roughing ball nose milling cutters

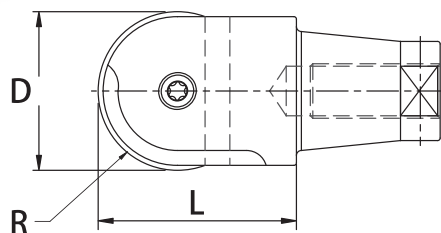


Ordering Code	Dimensions / mm				Connecting Screw				KG
	R	D	L1	L					
TCFLM-10.0R	10	20	30	40	M6-1.0	ZCEW100CE	ZCEW100SE	CPMT080204	0.05
TCFLM-12.5R	12.5	25	39	50	M8-1.25	ZCEW125CE	ZCEW125SE	CPMT090308	0.12
TCFLM-15.0R	15	30	43	55	M8-1.25	ZCEW150CE	ZCEW150SE	CPMT090308	0.18
TCFLM-20.0R	20	40	50	60	M10-1.5	ZCEW200CE	ZCEW200SE	CPMT090308	0.75
TCFLM-25.0R	25	50	63	85	M12-1.75	ZCEW250CE-N	ZCEW250SK-N	CPMT120408	0.8



T2139M 球型精銑刀

Finishing ball nose milling cutters

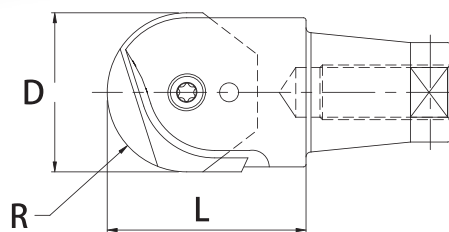


Ordering Code	Dimensions / mm			Connecting Screw		KG
	R	D	L			
T2139M-08.0R	8	16	40	M6-1.0	P3200-D16	0.05
T2139M-10.0R	10	20	40	M6-1.0	P3200-D20	0.08
T2139M-12.5R	12.5	25	40	M8-1.25	P3200-D25	0.12
T2139M-15.0R	15	30	40	M8-1.25	P3200-D30	0.17
T2139M-16.0R	16	32	40	M8-1.25	P3200-D32	0.18



TBPM 球型精銑刀

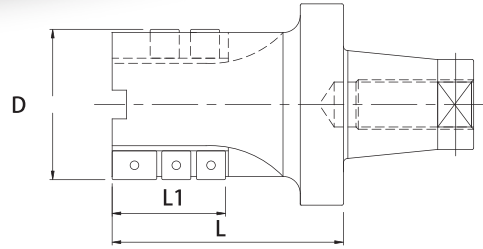
Finishing ball nose milling cutters



Ordering Code	Dimensions / mm			Connecting Screw		KG
	R	D	L			
TBPM-08.0R	8	16	40	M6-1.0	ZPFW-160	0.05
TBPM-10.0R	10	20	40	M6-1.0	ZPFW-200	0.07
TBPM-12.5R	12.5	25	40	M8-1.25	ZPFW-250	0.1
TBPM-15.0R	15	30	50	M8-1.25	ZPFW-300	0.15



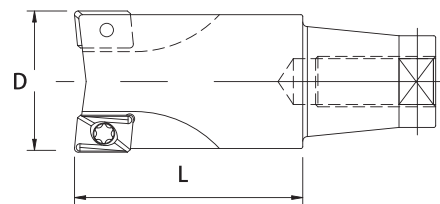
T2038M 重切削粗銑刀 Heavy operation milling cutters



Ordering Code	Dimensions / mm			Flutes	Connecting Screw			KG
	D	L1	L					
T2038M-40	40	50	70	4	M10-1.5	ADLX1503 x2Pcs	SDLX090308 x12Pcs	0.5
T2038M-50-47	50	47	70	4	M12-1.75	APLX1504 x2Pcs	SPLX120408 x8Pcs	0.75
T2038M-50-75	50	75	90	4	M12-1.75	APLX1504 x2Pcs	SPLX120408 x14Pcs	0.98



TAPM 側銑快削刀 Shoulder milling cutters



Ordering Code	Dimensions / mm		Flutes	Connecting Screw		KG
	D	L				
TAPM300-16	16	40	2	M6-1.0	APMT1135	0.05
TAPM300-20	20	40	2	M6-1.0	APMT1135	0.07
TAPM400-25	25	40	2	M8-1.25	APMT1604	0.1
TAPM400-30	30	40	2	M8-1.25	APMT1604	0.15
TAPM400-32	32	40	2	M8-1.25	APMT1604	0.18
TAPM400-35	35	40	3	M10-1.5	APMT1604	0.2
TAPM400-40	40	40	3	M10-1.5	APMT1604	0.32
TAPM400-50	50	40	4	M12-1.75	APMT1604	0.4



TEXM

精銑快削刀

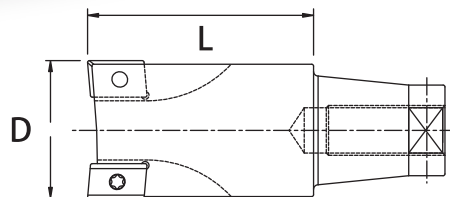
Finishing shoulder milling cutters

P

M

K

H



Ordering Code	Dimensions / mm		Flutes	Connecting Screw		KG
	D	L				
TEXM-16	16	40	1	M6-1.0	APET120204(8)	0.05
TEXM-20	20	40	2	M6-1.0	APET120204(8)	0.07
TEXM-25	25	40	2	M8-1.25	ADET160304(8)	0.1
TEXM-30	30	40	2	M8-1.25	ADET160304(8)	0.16
TEXM-32	32	40	2	M8-1.25	ADET160304(8)	0.2
TEXM-40	40	40	3	M10-1.5	ADET160304(8)	0.33
TEXM-50	50	40	4	M12-1.75	ADET160304(8)	0.58



TRSM

角R銑刀

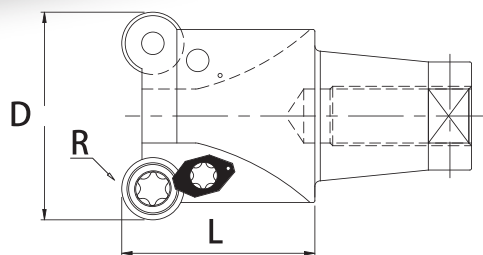
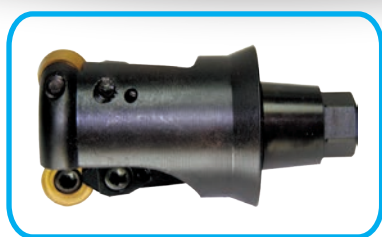
Profile milling cutters

P

M

K

H

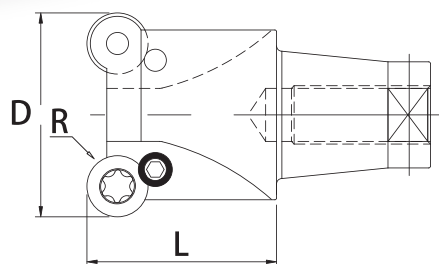
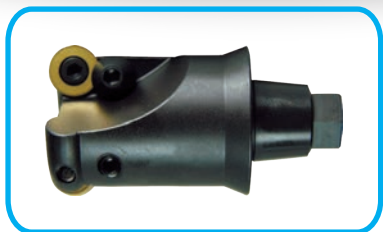


Ordering Code	Dimensions / mm			Flutes	Connecting Screw		KG
	D	R	L				
TRSM-4R-16	16	4R	40	2	M6-1.0	RDMT0802	0.05
TRSM-4R-20	20	4R	40	2	M6-1.0	RDMT0802	0.07
TRSM-5R-25	25	5R	40	2	M8-1.25	RDMT10T3	0.1
TRSM-5R-30	30	5R	40	2	M8-1.25	RDMT10T3	0.14
TRSM-5R-35	35	5R	40	3	M10-1.5	RDMT10T3	0.18
TRSM-5R-50	50	5R	40	3	M12-1.75	RDMT10T3	0.45



EMRM 角R銑刀

Profile milling cutters

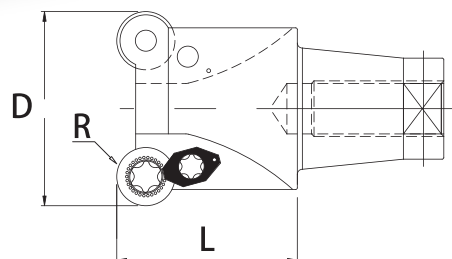
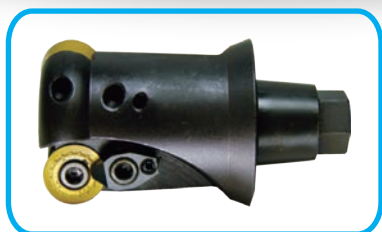


Ordering Code	Dimensions / mm			Flutes	Connecting Screw		KG
	D	R	L				
EMRM-5R-25	25	5R	40	2	M8-1.25	RPMW1003	0.1
EMRM-5R-30	30	5R	40	2	M8-1.25	RPMW1003	0.14
EMRM-5R-35	35	5R	40	3	M10-1.5	RPMW1003	0.2
EMRM-6R-40	40	6R	40	3	M10-1.5	RPMW1203	0.3
EMRM-6R-50	50	6R	40	4	M12-1.75	RPMW1203	0.45



EMRWM 角R削刀

Profile milling cutters



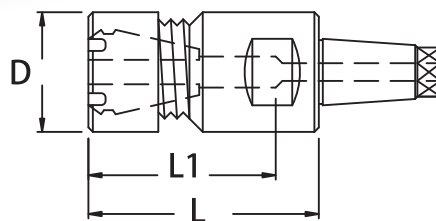
Ordering Code	Dimensions / mm			Flutes	Connecting Screw		KG
	D	R	L				
EMRW-6R-32	32	6R	40	2	M8-1.25	RPMT1204	0.13
EMRW-6R-40	40	6R	40	3	M10-1.5	RPMT1204	0.35
EMRW-6R-50	50	6R	40	4	M12-1.75	RPMT1204	0.46



TMC

ER夾頭

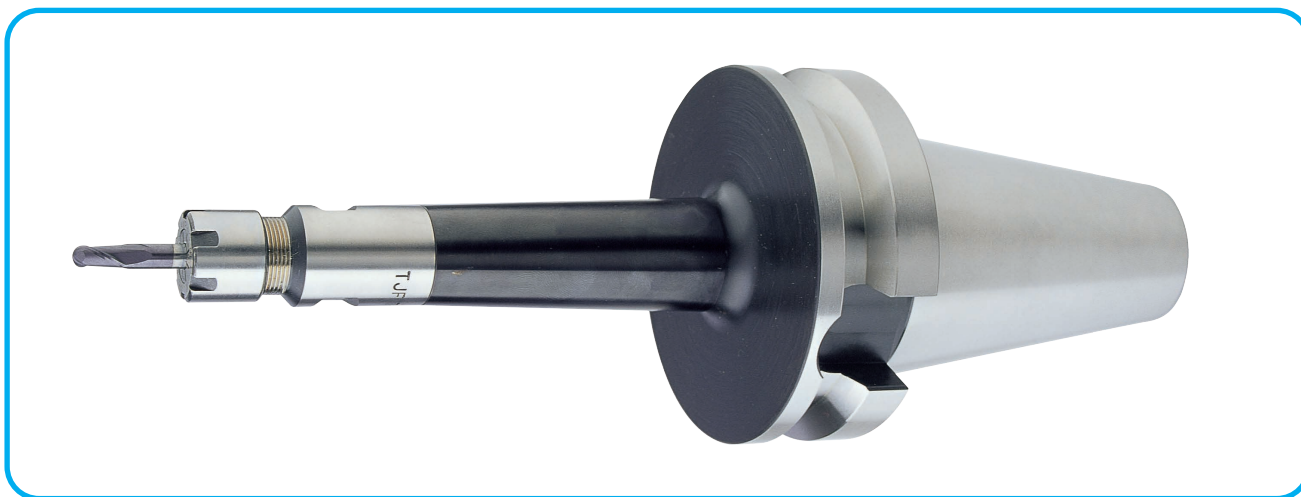
ER collet holder



Ordering Code	Dimensions / mm			Connecting Screw	KG
	D	L1	L		
TMC-ER11	16	30	45	M6-1.0	0.05
TMC-ER16	22	50	55	M8-1.25	0.15
TMC-ER20	28	50	55	M8-1.25	0.2

● The price isn't included M type nut and ER collet.

● CMF-BT40 + TMC

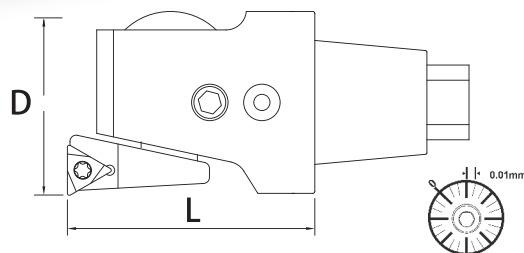




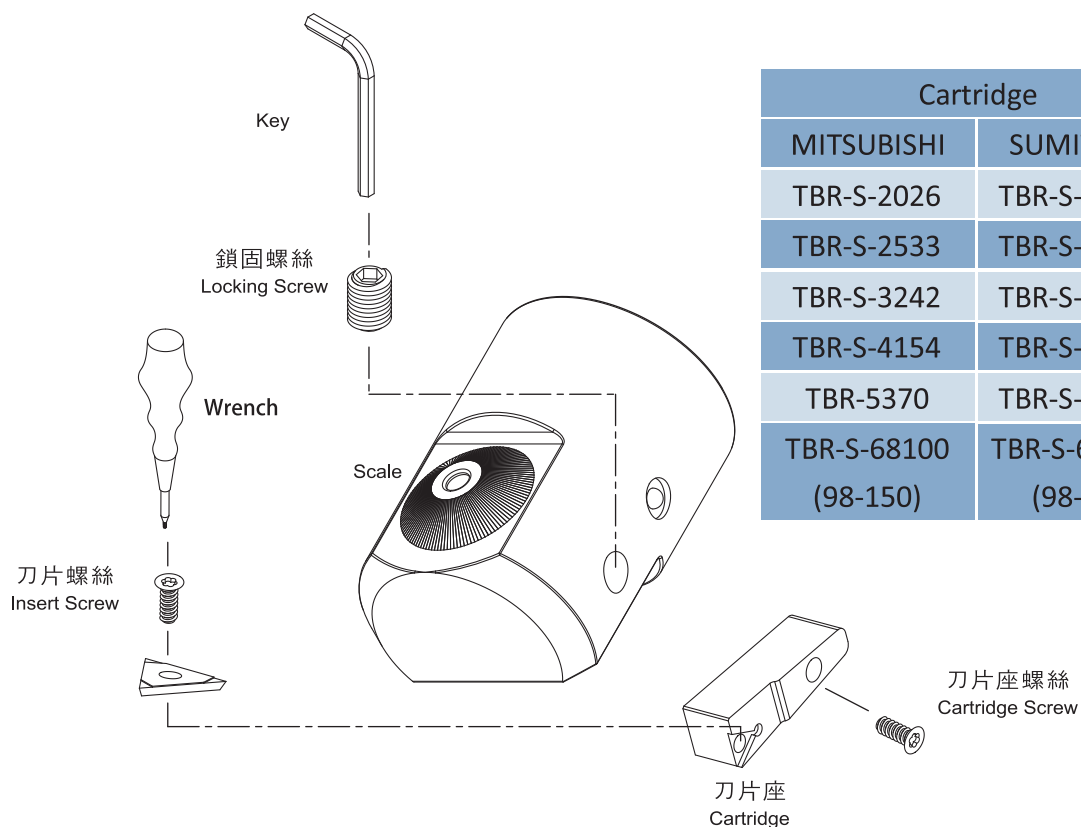
TBR

精搪頭

Micro boring heads



Ordering Code	Dimensions / mm		Insert	Insert Screw	Wrench	Key (mm)	KG
	D	L	mitsubishi / SUMITOMO				
TBR-20	20 – 26	32	TCGT0601 / TPGT0802	Y-TBR20-1 / Y-TBR20-2 M2-0.4	T7 / T6	2.0	0.2
TBR-25	25 – 33	35	TCGT0601 / TPGT0802	Y-TBR20-1 / Y-TBR20-2 M2-0.4	T7 / T6	2.5	0.22
TBR-32	32 – 42	40	TPGX0802 / TPGT0802	Y-TBR32-1 / Y-TBR20-2 M2-0.4	T8 / T6	3.0	0.32
TBR-41	41 – 54	45	TPGX0802 / TCGT1102	Y-TBR32-1 / Y-TBR41-2 M2-0.4 / M2.5-0.45	T8 / T7	4.0	0.6
TBR-53	53 – 70	55	TPGX1103 / TCGT1102	Y-TBR53-1 / Y-TBR-41-2 M3-0.5 / M2.5-0.45	T10 / T7	5.0	1.0
TBR-68	68 – 100	66	TPGX1103 / TCGT1102	Y-TBR53-1 / Y-TBR-41-2 M3-0.5 / M2.5-0.45	T10 / T7	5.0	2.0
TBR-98	98 - 150	67	TPGX1103 / TCGT1102	Y-TBR53-1 / Y-TBR-41-2 M3-0.5 / M2.5-0.45	T10 / T7	5.0	2.8

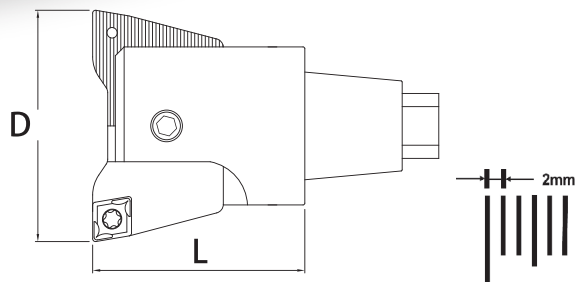
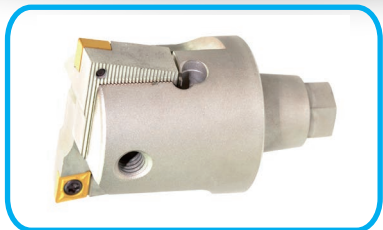


Cartridge		Cartridge Screw
mitsubishi	SUMITOMO	
TBR-S-2026	TBR-S-2026-1	Y-TBR-SL-20
TBR-S-2533	TBR-S-2533-1	Y-TBR-SL-25
TBR-S-3242	TBR-S-3242-1	Y-TBR-SL-32
TBR-S-4154	TBR-S-4154-1	Y-TBR-SL-41
TBR-S-5370	TBR-S-5370-1	Y-TBR-SL-53
TBR-S-68100 (98-150)	TBR-S-68100-1 (98-150)	Y-TBR-SL-68

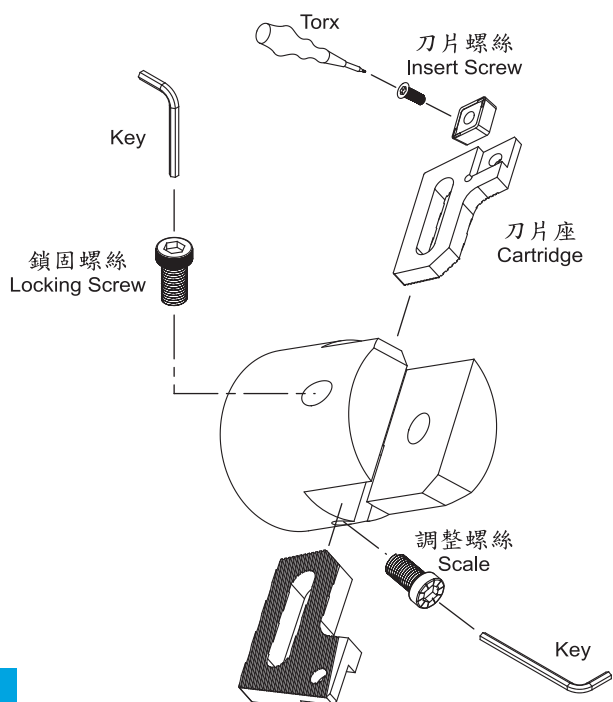


TRBH-CC 粗搪頭

Rough boring heads



Ordering Code	Dimensions / mm			Insert Screw	Wrench	KEY (mm)	KG
	D	L					
TRBH-C-25	25 - 33	35	CCMT0602	Y-TRBH-C-2532 M2.5-0.45	T8	4	0.15
TRBH-C-32	32 - 42	40	CCMT0602	Y-TBRH-C-2532 M2.5-0.45	T8	5	0.24
TRBH-C-41	41 - 54	50	CCMT09T3	Y-TRBH-C-4153 M4-0.7	T15	6	0.45
TRBH-C-53	53 - 70	61	CCMT09T3	Y-TRBH-C-4153 M4-0.7	T15	6	0.7
TRBH-C-68	68 - 91	75	CCMT1204	Y-TRBH-C-6890 M5-0.8	T20	8	1.2
TRBH-C-90	90 - 122	75	CCMT1204	Y-TRBH-C-6890 M5-0.8	T20	6	2.2

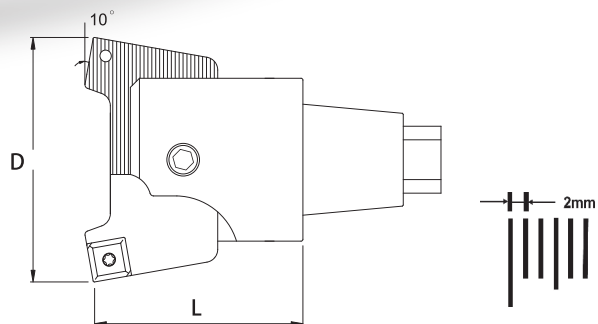


Cartridge	Locking Screw	Scale
TRBH-CC-25	Y-TRBH-SL-25	Y-TRBH-AD-25
TRBH-CC-32	Y-TRBH-SL-32	Y-TRBH-AD-32
TRBH-CC-41	Y-TRBH-SL-41	Y-TRBH-AD-41
TRBH-CC-53	Y-TRBH-SL-53	Y-TRBH-AD-53
TRBH-CC-68	Y-TRBH-SL-68	Y-TRBH-AD-68
TRBH-CC-90	Y-TRBH-SL-90	Y-TRBH-AD-90

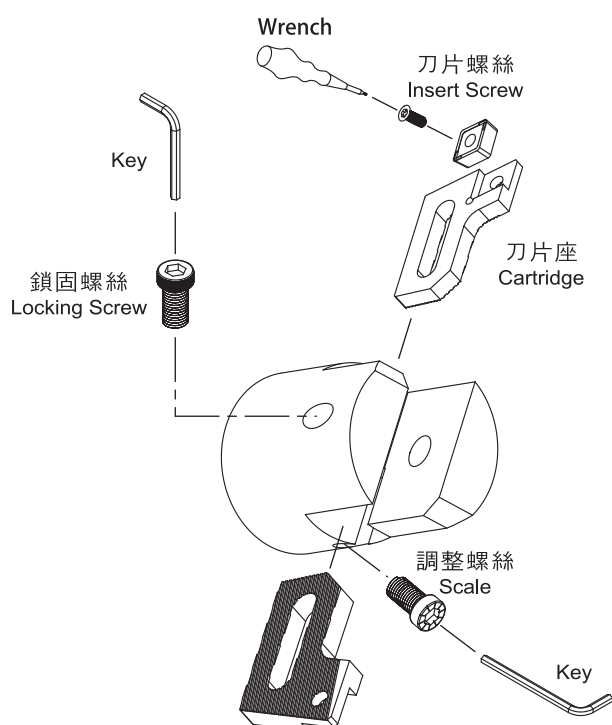


TRBH-SC 粗搪頭

Rough boring heads



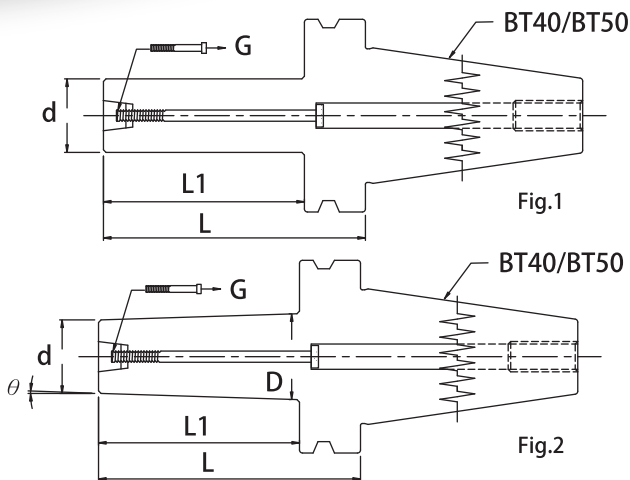
Ordering Code	Dimensions / mm			Insert Screw	Wrench	KEY (mm)	KG
	D	L					
TRBH-S-25	25 – 33	35	SPMT0602	Y-TRBH-S-25 M2-0.45	T8	4	0.15
TRBH-S-32	32 – 42	40	SCMT0702	Y-TRBH-S-32 M3-0.5	T10	5	0.24
TRBH-S-41	41 – 54	50	SCMT09T3	Y-TRBH-S-4153 M4-0.7	T15	6	0.45
TRBH-S-53	53 – 70	61	SCMT09T3	Y-TRBH-S-4153 M4-0.7	T15	6	0.7
TRBH-S-68	68 – 91	75	SCMT1204	Y-TRBH-S-6890 M5-0.8	T20	8	1.2
TRBH-S-90	90 - 122	75	SCMT1204	Y-TRBH-S-6890 M5-0.8	T20	6	2.2



Cartridge	Locking Screw	Scale
TRBH-SC-25	Y-TRBH-SL-25	Y-TRBH-AD-25
TRBH-SC-32	Y-TRBH-SL-32	Y-TRBH-AD-32
TRBH-SC-41	Y-TRBH-SL-41	Y-TRBH-AD-41
TRBH-SC-53	Y-TRBH-SL-53	Y-TRBH-AD-53
TRBH-SC-68	Y-TRBH-SL-68	Y-TRBH-AD-68
TRBH-SC-90	Y-TRBH-SL-90	Y-TRBH-AD-90



CMF-BT40/BT50 後拉刀柄 BT40/BT50 Connecting multi-function arbor



● 建議使用黃色註明的尺寸做為搪刀刀柄

Yellow dot are recommended for boring systems.

Ordering Code	Fig. No.	Dimensions / mm					Connecting Screw	KG
		d	D	θ	L	L1		
CMF-BT40-16-060	1	15.2	-	-	60	35	M6-1.0-037L	1.4
CMF-BT40-16-060-2°	2	15.5	17.9	2°	60	35	M6-1.0-037L	1.4
CMF-BT40-16-080	1	15.2	-	-	80	55	M6-1.0-057L	1.5
CMF-BT40-16-100-2°	2	15.5	20.7	2°	100	75	M6-1.0-077L	1.6
CMF-BT40-16-120-2°	2	15.5	22.1	2°	120	95	M6-1.0-097L	1.7
● CMF-BT40-20-060	1	19.2	-	-	60	35	M6-1.0-037L	1.5
CMF-BT40-20-060-2°	2	19.5	21.9	2°	60	35	M6-1.0-037L	1.5
● CMF-BT40-20-080	1	19.2	-	-	80	55	M6-1.0-057L	1.6
CMF-BT40-20-080-2°	2	19.5	23.3	2°	80	55	M6-1.0-057L	1.6
CMF-BT40-20-100-2°	2	19.5	24.7	2°	100	75	M6-1.0-077L	1.65
CMF-BT40-20-125-2°	2	19.5	26.5	2°	125	100	M6-1.0-102L	1.7
● CMF-BT40-25-065	1	24.2	-	-	65	40	M8-1.25-045L	1.4
CMF-BT40-25-065-2°	2	24.5	27.3	2°	65	40	M8-1.25-045L	1.4
CMF-BT40-25-080-2°	2	24.5	28.3	2°	80	55	M8-1.25-057L	1.6
● CMF-BT40-25-085	1	24.2	-	-	85	60	M8-1.25-062L	1.6
● CMF-BT40-25-100	1	24.2	-	-	100	75	M8-1.25-077L	1.7
CMF-BT40-25-100-2°	2	24.5	29.7	2°	100	75	M8-1.25-077L	1.7
CMF-BT40-25-125-2°	2	24.5	31.5	2°	125	100	M8-1.25-102L	1.9
CMF-BT40-30-070-2°	2	29.5	32.6	2°	70	45	M8-1.25-047L	1.6
CMF-BT40-30-075	1	29.2	-	-	75	50	M8-1.25-052L	1.6
CMF-BT40-30-100	1	29.2	-	-	100	75	M8-1.25-077L	1.7
CMF-BT40-30-100-2°	2	29.5	34.7	2°	100	75	M8-1.25-077L	1.7
CMF-BT40-30-125	1	29.2	-	-	125	100	M8-1.25-102L	2
CMF-BT40-30-125-2°	2	29.2	36.5	2°	125	100	M8-1.25-102L	2

Ordering Code	Fig. No.	Dimensions / mm					Connecting Screw	KG
		d	D	θ	L	L1		
☀ CMF-BT40-32-075	1	31.2	-	-	75	50	M8-1.25-052L	1.6
CMF-BT40-32-075-2°	2	31.5	35	2°	75	50	M8-1.25-052L	1.6
☀ CMF-BT40-32-100	1	31.2	-	-	100	75	M8-1.25-077L	1.8
CMF-BT40-32-100-2°	2	31.5	36.7	2°	100	75	M8-1.25-077L	1.8
☀ CMF-BT40-32-125	1	31.2	-	-	125	100	M8-1.25-102L	2
CMF-BT40-35-100	1	34.2	-	-	100	75	M10-1.5-077L	1.8
CMF-BT40-35-100-2°	2	34.5	39.7	2°	100	75	M10-1.5-077L	1.8
CMF-BT40-35-125	1	34.2	-	-	125	100	M10-1.5-102L	2.2
CMF-BT40-35-125-2°	2	34.5	41.5	2°	125	100	M10-1.5-102L	2.2
CMF-BT40-35-150	1	34.2	-	-	150	125	M10-1.5-127L	2.5
☀ CMF-BT40-40-125	1	39	-	-	125	100	M10-1.5-098L	2.3
☀ CMF-BT40-40-165	1	39	-	-	165	140	M10-1.5-138L	2.6
☀ CMF-BT40-50-125	1	49	-	-	125	100	M12-1.75-088L	2.6
☀ CMF-BT40-50-150	1	49	-	-	150	125	M12-1.75-113L	3
☀ CMF-BT40-50-200	1	49	-	-	200	175	M12-1.75-163L	4
CMF-BT40-50-250	1	49	-	-	250	225	M12-1.75-213L	4.8

Ordering Code	Fig. No.	Dimensions / mm					Connecting Screw	KG
		d	D	θ	L	L1		
CMF-BT50-16-070	1	15.2	-	-	70	35	M6-1.0-037L	4
CMF-BT50-16-070-2°	2	15.5	19.7	2°	70	35	M6-1.0-037L	4
CMF-BT50-16-095	1	15.2	-	-	95	60	M6-1.0-062L	4.2
CMF-BT50-16-095-2°	2	15.5	19.7	2°	95	60	M6-1.0-062L	4.2
CMF-BT50-16-110-2°	2	15.5	20.7	2°	110	75	M6-1.0-077L	4.25
CMF-BT50-16-130-2°	2	15.5	22.1	2°	130	95	M6-1.0-097L	4.3
☀ CMF-BT50-20-075	1	19.2	-	-	75	40	M6-1.0-042L	4.1
CMF-BT50-20-075-2°	2	19.5	22.3	2°	75	40	M6-1.0-042L	4.1
☀ CMF-BT50-20-095	1	19.2	-	-	95	60	M6-1.0-062L	4.2
CMF-BT50-20-095-2°	2	19.5	23.7	2°	95	60	M6-1.0-062L	4.2
CMF-BT50-20-115-2°	2	19.5	25.1	2°	115	80	M6-1.0-082L	4.3
CMF-BT50-20-135-2°	2	19.5	26.5	2°	135	100	M6-1.0-102L	4.4
☀ CMF-BT50-25-075	1	24.2	-	-	75	40	M8-1.25-042L	4.3
CMF-BT50-25-075-2°	2	24.5	27.3	2°	75	40	M8-1.25-042L	4.3
☀ CMF-BT50-25-095	1	24.2	-	-	95	60	M8-1.25-062L	4.4
CMF-BT50-25-095-2°	2	24.5	28.7	2°	95	60	M8-1.25-062L	4.4
☀ CMF-BT50-25-120	1	24.2	-	-	120	85	M8-1.25-087L	4.5
CMF-BT50-25-120-2°	2	24.5	30.4	2°	120	85	M8-1.25-087	4.5
CMF-BT50-25-125-2°	2	24.5	30.8	2°	125	90	M8-1.25-092L	4.5
☀ CMF-BT50-25-145	1	24.2	-	-	145	110	M8-1.25-112L	4.6

Ordering Code	Fig. No.	Dimensions / mm					Connecting Screw	KG
		d	D	θ	L	L1		
CMF-BT50-25-145-2°	2	24.5	32.2	2°	145	110	M8-1.25-112L	4.6
CMF-BT50-25-175-2°	2	24.5	34.3	2°	175	140	M8-1.25-142L	4.8
● CMF-BT50-25-195	1	24.2	-	-	195	160	M8-1.25-162L	4.9
CMF-BT50-25-195-2°	2	24.5	35.7	2°	195	160	M8-1.25-162L	4.9
CMF-BT50-30-080	1	29.2	-	-	80	45	M8-1.25-047L	4.2
CMF-BT50-30-080-2°	2	29.5	32.6	2°	80	45	M8-1.25-047L	4.2
CMF-BT50-30-105	1	29.2	-	-	105	70	M8-1.25-072L	4.5
CMF-BT50-30-105-2°	2	29.5	34.4	2°	105	70	M8-1.25-072L	4.5
CMF-BT50-30-130-2°	2	29.5	36.1	2°	130	95	M8-1.25-097L	4.8
CMF-BT50-30-135	1	29.2	-	-	135	100	M8-1.25-102L	4.8
CMF-BT50-30-155-2°	2	29.5	37.9	2°	155	120	M8-1.25-122L	4.9
CMF-BT50-30-180-2°	2	29.5	39.6	2°	180	145	M8-1.25-147L	5
CMF-BT50-30-195	1	29.2	-	-	195	160	M8-1.25-162L	5
CMF-BT50-30-210	1	29.2	-	-	210	175	M8-1.25-177L	5.3
CMF-BT50-30-210-2°	2	29.5	41.7	2°	210	175	M8-1.25-177L	5.3
CMF-BT50-30-250-2°	2	29.5	44.5	2°	250	215	M8-1.25-217L	6.1
CMF-BT50-30-300	1	29.2	-	-	300	265	M8-1.25-267L	6.8
CMF-BT50-30-300-2°	2	29.5	48.5	2°	300	265	M8-1.25-267L	6.8
CMF-BT50-30-350-2°	2	29.5	52	2°	350	315	M8-1.25-317L	7.5
● CMF-BT50-32-085	1	31.2	-	-	85	50	M8-1.25-052L	4.3
CMF-BT50-32-085-2°	2	31.5	35	2°	85	50	M8-1.25-052	4.3
● CMF-BT50-32-110	1	31.2	-	-	110	75	M8-1.25-077L	4.5
CMF-BT50-32-110-2°	2	31.5	36.7	2°	110	75	M8-1.25-077L	4.5
● CMF-BT50-32-135	1	31.2	-	-	135	100	M8-1.25-102L	4.7
CMF-BT50-32-135-2°	2	31.5	38.5	2°	135	100	M8-1.25-102L	4.7
● CMF-BT50-32-160	1	31.2	-	-	160	125	M8-1.25-127	4.9
CMF-BT50-32-160-2°	2	31.5	40.2	2°	160	125	M8-1.25-127	4.9
● CMF-BT50-32-195	1	31.2	-	-	195	160	M8-1.25-162L	5.1
CMF-BT50-32-195-2°	2	31.5	42.7	2°	195	160	M8-1.25-162L	5.1
CMF-BT50-32-230-2°	2	31.5	45.1	2°	230	195	M8-1.25-197L	5.8
CMF-BT50-32-270	1	31.2	-	-	270	235	M8-1.25-237L	6.4
CMF-BT50-32-270-2°	2	31.5	47.9	2°	270	235	M8-1.25-237L	6.4
CMF-BT50-32-310	1	31.2	-	-	310	275	M8-1.25-277L	6.9
CMF-BT50-32-310-2°	2	31.5	50.7	2°	310	275	M8-1.25-277L	6.9

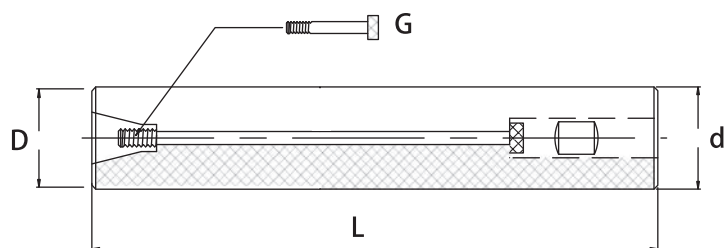
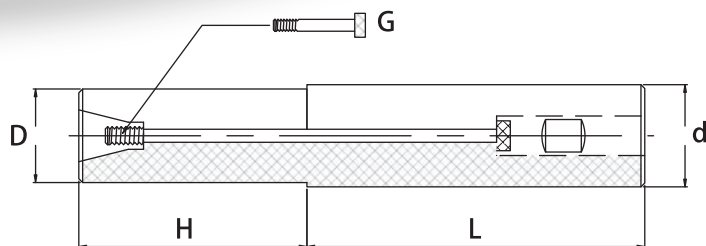
Ordering Code	Fig. No.	Dimensions / mm					Connecting Screw	KG
		d	D	θ	L	L1		
CMF-BT50-35-135	1	34.2	-	-	135	100	M10-1.5-097L	5.2
CMF-BT50-35-160	2	34.2	-	-	160	125	M10-1.5-127L	5.2
CMF-BT50-35-160-2°	2	34.5	43.3	2°	160	125	M10-1.5-127L	5.2
CMF-BT50-35-175-2°	2	34.5	44.3	2°	175	140	M10-1.5-137L	5.4
CMF-BT50-35-185	1	34.2	-	-	185	150	M10-1.5-152L	5.6
CMF-BT50-35-195-2°	2	34.5	45.7	2°	195	160	M10-1.5-162L	5.7
CMF-BT50-35-215-2°	2	34.5	47	2°	215	180	M10-1.5-177L	5.9
CMF-BT50-35-220-2°	2	34.5	47.4	2°	220	185	M10-1.5-187L	6
CMF-BT50-35-225	1	34.2	-	-	225	190	M10-1.5-192L	6
CMF-BT50-35-245-2°	2	34.2	49.2	2°	245	210	M10-1.5-212L	6.4
CMF-BT50-35-255	1	34.2	-	-	255	220	M10-1.5-222L	6.6
CMF-BT50-35-255-2°	2	34.5	49.5	2°	255	220	M10-1.5-222L	6.6
CMF-BT50-35-310-2°	2	34.5	53.7	2°	310	275	M10-1.5-272L	7.3
☀ CMF-BT50-40-090	1	39	-	-	90	55	M10-1.5-052L	4.4
☀ CMF-BT50-40-115	1	39	-	-	115	80	M10-1.5-077L	4.6
CMF-BT50-40-115-2°	2	39.5	45	2°	115	80	M10-1.5-077L	4.6
☀ CMF-BT50-40-135	1	39	-	-	135	100	M10-1.5-097L	4.7
CMF-BT50-40-135-2°	2	39.5	46.5	2°	135	100	M10-1.5-097L	4.7
☀ CMF-BT50-40-175	1	39	-	-	175	140	M10-1.5-137L	5.3
CMF-BT50-40-175-2°	2	39.5	49.3	2°	175	140	M10-1.5-137L	5.3
CMF-BT50-40-215-2°	2	39.5	52	2°	215	180	M10-1.5-177L	6.1
☀ CMF-BT50-40-255	1	39	-	-	255	220	M10-1.5-217L	7
CMF-BT50-40-255-2°	2	39.5	54.9	2°	255	220	M10-1.5-217L	7
CMF-BT50-40-295	1	39	-	-	295	260	M10-1.5-262L	7.7
CMF-BT50-40-310-2°	2	39.5	58.7	2°	310	275	M10-1.5-272L	8
CMF-BT50-42-145-2°	2	39.5	47.2	2°	145	110	M10-1.5-112L	4.9
☀ CMF-BT50-50-090	1	49	-	-	90	55	M12-1.75-053L	4.7
☀ CMF-BT50-50-120	1	49	-	-	120	85	M12-1.75-083	5.2
CMF-BT50-50-120-2°	2	49.5	55.4	2°	120	85	M12-1.75-083	5.2
☀ CMF-BT50-50-150	1	49	-	-	150	115	M12-1.75-113L	5.8
CMF-BT50-50-150-2°	2	49.5	57.5	2°	150	115	M12-1.75-113L	5.8
☀ CMF-BT50-50-180	1	49	-	-	180	145	M12-1.75-143L	6
CMF-BT50-50-180-2°	2	49.5	59.6	2°	180	145	M12-1.75-143L	6
☀ CMF-BT50-50-210	1	49	-	-	210	175	M12-1.75-173L	6.4
CMF-BT50-50-210-2°	2	49.5	61.7	2°	210	175	M12-1.75-173L	7.2
CMF-BT50-50-240-2°	2	49.5	63.8	2°	240	205	M12-1.75-203L	7.7
☀ CMF-BT50-50-300	1	49	-	-	300	265	M12-1.75-263L	8
☀ CMF-BT50-64-070	1	64	-	-	70	35	M12-1.75-033L	4.8
☀ CMF-BT50-64-145	1	64	-	-	145	110	M12-1.75-108L	6.5
☀ CMF-BT50-64-205	1	64	-	-	205	170	M12-1.75-168L	8.5



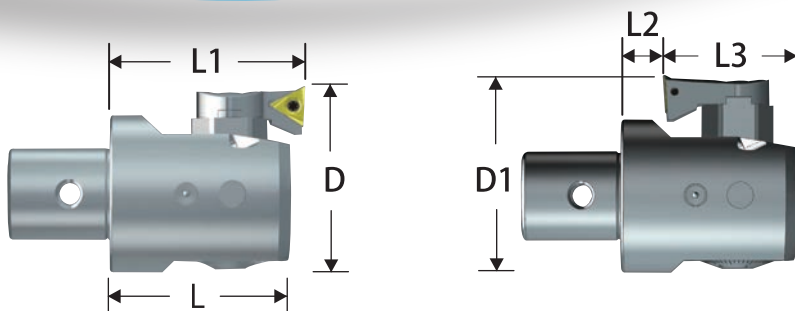
TBR-C

後拉搪刀桿

Straight shank for TBR / TRBH



Ordering Code	Dimensions / mm				Connecting Screw	KG
	D	H	L	d		
TBR-C20-4D	19	58	70	20	M6-1.0-115L	0.3
TBR-C25-4D	24	75	80	25	M8-1.25-135L	0.55
TBR-C32-4D	31	100	90	32	M8-1.25-170L	1.1
TBR-C32-3.5D-M10	32	-	190	32	M10-1.5-165L	1.2

**BWN****側固式精搪頭****Side-lock micro heads****New**1 刻度 0.01mm 中再加上 1 μ m 游標 1 μ m veriner is add to the scale of 0.01mm increments

新的設計使加工精度更精準 The New design achieves stable machining accuracy

增加標準化背搪加工，擴展通用性 back boring available as standard , expanding versatility

精 搪 頭 Boring Head	延伸搪刀座 Extension Boring Holder	搪孔範圍 $\varnothing D$ Boring Range	L	L1	反搪孔範圍 $\varnothing D1$ Reverse Boring Range	L2	L3
BWN20-CK1	—	20 – 26	33.25	31	—	10.7	20.3
	BNH1-M	25 – 31			30 – 31		
	BNH1-L	30 – 36			30 – 36		
BWN25-CK2	—	25 – 33	34.75	31	—	8.6	22.4
	BNH2-M	32 – 40			32 – 40		
	BNH2-L	39 – 47			39 – 47		
BWN32-CK3	—	32 – 42	38.5	35	—	8.5	26.5
	BNH3-M	41 – 51			46 – 51		
	BNH3-L	50 – 60			50 – 60		
BWN41-CK4	—	41 – 54	44.5	40	—	5.4	34.6
	BNH4-M	50 – 63			53 – 63		
	BNH4-L	61 – 74			61 – 74		
BWN53-CK5	—	53 – 70	57.25	53	61 – 70	13.7	39.3
	BNH5-M	65 – 82			65 – 82		
	BNH5-L	78 – 95			78 – 95		
BWN68-CK6	—	68 – 100	70.3	67	80 – 100	18.6	48.4
	BNH6-M	94 – 126			94 – 126		
	BNH6-L	118 – 150			118 – 153		
BWN100-CK6	—	100 – 153	70.3	67	108 – 153	18.6	48.4
	BNH6-M	126 – 179			126 – 179		
	BNH6-L	150 – 203			150 – 203		

* 延伸搪刀座為選購品 BNH_-M and BNH_-L must be ordered separately if required

* 背搪加工時，旋轉方向為反轉 back boring the rotation direction will be reversed

延伸搪刀座
Extension Boring Holder

BNH_-M



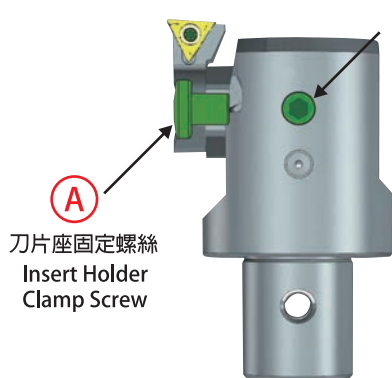
BNH_-L



BWN

精搪頭配件

Accessories for Fine Boring system



(A)

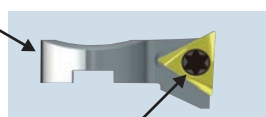
刀片座固定螺絲
Insert Holder
Clamp Screw

(B)

六角柱固定螺絲
Tool Carrier Clamp Screw

(C)

刀片座
Cutting Insert Holder



(D)

刀片螺絲
Insert Screw

精 搪 頭 Boring Head	(C) 刀 片 座 Cutting Insert Holder		(D) 刀片螺絲 Insert Screw	板手 Wrench
BWN20-CK1	BN20	TPG0802	Y-BN-A M2-0.4	T7
BWN25-CK1	BN25			
BWN32-CK3	BN32			
BWN41-CK4	BN41-P	TPG1103	Y-BN-B M3-0.5	T10
	BN41-C	TCG1102	Y-BN-C M2.5-0.45	T7
BWN53-CK5	BN53-P	TPG1103	Y-BN-B M3-0.5	T10
	BN53-C	TCG1102	Y-BN-C M2.5-0.45	T7
BWN68-CK6	BN68-P	TPG1103	Y-BN-B M3-0.5	T10
	BN68-C	TCG1102	Y-BN-C M2.5-0.45	T7
BWN100-CK6	BN68-P	TPG1103	Y-BN-B M3-0.5	T10
	BN68-C	TCG1102	Y-BN-C M2.5-0.45	T7

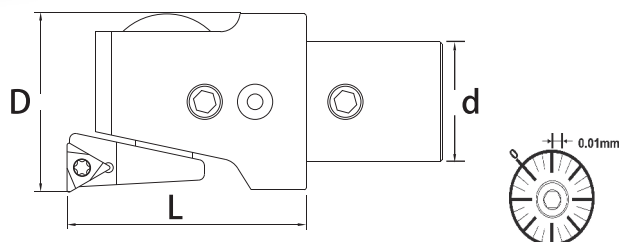
For BWN Head	(A)	(B)
BWN20	Y-BN-01S	Y-BN-20
BWN20+BN1-M	Y-BN-01M	
BWN20+BN1-L	Y-BN-01L	
BWN25	Y-BN-02S	Y-BN25
BWN25+BN2-M	Y-BN-02M	
BWN25+BN2-L	Y-BN-02L	
BWN32	Y-BN-03S	Y-BN32
BWN32+BN3-M	Y-BN-03M	
BWN32+BN3-L	Y-BN-03L	

For BWN Head	(A)	(B)
BWN41	Y-BN-04S	Y-BN4 1
BWN41+BN4-M	Y-BN-04M	
BWN41+BN4-L	Y-BN-04L	
BWN53	Y-BN-05S	Y-BN5 3
BWN53+BN5-M	Y-BN-05M	
BWN53+BN5-L	Y-BN-05L	
BWN68	Y-BN-06S	Y-BN6 8
BWN68+BN6-M	Y-BN-06M	
BWN68+BN6-L	Y-BN-06L	
BWN100	Y-BN-06S	Y-BN6 8
BWN100+BN6-M	Y-BN-06M	
BWN100+BN6-L	Y-BN-06L	

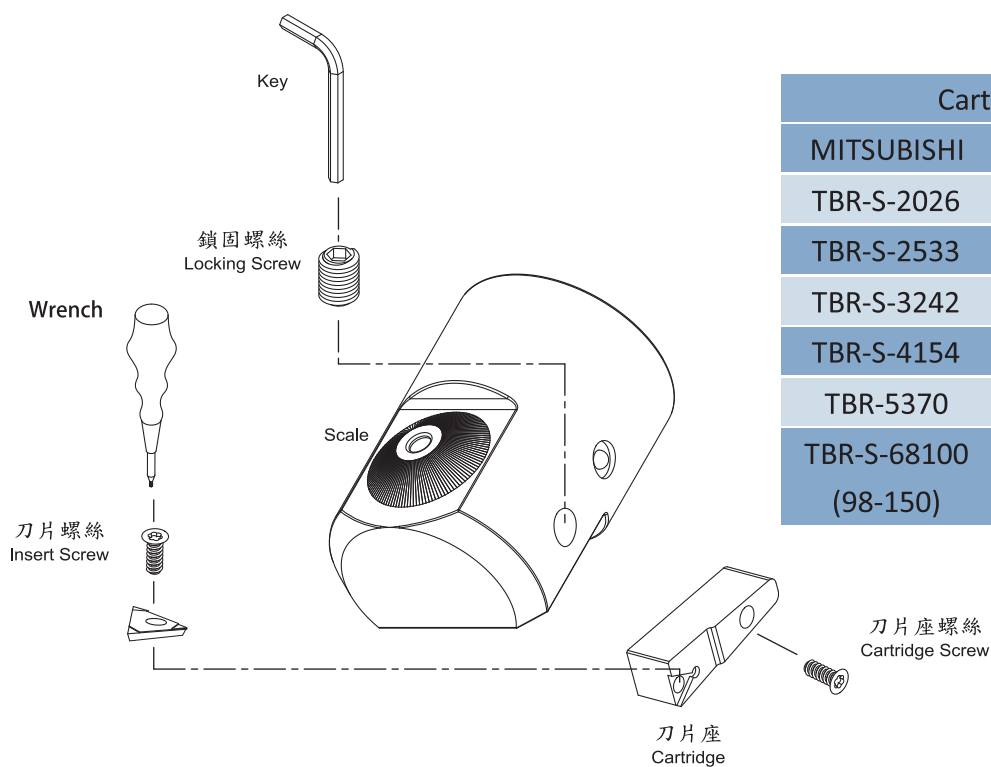


TBRA

側固式精搪頭 Side-lock micro heads



Ordering Code	Dimensions / mm			Insert	Insert Screw	Wrench	Key (mm)	KG
	D	d	L	MITSUBISHI / SUMITOMO				
TBRA-20	20 - 26	CK1	32	TCGT0601 / TPGT0802	Y-TBR20-1 / Y-TBR20-2 M2-0.4	T7/T6	2.0	0.2
TBRA-25	25 - 33	CK2	35	TCGT0601 / TPGT0802	Y-TBR20-1 / Y-TBR20-2 M2-0.4	T7/T6	2.5	0.22
TBRA-32	32 - 42	CK3	40	TPGX0802 / TPGT0802	Y-TBR32-1 / Y-TBR20-2 M2-0.4	T8/T6	3.0	0.32
TBRA-41	41 - 54	CK4	45	TPGX0802 / TCGT1102	Y-TBR32-1 / Y-TBR41-2 M2-0.4 / M2.5-0.45	T8/T7	4.0	0.6
TBRA-53	53 - 70	CK5	55	TPGX1103 / TCGT1102	Y-TBR53-1 / Y-TBR-41-2 M3-0.5 / M2.5-0.45	T10/T7	5.0	1.0
TBRA-68	68 - 100	CK6	66	TPGX1103 / TCGT1102	Y-TBR53-1 / Y-TBR-41-2 M3-0.5 / M2.5-0.45	T10/T7	5.0	2.0
TBRA-98	98 - 150	CK6	67	TPGX1103 / TCGT1102	Y-TBR53-1 / Y-TBR-41-2 M3-0.5 / M2.5-0.45	T10/T7	5.0	2.8



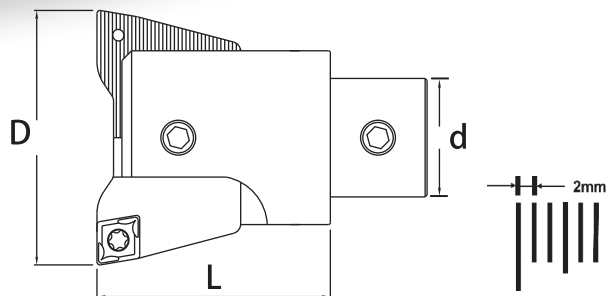
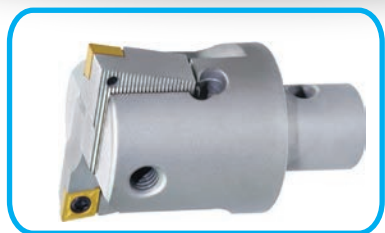
Cartridge		Cartridge Screw
MITSUBISHI	SUMITOMO	
TBR-S-2026	TBR-S-2026-1	Y-TBR-SL-20
TBR-S-2533	TBR-S-2533-1	Y-TBR-SL-25
TBR-S-3242	TBR-S-3242-1	Y-TBR-SL-32
TBR-S-4154	TBR-S-4154-1	Y-TBR-SL-41
TBR-S-5370	TBR-S-5370-1	Y-TBR-SL-53
TBR-S-68100 (98-150)	TBR-S-68100-1 (98-150)	Y-TBR-SL-68



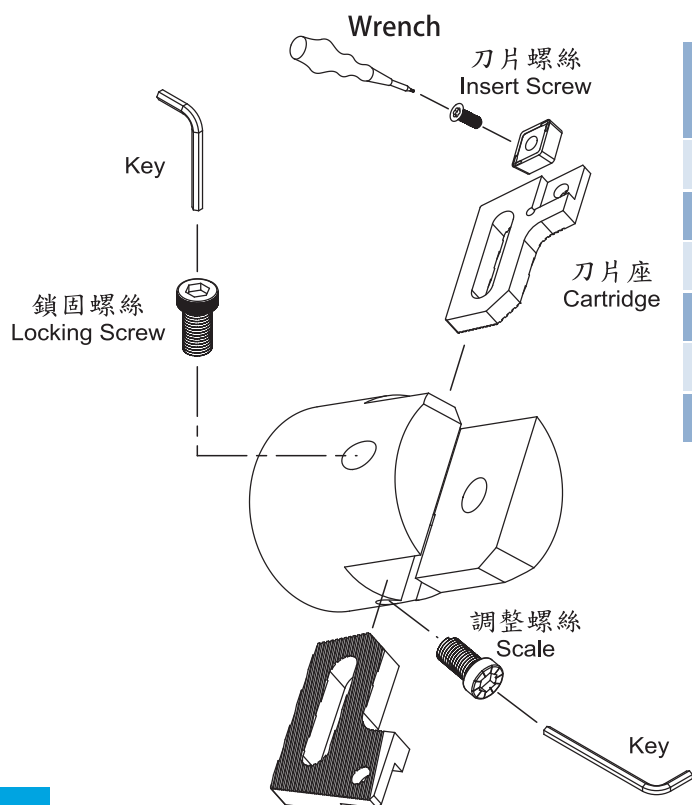
TRBHA-CC 側固式粗搪頭

Side-lock rough boring heads

P M K N H



Ordering Code	Dimensions / mm				Insert Screw	Wrench	KEY (mm)	KG
	D	d	L					
TRBHA-C-25	25 - 33	CK2	35	CCMT0602	Y-TRBH-C-2532 M2.5-0.45	T8	4	0.15
TRBHA-C-32	32 - 42	CK3	40	CCMT0602	Y-TBRH-C-2532 M2.5-0.45	T8	5	0.24
TRBHA-C-41	41 - 54	CK4	50	CCMT09T3	Y-TRBH-C-4153 M4-0.7	T15	6	0.45
TRBHA-C-53	53 - 70	CK5	61	CCMT09T3	Y-TRBH-C-4153 M4-0.7	T15	6	0.7
TRBHA-C-68	68 - 91	CK6	75	CCMT1204	Y-TRBH-C-6890 M5-0.8	T20	8	1.2
TRBHA-C-90	90 - 122	CK6	75	CCMT1204	Y-TRBH-C-6890 M5-0.8	T20	6	2.2



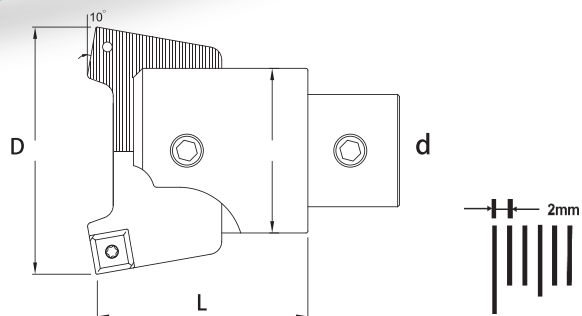
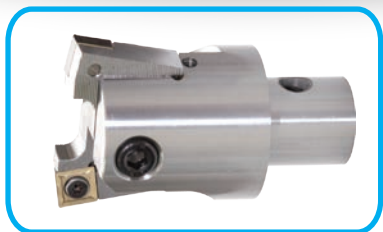
Cartridge	Locking Screw	Scale
TRBH-CC-25	Y-TRBH-SL-25	Y-TRBH-AD-25
TRBH-CC-32	Y-TRBH-SL-32	Y-TRBH-AD-32
TRBH-CC-41	Y-TRBH-SL-41	Y-TRBH-AD-41
TRBH-CC-53	Y-TRBH-SL-53	Y-TRBH-AD-53
TRBH-CC-68	Y-TRBH-SL-68	Y-TRBH-AD-68
TRBH-CC-90	Y-TRBH-SL-90	Y-TRBH-AD-90



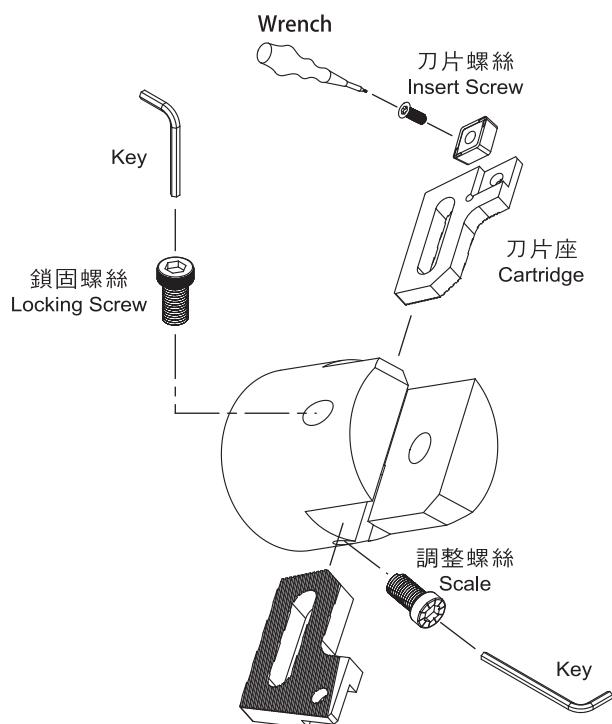
TRBHA-SC 側固式粗搪頭

Side-lock rough boring heads

P M K H



Ordering Code	Dimensions / mm				Insert Screw	Wrench	KEY (mm)	KG
	D	d	L					
TRBHA-S-25	25 – 33	CK2	35	SPMT0602	Y-TRBH-S-25 M2-0.45	T8	4	0.15
TRBHA-S-32	32 – 42	CK3	40	SCMT0702	Y-TRBH-S-32 M3-0.5	T10	5	0.24
TRBHA-S-41	41 – 54	CK4	50	SCMT09T3	Y-TRBH-S-4153 M4-0.7	T15	6	0.45
TRBHA-S-53	53 – 70	CK5	61	SCMT09T3	Y-TRBH-S-4153 M4-0.7	T15	6	0.7
TRBHA-S-68	68 – 91	CK6	75	SCMT1204	Y-TRBH-S-6890 M5-0.8	T20	8	1.2
TRBHA-S-90	90 – 122	CK6	75	SCMT1204	Y-TRBH-S-6890 M5-0.8	T20	6	2.2



Cartridge	Locking Screw	Scale
TRBH-SC-25	Y-TRBH-SL-25	Y-TRBH-AD-25
TRBH-SC-32	Y-TRBH-SL-32	Y-TRBH-AD-32
TRBH-SC-41	Y-TRBH-SL-41	Y-TRBH-AD-41
TRBH-SC-53	Y-TRBH-SL-53	Y-TRBH-AD-53
TRBH-SC-68	Y-TRBH-SL-68	Y-TRBH-AD-68
TRBH-SC-90	Y-TRBH-SL-90	Y-TRBH-AD-90



CMFA-BT40

側固搪刀柄

Side-lock BT40 arbor

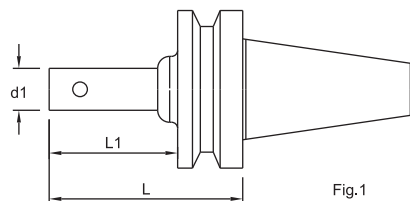


Fig.1

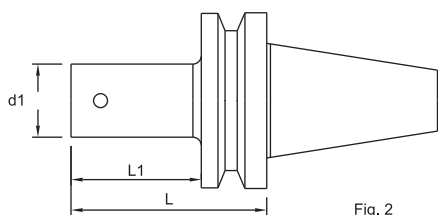


Fig. 2

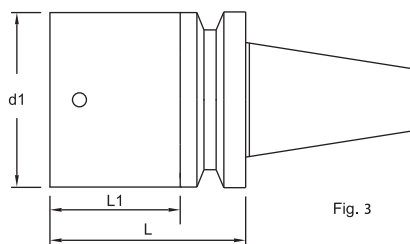
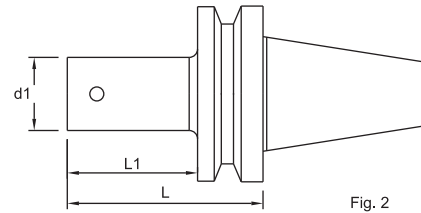
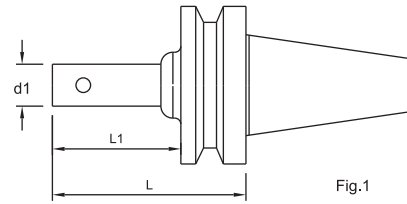


Fig. 3

Ordering code	Dimensions / mm				Fig. No.	Key (mm)	KG
	d1	L	L1	CK NO.			
CMFA-BT40-20-4D	19	87	47	CK1	1	2	1.2
CMFA-BT40-20-6D	19	127	87	CK1	1	2	1.3
CMFA-BT40-25-4D	24	88	63	CK2	2	2.5	1.3
CMFA-BT40-25-6D	24	138	113	CK2	2	2.5	1.5
CMFA-BT40-32-4D	31	113	88	CK3	2	3	1.5
CMFA-BT40-32-6D	31	177	152	CK3	2	3	1.9
CMFA-BT40-41-2.5D	39	90	65	CK4	2	4	1.6
CMFA-BT40-41-4D	39	142	117	CK4	2	4	2.1
CMFA-BT40-41-6D	39	224	199	CK4	2	4	3.0
CMFA-BT40-53-2.5D	50	110	85	CK5	2	5	2.2
CMFA-BT40-53-4D	50	180	155	CK5	2	5	3.2
CMFA-BT40-53-6D	50	286	261	CK5	2	5	4.9
CMFA-BT40-68-2.5D	64	132	107	CK6	3	6	3.5
CMFA-BT40-68-4D	64	227	202	CK6	3	6	5.7
CMFA-BT40-68-6D	64	363	338	CK6	3	6	9.0



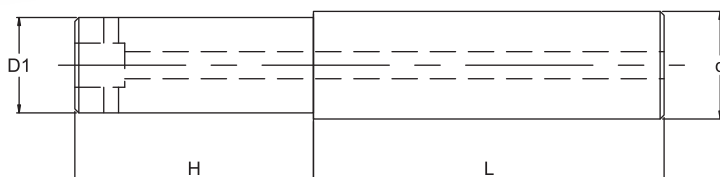
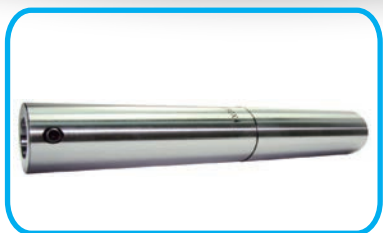
Ordering code	Dimensions / mm				Fig. No.	Key (mm)	KG
	d1	L	L1	CK NO.			
CMFA-BT50-20-4D	19	97	47	CK1	1	2	4.0
CMFA-BT50-20-6D	19	137	87	CK1	1	2	4.1
CMFA-BT50-25-4D	24	98	63	CK2	2	2.5	4.1
CMFA-BT50-25-6D	24	148	113	CK2	2	2.5	4.2
CMFA-BT50-32-4D	31	123	88	CK3	2	3	4.3
CMFA-BT50-32-6D	31	187	150	CK3	2	3	4.8
CMFA-BT50-41-2.5D	39	100	65	CK4	2	4	4.2
CMFA-BT50-41-4D	39	152	117	CK4	2	4	4.8
CMFA-BT50-41-6D	39	234	199	CK4	2	4	5.6
CMFA-BT50-53-2.5D	50	120	85	CK5	2	5	4.8
CMFA-BT50-53-4D	50	190	155	CK5	2	5	6.0
CMFA-BT50-53-6D	50	296	261	CK5	2	5	7.5
CMFA-BT50-68-2.5D	64	142	107	CK6	2	6	6.2
CMFA-BT50-68-4D	64	237	202	CK6	2	6	8.4
CMFA-BT50-68-6D	64	373	338	CK6	2	6	11.8



TBRA-C

側固直柄搪刀柄

Straight shank for TBRA



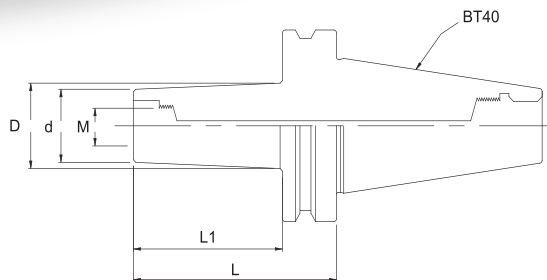
Ordering Code	Dimensions / mm				Key (mm)	KG
	D	H	L	d		
TBRA-C20-4D	19	58	70	20	2	0.3
TBRA-C25-4D	24	75	80	25	2.5	0.55
TBRA-C32-4D	31	100	90	32	3	1.1



HB-BT40

鎖牙式刀柄

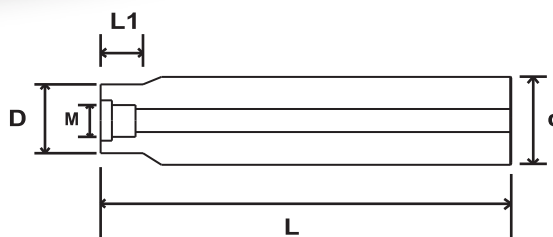
Screw-lock BT40 arbor



Ordering code	Dimensions / mm					KG
	D	d	L	L1	M	
HB-BT40-1630	15	14	58	30	M8	1.1
HB-BT40-1650	17	14	78	50	M8	1.2
HB-BT40-2030	19	18	58	30	M10	1.2
HB-BT40-2050	21	18	78	50	M10	1.25
HB-BT40-2530	24	21	58	30	M12	1.2
HB-BT40-2550	24	21	78	50	M12	1.25
HB-BT40-2570	26	21	98	70	M12	1.4
HB-BT40-3030	34	29	58	30	M16	1.25
HB-BT40-3050	29	29	78	50	M16	1.3



KD 直柄鎖牙刀桿(合金鋼) Screw-lock straight shank
(Alloy Tool Steel)



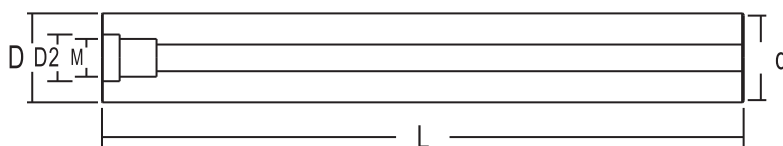
Ordering code	Dimensions / mm				
	D	d	L1	L	M
KD-1616B-150-M08	14	16	10	150	M8
KD-2020B-150-M10	18	20	12	150	M10
KD-2525B-200-M12	23	25	15	200	M12
KD-3232B-200-M16	29	32	18	200	M16



SCS

鎢鋼抗震刀柄

Tungsten Carbide Anti-Vibration Holder



Ordering code	Dimensions / mm				
	D	d	L	D2	M
SCS-10-10-100	10	10	100	5.5	M5
SCS-10-10-150	10	10	150	5.5	M5
SCS-12-12-100	12	12	100	6.5	M6
SCS-12-12-150	12	12	150	6.5	M6
SCS-12-12-200	12	12	200	6.5	M6
SCS-16-16-100	16	16	100	8.5	M8
SCS-16-16-150	16	16	150	8.5	M8
SCS-16-16-200	16	16	200	8.5	M8
SCS-16-16-250	16	16	250	8.5	M8
SCS-16-16-300	16	16	300	8.5	M8
SCS-20-20-100	20	20	100	10.5	M10
SCS-20-20-150	20	20	150	10.5	M10
SCS-20-20-200	20	20	200	10.5	M10
SCS-20-20-250	20	20	250	10.5	M10
SCS-20-20-300	20	20	300	10.5	M10
SCS-20-20-350	20	20	350	10.5	M10
SCS-25-25-150	25	25	150	12.5	M12
SCS-25-25-200	25	25	200	12.5	M12
SCS-25-25-250	25	25	250	12.5	M12
SCS-25-25-300	25	25	300	12.5	M12
SCS-32-32-150	32	32	150	17	M16
SCS-32-32-200	32	32	200	17	M16
SCS-32-32-250	32	32	250	17	M16
SCS-32-32-300	32	32	300	17	M16
SCS-32-32-400	32	32	400	17	M16



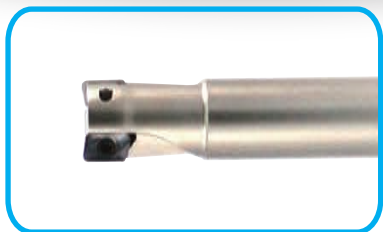
SEC-06A

側銑快削刀

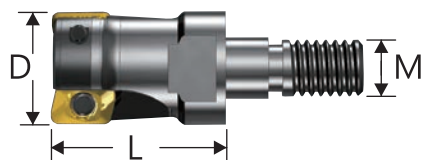
Shoulder milling cutters

P

M



Ordering Code		Dimensions / mm				Flutes		Screw	Wrench
Standard	With Coolant	D	d	L1	L				
SEC-06A-1002-10B-080	SEC-06A-1002-10B-080-C	10	10	20	80	2	ADMT0602 XOMX0602	Y-SEC06A M1.8-0.35	IP6
SEC-06A-1102-10B-080	SEC-06A-1102-10B-080-C	11	10	18	80	2			
SEC-06A-1202-12B-080	SEC-06A-1202-12B-080-C	12	12	18	80	2			
SEC-06A-1202-12B-120		12	12	18	120	2			
SEC-06A-1302-12B-120		13	12	18	120	2			
SEC-06A-1604-16B-150		16	16	20	150	4			
SEC-06A-1704-16B-150		17	16	20	150	4			
SEC-06A-2104-20B-150		21	20	20	150	4			



Ordering Code		Dimensions / mm			Flutes		Screw	Wrench
Standard	With Coolant	D	M	L				
SEC-06A-1002-M05		10	18	M05	2	ADMT0602 XOMX0602	Y-SEC06A M1.8-0.35	IP6
SEC-06A-1102-M05		11	18	M05	2			
SEC-06A-1202-M06	SEC-06A-1202-M06-C	12	18	M06	2			
SEC-06A-1203-M06	SEC-06A-1203-M06-C	12	18	M06	3			
SEC-06A-1302-M06		13	18	M06	2			
SEC-06A-1303-M06	SEC-06A-1303-M06-C	13	18	M06	3			
SEC-06A-1604-M08		16	25	M08	4			
SEC-06A-1704-M08		17	25	M08	4			
SEC-06A-2104-M10		21	28	M10	4			



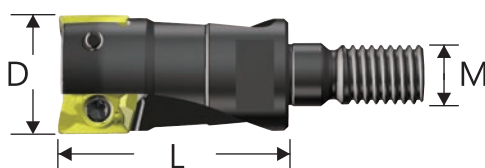
SEC09A

側銑快削刀

Shoulder milling cutters



Ordering Code	Dimensions / mm			Flutes		Screw	Wrench
	D	d	L				
SEC-09A-1602-16B-150	16	16	150	2	XOMX0903	Y-SEC09A M2.5-0.45	IP8
SEC-09A-1702-16B-150	17	16	150	2			
SEC-09A-2003-20B-150	20	20	150	3			
SEC-09A-2103-20B-150	21	20	150	3			
SEC-09A-2503-25B-150	25	25	150	3			
SEC-09A-2603-25B-150	26	25	150	3			



Ordering Code	Dimensions / mm			Flutes		Screw	Wrench
	D	L	M				
SEC-09A-1702-M08	17	30	M08	2	XOMX0903	Y-SEC09A M2.5-0.45	IP8
SEC-09A-2103-M10	21	30	M10	3			
SEC-09A-2603-M12	26	35	M12	3			



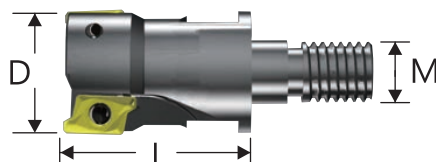
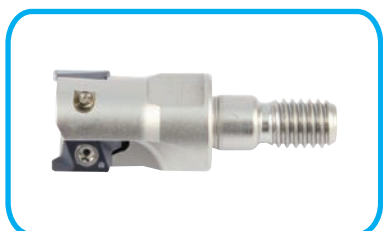
SAF07R

側銑快削刀

Shoulder milling cutters



Ordering Code	Dimensions / mm			Flutes		Screw	Wrench
	D	d	L				
SAF07R-0801-10B-100	08	10	100	1	RT0702	Y-SAF07R M2-0.4	IP6
SAF07R-1002-10B-150	10	10	150	2			
SAF07R-1102-10B-150	11	10	150	2			
SAF07R-1202-12B-150	12	12	150	2			
SAF07R-1302-12B-150	13	12	150	2			
SAF07R-1603-16B-150	16	16	150	3			
SAF07R-1703-16B-150	17	16	150	3			
SAF07R-2004-20B-150	20	20	150	4			
SAF07R-2104-20B-150	21	20	150	4			



Ordering Code	Dimensions / mm			Flutes		Screw	Wrench
	D	M	L				
SAF07R-1002-M05	10	M05	18	2	RT0702	Y-SAF07R M2-0.4	IP6
SAF07R-1102-M05	11	M06	18	2			
SAF07R-1202-M06	12	M06	18	2			
SAF07R-1302-M06	13	M06	18	2			
SAF07R-1603-M08	16	M08	25	3			
SAF07R-1703-M08	17	M08	25	3			
SAF07R-2104-M10	21	M10	28	4			



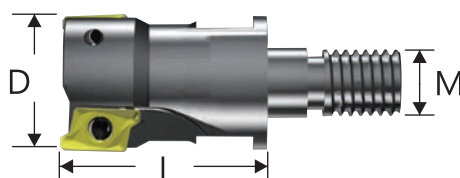
SAF10R

側銑快削刀

Shoulder milling cutters



Ordering Code	Dimensions / mm			Flutes		Screw	Wrench
	D	d	L				
SAF10R-1602-16B-150	16	16	150	2	RT1003	Y-SAF10R M2.5-0.45	IP8
SAF10R-1702-16B-150	17	16	150	2			
SAF10R-2002-20B-150	20	20	150	2			
SAF10R-2003-20B-150	20	20	150	3			
SAF10R-2102-20B-150	21	20	150	2			
SAF10R-2103-20B-150	21	20	150	3			
SAF10R-2503-25B-150	25	25	150	3			
SAF10R-2603-25B-150	26	25	150	3			
SAF10R-3205-32B-150	32	32	150	5			
SAF10R-3505-32B-150	35	32	150	5			



Ordering Code	Dimensions / mm			Flutes		Screw	Wrench
	D	M	L				
SAF10R-1702-M08	17	M08	25	2	RT1003	Y-SAF10R M2.5-0.45	IP8
SAF10R-2103-M10	21	M10	30	3			
SAF10R-2603-M12	26	M12	35	3			
SAF10R-2604-M12	26	M12	35	4			
SAF10R-3305-M16	33	M16	45	5			
SAF10R-3504-M16	35	M16	45	4			



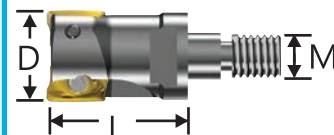
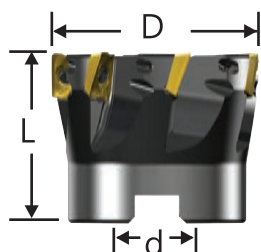
SAN11X

側銑快削刀

Shoulder milling cutters



Ordering Code	Dimensions / mm				Flutes		Screw	Wrench
	D	d	L1	L				
SAN11X-1602-16B-150	16	16	25	150	2	XPKT11T3 R390-11T3	Y-SAN11X M2.5-0.45	IP8
SAN11X-1702-16B-150	17	16	25	150	2			
SAN11X-1802-16B-150	18	16	25	150	2			
SAN11X-2002-20B-150	20	20	25	150	2			
SAN11X-2003-20B-150	20	20	25	150	3			
SAN11X-2102-20B-150	21	20	25	150	2			
SAN11X-2103-20B-150	21	20	25	150	3			
SAN11X-2202-20B-150	22	20	25	150	2			
SAN11X-2203-20B-150	22	20	25	150	3			
SAN11X-2504-25B-150	25	25	40	150	4			
SAN11X-2604-25B-150	26	25	40	150	4			
SAN11X-3004-25B-150	30	25	40	150	4			
SAN11X-3205-32B-150	32	32	40	150	5			
SAN11X-3505-32B-150	35	32	40	150	5			
SAN11X-4006-32B-150	40	32	40	150	6			
SAN11X-050R07-22.0	50	22.0	-	40	7			
SAN11X-063R08-25.4	63	25.4	-	50	8			

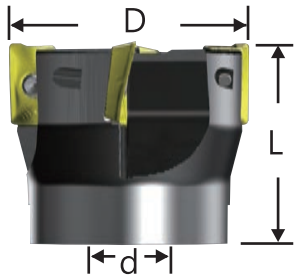
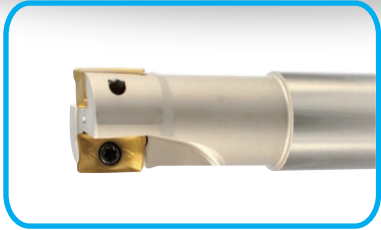


Ordering Code	Dimensions / mm			Flutes		Screw	Wrench
	D	L	M				
SAN11X-1702-M08	17	25	M08	2	XPKT11T3 R390-11T3	Y-SAN11X M2.5-0.45	IP8
SAN11X-2103-M10	21	30	M10	3			
SAN11X-2604-M12	26	35	M12	4			
SAN11X-3004-M12	30	40	M12	4			
SAN11X-3304-M16	33	45	M16	4			
SAN11X-3505-M16	35	45	M16	5			



SAN17X 側銑快削刀

Shoulder milling cutters



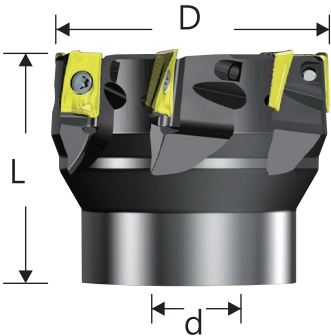
Ordering Code	Dimensions / mm				Flutes		Screw	Wrench
	D	d	L1	L				
SAN17X-2502-25B-150	25	25	50	150	2	R390-1704	Y-SAN17X M3.5-0.6	IP15
SAN17X-3002-25B-150	30	25	40	150	2			
SAN17X-3203-32B-150	32	32	40	150	3			
SAN17X-3503-32B-150	35	32	40	150	3			
SAN17X-4003-32B-150	40	32	40	150	3			
SAN17X-050R04-22.0	50	22.0	-	40	4			
SAN17X-063R05-25.4	63	25.4	-	50	5			
SAN17X-080R06-25.4	80	25.4	-	50	6			
SAN17X-100R07-31.75	100	31.75	-	50	7			



SUM12A

側銑快削刀

Shoulder milling cutters

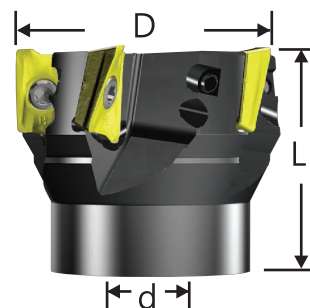


Ordering Code	Dimensions / mm			Flutes		Screw	Wrench
	D	d	L				
SUM12A-1602-16B-150	16	16	150	2	AXMT1235	Y-SUM12A M3-0.5	IP8
SUM12A-1702-16B-150	17	16	150	2			
SUM12A-2003-20B-150	20	20	150	3			
SUM12A-2103-20B-150	21	20	150	3			
SUM12A-2504-25B-150	25	25	150	4			
SUM12A-2604-25B-150	26	25	150	4			
SUM12A-3004-25B-150	30	25	150	4			
SUM12A-3205-32B-150	32	32	150	5			
SUM12A-4006-32B-150	40	32	150	6			
SUM12A-050R07-22.0	50	22.0	40	7			
SUM12A-063R08-25.4	63	25.4	50	8			

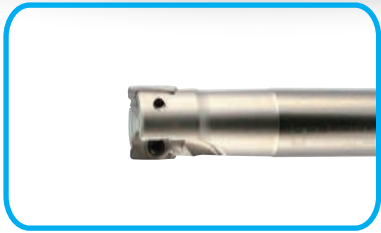


SUM17A 側銑快削刀

Shoulder milling cutters



Ordering Code	Dimensions / mm				Flutes		Screw	Wrench
	D	d	L1	L				
SUM17A-2502-25B-150	25	25	33	150	2	AXMT1705	Y-SUM17A M4-0.7	IP15
SUM17A-2802-25B-150	28	25	33	150	2			
SUM17A-3003-25B-150	30	25	35	150	3			
SUM17A-3203-32B-150	32	32	40	150	3			
SUM17A-3503-32B-150	35	32	40	150	3			
SUM17A-4004-32B-150	40	32	40	150	4			
SUM17A-050R05-22.0	50	22.0	-	40	5			
SUM17A-063R06-25.4	63	25.4	-	50	6			
SUM17A-080R07-25.4	80	25.4	-	50	7			
SUM17A-100R08-31.75	100	31.75	-	50	8			

**CER11X****側銑快削刀****Shoulder milling cutters****P****M**

Ordering code	Dimensions / mm				Flutes		Screw	Wrench
	D	L1	d	L				
CER11X-1602-16B-150	16	32	16	150	2	XDKT11T3	Y-CER11X M2.5-0.45	IP8
CER11X-1702-16B-150	17	32	16	150	2			
CER11X-2002-20B-150	20	32	20	150	2			
CER11X-2102-20B-150	21	32	20	150	2			

**CER15X****側銑快削刀****Shoulder milling cutters****P****M**

Ordering code	Dimensions / mm				Flutes		Screw	Wrench
	D	L1	d	L				
CER15X-2502-25B-150	25	32	25	150	2	XDKT1505	Y-CER15X M3.5-0.6	IP15
CER15X-2502-25B-200	25	32	25	200	2			
CER15X-2602-25B-150	26	32	25	150	2			
CER15X-2602-25B-200	26	32	25	200	2			
CER15X-3203-32B-150	32	40	32	150	3			
CER15X-3203-32B-200	32	40	32	200	3			
CER15X-3303-32B-150	33	40	32	150	3			
CER15X-3303-32B-200	33	40	32	200	3			



BIC

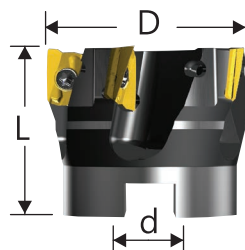
側銑快削刀

Shoulder milling cutters

P

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K



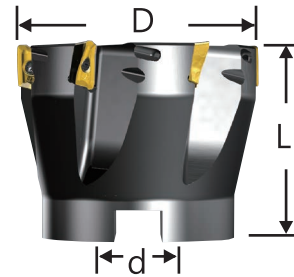
Ordering code	Dimensions / mm				Flutes		Screw	Wrench
	D	L1	d	L				
BIC16A-1602-16B-150	16	25	16	150	2	ARG1609	Y-BIC16A	T8
BIC16A-1702-16B-150	17	25	16	150	2		M2.5-0.45	
BIC20A-2003-20B-150	20	30	20	150	3	ARG2009	Y-BIC20A	T8
BIC20A-2103-20B-150	21	30	20	150	3		M2.5-0.45	
BIC25A-2503-25B-150	25	35	25	150	3	ARG2509	Y-BIC25A	T8
BIC25A-2503-25B-200	25	35	25	200	3			
BIC25A-2603-25B-150	26	35	25	150	3			
BIC25A-2603-25B-200	26	35	25	200	3			
BIC32A-3203-32B-150	32	35	32	150	3	ARG3211	Y-BIC32A	T15
BIC32A-3203-32B-200	32	35	32	200	3			
BIC32A-3303-32B-150	33	35	32	150	3			
BIC32A-3303-32B-200	33	35	32	200	3			
BIC40A-4004-32B-150	40	40	32	150	4	ARG4011	Y-BIC40A	T15
BIC40A-5005-32B-150	50	40	32	150	5			
BIC40A-050R05-22.0	50	-	22.0	40	5			



KYO11B

側銑快削刀

Shoulder milling cutters



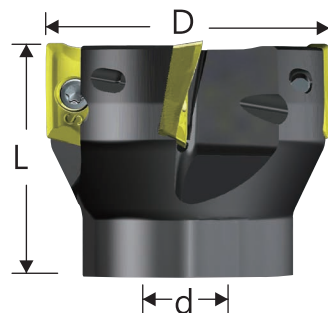
Ordering Code	Dimensions / mm				Flutes		Screw	wrench
	D	d	L1	L				
KYO11B-1602-16B-150	16	16	32	150	2	BDMT11T3	Y-KMEC M2.5-0.45	T8
KYO11B-1702-16B-150	17	16	32	150	2			
KYO11B-2003-20B-150	20	20	32	150	3			
KYO11B-2103-20B-150	21	20	32	150	3			
KYO11B-2503-25B-150	25	25	32	150	3			
KYO11B-2504-25B-150	25	25	32	150	4			
KYO11B-2604-25B-150	26	25	32	150	4			
KYO11B-3004-25B-150	30	25	32	150	4			
KYO11B-3504-32B-150	35	32	32	150	4			
KYO11B-4005-32B-150	40	32	32	150	5			
KYO11B-050R05-22.0	50	22.0	-	40	5			
KYO11B-063R06-25.4	63	25.4	-	50	6			



KYO17B

側銑快削刀

Shoulder milling cutters



Ordering Code	Dimensions / mm			Flutes		Screw	Wrench
	D	d	L				
KYO17B-2502-25B-150	25	25	150	2	BDMT1704	Y-KYO17B M4-0.7	T15
KYO17B-2602-25B-150	26	25	150	2			
KYO17B-3203-32B-150	32	32	150	3			
KYO17B-3503-32B-150	35	32	150	3			
KYO17B-4004-32B-150	40	32	150	4			
KYO17B-050R04-22.0	50	22.0	40	4			
KYO17B-063R05-25.4	63	25.4	50	5			
KYO17B-080R06-25.4	80	25.4	50	6			
KYO17B-100R07-31.75	100	31.75	62	7			



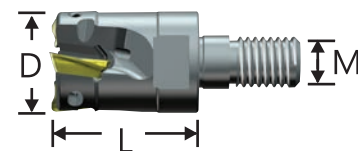
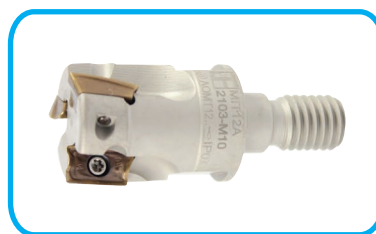
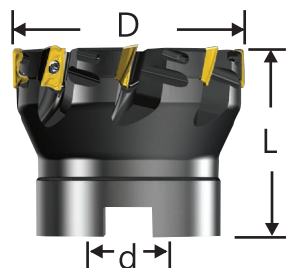
MIT12A

側銑快削刀

Shoulder milling cutters



Ordering Code	Dimensions / mm				Flutes		Screw	Wrench
	D	d	L1	L				
MIT12A-1602-16B-150	16	16	30	150	2	AOMT1236	Y-MIT12A-M M2.5-0.45	IP7
MIT12A-1702-16B-150	17	16	30	150	2			
MIT12A-1802-16B-150	18	16	30	150	2			
MIT12A-2003-20B-150	20	20	30	150	3			
MIT12A-2103-20B-150	21	20	30	150	3			
MIT12A-2504-25B-150	25	25	30	150	4			
MIT12A-2603-25B-150	26	25	30	150	3			
MIT12A-2604-25B-150	26	25	30	150	4			
MIT12A-3004-25B-150	30	25	35	150	4			
MIT12A-3204-32B-150	32	32	35	150	4			
MIT12A-3204-32B-200	32	32	35	200	4			
MIT12A-3205-32B-150	32	32	35	150	5			
MIT12A-3505-32B-150	35	32	32	150	5			
MIT12A-4006-32B-150	40	32	32	150	6			
MIT12A-050R07-22.0	50	22.0	-	40	7			
MIT12A-063R08-25.4	63	25.4	-	50	8			



Ordering Code		Dimensions / mm			Flutes		Screw	Wrench
Standard	With Coolant	D	M	L				
MIT12A-1702-M08	MIT12A-1702-M08-C	17	M08	25	2	AOMT 1236	Y-MIT12A-M M2.5-0.45	IP7
MIT12A-2103-M10	MIT12A-2103-M10-C	21	M10	28	3			
MIT12A-2604-M12	MIT12A-2604-M12-C	26	M12	35	4			
MIT12A-3305-M16	MIT12A-3305-M16-C	33	M16	40	5			
MIT12A-3505-M16	MIT12A-3505-M16-C	35	M16	45	5			



CAP10A

側銑快削刀

Shoulder milling cutters

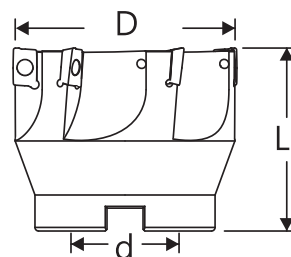
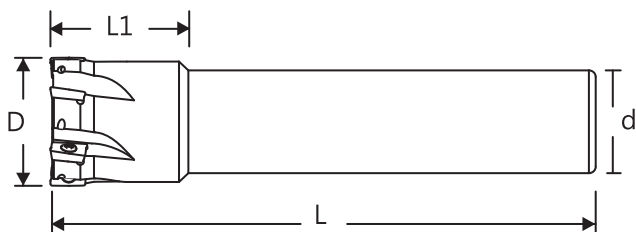
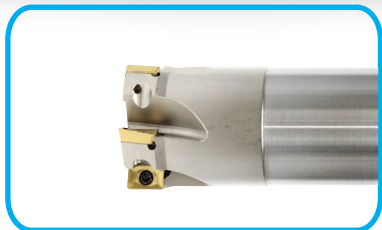
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Ordering code	Dimensions / mm				Flutes		Screw	Wrench
	D	d	L1	L				
CAP10A-16-150	16	16	30	150	2	APKT1003	Y-CAP10A M2.5-0.45	T8
CAP10A-17-150	17	16	30	150	2			
CAP10A-18-150	18	16	30	150	2			
CAP10A-20-150	20	20	30	150	2			
CAP10A-20-150-3	20	20	30	150	3			
CAP10A-21-150	21	20	30	150	2			
CAP10A-21-150-3	21	20	30	150	3			
CAP10A-22-150	22	20	40	150	2			
CAP10A-22-150-3	22	20	40	150	3			
CAP10A-25-160	25	25	40	160	4			
CAP10A-26-160	26	25	40	160	4			
CAP10A-28-160	28	25	40	160	4			
CAP10A-30-160	30	25	40	160	4			
CAP10A-32-160	32	32	40	160	4			
CAP10A-35-160	35	32	40	160	4			
CAP10A-35-160-5	35	32	40	160	5			
CAP10A-40-160	40	32	40	160	5			
CAP10A-45-160	45	32	40	160	5			
CAP10A-50-22.0	50	22.0	-	40	5			
CAP10A-63-25.4	63	25.4	-	50	6			



HAP10A

側銑快削刀

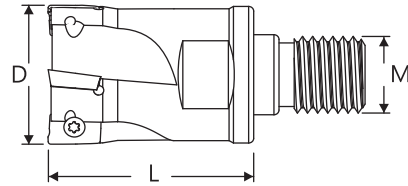
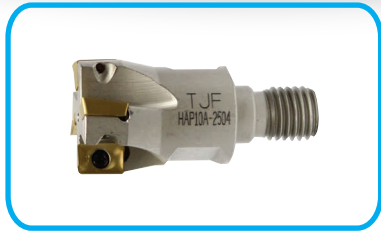
Shoulder milling cutters

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Ordering code	Dimensions / mm			Flutes		Screw	Wrench
	D	L	M				
HAP10A-1602	16	25	M8	2	APKT1003	Y-CAP10A M2.5-0.45	T8
HAP10A-1702	17	25	M8	2			
HAP10A-2002	20	30	M10	2			
HAP10A-2003	20	30	M10	3			
HAP10A-2102	21	30	M10	2			
HAP10A-2103	21	30	M10	3			
HAP10A-2504	25	35	M12	4			
HAP10A-2604	26	35	M12	4			
HAP10A-3004	30	45	M12	4			
HAP10A-3505	35	45	M16	5			



CAP16

側銑快削刀

Shoulder milling cutters

P

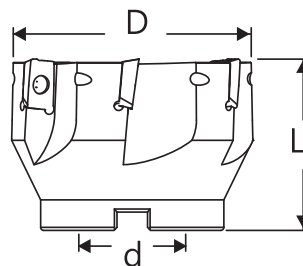
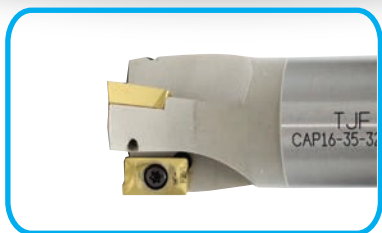
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Ordering Code	Dimensions / mm				Flutes		Screw	Wrench
	D	d	L1	L				
CAP16-25-150	25	25	35	150	2	APKT1604	Y-CAP16 M4-0.7	T15
CAP16-26-150	26	25	35	150	2			
CAP16-30-150	30	25	43	150	2			
CAP16-32-160	32	32	45	160	3			
CAP16-35-160	35	32	43	160	3			
CAP16-40-160	40	32	43	160	3			
CAP16-50-22.0	50	22.0	-	40	4			
CAP16-63-25.4	63	25.4	-	50	5			
CAP16-80-25.4	80	25.4	-	55	6			
CAP16-100-31.75	100	31.75	-	55	7			



TAPW400R 側銑快削刀

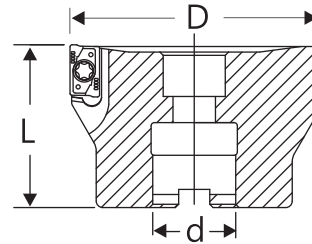
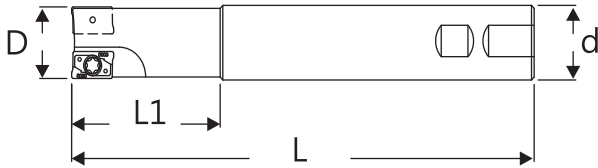
Shoulder milling cutters

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Order code	Dimensions / mm				Flutes		Screw	Wrench
	D	L1	d	L				
TAPW400R-25-150	25	35	25	150	2	APKT1604 APLT1604	Y-TAPW400 M4-0.7	T15
TAPW400R-25-200	25	35	25	200	2			
TAPW400R-25-250	25	35	25	250	2			
TAPW400R-28-150	28	43	25	150	2			
TAPW400R-30-150	30	43	25	150	2			
TAPW400R-30-200	30	43	25	200	2			
TAPW400R-32-150-2	32	45	32	150	2			
TAPW400R-32-150-3	32	45	32	150	3			
TAPW400R-32-250	32	45	32	250	3			
TAPW400R-35-150	35	43	32	150	3			
TAPW400R-35-200	35	43	32	200	3			
TAPW400R-35-300	35	43	32	300	3			
TAPW400R-35-350	35	43	32	350	3			
TAPW400R-40-150	40	43	32	150	3			
TAPW400R-40-200	40	43	32	200	3			
TAPW400R-50-150	50	43	42	150	4			
TAPW400R-50-22.0	50	-	22.0	40	4			
TAPW400R-63-25.4	63	-	25.4	50	5			
TAPW400R-80-25.4	80	-	25.4	50	6			
TAPW400R-100-31.75	100	-	31.75	50	7			



TAPE

側銑快削刀

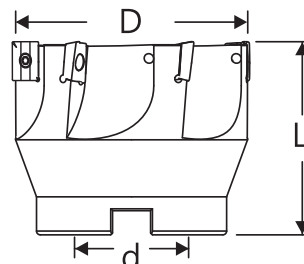
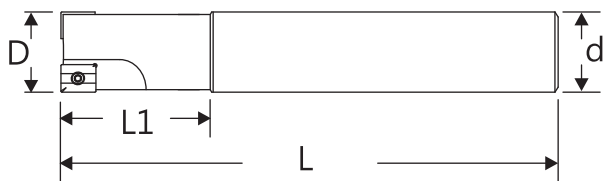
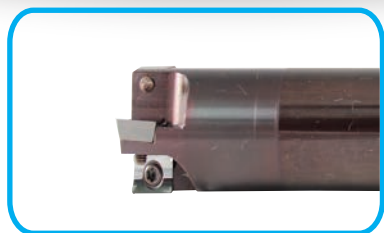
Shoulder milling cutters

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● 軟金屬加工(銅、鋁)有專用刀片 Specialized in copper and aluminum

Ordering code	Dimensions / mm				Flutes		Screw	Wrench
	D	L1	d	L				
TAPE-16-120-2	16	35	16	120	2	APET0803 APKT0803	Y-TAPE M2.5-0.45	T8
TAPE-16-120-3	16	35	16	120	3			
TAPE-16-160-2	16	35	16	160	2			
TAPE-16-160-3	16	35	16	160	3			
TAPE-17-160-2	17	30	16	160	2			
TAPE-17-160-3	17	30	16	160	3			
TAPE-20-120-2	20	35	20	120	2			
TAPE-20-120-4	20	35	20	120	4			
TAPE-20-160-2	20	35	20	160	2			
TAPE-20-160-4	20	35	20	160	4			
TAPE-20-200-2	20	35	20	200	2			
TAPE-21-160-2	21	30	20	160	2			
TAPE-21-160-4	21	30	20	160	4			
TAPE-25-160-4	25	40	25	160	4			
TAPE-26-160-4	26	30	25	160	4			
TAPE-30-160-4	30	40	25	160	4			
TAPE-35-160-4	35	40	32	160	4			
TAPE-40-160-4	40	40	32	160	4			
TAPE-50-22.0	50	-	22.0	40	6			
TAPE-63-25.4	63	-	25.4	50	7			



TAPL

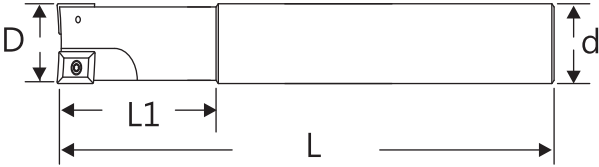
側銑快削刀

Shoulder milling cutters

P

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Ordering code	Dimensions / mm				Flutes		Screw	Wrench
	D	L1	d	L				
TAPL-10-100	10	25	10	100	1	APLT080304-11	Y-TAPPL M2.5-0.45	T8
TAPL-12-100	12	25	12	100	1			
TAPL-16-120	16	50	16	120	2			
TAPL-20-120	20	50	20	120	2			
TAPL-20-160	20	70	20	160	2			
TAPL-25-160	25	70	25	160	4			
TAPL-25-220	25	70	25	220	4			



TPX3

側銑快削刀

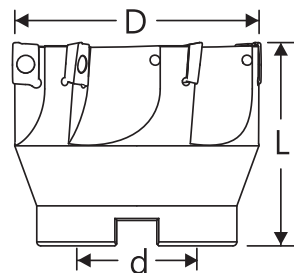
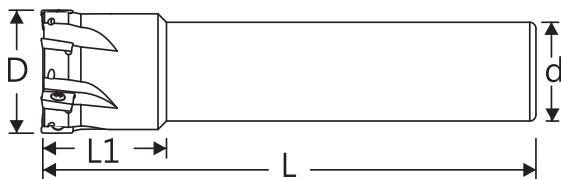
Shoulder milling cutters

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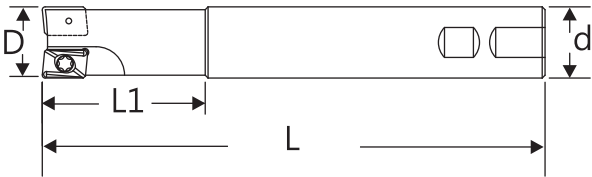
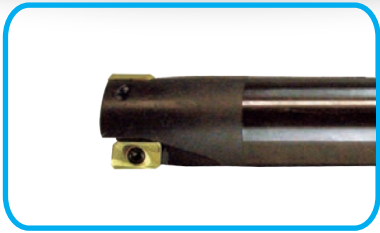
Ordering code	Dimensions / mm				Flutes		Screw	Wrench
	D	L1	d	L				
TPX3-16-150-2	16	30	16	150	2	AOMT1236	Y-TPX3 M2.5-0.45	T8
TPX3-17-150-2	17	30	16	150	2			
TPX3-18-150-2	18	30	16	150	2			
TPX3-20-150-3	20	30	20	150	3			
TPX3-21-150-3	21	30	20	150	3			
TPX3-25-150-3	25	30	25	150	3			
TPX3-26-150-3	26	30	25	150	3			
TPX3-30-150-4	30	30	25	150	4			
TPX3-32-150-4	32	40	32	150	4			
TPX3-32-200-4	32	40	32	200	4			
TPX3-35-150-4	35	35	32	150	4			
TPX3-40-150-5	40	40	32	150	5			
TPX3-40-150-6	40	40	32	150	6			
TPX3-50-22.0	50	-	22.0	40	7			
TPX3-63-25.4	63	-	25.4	50	8			



TAP300R

側銑快削刀

Shoulder milling cutters



Ordering code	Dimensions / mm				Flutes		Screw	Wrench
	D	L1	d	L				
TAP300R-10-100	10	25	16	100	1	APMT1135	Y-TAP300 M2.5-04.5	T8
TAP300R-12-100	12	25	16	100	1			
TAP300R-16-120	16	25	16	120	2			
TAP300R-16-160	16	25	16	160	2			
TAP300R-17-160	17	30	16	160	2			
TAP300R-17-200	17	30	16	200	2			
TAP300R-20-120	20	30	20	120	2			
TAP300R-20-150	20	30	20	150	2			
TAP300R-20-200	20	30	20	200	2			
TAP300R-21-150	21	30	20	150	2			
TAP300R-21-200	21	30	20	200	2			
TAP300R-21-250	21	30	20	250	2			



TAP400R

側銑快削刀

Shoulder milling cutters

P

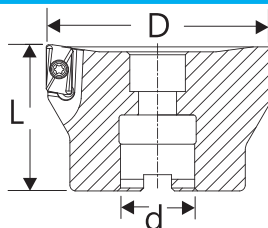
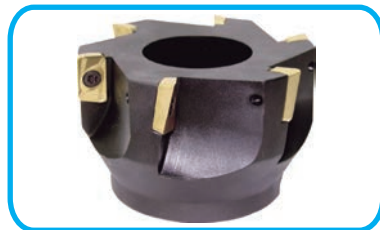
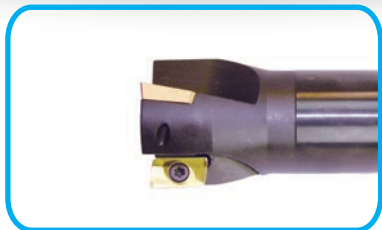
M

K

N

H

90°



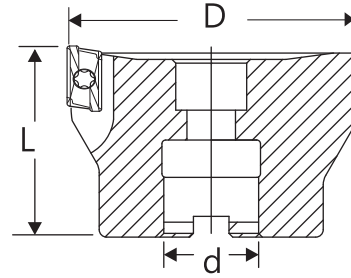
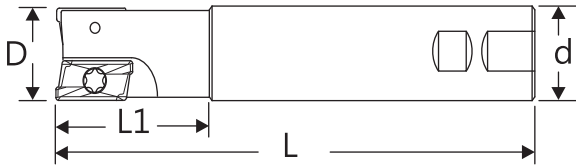
Ordering code	Dimensions / mm				Flutes		Screw	Wrench
	D	L1	d	L				
TAP400R-25-150	25	35	25	150	2	APMT1604	Y-TAP400 M4-0.7	T15
TAP400R-25-200	25	35	25	200	2			
TAP400R-25-250	25	35	25	250	2			
TAP400R-25-300	25	35	25	300	2			
TAP400R-26-150	26	35	25	150	2			
TAP400R-26-200	26	35	25	200	2			
TAP400R-26-250	26	35	25	250	2			
TAP400R-30-150	30	43	25	150	2			
TAP400R-30-200	30	43	25	200	2			
TAP400R-32-150-2	32	45	32	150	2			
TAP400R-32-150-3	32	45	32	150	3			
TAP400R-32-200-2	32	45	32	200	2			
TAP400R-32-200-3	32	45	32	200	3			
TAP400R-32-250	32	45	32	250	3			
TAP400R-32-300	32	45	32	300	3			
TAP400R-32-350	32	45	32	350	3			
TAP400R-32-400	32	45	32	400	3			
TAP400R-35-150	35	43	32	150	3			
TAP400R-35-200	35	43	32	200	3			
TAP400R-35-250	35	43	32	250	3			
TAP400R-35-300	35	43	32	300	3			
TAP400R-35-350	35	43	32	350	3			
TAP400R-35-400	35	43	32	400	3			
TAP400R-40-150	40	43	32	150	3			
TAP400R-40-200	40	43	32	200	3			
TAP400R-40-250	40	43	32	250	3			
TAP400R-50-150-32	50	42	32	150	4			
TAP400R-50-150-42	50	42	42	150	4			
TAP400R-50-22.0	50	-	22.0	40	4			
TAP400R-63-22.0	63	-	22.0	50	5			
TAP400R-63-25.4	63	-	25.4	50	5			
TAP400R-80-25.4	80	-	25.4	50	6			
TAP400R-100-31.75	100	-	31.75	50	7			
TAP400R-125-38.1	125	-	38.1	50	8			



TWEX17

側銑快削刀

Shoulder milling cutters



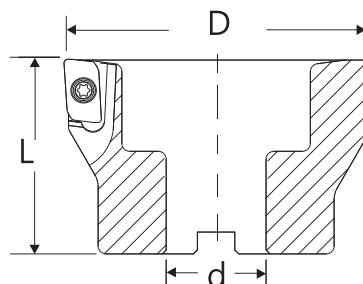
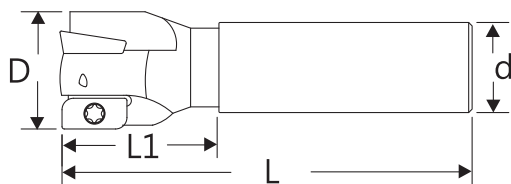
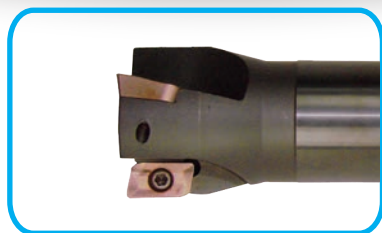
Ordering code	Dimensions / mm				Flutes		Screw	Wrench
	D	L1	d	L				
TWEX17-25-150	25	35	25	150	2	AXMT1705	Y-TWEX17 M4-0.7	T15
TWEX17-28-150	28	35	25	150	2			
TWEX17-30-150	30	25	25	150	3			
TWEX17-32-150	32	35	32	150	3			
TWEX17-35-150	35	35	32	150	3			
TWEX17-40-150	40	30	32	150	4			
TWEX17-50-22.0	50	-	22.0	40	5			
TWEX17-63-25.4	63	-	25.4	50	6			
TWEX17-80-25.4	80	-	25.4	50	7			
TWEX17-100-31.75	100	-	31.75	50	8			
TWEX17-125-38.1	125	-	38.1	50	9			



TAP500R

側銑快削刀

Shoulder milling cutters



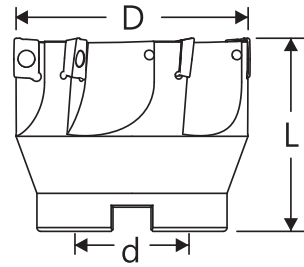
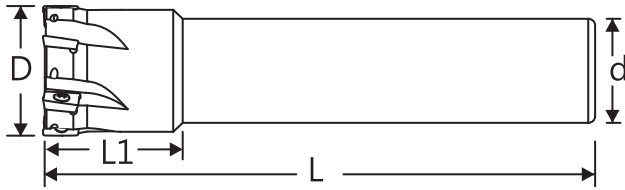
Ordering code	Dimensions / mm				Flutes		Screw	Wrench
	D	L1	d	L				
TAP500R-25-150	25	35	25	150	2	APMT1605	Y-TAP500 M3.5-0.6	T15
TAP500R-30-150	30	42	25	150	2			
TAP500R-32-150	32	45	32	150	3			
TAP500R-35-150	35	43	32	150	3			
TAP500R-40-150	40	43	32	150	3			
TAP500R-50-150	50	43	32	150	4			
TAP500R-50-22.0	50	-	22.0	40	4			
TAP500R-63-25.4	63	-	25.4	50	5			
TAP500R-80-25.4	80	-	25.4	50	6			
TAP500R-100-31.75	100	-	31.75	50	7			
TAP500R-125-38.1	125	-	38.1	50	8			



S11

側銑快削刀

Shoulder milling cutters



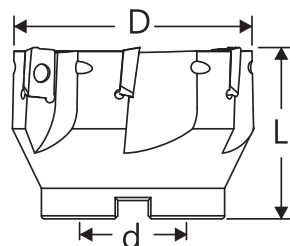
Ordering code	Dimensions / mm				Flutes		Screw	Wrench
	D	L1	d	L				
S11-16-150	16	30	16	150	2		Y-S11 M2.5-0.45	T8
S11-17-150	17	30	16	150	2			
S11-18-150	18	30	16	150	2			
S11-20-150	20	30	20	150	2			
S11-21-150	21	30	20	150	2			
S11-22-150	22	40	20	150	2			
S11-25-160-3	25	40	25	160	3			
S11-25-160-4	25	40	25	160	4			
S11-26-160	26	40	25	160	4			
S11-30-160	30	40	25	160	4			
S11-32-160	32	40	32	160	5			
S11-35-160	35	40	32	160	5			
S11-40-160	40	40	32	160	6			
S11-50-22.0	50	-	22.0	40	7			
S11-63-25.4	63	-	25.4	50	8			



S17

側銑快削刀

Shoulder milling cutters



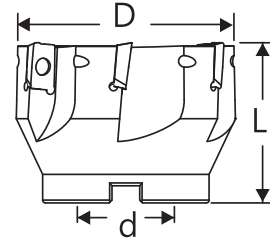
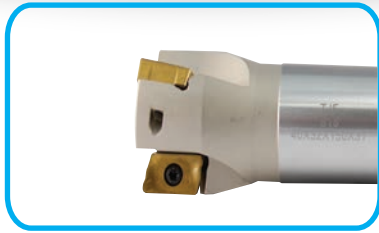
Ordering code	Dimensions / mm				Flutes		Screw	Wrench
	D	L1	d	L				
S17-25-160	25	40	25	160	2	R390-1704	Y-S17 M3.5-0.6	T15
S17-25-220	25	40	25	220	2			
S17-30-160	30	40	25	160	2			
S17-30-220	30	40	25	220	2			
S17-32-160	32	40	32	160	3			
S17-35-160	35	40	32	160	3			
S17-40-160	40	40	32	160	3			
S17-40-250	40	40	32	250	3			
S17-50-22.0	50	-	22.0	40	4			
S17-63-25.4	63	-	25.4	50	5			
S17-80-25.4	80	-	25.4	50	6			
S17-100-31.75	100	-	31.75	50	7			



S18

側銑快削刀

Shoulder milling cutters



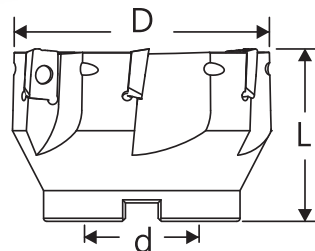
Ordering code	Dimensions / mm				Flutes		Screw	Wrench
	D	L1	d	L				
S18-40-150	40	42	32	150	3	R390-1806	Y-S18 M3.5-0.6	T15
S18-50-22.0	50	-	22.0	40	4			
S18-63-25.4	63	-	25.4	50	4			
S18-80-25.4	80	-	25.4	50	5			
S18-100-31.75	100	-	31.75	50	6			
S18-125-38.1	125	-	38.1	50	7			
S18-160-50.8-8	160	-	50.8	60	8			
S18-160-50.8-10	160	-	50.8	60	10			



TFM17

側銑快削刀

Shoulder milling cutters



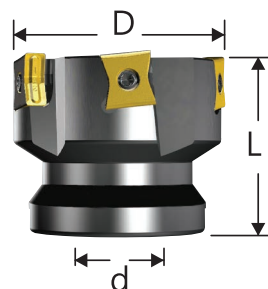
Ordering code	Dimensions / mm			Flutes		Screw	Wrench
	D	d	L				
TFM17-50-22.0	50	22.0	40	4	APKT1705	Y-TFM17 M4-0.7	T15
TFM17-63-25.4	63	25.4	50	5			
TFM17-80-25.4	80	25.4	50	6			
TFM17-100-31.75	100	31.75	50	7			



F90LN

側銑快削刀

Shoulder milling cutters



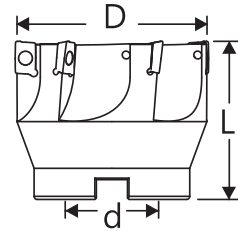
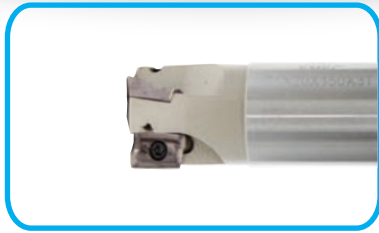
Ordering code	Dimensions / mm			Flutes		Screw	Wrench
	D	d	L				
F90LN-1506-63-25.4	63	25.4	50	5	LNKX1506	Y-F90LN M4-0.7	T15
F90LN-1506-80-25.4	80	25.4	50	7			



KMEC

側銑快削刀

Shoulder milling cutters



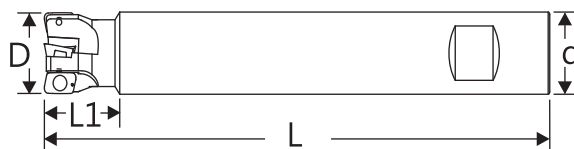
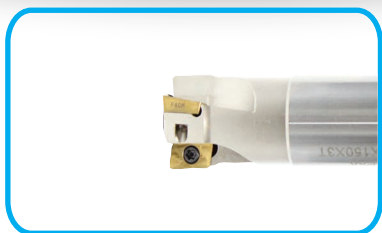
Ordering code	Dimensions / mm				Flutes		Screw	Wrench
	D	L1	d	L				
KMEC-16-150	16	25	16	150	2	BDMT11T3	Y-KMEC M2.5-0.45	T8
KMEC-17-150	17	25	16	150	2			
KMEC-20-150	20	25	20	150	2			
KMEC-21-150	21	25	20	150	3			
KMEC-25-150	25	30	25	150	3			
KMEC-26-150	26	30	25	150	4			
KMEC-30-150	30	30	25	150	4			
KMEC-35-150	35	30	32	150	4			
KMEC-40-160	40	30	32	160	5			
KMEC-50-22.0	50	-	22.0	40	5			
KMEC-63-25.4	63	-	25.4	50	6			



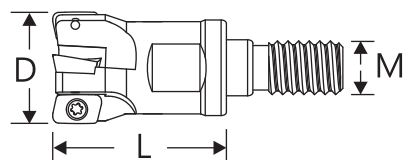
TSE09

側銑快削刀

Shoulder milling cutters



Ordering code	Dimensions / mm				Flutes		Screw	Wrench
	D	L1	d	L				
TSE09-16-150	16	30	16	150	2	XOMX0903	Y-TSE09 M2.5-0.45	T8
TSE09-17-150	17	30	16	150	2			
TSE09-18-150	18	30	16	150	2			
TSE09-20-150	20	30	20	150	3			
TSE09-21-150	21	30	20	150	3			
TSE09-25-150	25	30	25	150	3			
TSE09-26-150	26	30	25	150	3			



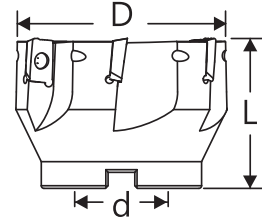
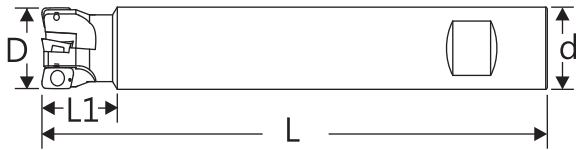
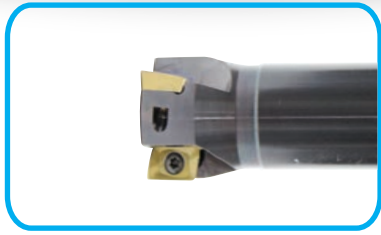
Ordering code	Dimensions / mm			Flutes		Screw	Wrench
	D	L	M				
TSE09M-1702	17	28	M8	2	XOMX0903	Y-TSE09 M2.5-0.45	T8
TSE09M-2102	21	30	M10	2			
TSE09M-2103	21	30	M10	3			



TSE12

側銑快削刀

Shoulder milling cutters



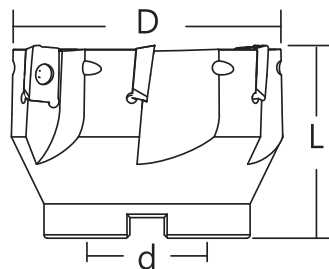
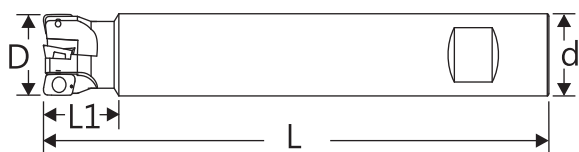
Ordering code	Dimensions / mm				Flutes		Screw	Wrench
	D	L1	d	L				
TSE12-20-150	20	30	20	150	2	XOMX1204	Y-TSE12 M3.5-0.6	T10
TSE12-25-150	25	30	25	150	3			
TSE12-26-150	26	30	25	150	3			
TSE12-30-150	30	30	25	150	3			
TSE12-32-150	32	30	32	150	4			
TSE12-35-150	35	30	32	150	4			
TSE12-40-150	40	30	32	150	4			
TSE12-50-22.0	50	-	22.0	40	5			
TSE12-63-25.4	63	-	25.4	50	6			
TSE12-80-25.4	80	-	25.4	55	7			



TSE18

側銑快削刀

Shoulder milling cutters

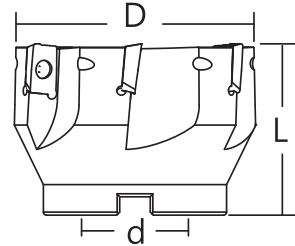
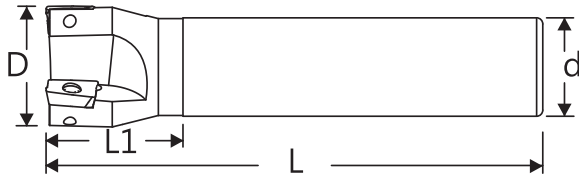
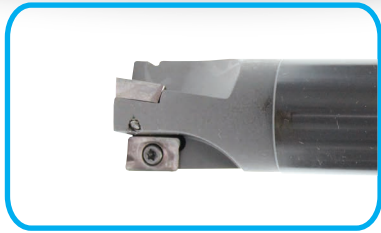


Ordering code	Dimensions / mm				Flutes		Screw	Wrench
	D	L1	d	L				
TSE18-40-150	40	40	32	150	3	XOMX1806	Y-TSE18 M4.5-0.75	T15
TSE18-50-22.0	50	-	22.0	40	4			
TSE18-63-25.4	63	-	25.4	50	4			
TSE18-80-25.4	80	-	25.4	50	5			
TSE18-100-31.75	100	-	31.75	50	6			
TSE18-125-38.1	125	-	38.1	55	7			
TSE18-160-50.8	160	-	50.8	60	10			

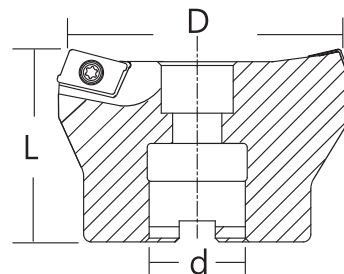


TADKT1505 側銑快削刀

Shoulder milling cutters



Ordering code	Dimensions / mm				Flutes		Screw	Wrench
	D	L1	d	L				
TADKT1505-25-160	25	35	25	160	2		Y-TADKT1505 M4-0.7	T15
TADKT1505-30-150	30	35	25	150	2			
TADKT1505-32-160	32	45	32	160	3			
TADKT1505-35-160	35	40	32	160	3			
TADKT1505-40-160	40	35	32	160	3			
TADKT1505-50-22.0	50	-	22.0	40	4			
TADKT1505-63-25.4	63	-	25.4	50	5			
TADKT1505-80-25.4	80	-	25.4	50	6			
TADKT1505-100-31.75	100	-	31.75	50	7			



Ordering code	Dimensions / mm			Flutes		Screw	Wrench
	D	d	L				
TADKT1505F-100-3.175	100	31.75	50	6		Y-TADKT1505 M4-0.7	T15
TADKT1505F-130-38.1	130	38.1	55	6			



TEX

精修快削刀

Finishing Shoulder milling cutters

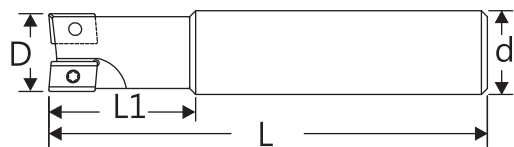


Fig.1

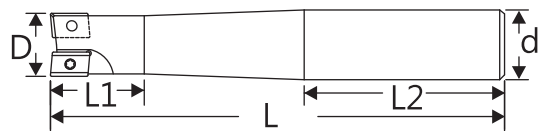


Fig.2

Ordering code	Fig No.	Dimensions / mm					Flutes		Screw	Wrench
		D	L1	L2	d	L				
TEX-12-100	1	12	30	-	12	100	1	APET1202 APNT1202	Y-TEX20 M3.5-0.6	T15
TEX-12-150	1	12	30	-	12	150	1			
TEX-12-180	2	12	30	103	16	180	1			
TEX-16-150	1	16	30	-	16	150	1			
TEX-16-220	2	16	30	143	20	220	1			
TEX-17-150	1	17	30	-	16	150	2			
TEX-20-150	1	20	30	-	20	150	2			
TEX-20-220-20	1	20	30	-	20	220	2			
TEX-20-220-25	2	20	30	75	25	220	2			
TEX-20-270	2	20	30	75	25	270	2			
TEX-21-120	1	21	43	-	20	120	2			
TEX-21-150	1	21	43	-	20	150	2			
TEX-25-150	1	25	43	-	25	150	2	ADET1603 ADNT1603	Y-TEX-25 M4-0.7	T15
TEX-25-200	1	25	43	-	25	200	2			
TEX-25-250	2	25	55	116	32	250	2			
TEX-25-300	2	25	55	186	32	300	2			
TEX-26-150	1	26	43	-	25	150	2			
TEX-26-200	1	26	43	-	25	200	2			
TEX-30-150	1	30	45	-	25	150	2			
TEX-30-220	1	30	45	-	25	220	2			
TEX-30-270	1	30	55	-	32	270	2			
TEX-30-320	1	30	55	-	32	320	2			



TEX

精修快削刀

Finishing Shoulder milling cutters

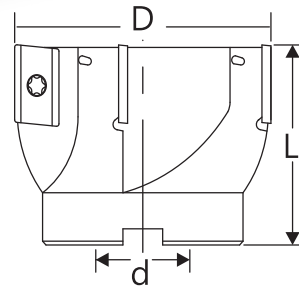
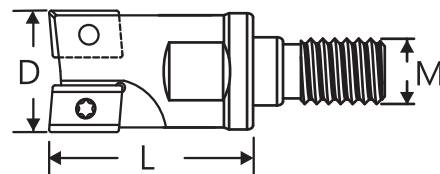
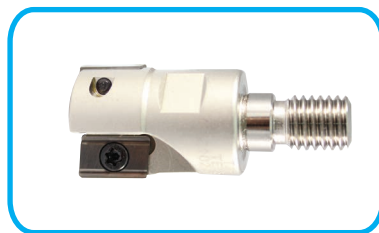


Fig.3

Ordering code	Fig No.	Dimensions / mm					Flutes		Screw	Wrench
		D	L1	L2	d	L				
TEX-32-200	1	32	45	-	32	200	2	ADET1603 ADNT1603	Y-TEX25 M4-0.7	T15
TEX-32-200-3	1	32	45	-	32	200	3			
TEX-32-250	1	32	45	-	32	250	2			
TEX-32-250-3	1	32	45	-	32	250	3			
TEX-32-300	1	32	45	-	32	300	2			
TEX-32-300-3	1	32	45	-	32	300	3			
TEX-33-200	1	33	43	-	32	200	3			
TEX-33-250	1	33	43	-	32	250	3			
TEX-33-300	1	33	43	-	32	300	3			
TEX-50-22.0	3	50	-	-	22.0	40	4			



Ordering code	Dimensions /mm			Flutes		Screw	Wrench
	D	L	M				
TEXS-17	17	25	M8	2	APET1202	Y-TEX20	T15
TEXS-21	21	30	M10	2	APNT1202	M3.5-0.6	
TEXS-26	26	34	M12	2	ADET1603	Y-TEX25	T15
TEXS-33	33	43	M16	3	ADNT1603	M4-0.7	



TPR

直角削刀

Shoulder milling cutters

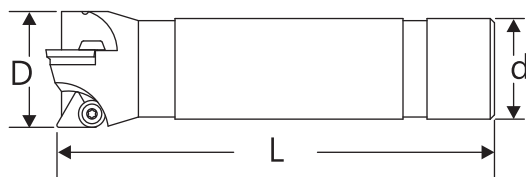
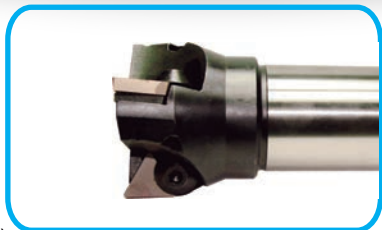
P

M

K

N

H



△ Shim(+)

Ordering code	Dimensions / mm			Flutes		Clamp	KEY (mm)	Shim	Shim Screw
	D	d	L						
TPR-20-16-100	20	16	100	2	TPMN110308	Y-TPR3 3/16-32	3		
TPR-20-16-100S	20	16	100	2	TPMN110208				
TPR-20-20-100	20	20	100	2	TPMN110308				
TPR-20-20-100S	20	20	100	2	TPMN110208				
TPR-20-20-150	20	20	150	2	TPMN110308				
TPR-20-20-150S	20	20	150	2	TPMN110208				
TPR-25-20-100	25	20	100	2	TPMN110308				
TPR-25-20-100S	25	20	100	2	TPMN110208				
TPR-25-20-150	25	20	150	2	TPMN110308				
TPR-25-20-150S	25	20	150	2	TPMN110208				
TPR-25-25-100	25	25	100	2	TPMN110308				
TPR-25-25-100S	25	25	100	2	TPMN110208				
TPR-25-25-150	25	25	150	2	TPMN110308				
TPR-25-25-150S	25	25	150	2	TPMN110208				
TPR-30-20-120	30	20	120	2	TPMN160308	Y-TPR4 1/4-28	4		
TPR-30-25-120	30	25	120	2					
TPR-30-25-150	30	25	150	2					
TPR-32-20-120	32	20	120	2					
TPR-32-25-120	32	25	120	2					
TPR-32-25-150	32	25	150	2					
TPR-35-20-120	35	20	120	2					
TPR-35-25-120	35	25	120	2					
TPR-35-25-150	35	25	150	2					
TPR-35-25-200	35	25	200	2					
TPR-35-32-120	35	32	120	2					
TPR-35-32-150	35	32	150	2					
TPR-35-32-200	35	32	200	2					
TPR-35-32-250	35	32	250	2					
TPR-35-32-300	35	32	300	2					



TPR

直角銑刀

Shoulder milling cutters



Ordering code	Dimensions / mm			Flutes		Clamp	KEY (mm)	Shim	Shim Screw		
	D	d	L								
TPR-38-20-120	38	20	120	3	TPMN160308	Y-TPR4 1/4-28	4	-	-		
TPR-38-25-120	38	25	120	3							
TPR-38-32-120	38	32	120	3							
TPR-40-20-120	40	20	120	3							
TPR-40-25-120	40	25	120	3							
TPR-40-32-120	40	32	120	3							
TPR-40-32-150	40	32	150	3							
TPR-40-32-200	40	32	200	3							
TPR-40-32-250	40	32	250	3							
TPR-40-32-300	40	32	300	3							
TPR-45-20-120	45	20	120	3							
TPR-45-25-120	45	25	120	3							
TPR-45-32-120	45	32	120	3							
TPR-45-32-200	45	32	200	3							
TPR-50-20-120	50	20	120	3							
TPR-50-25-120	50	25	120	3							
TPR-50-32-120	50	32	120	3							
TPR-50-32-150-322	50	32	150	3	TPMN160308	Y-TPR4	4				
TPR-50-32-150-433	50	32	150	3	TPMN220412	Y-TPR5	5				
TPR-50-32-200-322	50	32	200	3	TPMN160308	Y-TPR4	4				
TPR-50-32-200-433	50	32	200	3	TPMN220412	Y-TPR5	5				
TPR-50-32-250-322	50	32	250	3	TPMN160308	Y-TPR4	4				
TPR-50-32-250-433	50	32	250	3	TPMN220412	Y-TPR5	5				
TPR-50-42-150-322	50	42	150	3	TPMN160308	Y-TPR4	4				
TPR-50-42-150-433	50	42	150	3	TPMN220412	Y-TPR5	5				
TPR-50-42-200-322	50	42	200	3	TPMN160308	Y-TPR4	4				
TPR-50-42-200-433	50	42	200	3	TPMN220412	Y-TPR5	5				
TPR-50-42-250-322	50	42	250	3	TPMN160308	Y-TPR4	4				
TPR-50-42-250-433	50	42	250	3	TPMN220412	Y-TPR5	5				
TPR-50-42-300	50	42	300	3	TPMN2201412	Y-TPR5 5/16-24	5			Y-TPR2	Y-TPR1 M4-0.7
TPR-63-32-150	63	32	150	3							
TPR-63(+)-32-150	63	32	150	3							



TPR

直角銑刀

Shoulder milling cutters



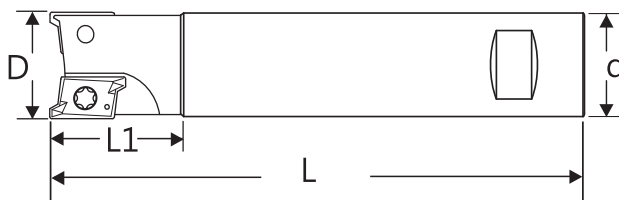
Ordering code	Dimensions / mm			Flutes		Clamp	KEY (mm)	Shim	Shim Screw
	D	d	L						
TPR-63-32-200	63	32	200	3	TPMN220412	Y-TPR5 5/16-24	5	-	-
TPR-63-32-250	63	32	250	3				-	-
TPR-63-42-150	63	42	150	3				Y-TPR2	Y-TPR1 M4-0.7
TPR-63(+)-42-150	63	42	150	3				-	-
TPR-63-42-200	63	42	200	3				Y-TPR2	Y-TPR1 M4-0.7
TPR-63(+)-42-200	63	42	200	3				-	-
TPR-63-42-250	63	42	250	3				Y-TPR2	Y-TPR1 M4-0.7
TPR-63(+)-42-250	63	42	250	3				-	-
TPR-63-42-300	63	42	300	3				Y-TPR2	Y-TPR1 M4-0.7
TPR-63(+)-42-300	63	42	300	3				-	-



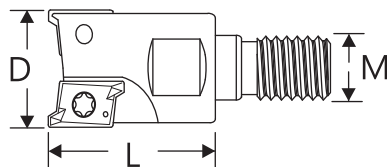
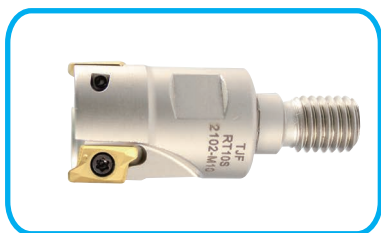
RT10

側銑快削刀

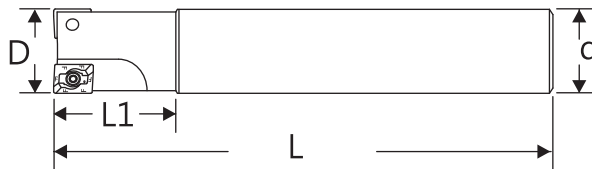
Shoulder milling cutters



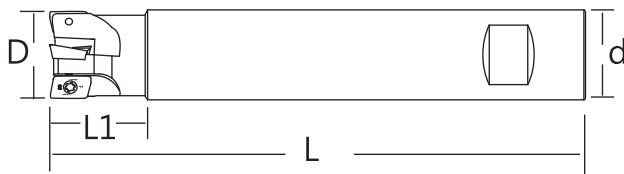
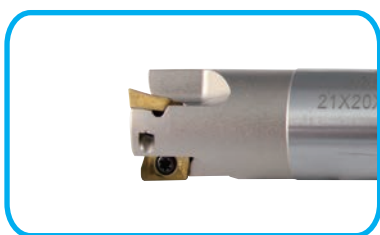
Ordering code	Dimensions / mm				Flutes		Screw	Wrench
	D	L1	d	L				
RT10-16-150	16	30	16	150	2	RT1003	Y-RT10 M2.5-0.45	T8
RT10-17-150	17	30	16	150	2			
RT10-20-150-2	20	30	20	150	2			
RT10-20-150-3	20	30	20	150	3			
RT10-21-150-2	21	30	20	150	2			
RT10-21-150-3	21	30	20	150	3			
RT10-25-150	25	30	25	150	3			
RT10-26-150	26	40	25	150	3			
RT10-32-150	32	40	32	150	4			
RT10-33-150	33	40	32	150	4			
RT10-35-150	35	40	32	150	5			



Ordering code	Dimensions / mm			Flutes		Screw	Wrench
	D	L	M				
RT10S-1702	17	25	M8	2	RT1003	Y-RT10 M2.5-0.45	T8
RT10S-2102	21	30	M10	2			
RT10S-2103	21	30	M10	3			
RT10S-2603	26	35	M12	3			
RT10S-3304	33	45	M16	4			

**WAP09****側銑快削刀****Shoulder milling cutters**

Ordering code	Dimensions / mm				Flutes		Screw	Wrench
	D	L1	d	L				
WAP09-16-150	16	30	16	150	2	APMT0903	Y-WAP09 M2.5-0.45	T8
WAP09-17-150	17	30	16	150	2			
WAP09-20-150	20	30	20	150	3			
WAP09-21-150	21	30	20	150	3			

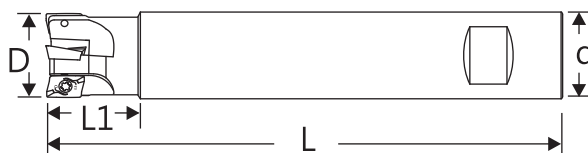
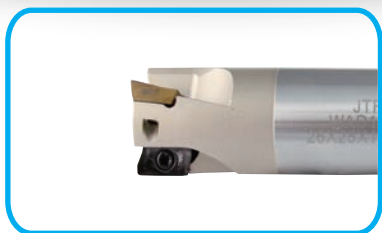
**WAD0803****側銑快削刀****Shoulder milling cutters**

Ordering code	Dimensions / mm				Flutes		Screw	Wrench
	D	L1	d	L				
WAD0803-16-150	16	30	16	150	2	ADMT0803	Y-WAD08 M2.5-0.45	T8
WAD0803-17-150	17	30	16	150	2			
WAD0803-20-150	20	30	20	150	3			
WAD0803-21-150	21	30	20	150	3			



WAD1204 側銑快削刀

Shoulder milling cutters

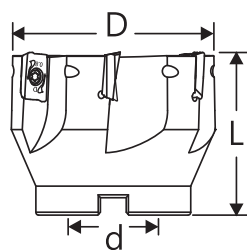


Ordering code	Dimensions / mm				Flutes		Screw	Wrench
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WAD1204-20-150	20	30	20	150	2	ADMT1204	Y-WAD12 M3-0.5	T10
WAD1204-21-150	21	30	20	150	2			
WAD1204-25-150	25	30	25	150	3			
WAD1204-26-150	26	30	25	150	3			
WAD1204-32-150	32	35	32	150	4			



WAD1606 側銑快削刀

Shoulder milling cutters

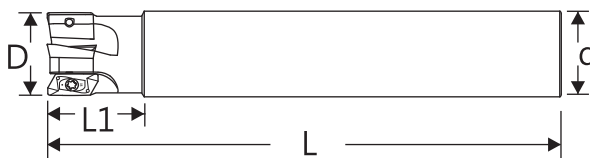
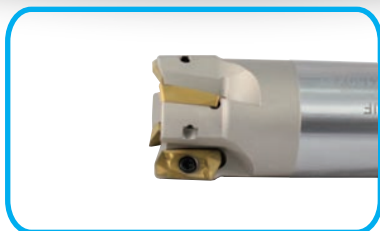


Ordering code	Dimensions / mm			Flutes		Screw	Wrench
	D	d	L				
WAD1606-50-22.0	50	22.0	40	4	ADMT1606	Y-WAD16 M4-0.7	T15
WAD1606-63-25.4	63	25.4	50	5			
WAD1606-80-25.4	80	25.4	50	6			
WAD1606-100-31.75	100	31.75	50	7			



KEDCT14 側銑快削刀

Shoulder milling cutters



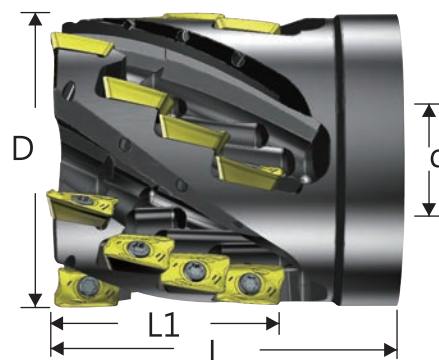
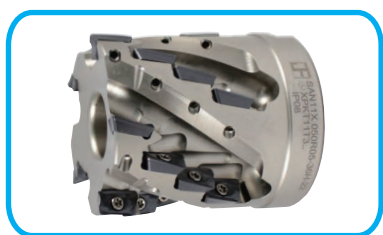
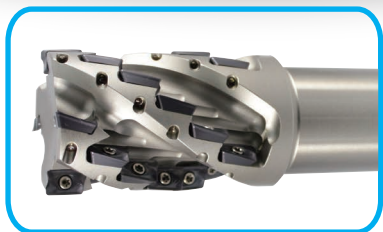
Ordering code	Dimensions / mm				Flutes		Screw	Wrench
	D	d	L1	L				
KEDCT14-22-150	22	20	30	150	2	EDCT1404	Y-KEDCT M3-0.5	T10
KEDCT14-25-150	25	25	35	150	3			
KEDCT14-28-150	28	25	35	150	3			
KEDCT14-30-150	30	25	35	150	3			
KEDCT14-32-150	32	32	35	150	3			
KEDCT14-35-150	35	32	35	150	4			
KEDCT14-40-150	40	32	40	150	4			
KEDCT14-45-150	45	32	40	150	4			
KEDCT14-50-150	50	32	40	150	5			



SAN11X

螺旋粗削刀

Helical milling cutters



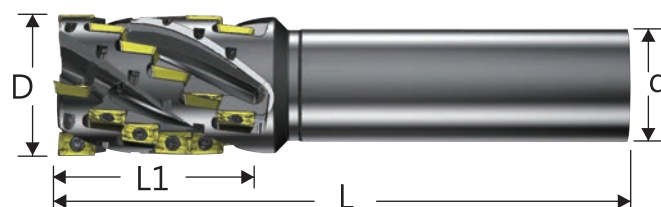
Ordering code	Dimensions / mm				Flutes		PCS	Screw	Wrench
	D	L1	d	L					
SAN11X-3203-36H-32B-160	32	36	32	160	3	XPKT11T3	12	Y-SAN11X M2.5	IP8
SAN11X-4004-54H-32B-160	40	54	32	160	4		24		
SAN11X-050R05-36H-22.0	50	36	22	57	5	R390-11T3	20		



ISC10A

螺旋粗削刀

Helical milling cutters



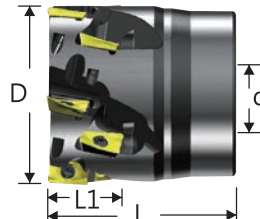
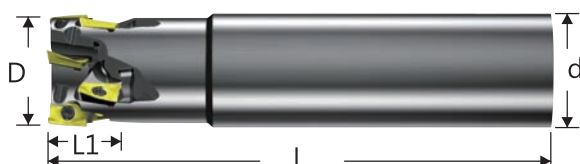
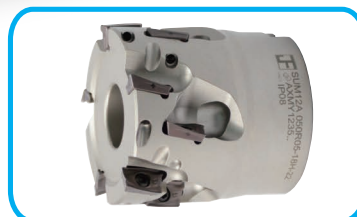
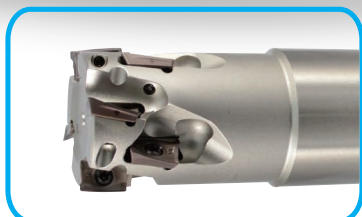
Ordering code	Dimensions / mm				Flutes		pcs	Screw	Wrench
	D	L1	d	L					
ISC10A-2502-37H-25B-140	25	37	25	140	2	APKT1003	8	Y-ISC10A M2.5-0.45	T8
ISC10A-3203-46H-32B-160	32	46	32	160	3		15		
ISC10A-4004-55H-32B-160	40	55	32	160	4		24		



SUM12A

螺旋粗削刀

Helical milling cutters



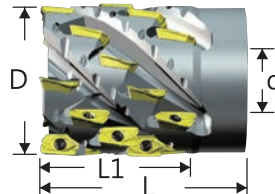
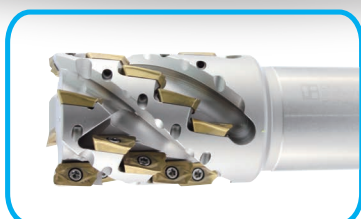
Ordering Code	Dimensions / mm				Flutes		Pcs	Screw	Wrench
	D	L1	d	L					
SUM12A-2002-18H-20B-120	20	18	20	120	2	AXMT1235	4	Y-SUM12A M3.0-0.5	IP8
SUM12A-2503-18H-25B-140	25	18	25	140	3		6		
SUM12A-3204-18H-32B-140	32	18	32	140	4		8		
SUM12A-4005-18H-32B-160	40	18	32	160	5		10		
SUM12A-050R05-18H-22.0	50	18	22.0	50	5		10		



CER11X / CER15X

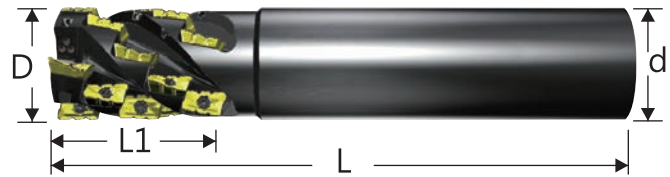
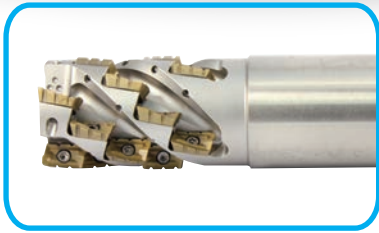
螺旋粗削刀

Helical milling cutters

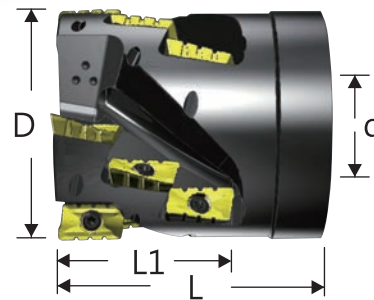
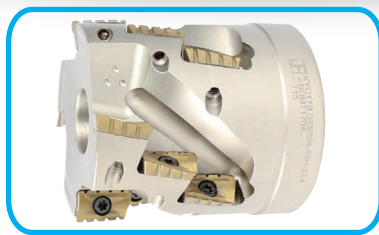
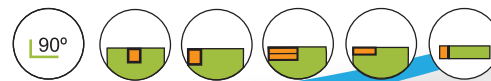


Ordering Code	Dimensions / mm				Flutes		Pcs	Screw	Wrench
	D	L1	d	L					
CER11X-2502-37.0H-25B-140	25	37	25	140	2	XDKT11T3	8	Y-CER11X M2.5-0.45	IP8
CER11X-3203-45.5H-32B-160	32	45.5	32	160	3		15		
CER11X-4004-45.5H-32B-160	40	45.5	32	160	4		20		
CER11X-050R05-45.5H-22.0	50	45.5	22.0	65	5		25		
CER15X-050R03-50.5H-22.0	50	50.5	22.0	75	3	XDKT1505	12	Y-CER15X M3.5-0.6	IP15

New

**KYO11B****螺旋粗削刀****Helical milling cutters**

Ordering code	Dimensions / mm				Flutes		PCS	Screw	Wrench
	D	L1	d	L					
KYO11B-2502-37H-25B-140	25	37	25	140	2	BDMT11T3	8	Y-KYO11B M2.5-0.45	T8
KYO11B-3204-46H-32B-160	32	46	32	160	4		20		
KYO11B-4004-55H-32B-160	40	55	32	160	4		24		

**KYO17B****螺旋粗削刀****Helical milling cutters**

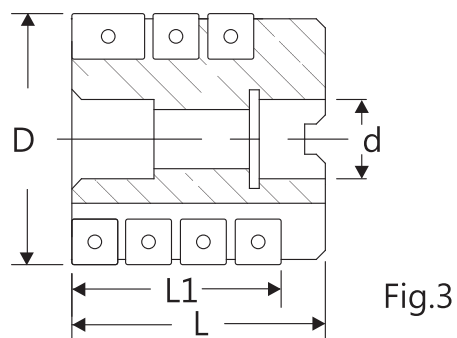
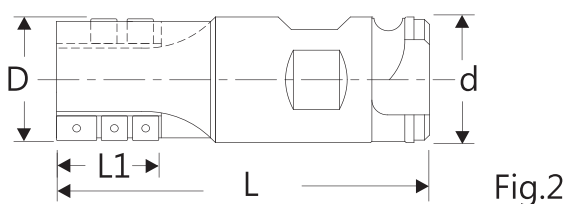
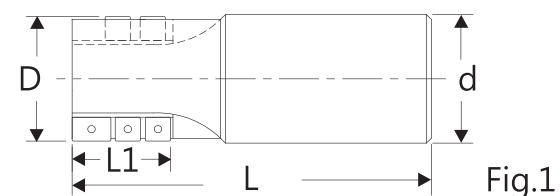
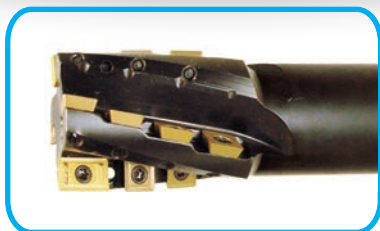
Ordering Code	Dimensions / mm				Flutes		PCS	Screw	Wrench
	D	L1	d	L					
KYO17B-050R04-59H-22.0	50	59	22.0	80	4	BDMT1704	16	Y-KYO17B M4-0.7	T15
KYO17B-063R04-45H-25.4	63	45	25.4	70	4		12		



T2038

重切削粗銑刀

Long edge heavy operation milling cutters



Ordering code	Dimensions / mm					Flutes	Insert				Screw	Wrench
	D	L1	d	L	Fig. No.			PCS		PCS		
T2038-25-SS-2	25	27	25	120	1	2	P27215-00 APLT080304	1	P28415-00 SPLT060304	5	Y-203808 M2.5-0.45	T8
T2038-32-SS-2	32	42	32	147	1	2	P27215-3 ADLX150308	1	P28415-0 SDLX090308	5	Y-203815 M4-0.7	T15
T2038-40-SS-4	40	50	32	155	1	4		2		12		
T2038-40-SS-2	40	56	32	173	1	2	P27275-3 APLX1504	1	P28495-1 SPLX120408	5	Y-203820 M5-0.8	T20
T2038-50-S	50	77	50.8	204	2	4		2		14		
T2038-50-M	50	97	50.8	224	2	4		2		18		
T2038-50-L	50	158	50.8	284	2	4		2		30		
T2038-80-31.75	80	67	31.75	80	3	6		3		18		
T2038-80-32.0	80	67	32.0	80	3	6		3		18		



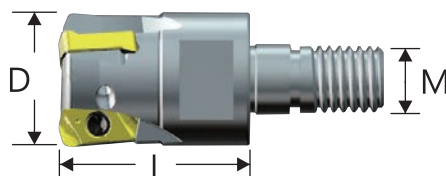
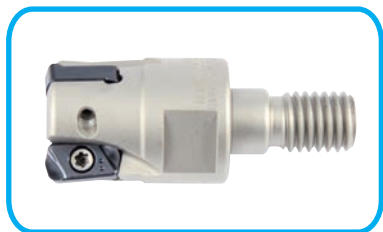
TUN03X

高進給快削刀 High-feed milling cutters



New

Ordering Code		Dimensions / mm				Flutes		Screw	Wrench
Standard	With Coolant	D	d	L1	L				
TUN03X-1602-16B-150	TUN03X-1602-16B-150-C	16	16	30	150	2	XNMU0303 LNMU0303	Y-TUN03 M2.5-0.45	IP8
TUN03X-1702-16B-150	TUN03X-1702-16B-150-C	17	16	30	150	2			
TUN03X-1802-16B-150	TUN03X-1802-16B-150-C	18	16	30	150	2			
TUN03X-2003-20B-150	TUN03X-2003-20B-150-C	20	20	50	150	3			
TUN03X-2103-20B-150	TUN03X-2103-20B-150-C	21	20	50	150	3			
TUN03X-2504-25B-150	TUN03X-2504-25B-150-C	25	25	60	150	4			
TUN03X-2604-25B-150	TUN03X-2604-25B-150-C	26	25	60	150	4			
TUN03X-3004-25B-150		30	25	60	150	4			
TUN03X-3205-32B-150		32	32	70	150	5			
TUN03X-3305-32B-150		33	32	70	150	5			
TUN03X-3505-32B-150		35	32	70	150	5			



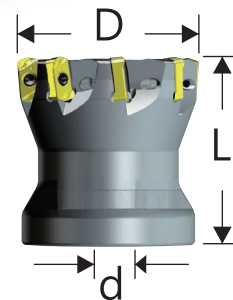
New

Ordering Code		Dimensions / mm			Flutes		Screw	Wrench
Standard	With Coolant	D	M	L				
TUN03X-1702-M08	TUN03X-1702-M08-C	17	M08	25	2	XNMU0303 LNMU0303	Y-TUN03 M2.5-0.45	IP8
TUN03X-1802-M08	TUN03X-1802-M08-C	18	M08	25	2			
TUN03X-2103-M10		21	M10	28	3			
TUN03X-2104-M10		21	M10	28	4			
TUN03X-2604-M12		26	M12	35	4			
TUN03X-2605-M12		26	M12	35	5			
TUN03X-3004-M12		30	M12	35	4			
TUN03X-3005-M12		30	M12	35	5			
TUN03X-3305-M16		33	M16	45	5			
TUN03X-3306-M16		33	M16	45	6			
TUN03X-3505-M16		35	M16	45	5			
TUN03X-3506-M16		35	M16	45	6			



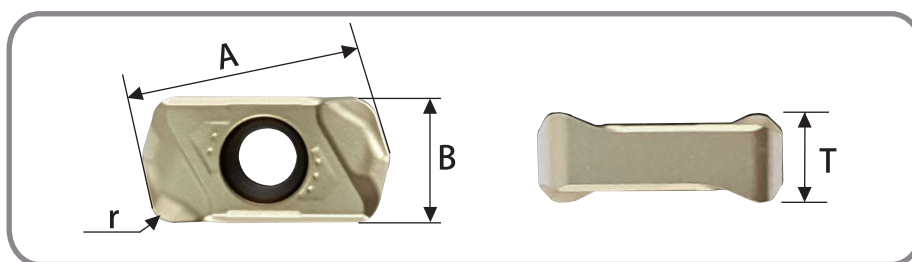
TUN03X

高進給快削刀 High-feed milling cutters



New

Ordering Code		Dimensions / mm			Flutes		Screw	Wrench
Standard	With Coolant	D	d	L				
TUN03X-050R08-22.0	TUN03X-050R08-22.0-C	50	22	50	8	XNMU0303 LNMU0303	Y-TUN03 M2.5-0.45	IP8
TUN03X-063R09-25.4	TUN03X-063R09-25.4-C	63	25.4	50	9			



Ordering code	Grades	Dimensions / mm			
		A	B	T	r
XNMU0303-TJ	TP7220	11.59	6.0	4.29	1.2

New Coating : **TP7220**



◎ : 優 Excellent

○ : 可 Good

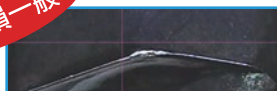


磨損少

TP7220

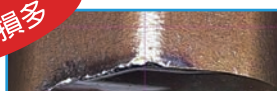


磨損一般



Japan
Inserts

磨損多



Taiwan (A)
Inserts

磨損嚴重



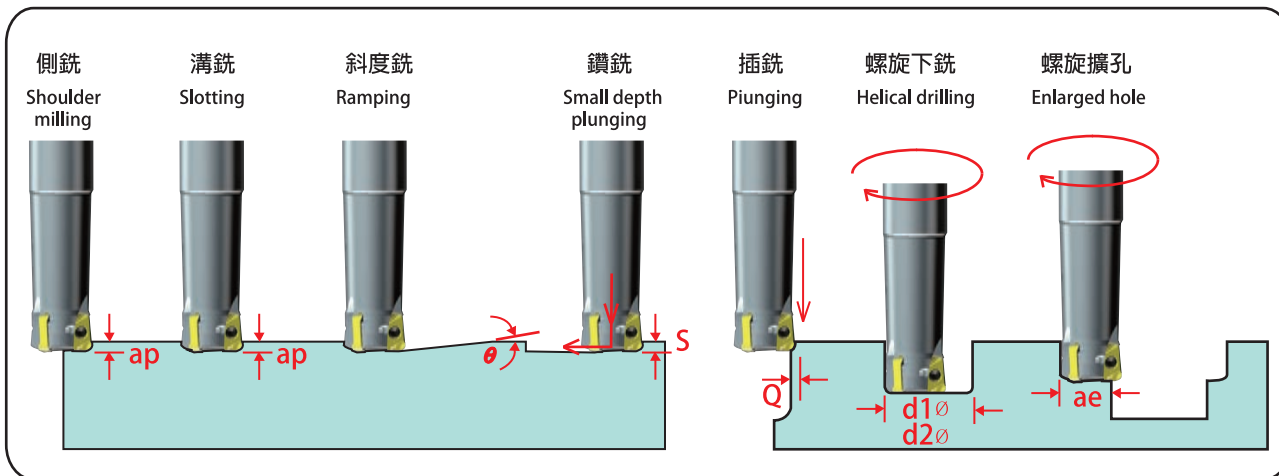
Taiwan (B)
Inserts

Work material : P20 (HRC33)
(250mm X 160mm)
Cutter Dia: 20mm Flutes: 3
Coolant: wet machining
Working hours: 97mins
Depth: 25mm

S: 3180 ap: 0.5mm
F: 5720 ae: 8.4mm
fz: 0.6 V: 200

XNMU0303-TJ TP7220 標準切削值

切削材 Work material		切削速度 Vc(m/min)	每刃進給量 fz (mm/t)	
			刀具外徑 DC (mm)	
			16 ~ 21	25 ~ 50
P	碳鋼、合金鋼 Carbon Steel 、 Alloy Steel < HRC30	100 ~ 300	0.5 ~ 1.2	0.5 ~ 1.5
	合金鋼、工具鋼 Alloy Steel 、 Tool Steel HRC30~40	100 ~ 300	0.5 ~ 1.2	0.5 ~ 1.5
M	不銹鋼 Stainless Steel	100 ~ 150	0.3 ~ 0.5	0.3 ~ 0.7
K	鑄鐵 FC	100 ~ 300	0.5 ~ 1.2	0.5 ~ 1.5
	球墨鑄鐵 FCD	80 ~ 200	0.5 ~ 1.2	0.5 ~ 1.5
S	鈦合金 Titanium Alloy	30 ~ 60	0.3 ~ 0.5	0.3 ~ 0.7
	耐熱合金 Heat Resistant Alloy	20 ~ 50	0.1 ~ 0.3	0.1 ~ 0.3
H	高硬度鋼 HRC40 ~ 50 Hardened Steel	80 ~ 130	0.1 ~ 0.5	0.1 ~ 0.5
	高硬度鋼 HRC50 ~ 60 Hardened Steel	50 ~ 70	0.05 ~ 0.2	0.05 ~ 0.2



刀具外徑 Tool dia	最大切深 Max depth of cut	最大傾斜角 Max Ramping angle	最大鑽深 Max plunging depth	最大插銑寬度 Max cutting width in plunging	最小加工孔徑 Min machinable hole	最大加工孔徑 Max machinable hole	孔內最大切削寬度 Max cutting width in enlarged hole
DC(mm)	ap (mm)	θ	S (mm)	Q (mm)	d1 Ø	d2 Ø	ae
16	1.0	2.1°	0.3	3.5	22	30	12.5
20	1.0	1.4°	0.3	3.5	30	38	16.5
25	1.0	1.0°	0.3	3.5	40	48	21.5
30	1.0	0.7°	0.3	3.5	50	58	26.5
32	1.0	0.7°	0.3	3.5	54	62	28.5
35	1.0	0.6°	0.3	3.5	60	68	31.5
50	1.0	0.4°	0.3	3.5	90	98	46.5



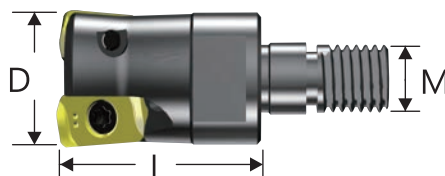
KYO03X

高進給快削刀 High-feed milling cutters



New

Ordering Code		Dimensions / mm				Flutes		Screw	Wrench
Standard	With Coolant	D	d	L1	L				
KYO03X-1602-16B-150	KYO03X-1602-16B-150-C	16	16	30	150	2	XOGU0303 LOGU0303	Y-KYO03 M3.0-0.5	IP8
KYO03X-1702-16B-150	KYO03X-1702-16B-150-C	17	16	20	150	2			
KYO03X-1802-16B-150	KYO03X-1802-16B-150-C	18	16	20	150	2			
KYO03X-2003-20B-150	KYO03X-2003-20B-150-C	20	20	50	150	3			
KYO03X-2103-20B-150	KYO03X-2103-20B-150-C	21	20	30	150	3			
KYO03X-2203-20B-150	KYO03X-2203-20B-150-C	22	20	30	150	3			
KYO03X-2504-25B-150	KYO03X-2504-25B-150-C	25	25	60	150	4			
KYO03X-2604-25B-150	KYO03X-2604-25B-150-C	26	25	40	150	4			
KYO03X-2804-25B-150	KYO03X-2804-25B-150-C	28	25	40	150	4			
KYO03X-3205-32B-150	KYO03X-3205-32B-150-C	32	32	70	150	5			
KYO03X-3305-32B-150	KYO03X-3305-32B-150-C	33	32	50	150	5			
KYO03X-3505-32B-150	KYO03X-3505-32B-150-C	35	32	50	150	5			



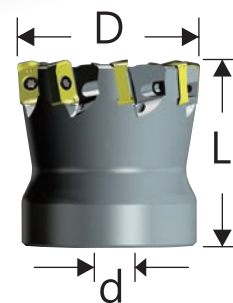
New

Ordering Code		Dimensions / mm			Flutes		Screw	Wrench
Standard	With Coolant	D	M	L				
KYO03X-1702-M08	KYO03X-1702-M08-C	17	M08	26	2	XOGU0303 LOGU0303	Y-KYO03 M3.0-0.5	IP8
KYO03X-1802-M08	KYO03X-1802-M08-C	18	M08	26	2			
KYO03X-2103-M10	KYO03X-2103-M10-C	21	M10	30	3			
KYO03X-2204-M10	KYO03X-2204-M10-C	22	M10	30	4			
KYO03X-2604-M12	KYO03X-2604-M12-C	26	M12	35	4			
KYO03X-2605-M12	KYO03X-2605-M12-C	26	M12	35	5			
KYO03X-2804-M12	KYO03X-2804-M12-C	28	M12	35	4			
KYO03X-2805-M12	KYO03X-2805-M12-C	28	M12	35	5			
KYO03X-3305-M16	KYO03X-3305-M16-C	33	M16	40	5			
KYO03X-3306-M16	KYO03X-3306-M16-C	33	M16	40	6			
KYO03X-3505-M16	KYO03X-3505-M16-C	35	M16	40	5			
KYO03X-3506-M16	KYO03X-3506-M16-C	35	M16	40	6			



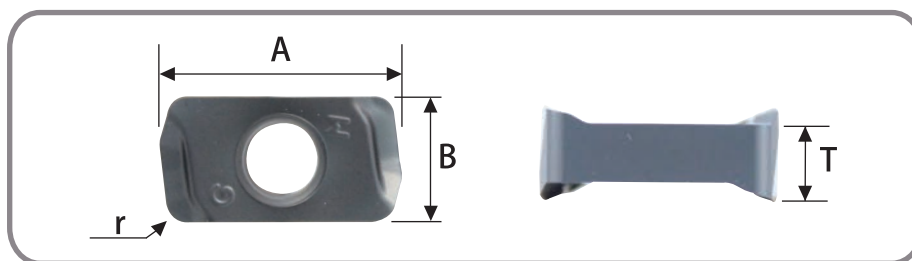
KYO03X

高進給快削刀 High-feed milling cutters



New

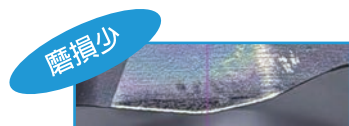
Ordering Code		Dimensions / mm			Flutes		Screw	Wrench
Standard	With Coolant	D	d	L				
KYO03X-040R06-16.0	KYO03X-040R06-16.0-C	40	16	40	6	XOGU0303 LOGU0303	Y-KYO03 M3.0-0.5	IP8
KYO03X-050R08-22.0	KYO03X-050R08-22.0-C	50	22	50	8			



Ordering code	Grades	Dimensions / mm			
		A	B	T	r
XOGU0303-TJ	CTPP235	11.9	6.2	3.96	1.0

P ◎ M ◎ K ◎ N ◎ S ◎ H ◎

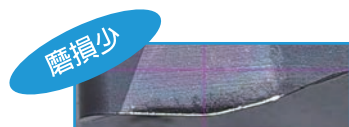
◎ : 優 Excellent ○ : 可 Good



CTPP235

S: 3180 ap:0.5mm
F: 5720 ae:8.4mm
fz: 0.6

Work material : P20 (HRC34)
(250mm X 150mm)
Cutter Dia: 20mm Flutes: 3
Coolant: wet machining
Working hours:155mins
Depth:40 mm



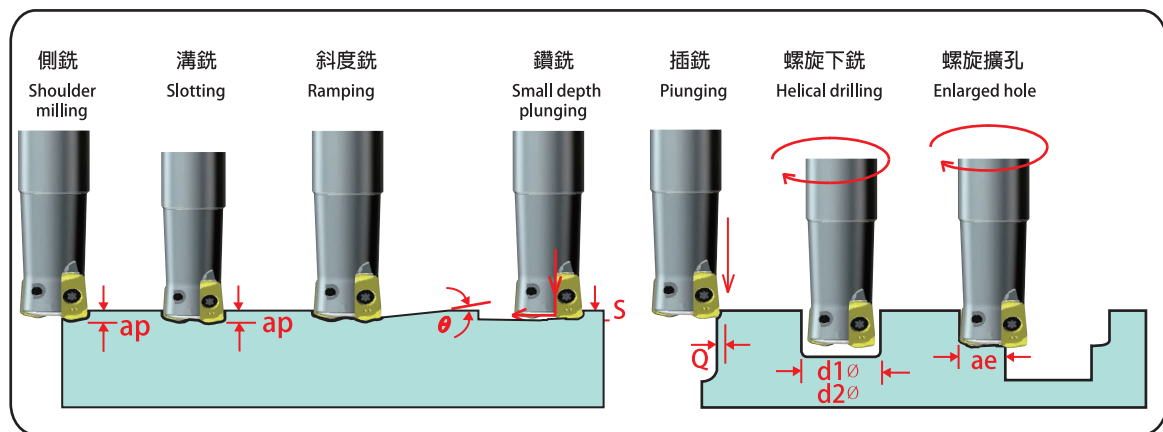
CTPP235

S: 2070 ap:0.5mm
F: 3105 ae:8.4mm
fz: 0.5

Work material : SUS 304
(170mm X 120mm)
Cutter Dia: 20mm Flutes: 3
Coolant: wet machining
Working hours:170mins
Depth:25 mm

XOGU0303-TJ CTPP235 標準切削值

切削材 Work material		切削速度 Vc(m/min)	每刃進給量 fz (mm/t)	
			刀具外徑 DC (mm)	
			16 ~ 21	25 ~ 50
P	碳鋼、合金鋼 Carbon Steel 、 Alloy Steel < HRC30	120 ~ 250	0.2 ~ 1.2	0.2 ~ 1.5
	合金鋼、工具鋼 Alloy Steel 、 Tool Steel HRC30~40	100 ~ 220	0.2 ~ 1.2	0.2 ~ 1.5
M	不銹鋼 Stainless Steel	100 ~ 200	0.2 ~ 0.9	0.2 ~ 0.6
K	鑄鐵 FC	120 ~ 250	0.2 ~ 1.2	0.5 ~ 0.8
	球墨鑄鐵 FCD	100 ~ 200	0.2 ~ 0.9	0.2 ~ 0.6
S	鈦合金 Titanium Alloy	40 ~ 80	0.2 ~ 0.6	0.2 ~ 0.8
	耐熱合金 Heat Resistant Alloy	20 ~ 50	0.2 ~ 0.6	0.2 ~ 0.4
H	高硬度鋼 HRC40 ~ 50 Hardened Steel	60 ~ 130	0.2 ~ 0.5	0.2 ~ 0.6
	高硬度鋼 HRC50 ~ 60 Hardened Steel	50 ~ 70	0.1 ~ 0.2	0.1 ~ 0.2



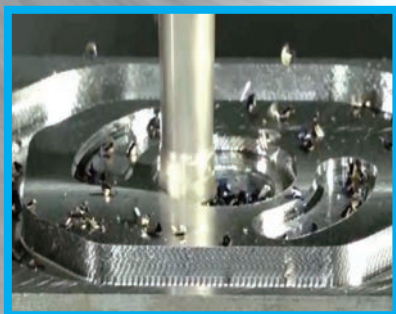
刀具外徑 Tool dia	最大切深 Max depth of cut	最大傾斜角 Max Ramping angle	最大鑽深 Max plunging depth	最大插銑寬度 Max cutting width in plunging	最小加工孔徑 Min machinable hole	最大加工孔徑 Max machinable hole	孔內最大切削寬度 Max cutting width in enlarged hole
DC(mm)	ap (mm)	θ	S (mm)	Q (mm)	d1 ∅	d2 ∅	ae
16	1.0	2.8°	1.0	3.5	24	30	12.0
17	1.0	2.5°	1.0	3.5	26	32	12.5
18	1.0	2.1°	1.0	3.5	28	34	13.0
20	1.0	1.7°	1.0	3.5	32	38	16.0
22	1.0	1.4°	1.0	3.5	36	42	18.0
25	1.0	1.2°	1.0	3.5	42	48	21.0
28	1.0	1.0°	1.0	3.5	48	54	23.5
32	1.0	0.8°	1.0	3.5	56	62	28.0
35	1.0	0.6°	1.0	3.5	62	68	30.5
40	1.0	0.4°	1.0	3.5	72	78	36
50	1.0	0.4°	1.0	3.5	92	98	45



掃 QR code 看影片



Scan QR code to watch the video





TBP

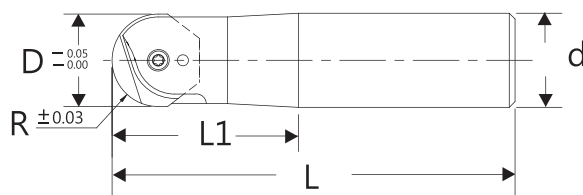
球型精修刀

Finishing Ball milling cutters

P

M

H



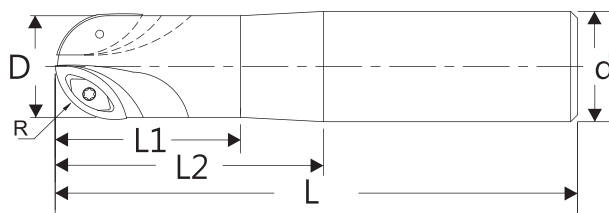
Ordering code	Dimensions / mm						Front Screw	Rear Screw	Wrench
	R	D	L1	d	L				
TBP-08R-130-16	8	16	-	16	130	ZPFW160	Y-TBP08 M4-0.5	Y-TBP08S M3.5-0.6	T15
TBP-08R-130-20	8	16	50	20	130				
TBP-08R-160-16	8	16	65	16	160				
TBP-08R-160-20	8	16	65	20	160				
TBP-08R-220-20	8	16	65	20	220				
TBP-08R-200-25	8	16	65	25	200				
TBP-10R-140-20	10	20	-	20	140	ZPFW200	Y-TBP10 M5-0.5	Y-TBP10S M5-0.8	T20
TBP-10R-140-25	10	20	60	25	140				
TBP-10R-180	10	20	60	20	180				
TBP-10R-250	10	20	60	20	250				
TBP-12.5R-150-25	12.5	25	-	25	150	ZPFW250	Y-TBP125 M6-0.75	Y-TBP125S M5-0.8	T20
TBP-12.5R-150-32	12.5	25	70	32	150				
TBP-12.5R-200	12.5	25	90	25	200				
TBP-12.5R-300-32	12.5	25	90	25	300				
TBP-12.5R-300-42	12.5	25	90	25	300	ZPFW300	Y-TBP15 M8-0.75	Y-TBP15S M6-1.0	T25
TBP-15R-160	15	30	80	32	160				
TBP-15R-220	15	30	100	32	220				
TBP-15R-300	15	30	100	32	300				
TBP-15R-350-32	15	30	100	32	350				
TBP-15R-350-42	15	30	100	42	350				

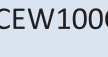
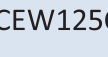
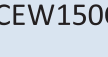


TCF

球型粗銑刀

Roughing ball nose milling cutters



Ordering code	Dimensions / mm								Screw	Wrench
	R	D	L1	L2	d	L				
TCF-10R-140-20	10	20	30	40	20	140			Y-TCF10 M3-0.5	T10
TCF-10R-140-25	10	20	30	60	25	140				
TCF-10R-200	10	20	30	70	25	200				
TCF-10R-250-25	10	20	30	80	25	250				
TCF-10R-250-32	10	20	30	115	32	250				
TCF-10R-300	10	20	30	115	32	250			Y-TCF125 M4-0.7	T15
TCF-12.5R-150-25	12.5	25	35	-	25	150				
TCF-12.5R-150-32	12.5	25	35	70	32	150				
TCF-12.5R-200	12.5	25	35	80	32	200				
TCF-12.5R-250	12.5	25	35	90	32	250				
TCF-12.5R-300	12.5	25	35	105	32	300			Y-TCF15 M5-0.8	T20
TCF-15R-160	15	30	50	80	32	160				
TCF-15R-220	15	30	50	90	32	220				
TCF-15R-280	15	30	50	100	32	280				
TCF-15R-300	15	30	50	100	32	300				
TCF-15R-350	15	30	50	100	32	350				



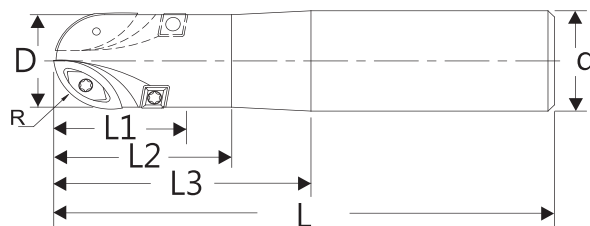
TCFL

球型長刃粗銑刀

Roughing ball nose milling cutters

P

M



Ordering code	Dimensions / mm									Screw		Screw	Wrench
	R	D	L1	L2	L3	d	L						
TCFL-10R-150-20	10	20	30	50	-	20	150	ZCEW100CE	ZCEW100SE	Y-TCF10 M3-0.5	CPMT080204	Y-TJU12 M2.5-0.45	T10
TCFL-10R-150-25	10	20	30	35	70	25	150						
TCFL-10R-200	10	20	30	35	70	25	200						
TCFL-10R-250-25	10	20	30	35	70	25	250						
TCFL-10R-250-32	10	20	30	35	70	32	250						
TCFL-12.5R-180-25	12.5	25	39	-	-	25	180	ZCEW125CE	ZCEW125SE	Y-TCF125 M4-0.7	CPMT090308	Y-TJU25 M4-0.7	T15
TCFL-12.5R-180-32	12.5	25	39	50	80	32	180						
TCFL-12.5R-230	12.5	25	39	50	80	32	230						
TCFL-12.5R-300	12.5	25	39	50	80	32	300						
TCFL-15R-200	15	30	43	60	100	32	200	ZCEW150CE	ZCEW150SE	Y-TCF15 M5-0.8	CPMT090308	Y-TJU25 M4-0.7	T20
TCFL-15R-280	15	30	43	60	100	32	280						
TCFL-15R-350	15	30	43	60	100	32	350						
TCFL-25R-200	25	50	63	100	-	50.8	200	ZCET250CE	ZCET250SK	Y-TCF25 M6-1.0	CPMT120408	Y-TJU32 M5-0.8	T30
TCFL-25R-250	25	50	63	100	-	50.8	250						



T2139

球型精修刀

Finishing ball nose milling cutters

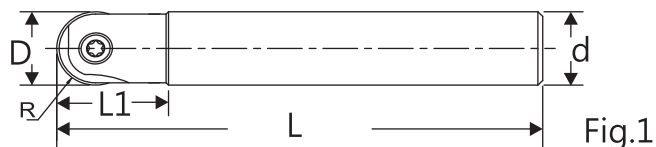
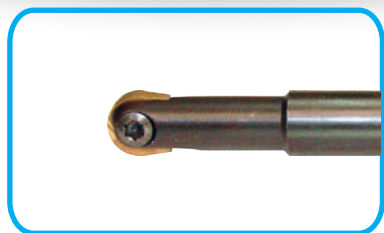


Fig.1

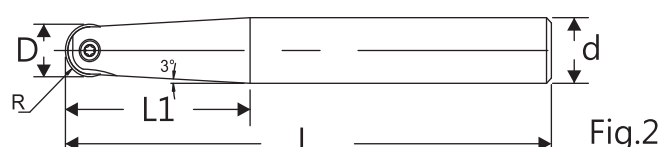


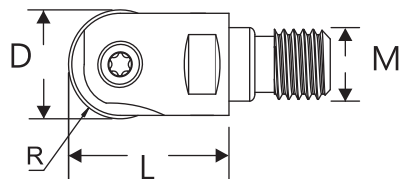
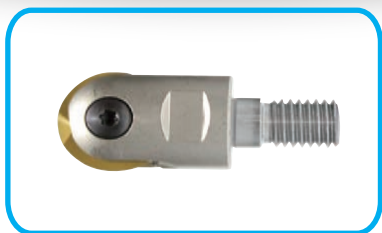
Fig.2

Ordering code	Dimensions / mm					Fig No.		Screw	Wrench
	R	D	L1	d	L				
T2139-04R-140	4	8	45	12	140	2	P32..-D08	Y-2139-4 M3-0.5	T8
T2139-05R-130	5	10	30	12	130	1	P32..-D10	Y-2139-5 M4-0.5	T15
T2139-05R-150	5	10	35	12	150	2			
T2139-06R-130	6	12	32	12	130	1	P32..-D12	Y-2139-6 M5-0.5	T20
T2139-06R-160	6	12	58	16	160	2			
T2139-08R-150	8	16	36	16	150	1	P32..-D16	Y-2139-8 M5-0.5	T20
T2139-08R-200	8	16	65	20	200	2			
T2139-10R-160	10	20	45	20	160	1	P32..-D20	Y-2139-10 M5-0.5	T20
T2139-10R-200-20	10	20	45	20	200	2			
T2139-10R-200	10	20	76	25	200	2			
T2139-10R-225	10	20	76	25	225	2			
T2139-10R-250	10	20	76	25	250	2			
T2139-12.5R-180	12.5	25	45	25	180	1	P32..-D25	Y-2139-125 M6-0.75	T20
T2139-12.5R-210	12.5	25	98	32	210	2			
T2139-12.5R-250	12.5	25	98	32	250	2			
T2139-12.5R-300-32	12.5	25	98	32	300	2			
T2139-12.5R-300	12.5	25	198	42	300	2			
T2139-15.0R-200	15	30	50	25	200	1	P32..-D30	Y-2139-15 M8-0.75	T30
T2139-15.0R-250	15	30	100	25	250	1			
T2139-16R-200	16	32	45	32	200	1	P32..-D32	Y-2139-16 M8-0.75	T30
T2139-16R-250-32	16	32	98	32	250	2			
T2139-16R-250	16	32	98	42	250	2			
T2139-16R-280-32	16	32	98	32	280	2			
T2139-16R-280	16	32	98	42	280	2			



T2139S 球型精修刀

Finishing ball nose milling cutters



Ordering code	Dimensions / mm					Screw	Wrench
	R	D	L	M			
T2139S-08R	8	16	27	M8	P32..-D16	Y-2139-8 M5-0.5	T20
T2139S-10R	10	20	29	M10	P32..-D20	Y-2139-10 M5-0.5	T20
T2139S-12.5R	12.5	25	35	M12	P32..-D25	Y-2139-125 M6-0.75	T20
T2139S-15R	15	30	40	M12	P32..-D30	Y-2139-15 M8-0.75	T30
T2139S-16R	16	32	45	M16	P32..-D32	Y-2139-16 M8-0.75	T30



T2039

球型粗銑刀

Roughing ball nose milling cutters

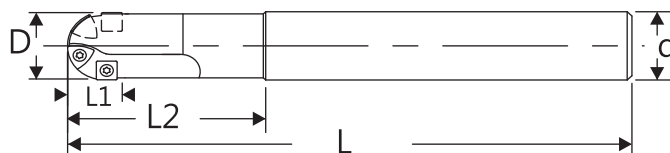


Fig.1

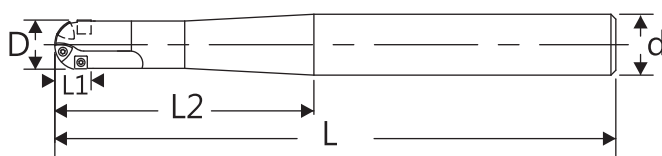


Fig.2

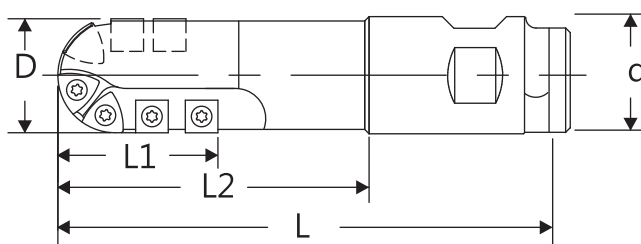


Fig.3

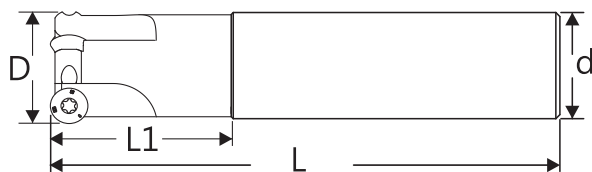
Ordering code	Dimensions / mm						Fig. No.			Screw	Wrench
	R	D	L1	L2	d	L					
T2039-10R-150-43	10	20	20.5	43	20	150	1	P26315-R10	P28415.00 SPLT060304	Y-2039-10 M2.5-0.45	T8
T2039-10R-150-63	10	20	20.5	63	20	150	1				
T2039-10R-225	10	20	20.5	100	25	225	2				
T2039-12.5R-155-43	12.5	25	23	43	25	155	1	P26315-R12	P28415.00 SPLT060304	Y-2039-125 M2.5-0.45	T8
T2039-12.5R-155-75	12.5	25	23	75	25	155	1				
T2039-12.5R-180	12.5	25	23	75	25	180	1				
T2039-12.5R-200	12.5	25	23	100	32	200	2				
T2039-12.5R-250	12.5	25	23	100	32	250	2	P26315-R16	P28415.0 SDLX090308	Y-2039-16 M4-0.7	T15
T2039-16R-200	16	32	31	90	32	200	1				
T2039-16R-225	16	32	31	90	32	225	1				
T2039-16R-250	16	32	31	90	32	250	1				
T2039-16R-275	16	32	31	90	32	275	1	P26315-R25	P28495.1 SPLX120408	Y-2039-25 M5-0.8	T20
T2039-25R-200-42	25	50	66	100	42	200	1				
T2039-25R-250-42	25	50	66	150	42	250	1				
T2039-25R-250-50.8	25	50	66	150	50.8	250	3				



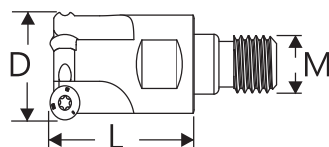
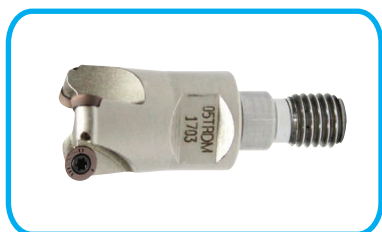
05TRD 角R銑刀

P M

Profile milling cutters



Ordering code	Dimensions / mm				Flutes		Screw	Wrench
	D	L1	d	L				
05TRD-10-100	10	25	10	100	2	RDHW0501 RDLW0501	Y-THSR2.5 M1.8-0.35	T6
05TRD-11-100	11	25	10	100	2			
05TRD-12-100	12	25	12	100	2			
05TRD-13-100	13	25	12	100	2			
05TRD-16-150	16	30	16	150	3			
05TRD-17-150	17	30	16	150	3			



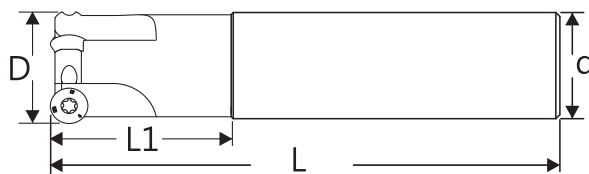
Ordering code	Dimensions / mm			Flutes		Screw	Wrench
	D	L	M				
05TRDM-1002	10	17	M5	2	RDHW0501 RDLW0501	Y-THSR2.5 M1.8-0.35	T6
05TRDM-1102	11	17	M5	2			
05TRDM-1202	12	18	M6	2			
05TRDM-1302	13	18	M6	2			
05TRDM-1303	13	18	M6	3			
05TRDM-1603	16	25	M8	3			
05TRDM-1703	17	25	M8	3			



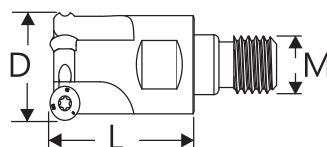
06TRP 角R銑刀

P M

Profile milling cutters



Ordering code	Dimensions / mm				Flutes		Screw	Wrench
	D	L1	d	L				
06TRP-12-100	12	25	12	100	2	RPHW0602 RPLW0602	Y-THSR3 M2.5-0.45	T8
06TRP-13-100	13	25	12	100	2			
06TRP-16-150	16	30	16	150	2			
06TRP-17-150	17	30	16	150	2			
06TRP-17-150-3	17	30	16	150	3			
06TRP-20-150	20	35	20	150	3			
06TRP-21-150	21	35	20	150	3			
06TRP-21-200	21	35	20	200	3			



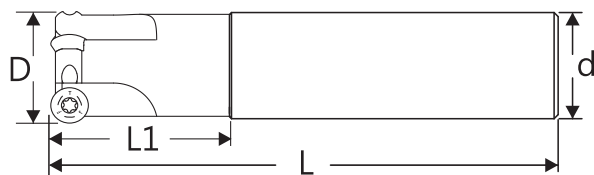
Ordering code	Dimensions / mm			Flutes		Screw	Wrench
	D	L	M				
06TRPM-1202	12	18	M6	2	RPHW0602 RPLW0602	Y-THSR3 M2.5-0.45	T8
06TRPM-1302	13	18	M6	2			
06TRPM-1602	16	25	M8	2			
06TRPM-1702	17	25	M8	2			
06TRPM-1703	17	25	M8	3			
06TRPM-2003	20	30	M10	3			
06TRPM-2103	21	30	M10	3			



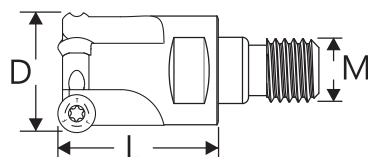
07TRD 角R銑刀

P M

Profile milling cutters



Ordering code	Dimensions / mm				Flutes		Screw	Wrench
	D	L1	d	L				
07TRD-16-150	16	30	16	150	2	RDHW0702 RDLT0702	Y-THSR3.5 M2.5-0.45	T8
07TRD-17-150	17	30	16	150	2			
07TRD-17-200	17	30	16	200	2			
07TRD-20-150	20	35	20	150	3			
07TRD-21-150	21	35	20	150	3			
07TRD-21-200	21	35	20	200	3			
07TRD-25-150	25	35	25	150	4			
07TRD-26-150	26	35	25	150	4			
07TRD-26-200	26	35	25	200	4			



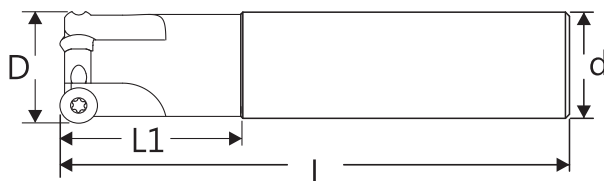
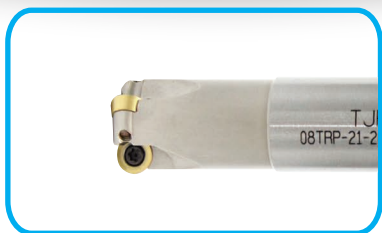
Ordering code	Dimensions / mm			Flutes		Screw	Wrench
	D	L	M				
07TRDM-1602	16	25	M8	2	RDHW0702 RDLT0702	Y-THSR3.5 M2.5-0.45	T8
07TRDM-1702	17	25	M8	2			
07TRDM-2003	20	30	M10	3			
07TRDM-2103	21	30	M10	3			
07TRDM-2504	25	35	M12	4			
07TRDM-2604	26	35	M12	4			
07TRMD-3505	35	45	M16	5			



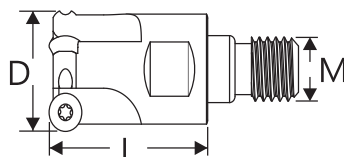
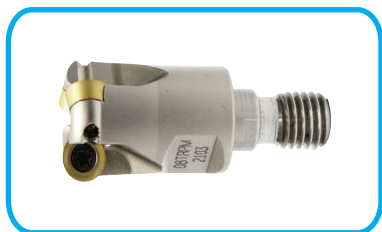
08TRP 角R銑刀

P M

Profile milling cutters



Ordering code	Dimensions / mm				Flutes		Screw	Wrench
	D	L1	d	L				
08TRP-16-150	16	30	16	150	2	RPHW0803 RPLW0803 RPMT0803	Y-THSR4 M3-0.5	T10
08TRP-17-150	17	30	16	150	2			
08TRP-20-160	20	35	20	160	3			
08TRP-21-160	21	35	20	160	3			
08TRP-25-160	25	50	25	160	4			
08TRP-26-160	26	50	25	160	4			
08TRP-26-200	26	50	25	200	4			



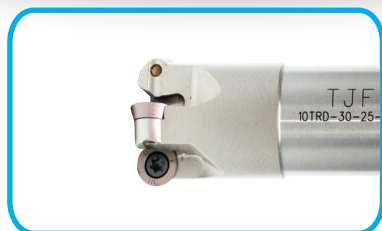
Ordering code	Dimensions / mm			Flutes		Screw	Wrench
	D	L	M				
08TRPM-1602	16	25	M8	2	RPHW0803 RPLW0803 RPMT0803	Y-THSR4 M3-0.5	T10
08TRPM-1702	17	25	M8	2			
08TRPM-2003	20	30	M10	3			
08TRPM-2103	21	30	M10	3			
08TRPM-2503	25	35	M12	3			
08TRPM-2504	25	35	M12	4			
08TRPM-2604	26	35	M12	4			



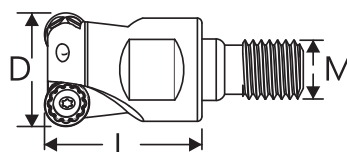
10TRD 角R銑刀



Profile milling cutters



Ordering code	Dimensions / mm				Flutes		Screw	Wrench
	D	L1	d	L				
10TRD-20-150	20	35	20	150	2	RDHW1003 RDLT1003	Y-THSR5 M3.5-0.6	T15
10TRD-21-150	21	35	20	150	2			
10TRD-21-200	21	35	20	200	2			
10TRD-25-150	25	35	25	150	3			
10TRD-26-150	26	35	25	150	3			
10TRD-26-200	26	35	25	200	3			
10TRD-30-150	30	35	25	150	4			
10TRD-30-200	30	35	25	200	4			
10TRD-35-150	35	35	32	150	4			
10TRD-35-200	35	35	32	200	4			



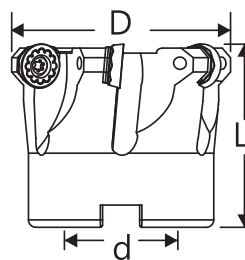
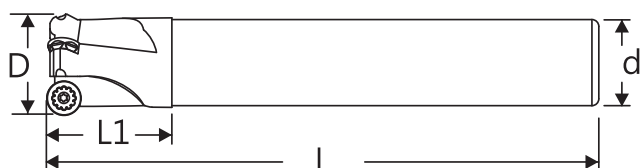
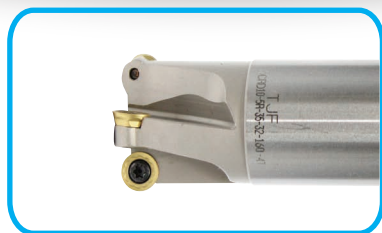
Ordering code	Dimensions / mm			Flutes		Screw	Wrench
	D	L	M				
10TRDM-2002	20	30	M10	2	RDHW1003 RDLT1003	Y-THSR5 M3.5-0.6	T15
10TRDM-2102	21	30	M10	2			
10TRDM-2503	25	35	M12	3			
10TRDM-2603	26	35	M12	3			
10TRDM-3004	30	45	M12	4			
10TRDM-3504	35	45	M16	4			



TCRD10 角R銑刀



Profile milling cutters



經由刀片底座分度,可以強化與刀體的結合,省去壓板佔用的除屑空間,有效節約時間與成本

Clamp free (rotate prevention) Rapid chip-removing

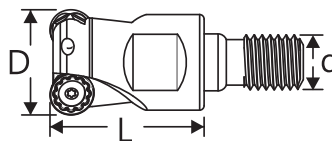
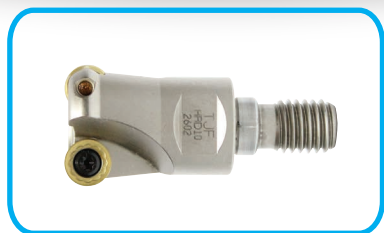
Ordering code	Dimensions / mm				Flutes		Screw	Wrench
	D	L1	d	L				
TCRD10-20-150	20	30	20	150	2	RDLT1003	Y-TCRD10 M3.5-0.6	T15
TCRD10-21-150	21	30	20	150	2			
TCRD10-25-150	25	35	25	150	2			
TCRD10-25-150-3	25	35	25	150	3			
TCRD10-25-200	25	35	25	200	2			
TCRD10-26-150	26	35	30	150	3			
TCRD10-26-200	26	35	30	200	3			
TCRD10-30-160	30	35	32	160	3			
TCRD10-30-200	30	35	32	200	3			
TCRD10-35-160	35	35	32	160	4			
TCRD10-35-200	35	35	32	200	4			
TCRD10-40-160	40	35	32	160	4			
TCRD10-50-22.0	50	-	22.0	40	5			
TCRD10-63-25.4	63	-	25.4	50	6			



HRD10 角R銑刀



Profile milling cutters



經由刀片底座分度,可以強化與刀體的結合,省去壓板佔用的除屑空間,有效節約時間與成本

Clamp free (rotate prevention) Rapid chip-removing

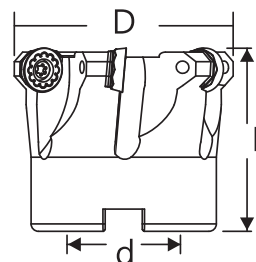
Ordering code	Dimensions / mm			Flutes		Screw	Wrench
	D	L	M				
HRD10-2002	20	30	M10	2	RDLT1003 RDLW1003	Y-TCRD10 M3.5-0.6	T15
HRD10-2102	21	30	M10	2			
HRD10-2502	25	35	M12	2			
HRD10-2503	25	35	M12	3			
HRD10-2602	26	35	M12	2			
HRD10-2603	26	35	M12	3			
HRD10-3003	30	45	M12	3			



TRP12 角R銑刀



Profile milling cutters



經由刀片底座分度,可以強化與刀體的結合,省去壓板佔用的除屑空間,有效節約時間與成本

Clamp free (rotate prevention) Rapid chip-removing

Ordering code	Dimensions / mm				Flutes		Screw	Wrench
	D	L1	d	L				
TRP12-32-150	32	35	32	150	3	RPMT1204-SCM(TJ)	Y-TRP12 M4-0.7	T15
TRP12-32-200	32	40	32	200	3			
TRP12-35-150	35	35	32	150	4			
TRP12-35-200-3	35	35	32	200	3			
TRP12-35-200-4	35	35	32	200	4			
TRP12-40-150	40	43	32	150	4			
TRP12-40-200	40	43	32	200	4			
TRP12-50-22.0	50	-	22.0	40	4			
TRP12-63-25.4	63	-	25.4	50	6			
TRP12-80-25.4	80	-	25.4	50	7			



TSR

角R銑刀

Profile milling cutters

P

M



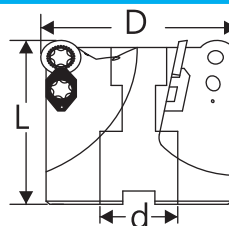
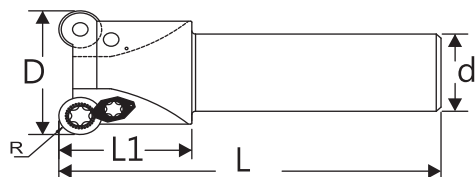
Ordering code	Dimensions / mm				Flutes		Screw	Clamp	Wrench
	D	L1	d	L					
TSR-2.5R-12-090	12	40	12	90	2	RDLW0501	Y-TSR2.5 M1.8-0.35	Y-TSR2.5S M2-0.4	T6
TSR-2.5R-12-120	12	50	12	120	2				
TSR-2.5R-16-120	16	50	16	120	2				
TSR-2.5R-16-160	16	50	16	160	2				
TSR-3.0R-12-090	12	40	12	90	2	RPLW0602	Y-TSR3 M2.5-0.45	Y-TSR3S M2.5-0.45	T8
TSR-3.0R-12-120	12	50	12	120	2				
TSR-3.0R-16-120	16	50	16	120	2				
TSR-3.0R-16-160	16	50	16	160	2				
TSR-3.0R-20-120	20	40	20	120	2				
TSR-3.0R-20-160	20	40	20	160	2				
TSR-3.5R-16-120	16	50	16	120	2	RDLW0702	Y-TSR3.5 M2.5-0.45	Y-TSR3.5S M2.5-0.45	T8
TSR-3.5R-16-160	16	50	16	160	2				
TSR-3.5R-20-120	20	50	20	120	2				
TSR-3.5R-20-160	20	50	20	160	2				
TSR-4.0R-20-120	20	50	20	120	2	RPLW0803	Y-TSR4 M3-0.5	Y-TSR4S M3-0.5	T10
TSR-4.0R-20-160	20	50	20	160	2				
TSR-5.0R-25-120	25	50	25	120	2	RDLW1003	Y-TSR5 M3.5-0.6	Y-TSR5S M3.5-0.6	T15
TSR-5.0R-25-150	25	50	25	150	2				
TSR-5.0R-25-200	25	50	25	200	2				



TRS

角R銑刀

Profile milling cutters



Ordering code	Dimensions / mm				Flutes		Screw	Clamp	Wrench
	D	L1	d	L					
TRS-4R-12-110	12	25	12	110	1	RDMT0802	Y-TRS8 M2.5-0.45	Y-TRS4 M2.5-0.45	T8
TRS-4R-12-150	12	25	12	150	1				
TRS-4R-16-120	16	25	16	120	2				
TRS-4R-16-160	16	25	16	160	2				
TRS-4R-17-150	17	25	16	150	2				
TRS-4R-20-130	20	25	20	130	2				
TRS-4R-20-180	20	25	20	180	2				
TRS-4R-21-150	21	25	20	150	2	RDMT10T3	Y-TRS15 M4-0.7	Y-EMRW6 M4-0.7	T15
TRS-5R-25-120	25	35	25	120	2				
TRS-5R-25-150	25	35	25	150	2				
TRS-5R-25-200	25	35	25	200	2				
TRS-5R-25-250	25	35	25	250	2				
TRS-5R-26-150	26	35	25	150	2				
TRS-5R-30-120	30	25	25	120	2				
TRS-5R-30-150	30	35	25	150	2				
TRS-5R-30-200	30	35	25	200	2				
TRS-5R-30-250	30	35	25	250	2				
TRS-5R-35-150	35	35	32	150	3				
TRS-5R-35-200	35	35	32	200	3				
TRS-5R-35-250	35	35	32	250	3				
TRS-5R-35-300	35	35	32	300	3				
TRS-5R-40-150	40	35	32	150	3				
TRS-5R-40-200	40	35	32	200	3				
TRS-5R-50-22.0	50	-	22.0	40	4				



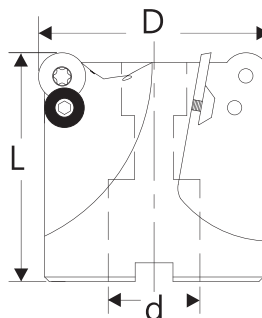
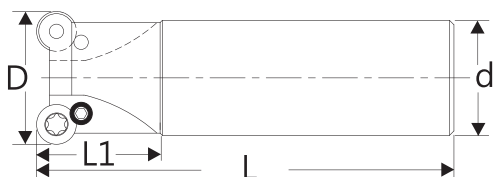
EMR

角R銑刀

Profile milling cutters

P

M



Ordering code	Dimensions / mm				Flutes		Screw	Wrench	Clamp	Key mm
	D	L1	d	L						
EMR-5R-25-120	25	35	20	120	2	RPMW1003	Y-EMR5 M4-0.7	T15	Y-TPR3 3/16-32	3
EMR-5R-25-150	25	35	20	150	2					
EMR-5R-25-25-150	25	45	25	150	2					
EMR-5R-25-180	25	35	25	180	2					
EMR-5R-30-120	30	40	25	120	2					
EMR-5R-30-120-3	30	45	25	120	3					
EMR-5R-30-150	30	35	25	150	2					
EMR-5R-30-32-150	30	45	32	150	2					
EMR-5R-30-200	30	35	25	200	2					
EMR-5R-30-32-200	30	35	32	200	2					
EMR-5R-35-120	35	40	32	120	3					
EMR-5R-35-150	35	35	32	150	3					
EMR-5R-35-200	35	35	32	200	3					
EMR-5R-35-250	35	40	32	250	3					
EMR-5R-35-300	35	35	32	300	3					
EMR-5R-50-22.0	50	-	22.0	40	4					
EMR-6R-40-120	40	40	32	120	3	RPMW1203	Y-EMR6 M4-0.7	T15	Y-TPR3 3/16-32	3
EMR-6R-40-180	40	40	32	180	3					
EMR-6R-40-230	40	40	32	230	3					
EMR-6R-40-300	40	40	32	300	3					
EMR-6R-50-200	50	45	32	200	3					



EMRW

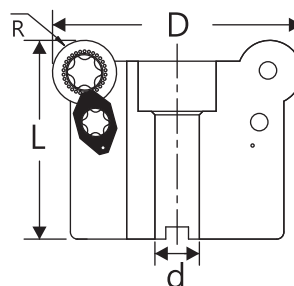
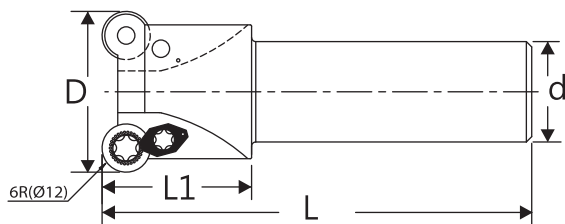
角R銑刀

Profile milling cutters

P

M

H



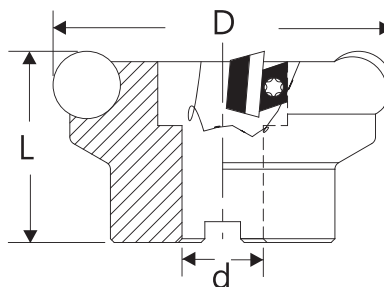
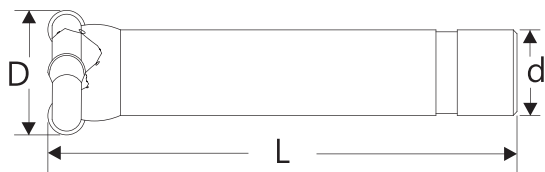
Ordering code	Dimensions / mm				Flutes		Screw	Clamp	Wrench
	D	L1	d	L					
EMRW-6R-32-150	32	36	25	150	2	RPMT1204 RPMW1204	Y-EMRW6R M4-0.7	Y-EMRW6 M4-0.7	T15
EMRW-6R-32-200	32	40	25	200	2				
EMRW-6R-32-250	32	40	25	250	2				
EMRW-6R-35-150	35	40	32	150	3				
EMRW-6R-40-120	40	40	32	120	3				
EMRW-6R-40-180	40	40	32	180	3				
EMRW-6R-40-230	40	40	32	230	3				
EMRW-6R-50-150-32	50	45	32	150	4				
EMRW-6R-50-150-42	50	45	42	150	4				
EMRW-6R-50-200	50	50	42	200	4				
EMRW-6R-50-22.0	50	-	22.0	50	4				
EMRW-6R-63-22.0	63	-	22.0	50	5				
EMRW-6R-63-25.4	63	-	25.4	50	5				
EMRW-6R-92-31.75	92	-	31.75	55	6				
EMRW-6R-112-31.75	112	-	31.75	55	7				
EMRW-8R-63-22.0	63	-	22.0	50	4	RDMX1604 RDMT1604	Y-EMRW8R M5-0.8	Y-EMRW6 M4-0.7	T15 T20
EMRW-8R-63-25.4	63	-	25.4	50	4				
EMRW-8R-66-25.4	66	-	25.4	50	4				
EMRW-8R-80-25.4	80	-	25.4	50	5				
EMRW-8R-80-31.75	80	-	31.75	50	5				
EMRW-8R-100-31.75	100	-	31.75	50	6				
EMRW-8R-116-31.75	116	-	31.75	50	6				



TJR

角R銑刀

Profile milling cutters



Ordering code	Dimensions / mm			Flutes		Clamp	Clamp Key	Shim	Shim Screw	Shim Key
	D	d	L							
TJR-10R-55-200	55	42	200	3	RPMN2004	Y-TJR3 5/16-24	4	-	-	-
TJR-10R-55-250	55	42	250	3						
TJR-10R-55-300	55	42	300	3						
TJR-10R-65-150	65	32	150	3						
TJR-10R-65-200	65	42	200	3						
TJR-10R-65-250	65	42	250	3						
TJR-10R-65-300	65	42	300	3						
TJR-10R-65-350	65	42	350	3						
TJR-10R-80-25.4	80	25.4	50	4		Y-5251 5/16-24	4	Y-TJR1	Y-TJR2 M4-0.7	2
TJR-10R-96-31.75	96	31.75	55	5						



TAQ

鑽銑刀

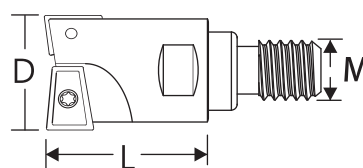
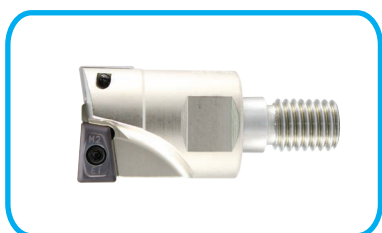
Multi-functional



All kinds of purpose



Ordering code	Dimensions / mm				Flutes		Screw	Wrench
	D	d	L1	L				
TAQ-16-150	16	16	30	150	2	QOMT0830R	Y-TAQ16 M2-0.4	T6
TAQ-17-150	17	16	30	150	2			
TAQ-20-150	20	20	30	150	2	QOMT1035T	Y-TAQ20 M2.5-0.45	T8
TAQ-21-150	21	20	30	150	2			
TAQ-25-150	25	25	35	150	2	QOMT1342R	Y-TAQ25 M3-0.5	T8
TAQ-26-150	26	25	35	150	2			
TAQ-32-150	32	32	35	150	2	QOMT1651R	Y-TAQ32 M4-0.7	T15
TAQ-33-150	33	32	35	150	2			
TAQ-40-150	40	32	35	150	2	QOMT2062R	Y-TAQ40 M5-0.8	T20



Ordering code	Dimensions / mm			Flutes		Screw	Wrench
	D	L	M				
TAQS-17	17	26	M8	2	QOMT0830R	Y-TAQ16 M2-0.4	T6
TAQS-21	21	30	M10	2	QOMT1035R	Y-TAQ20 M2.5-0.45	T8
TAQS-26	26	34	M12	2	QOMT1342R	Y-TAQ25 M3-0.5	T8
TAQS-32	32	43	M16	2	QOMT1651R	Y-TAQ32 M4-0.7	T15
TAQS-33	33	43	M16	2			



TJU

鑽銑刀

Multi-functional



All kinds of purpose

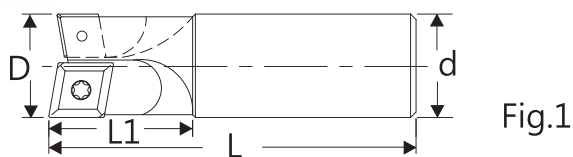


Fig.1

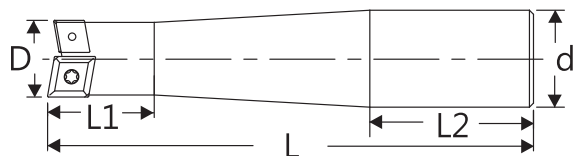


Fig.2

Ordering code	Dimensions / mm					Fig. No.	Flutes			Screw	Wrench
	D	L1	L2	d	L						
TJU-12-100	12	30	-	12	100	1	1	CPMT080204	-	Y-TJU12 M2.5-0.45	T8
TJU-12-130	12	30	-	12	130	1	1				
TJU-16-120	16	30	-	16	120	1	2	CCMT060204	CPMT080204Z	Y-TJU12 M2.5-0.45	T8
TJU-16-150	16	30	-	16	150	1	2				
TJU-16-175	16	30	-	16	175	1	2				
TJU-17-150	17	30	-	16	150	1	2				
TJU-17-200	17	30	-	16	200	1	2				
TJU-20-120	20	30	-	20	120	1	2	CCMT060204	CPMT090204Z	Y-TJU16 M2.5-0.45 Y-TJU20 M3.5-0.6	T8 T15
TJU-20-150	20	30	-	20	150	1	2				
TJU-20-185	20	30	-	20	185	1	2				
TJU-20-235	20	30	140	25	235	2	2				
TJU-20-285	20	30	190	25	285	2	2				
TJU-21-150	21	30	-	20	150	1	2				
TJU-21-200	21	30	-	20	200	1	2	CPMT090308	CPMT120308Z	Y-TJU25 M4-0.7	T15
TJU-25-130	25	40	-	25	130	1	2				
TJU-25-160	25	40	-	25	160	1	2				
TJU-25-220	25	40	-	25	220	1	2				
TJU-25-250	25	70	-	25	250	1	2				
TJU-25-270	25	40	136	32	270	2	2				
TJU-25-300	25	200	-	25	300	1	2				
TJU-25-320	25	40	186	32	320	2	2				
TJU-26-150	26	40	-	25	150	1	2				
TJU-26-200	26	40	-	25	200	1	2				
TJU-26-260	26	40	-	25	160	1	2	CPMT120408	CPMT160408Z	Y-TJU32 M5-0.8	T20
TJU-26-310	26	40	-	25	310	1	2				
TJU-32-150	32	40	-	32	150	1	2				
TJU-32-230	32	40	-	32	230	1	2				
TJU-32-260	32	40	-	32	260	1	2				
TJU-32-300	32	200	-	32	300	1	2				
TJU-33-160	33	40	-	32	160	1	2				
TJU-33-210	33	40	-	32	210	1	2				
TJU-33-260	33	40	-	32	260	1	2				
TJU-33-320	33	40	-	32	320	1	2				



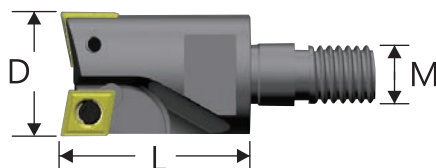
TJUS

鑽銑刀

Multi - functional



All kinds of purpose



New

Ordering Code	Dimensions / mm			Flutes			Screw	Wrench
	D	M	L					
TJUS-1702-M08	17	M08	25	2	CCMT060204	CPMT080204Z	Y-TJU12 M2.5-0.45	T8
TJUS-2102-M10	21	M10	30	2	CCMT060204	CPMT090204Z	Y-TJU12 M2.5-0.45	T8
							Y-TJU20 M3.5-0.6	T15
TJUS-2602-M12	26	M12	35	2	CPMT090308	CPMT120308Z	Y-TJU25 M4-0.7	T15



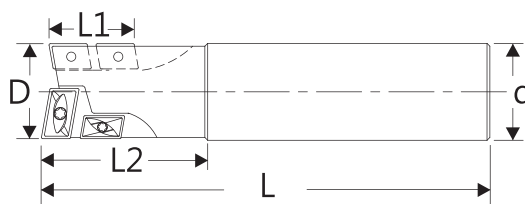
TSJ

鑽銑刀

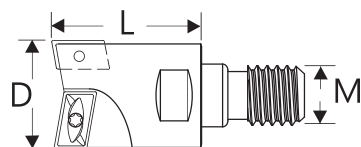
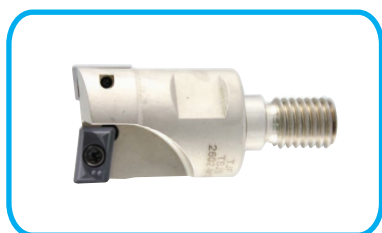
Multi-functional



All kinds of purpose



Ordering code	Dimensions / mm						Pcs		Pcs	Screw	Wrench
	D	L1	L2	d	L						
TSJ-20-130	20	20	35	20	130	ADMT100308L	1	ACMT100308R	3	Y-TSJ20 M2.5-0.45	T8
TSJ-20-185	20	20	60	20	185						
TSJ-21-185	21	20	35	20	185						
TSJ-25-140	25	25	40	25	140	ADMT12T308L	1	APMT12T308R	3	Y-TSJ25 M3-0.5	T10
TSJ-25-220	25	25	60	25	220						
TSJ-26-220	26	25	35	25	220						
TSJ-26-300	26	25	40	25	300	APMT160408L	1	APMT150408R	3	Y-TSJ32 M4-0.7	T15
TSJ-32-150	32	32	50	32	150						
TSJ-32-230	32	32	90	32	230						
TSJ-35-150	35	35	50	32	150	APMT170408L	1	APMT150408R	3	Y-TSJ32 M4-0.7	T15
TSJ-35-230	35	35	50	32	230						
TSJ-35-350	35	35	50	32	350						
TSJ-40-160	40	40	55	32	160	APMT190508L	1	APMT150408R	4	Y-TSJ32 M4-0.7	T15
TSJ-40-240	40	40	55	32	240						
TSJ-40-400	40	40	55	32	400						



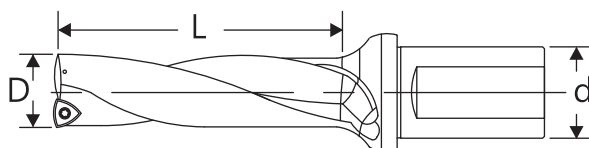
Ordering code	Dimensions / mm			Flutes			Screw	Wrench
	D	L	M					
TSJS-2102	21	29	M10	2	ADMT100308L	ACMT100308R	Y-TSJ20 M2.5-0.45	T8
TSJS-2602	26	34	M12	2	ADMT12T308L	APMT12T308R	Y-TSJ25 M3-0.5	T10
TSJS-3302	33	43	M16	2	APMT160408L	APMT150408R	Y-TSJ32 M4-0.7	T15
TSJS-3502	35	43	M16	2	APMT170408L			
TSJS-4002	40	43	M16	2	APMT190508L			



THD

快速鑽

Indexable drill



Ordering code	Dimensions / mm				Screw	Wrench
	D	L1	d			
THD-3D-14	14	42	25	WCMX030208	Y-WCMT03 M2-0.4	T7
THD-3D-15	15	45	25			
THD-3D-16	16	48	25			
THD-3D-17	17	51	25			
THD-3D-18	18	54	25			
THD-3D-19	19	57	25			
THD-3D-20	20	60	25	WCMX040208	Y-WCMT04 M2.5-0.45	T8
THD-3D-21	21	63	25			
THD-3D-22	22	66	25			
THD-3D-23	23	69	25			
THD-3D-24	24	72	25			
THD-3D-25	25	75	32			
THD-3D-26	26	78	32	WCMT050308	Y-WCMT05 M3-0.5	T10
THD-3D-27	27	81	32			
THD-3D-28	28	84	32			
THD-3D-29	29	87	32			
THD-3D-30	30	90	32			
THD-3D-31	31	93	32			
THD-3D-32	32	96	32	WCMT06T308	Y-WCMT06 M3.5-0.6	T15
THD-3D-33	33	99	32			
THD-3D-34	34	102	32			
THD-3D-35	35	105	32			
THD-3D-36	36	108	32			
THD-3D-37	37	111	32			
THD-3D-38	38	114	32			
THD-3D-39	39	117	32			
THD-3D-40	40	120	40			



THD

快速鑽

Indexable drill



Ordering code	Dimensions / mm				Screw	Wrench
	D	L1	d			
THD-3D-41	41	123	40	WCMT080412	Y-WCMT08 M4-0.7	T15
THD-3D-42	42	126	40			
THD-3D-43	43	129	40			
THD-3D-44	44	132	40			
THD-3D-45	45	135	40			
THD-3D-46	46	138	40			
THD-3D-47	47	141	40			
THD-3D-48	48	144	40			
THD-3D-49	49	147	40			
THD-3D-50	50	150	40			

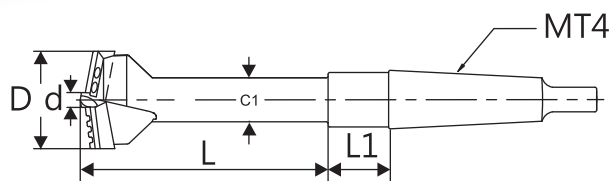
Ordering code	Dimensions / mm				Screw	Wrench
	D	L1	d			
THD-4D-15	15	60	25	WCMX030204	Y-WCMT03 M2-0.4	T7
THD-4D-17	17	68	25			
THD-4D-19	19	76	25			
THD-4D-21	21	84	25	WCMX040208	Y-WCMT04 M2.5-0.45	T8
THD-4D-24	24	96	25			
THD-4D-25	25	100	32			
THD-4D-26	26	104	32	WCMT050308	Y-WCMT05 M3-0.5	T10
THD-4D-29	29	116	32			
THD-4D-30	30	120	32			
THD-4D-31	31	124	32			
THD-4D-34	34	136	32	WCMT06T308	Y-WCMT06 M3.5-0.6	T15
THD-4D-35	35	140	32			
THD-4D-39	39	156	40			
THD-4D-40	40	160	40			
THD-4D-44	44	176	40	WCMT080412	Y-WCMT08 M4-0.7	T15
THD-4D-45	45	180	40			
THD-4D-49	49	196	40			
THD-4D-50	50	200	40			



JD

大口徑鑽

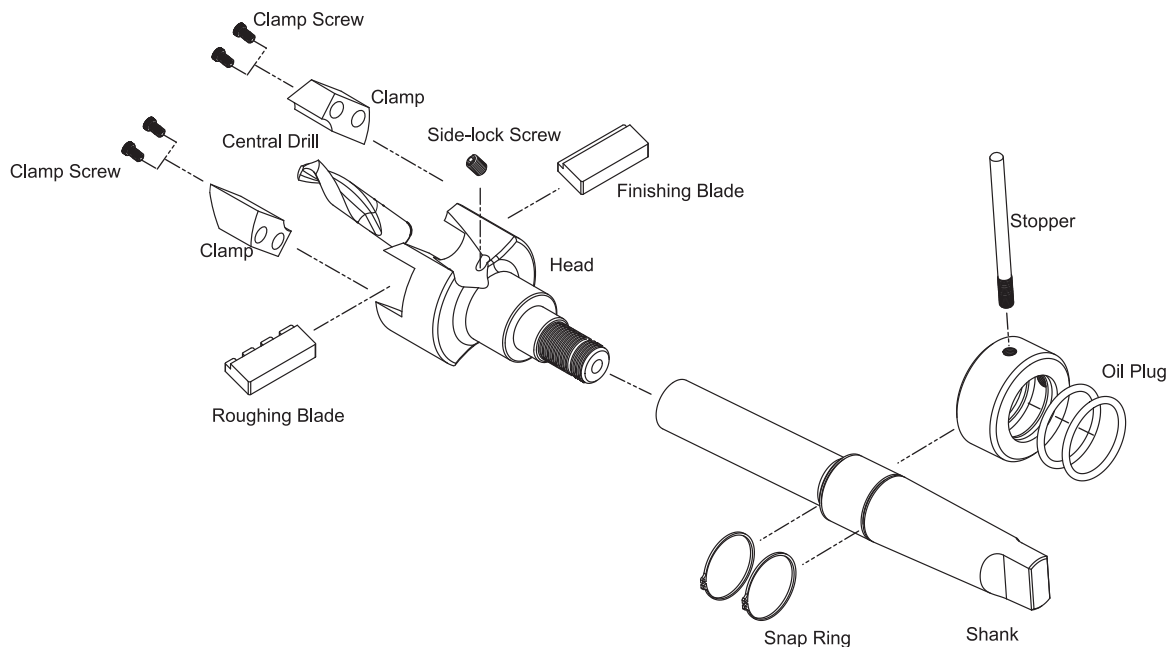
Movably drill



Ordering code	Hole Dia.		d	C1	L1	L	HSS Insert		Clamp Set	Center Drill
	D Min	D Max					A Type	B Type		
JD-55	50	55	12	26	34	250	50-53	53-55	Y-JD055 M4-0.7	DD-12-A DD-12-B (Coolant)
JD-65	55	65		26			55-60	60-65	Y-JD065 M5-0.8	
JD-80	65	80		30			65-73	73-80	Y-JD080 M6-1.0	
JD-100	80	100		34			80-90	90-100	Y-JD100 M6-1.0	

組裝方式 Assembly method

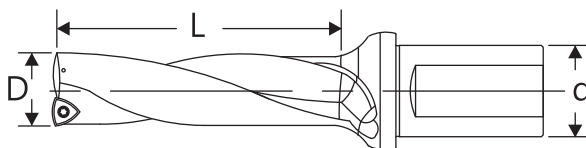
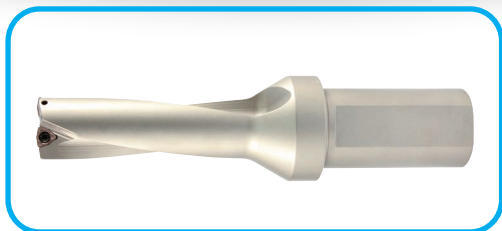
- 大口徑鑽的刀刀由粗切削、精修刀片以及中心鑽所構成。 Movably drill's cutting edge consists of three cutters, roughing blade, finishing blade and central drill.
- 先鬆開中心鑽側固螺絲將中心鑽置入頭部。 Insert the central drill into the head
- 再放入粗切削刀片對應凸字部位，並將刀片推入與中心鑽的溝槽緊密結合。 Clamp the roughing blade(R) in the seat with 凸 mark, the inside edge must contact tightly against the side slot of the central drill to prevent turning free.
- 接著放入精修刀片對應Ⅲ部位鎖緊。 Clamp the finishing(S) in the seat with Ⅲ mark.
- 最後鎖緊中心鑽側固螺絲。 Finally, tighten the central drill side-lock screw.





SUM..W-3D 快速鑽頭

Indexable drill

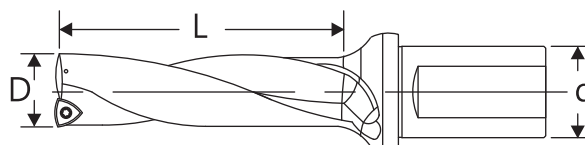
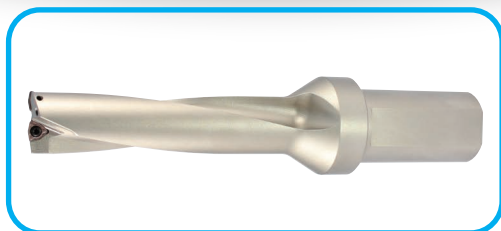


Ordering Code	Dimensions / mm			Flutes		Screw	Wrench
	D	d	L1				
SUM03W-15.0-25E-3D	15	25	45	2	WCMX030208	Y-SUM03W M2.5-0.45	T8
SUM03W-16.0-25E-3D	16	25	48				
SUM03W-17.0-25E-3D	17	25	51				
SUM03W-18.0-25E-3D	18	25	54				
SUM03W-19.0-25E-3D	19	25	57				
SUM03W-20.0-25E-3D	20	25	60		WCMX040208	Y-SUM04W M2.5-0.45	T8
SUM04W-21.0-25E-3D	21	25	63				
SUM04W-22.0-32E-3D	22	32	66				
SUM04W-23.0-25E-3D	23	25	69				
SUM04W-24.0-25E-3D	24	25	72				
SUM04W-25.0-32E-3D	25	32	75		WCMT050308	Y-SUM05W M3-0.5	T10
SUM05W-26.0-32E-3D	26	32	78				
SUM05W-27.0-32E-3D	27	32	81				
SUM05W-28.0-32E-3D	28	32	84				
SUM05W-29.0-32E-3D	29	32	87				
SUM05W-30.0-32E-3D	30	32	90		WCMT06T308	Y-SUM06W M3.5-0.6	T15
SUM05W-31.0-32E-3D	31	32	93				
SUM05W-32.0-32E-3D	32	32	96				
SUM05W-33.0-32E-3D	33	32	99				
SUM06W-34.0-32E-3D	34	32	102				
SUM06W-35.0-32E-3D	35	32	105		WCMT080412	Y-SUM08W M4-0.7	T15
SUM06W-36.0-32E-3D	36	32	108				
SUM06W-37.0-32E-3D	37	32	111				
SUM06W-38.0-32E-3D	38	32	114				
SUM06W-39.0-32E-3D	39	32	117				
SUM06W-40.0-32E-3D	40	32	120		WCMT080412	Y-SUM08W M4-0.7	T15
SUM06W-41.0-40E-3D	41	40	123				
SUM06W-42.0-40E-3D	42	40	126				
SUM08W-43.0-40E-3D	43	40	129				
SUM08W-44.0-40E-3D	44	40	132				
SUM08W-45.0-40E-3D	45	40	135				
SUM08W-46.0-40E-3D	46	40	138				
SUM08W-47.0-40E-3D	47	40	141				
SUM08W-48.0-40E-3D	48	40	144				
SUM08W-49.0-40E-3D	49	40	147				
SUM08W-50.0-40E-3D	50	40	150				



SUM..W-4D 快速鑽頭

Indexable drill



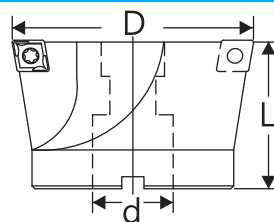
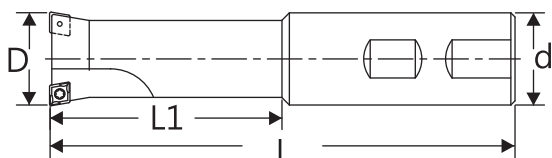
Ordering Code	Dimensions / mm			Flutes		Screw	Wrench
	D	d	L1				
SUM03W-15.0-25E-4D	15	25	60	2	WCMX030208	Y-SUM03W M2.5-0.45	T8
SUM03W-16.0-25E-4D	16	25	64				
SUM03W-17.0-25E-4D	17	25	68				
SUM03W-18.0-25E-4D	18	25	72				
SUM03W-19.0-25E-4D	19	25	76				
SUM03W-20.0-25E-4D	20	25	80				
SUM04W-21.0-25E-4D	21	25	84		WCMX040208	Y-SUM04W M2.5-0.45	T8
SUM04W-22.0-32E-4D	22	32	88				
SUM04W-23.0-25E-4D	23	25	92				
SUM04W-24.0-25E-4D	24	25	96				
SUM04W-25.0-32E-4D	25	32	100				
SUM05W-26.0-32E-4D	26	32	104		WCMT050308	Y-SUM05W M3-0.5	T10
SUM05W-27.0-32E-4D	27	32	108				
SUM05W-28.0-32E-4D	28	32	112				
SUM05W-29.0-32E-4D	29	32	116				
SUM05W-30.0-32E-4D	30	32	120				
SUM05W-31.0-32E-4D	31	32	124				
SUM05W-32.0-32E-4D	32	32	128		WCMT06T308	Y-SUM06W M3.5-0.6	T15
SUM05W-33.0-32E-4D	33	32	132				
SUM06W-34.0-32E-4D	34	32	136				
SUM06W-35.0-32E-4D	35	32	140				
SUM06W-36.0-32E-4D	36	32	144				
SUM06W-37.0-32E-4D	37	32	148				
SUM06W-38.0-32E-4D	38	32	152		WCMT080412	Y-SUM08W M4-0.7	T15
SUM06W-39.0-40E-4D	39	40	156				
SUM06W-40.0-40E-4D	40	40	160				
SUM06W-41.0-40E-4D	41	40	164				
SUM06W-42.0-40E-4D	42	40	168				
SUM08W-43.0-40E-4D	43	40	172				
SUM08W-44.0-40E-4D	44	40	176				
SUM08W-45.0-40E-4D	45	40	180				
SUM08W-46.0-40E-4D	46	40	184				
SUM08W-47.0-40E-4D	47	40	188				
SUM08W-48.0-40E-4D	48	40	192				
SUM08W-49.0-40E-4D	49	40	196				
SUM08W-50.0-40E-4D	50	40	200				



TDL

雙刃粗搪刀

Twin-edge rough boring cutters



Ordering code	Dimensions / mm				Flutes		Screw	Wrench
	D	L1	d	L				
TDL-012	11.7	30	16	160	1	CCMT060204	Y-TDL1 M2.5-0.45	T8
TDL-013	12.7	30	16	160	1			
TDL-014	13.7	30	16	160	1			
TDL-015	14.7	30	16	160	1			
TDL-016-135	15.7	50	16	135	2			
TDL-016-160	15.7	70	16	165	2			
TDL-017	16.7	70	16	160	2			
TDL-018-135	17.7	70	16	135	2			
TDL-018-150	17.7	50	16	150	2			
TDL-019	18.7	50	16	160	2			
TDL-020-16	19.7	40	16	160	2			
TDL-020-20	19.7	90	20	160	2			
TDL-021	20.7	30	16	160	2			
TDL-022	21.7	90	20	160	2			
TDL-023	22.7	80	20	160	2			
TDL-024	23.7	80	20	160	2			
TDL-025-160	24.7	45	20	160	2			
TDL-025-190	24.7	110	25	190	2			
TDL-026-160	25.7	45	20	160	2			
TDL-026-190	25.7	100	25	190	2			
TDL-027	26.7	50	25	200	2			
TDL-028	27.7	50	25	200	2			
TDL-029	28.7	50	25	200	2			
TDL-030	29.7	60	25	210	2	CCMT09T308	Y-TDL2 M4-0.7	T15
TDL-031	30.7	60	25	210	2			
TDL-032	31.7	60	25	210	2			
TDL-033	32.7	60	25	210	2			
TDL-034	33.7	50	25	200	2			
TDL-035	34.7	60	32	250	2			
TDL-036	35.7	60	32	250	2			
TDL-037	36.7	60	32	250	2			

Ordering code	Dimensions / mm				Flutes		Screw	Wrench
	D	L1	d	L				
TDL-038	37.7	60	32	250	2	CCMT09T308	Y-TDL2 M4-0.7	T15
TDL-039	38.7	60	32	250	2			
TDL-040-250	39.7	60	32	250	2			
TDL-040-270	39.7	60	32	270	2			
TDL-041	40.7	60	32	250	2			
TDL-042	41.7	60	32	250	2			
TDL-043	42.7	60	32	250	2			
TDL-044	43.7	60	32	250	2			
TDL-045-250	44.7	60	32	250	2			
TDL-045-310	44.7	60	32	310	2			
TDL-046	45.7	60	32	260	2			
TDL-047-200	46.7	60	32	200	2			
TDL-047-260	46.7	60	32	260	2			
TDL-048	47.7	60	32	260	2			
TDL-049	48.7	60	32	260	2			
TDL-050-260-32	49.7	60	32	260	2			
TDL-050-260-42	49.7	60	42	260	2			
TDL-050-310-32	49.7	60	32	310	2			
TDL-050-310-42	49.7	60	42	310	2			
TDL-050-22.0	49.7	-	22.0	50	2			
TDL-052	51.7	60	42	260	2			
TDL-055-250	54.7	60	42	250	2			
TDL-055-330	54.7	60	42	330	2			
TDL-060-260	59.7	60	42	260	2			
TDL-060-350	59.7	60	42	350	2			
TDL-060-22.0	59.7	-	22.0	50	2			
TDL-060-25.4	59.7	-	25.4	50	2			
TDL-062-22.0	61.7	-	22.0	50	2	CCMT120408	Y-TDL3 M5-0.8	T20
TDL-062-25.4	61.7	-	25.4	50	2			
TDL-065-25.4	64.7	-	25.4	50	2			
TDL-068-25.4	67.7	-	25.4	50	2			
TDL-070-25.4	69.7	-	25.4	50	2			
TDL-072-25.4	71.7	-	25.4	50	2			
TDL-075-25.4	74.7	-	25.4	50	2			
TDL-080-25.4	79.7	-	25.4	50	2			
TDL-085-25.4	84.7	-	25.4	50	2			
TDL-090-31.75	89.7	-	31.75	50	2			
TDL-095-31.75	94.7	-	31.75	50	2			
TDL-100-31.75	99.7	-	31.75	50	2			



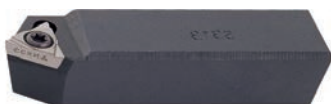
SBS

精搪車刀柄

Fine boring bars



45°



30°



90°

Ordering code	Dimensions / mm				Screw	Wrench
	D	L	θ			
SBS-106	6	35	90°	TBGT0601	Y-SBS06 M2-0.4	T6
SBS-108	8	55		TPGH0802	Y-SBS08 M2-0.4	T7
SBS-110	10	65		TPGH0902	Y-SBS10 M2.5-0.45	T8
SBS-113	13	80		TPGH1103	Y-SBS13 M3-0.5	T10
SBS-116	16	120		TPGH1603	Y-SBS19 M4-0.7	T15
SBS-119	19	140				
SBS-306	6	35	30°	TBGT0601	Y-SBS06 M2-0.4	T6
SBS-308	8	55		TPGH0802	Y-SBS08 M2-0.4	T7
SBS-310	10	65		TPGH0902	Y-SBS10 M2.5-0.45	T8
SBS-313	13	80		TPGH1103	Y-SBS13 M3-0.5	T10
SBS-316	16	120		TPGH1603	Y-SBS19 M4-0.7	T15
SBS-319	19	140				
SBS-406	6	35	45°	TBGT0601	Y-SBS06 M2-0.4	T6
SBS-408	8	55		TPGH0802	Y-SBS08 M2-0.4	T7
SBS-410	10	65		TPGH0902	Y-SBS10 M2.5-0.45	T8
SBS-413	13	80		TPGH1103	Y-SBS13 M3-0.5	T10
SBS-416	16	120		TPGH1603	Y-SBS19 M4-0.7	T15
SBS-419	19	140				



CBS

粗搪車刀柄

Rough boring bars



45°



30°



90°

Ordering code	Dimensions / mm				Screw	Wrench
	D	L	θ			
CBS-108	8	55	90°	CCMT0602	Y-CBS08 M2.5-0.45	T8
CBS-110	10	65				
CBS-113	13	80			Y-CBS-13 M4-0.7	T15
CBS-116	16	120				
CBS-119	19	140	30°	CCMT1204	Y-CBS19 M5-0.8	T20
CBS-308	8	55		CCMT0602	Y-CBS08 M2.5-0.45	T8
CBS-310	10	65				
CBS-313	13	80			Y-CBS-13 M4-0.7	T15
CBS-316	16	120				
CBS-319	19	140			Y-CBS19 M5-0.8	T20
CBS-408	8	55	45°	CCMT0602	Y-CBS08 M2.5-0.45	T8
CBS-410	10	65				
CBS-413	13	80			Y-CBS-13 M4-0.7	T15
CBS-416	16	120				
CBS-419	19	140			Y-CBS19 M5-0.8	T20

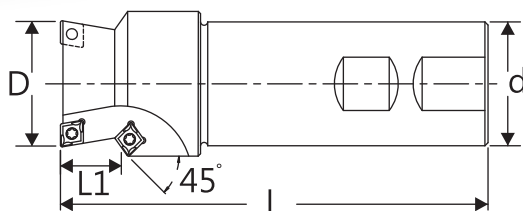


TCD

六角沉頭刀

Counter sinking cutters

P M K



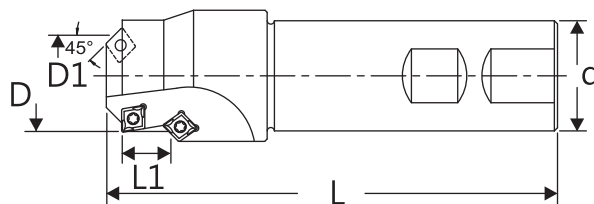
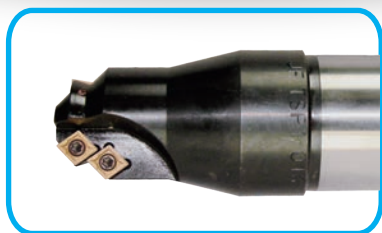
Ordering Code	Dimensions / mm				Flutes		Screw	Wrench
	D	L1	d	L				
TCD-06	11	7	32	120	2	CCMT060204	Y-TCD1 M2.5-0.45	T8
TCD-08	14	9	32	120	2			
TCD-10	18	11	32	120	3			
TCD-12	20	13.5	32	120	3			
TCD-14	24	15	32	120	3			
TCD-16	26	18	32	120	3	CCMT09T308	Y-TCD2 M4-0.7	T15
TCD-20	32	22	32	120	3			
TCD-24	39	26	32	120	3			
TCD-30	48	32	32	120	3			



TSP

導柱沉頭刀

Post-guide sinking cutters



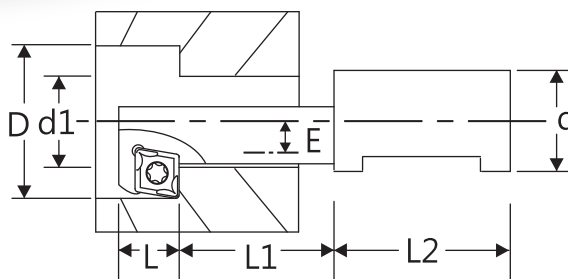
Ordering Code	Dimensions / mm					Flutes		Screw	Wrench			
	D	D1	L1	d	L							
TSP-16	21	16	6.5	32	120	3	CCMT060204	Y-TSP M2.5-0.45	T8			
TSP-16-1	21	16	8.5	32	120							
TSP-20	26	20	8.5	32	120							
TSP-25	31	25	8.5	32	120							
TSP-30	36	30	8.5	32	120	4						
TSP-35	41	35	8.5	32	120							
TSP-35-1	41	35	10.5	32	120							
TSP-40	46	40	8.5	32	120							
TSP-40-1	46	40	10.5	32	120							
TSP-45	51	45	10.5	32	120							
TSP-50	56	50	10.5	32	120							
TSP-55	61	55	10.5	32	120							
TSP-55-1	61	55	11.5	32	120							
TSP-60	66	60	10.5	32	120							
TSP-60-1	66	60	12.5	32	120							
TSP-65	71	65	12.5	32	120							
TSP-65-1	71	65	15.5	32	120							
TSP-70	76	70	15.5	32	120							



TBCS

倒拉沉頭刀

Back counter-sink tool



New

Ordering Code	Dimensions / mm							 	Screw	Wrench
	D	d1	d	L	L1	L2	E			
TBCS-M08	13.5	9	20	13	50	50	2.5	WDXT042004	Y-TBCS-0 M1.8-0.35	IP6
TBCS-M10	18	10.5	16	13	35	48	4	CCMT060204	Y-TBCS-1 M2.5-0.45	T8
TBCS-M12	20	13	16	13	40	48	3.85			
TBCS-M16	26	17	20	13	50	50	4.85	CCMT09T308	Y-TBCS-2 M4-0.7	T15
TBCS-M20	33	21	25	13	70	56	6.4			
TBCS-M24	40	25	25	13	80	56	7.9			

● 加工順序 **Back boring process**

a. 主軸定位 **Spindle orientation**

b. 偏心位移 (E值) **Shift spindle out of center (E)**

c. Z軸深入 **Feed tool in the bore**

d. 恢復E值 **Shift spindle back to center**

e. 正轉向上加工 **Spindle on, machining upward to required position**

f. 主軸定位 **Spindle orientation**

g. 偏心位移 (E值) **Shift spindle out of center (E)**

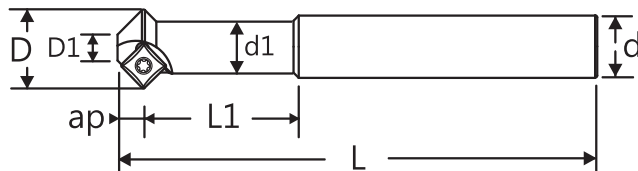
h. 向上移出, 加工完成 **Move the tool upward from the workpiece**



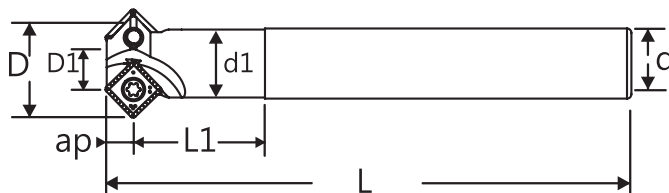
45°倒角刀

P M K

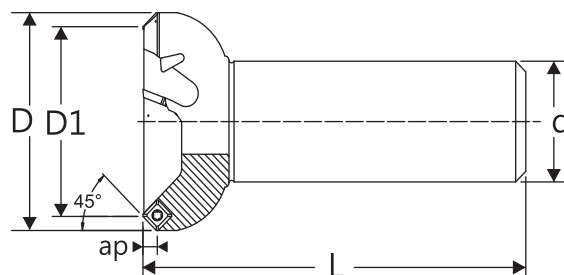
45° Chamfering cutters



Ordering Code	Dimensions / mm							Flutes		Screw	Wrench
	D	D1	d1	L1	d	L	ap				
TSCD-16	16	7	10	50	12	120	3	1	SPMT0602	Y-TSCD M2.5-0.45	T8



Ordering Code	Dimensions / mm							Flutes		Screw	Wrench
	D	D1	d1	L1	d	L	ap				
EMCD-13	23	13	15.5	20	16	120	4.2	2	SDLT09T3- AEEN	Y-EMCD M4-0.7	T15



Ordering Code	Dimensions / mm					Flutes		Screw	Wrench
	D	D1	d	L	ap				
EMCD-36	46	36	20	120	4.2	4	SDLT09T3- AEEN	Y-EMCD M4-0.7	T15



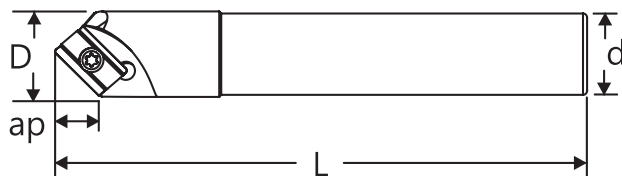
45°倒角銑刀

45° Chamfering cutters

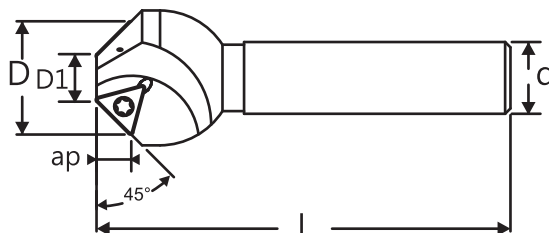
P M K



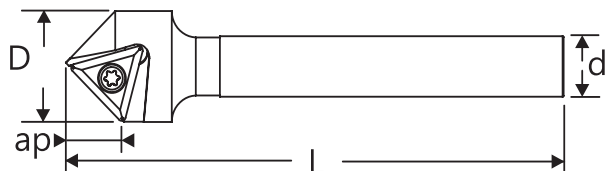
倒角範圍
Angle Range
3 ~ 20



Ordering code	Dimensions / mm				Flutes		Screw	Wrench
	D	ap	d	L				
TSK-20-130	20	9	20	130	1	ADET1603 ADNT1603	Y-TEX25 M4-0.7	T15



Ordering code	Dimensions / mm					Flutes		Screw	Wrench
	D	D1	d	L	ap				
TCR-2	16	2	12	80	5	1	TCMT1102	Y-TCR M2.5-0.45	T8
TCR-7	21	7	16	100	5	2			



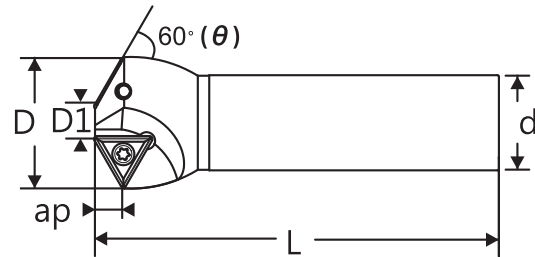
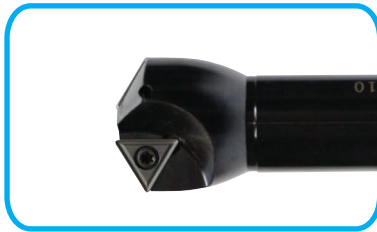
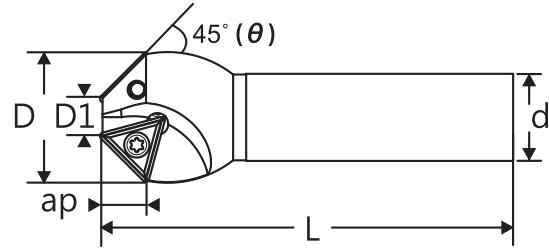
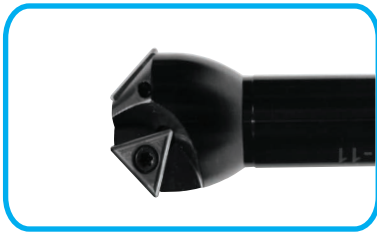
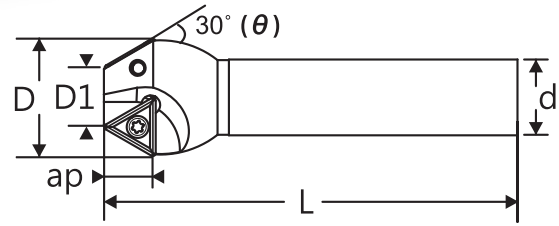
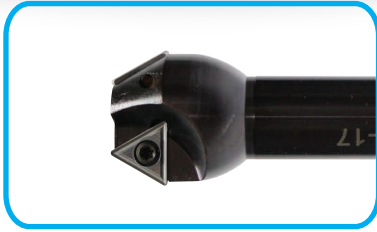
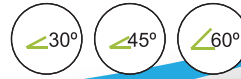
Ordering code	Dimensions / mm				Flutes		Screw	Wrench
	D	d	L	ap				
TCR-EN22-4	22	12	120	9	1	TCMT16T3	Y-TCR-L M4-0.7	T15



倒角銑刀

P M K

Chamfering cutters



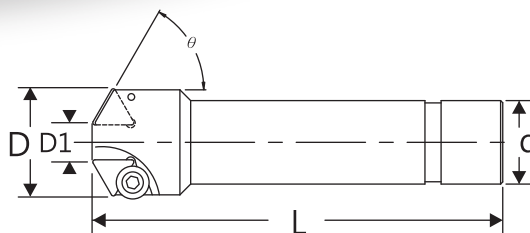
Ordering code	Dimensions / mm						Flutes		Screw	Wrench
	D	D1	d	L	θ	ap				
TCR-17-3	32	17	20	120	30	11	2	TCMT16T3	Y-TCR-L M4-0.7	T15
TCR-11-4	32	11	20	120	45	9	2			
TCR-10-6	35	10	25	120	60	6	2			



倒角銑刀

P M K N H

Chamfering cutters



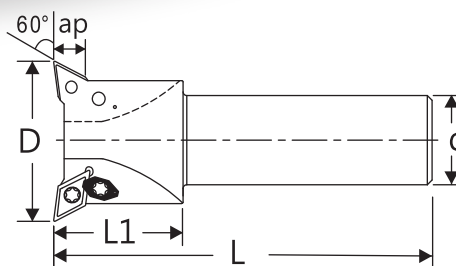
Ordering code	Dimensions / mm						Flutes		Clamp	Key
	θ	D	D1	d	L	ap				
TPR-40-32-150-3	30	40	26	32	150	7	2	TPMN220412	Y-TPR5 5/16-24	5
TPR-50-32-150-3	30	50	31	32	150	7	2			
TPR-55-32-150-3	30	55	36	32	150	7	3			
TPR-32-20-120-4	45	32	12	20	120	9	2	TPMN160308	Y-TPR4 1/4-28	4
TPR-50-32-120-4	45	50	22	32	120	13	3	TPMN220412	Y-TPR5 5/16-24	5
TPR-50-32-150-6	60	50	21	32	150	17	3			
TPR-55-32-150-6	60	55	26	32	150	17	3			

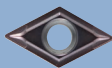


60°鳩尾槽銑刀

P M K N H

60° Dove-tail cutters



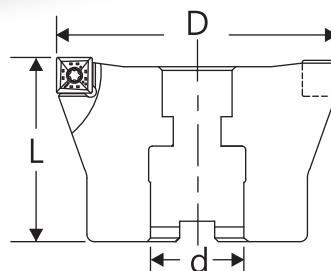
Ordering code	Dimensions / mm					Flutes		Clamp	Screw	Wrench
	D	ap	d	L1	L					
TDCR-40-150	40	9.5	25	30	150	3	DCMT11T3	Y-EMRW6 M4-0.7	Y-TDCR M4-0.7	T15
TDCR-50-150	50	9.5	32	35	150	3				
TDCR-60-150	60	9.5	32	35	150	4				



90°快削面銑刀



90° High feed face milling cutters

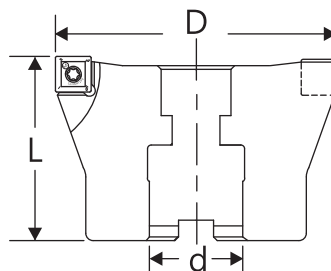


For CERATIZIT insert

Ordering code	Dimensions / mm			Flutes		Screw	Wrench
	D	d	L				
TSD12-063-C	63	25.4	50	4	SDMT1205	Y-TSD12-3 M4.5-0.75	T15
TSD12-080-C	80	25.4	50	5			
TSD12-100-C	100	31.75	50	6			

For KENNAMETAL insert

Ordering code	Dimensions / mm			Flutes		Screw	Wrench
	D	d	L				
TSD12-063-KE	63	25.4	50	4	SDMT1205	Y-TSD12-2 M4-0.7	T15
TSD12-080-KE	80	25.4	50	5			
TSD12-100-KE	100	31.75	50	6			
TSD12-125-KE	125	38.1	60	7			
TSD12-160-KE	160	50.8	60	10			



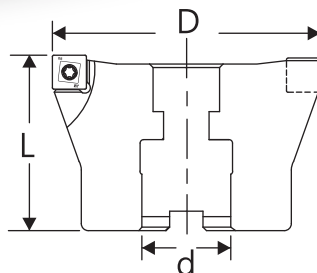
Ordering code	Dimensions / mm			Flutes		Screw	Wrench
	D	L	d				
R290-050R05-22.0	50	40	22.0	5	R290-12T308	Y-R290 M3.5-0.6	T15
R290-063R06-25.4	63	50	25.4	6			
R290-080R08-25.4	80	50	25.4	8			
R290-100R10-31.75	100	50	31.75	10			



90°快削面銑刀



90° High feed face milling cutters



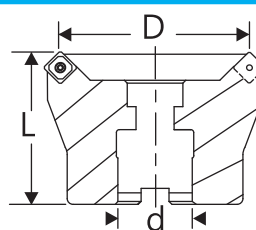
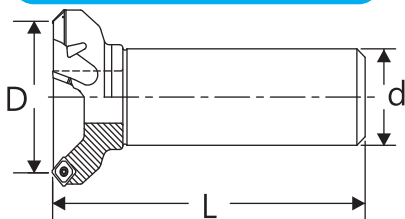
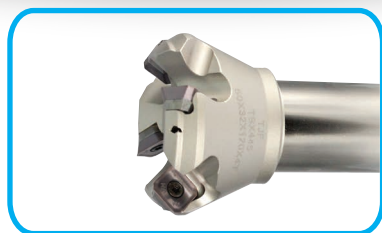
Ordering code	Dimensions / mm			Flutes	
	D	d	L		
TSX400-050	50	22.0	40	4	SOMT12T308
TSX400-063-4	63	25.4	50	4	
TSX400-063-5	63	25.4	50	5	
TSX400-080	80	25.4	50	6	
TSX400-100	100	31.75	50	7	
TSX400-130	130	38.1	60	8	
TSX400-160	160	50.8	60	10	

Shim	Shim Screw	Key	Screw	Wrench
				
Y-TSX400-2	Y-TSX400-3 M5-0.5	3.5	Y-TSX400-1 M3.5-0.6	T15



45°快削面銑刀

45° High feed face milling cutters



Ordering code	Dimensions / mm			Flutes	
	D	d	L		
TSX445-050-32	50	32	120	4	SEMT13T3
TSX445-050-04	50	22.0	40	4	
TSX445-063-04	63	25.4	50	4	
TSX445-063-05	63	25.4	50	5	
TSX445-080-04	80	25.4	50	4	
TSX445-080-06	80	25.4	50	6	
TSX445-100-05	100	31.75	50	5	
TSX445-100-07	100	31.75	50	7	
TSX445-130-06	130	38.1	60	6	
TSX445-130-08	130	38.1	60	8	
TSX445-160-07	160	50.8	60	7	
TSX445-160-10	160	50.8	60	10	
TSX445-210-08	210	47.625	60	8	
TSX445-210-12	210	47.625	60	12	
TSX445-260-10	260	47.625	60	10	
TSX445-260-14	260	47.625	60	14	

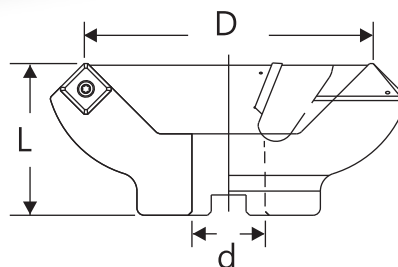
Shim	Shim Screw	Key	Screw	Wrench
				
Y-TSX445-2	Y-TSX445-3 M5-0.5	3.5	Y-TSX445-1 M3.5-0.6	T15



45°快削面銑刀

P M K N H

45° High feed face milling cutters



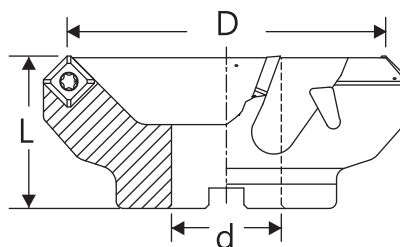
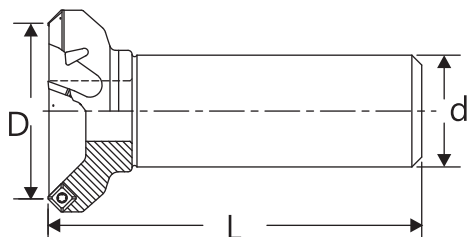
Ordering code	Dimensions / mm			Flutes		Screw	Wrench
	D	d	L				
SEX-080	80	25.4	50	5	SEMT13T3	Y-SEX M4-0.7	T15
SEX-100	100	31.75	55	5			
SEX-130	130	38.1	60	6			
SEX-160	160	50.8	60	7			
SEX-210	210	47.625	60	8			
SEX-260	260	47.625	60	10			
SEX01-080	80	25.4	50	6			
SEX01-100	100	31.75	55	7			
SEX01-130	130	38.1	60	8			
SEX01-160	160	50.8	60	10			
SEX01-210	210	47.625	60	12			
SEX01-260	260	47.625	60	14			



45°快削面銑刀



45° High feed face milling cutters



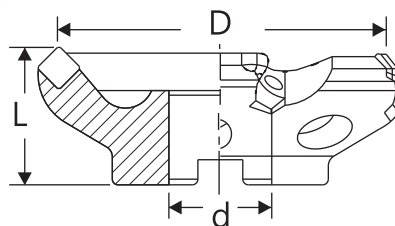
Ordering code	Dimensions / mm			Flutes	 	Screw	Wrench
	D	d	L				
EMCF-50-20-120	50	20	120	4	SELT1204 SEKT1204 SEHW1204 SELW1204	Y-EMCF M4.5-0.75	T15
EMCF-50-25-120	50	25	120	4			
EMCF-50-32-120	50	32	120	4			
EMCF-50-32-150	50	32	150	4			
EMCF-50-22.0	50	22.0	50	4			
EMCF-63-20-120	63	20	120	5			
EMCF-63-25-120	63	25	120	5			
EMCF-63-32-120	63	32	120	5			
EMCF-63-32-150	63	32	150	5			
EMCF-63-22.0	63	22.0	50	5			
EMCF-63-25.4	63	25.4	50	5			
EMCF-80	80	25.4	50	6			
EMCF-100	100	31.75	55	6			
EMCF-125	125	38.1	60	8			
EMCF-160	160	50.8	60	10			
EMCF-210	210	47.625	60	12			



45°減重式快削面銑刀

P M K H

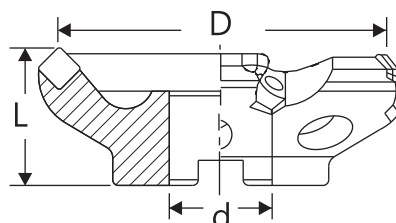
45° Lighten face milling cutters



Ordering code	Dimensions / mm			Flutes		Clamp	Clamp Screw	Shim	Shim Screw	Key
	D	d	L							
SE445-063-22.0	63	22.0	50	4	SEKN1203	Y-SE41 5/16-24	Y-5254 5/16-24	Y-SE42 M3-0.5	Y-SE M3-0.5	4
SE445-063-25.4	63	25.4	50	4						
SE445-03	80	25.4	50	5						
SE445-04	100	31.75	55	6						
SE445-05	125	38.1	60	7						
SE445-06	160	50.8	60	8						
SE445-08	200	47.625	60	10						
SE445-10	250	47.625	60	12						
SE445-12	300	47.625	60	14						

Left cutting (左向)

Ordering code	Dimensions / mm			Flutes		Clamp	Clamp Screw	Shim	Shim Screw	Key
	D	d	L							
SE445-10-L	250	47.625	60	12	SEKN1203	Y-SE41L 5/16-24	Y-5254 5/16-24	Y-SE42 M3-0.5	Y-SE M3-0.5	4



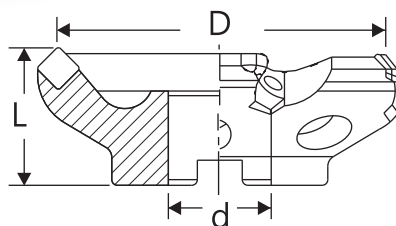
刀片高度為
Insert Height is  11.3

Ordering code	Dimensions / mm			Flutes		Clamp	Clamp Screw	Shim	Shim Screw	Key
	D	d	L							
SE445-04-S	100	31.75	55	6	SEKN11.3	Y-SE41 5/16-24	Y-5254 5/16-24	Y-SE42 M3-0.5	Y-SE M3-0.5	4
SE445-05-S	125	38.1	60	7						
SE445-06-S	160	50.8	60	8						
SE445-08-S	200	47.625	60	10						



45°減重式快削面銑刀

45° Lighten face milling cutters



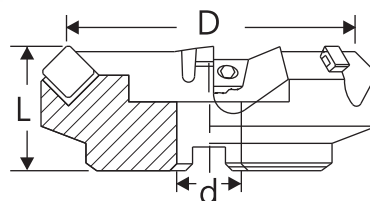
Ordering code	Dimensions / mm			Flutes		Clamp	Clamp Screw	Shim	Shim Screw	Key
	D	d	L							
SE545-03	80	25.4	50	5	SEKN1504	Y-SE51 5/16-24	Y-5254 5/16-24	Y-SE52 M3-0.5	Y-SE M3-0.5	4
SE545-04	100	31.75	55	6						
SE545-05	125	38.1	60	7						
SE545-06	160	50.8	60	8						
SE545-08	200	47.625	60	10						
SE545-10	250	47.625	60	12						
SE545-12	300	47.625	60	14						



45°面銑刀盤

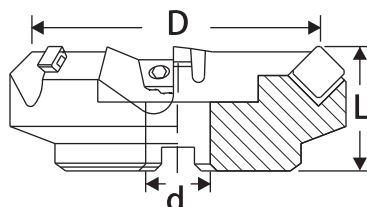
P M K H

45° Face milling cutters



Right hand (右向)

Ordering code	Dimensions / mm			Flutes		Clamp	Clamp Screw	Shim	Shim Screw	Clamp Wrench
	D	d	L							
445-03-20	80	25.4	50	5	SEKN1203	Y-525-1-2	Y-525-4 (5/16-24)	Y-525-3-45	Y-525-2 (M4-0.7)	4mm (Hex Key)
445-04-20	100	31.75	55	5						
445-05-20	125	38.1	60	6						
445-06-20	160	50.8	60	8						
445-08-20	200	47.625	65	10						
445-10-20	250	47.625	65	12						
445-12-20	300	47.625	65	14						
445-14-20	356	47.625	65	16		Y-SE41		Y-SE42-1 (M3-0.5)	Y-SE (M3-0.5)	
445-16-20	408	47.625	70	18						



Left hand (左向)

■ Non-stock (非庫存品)

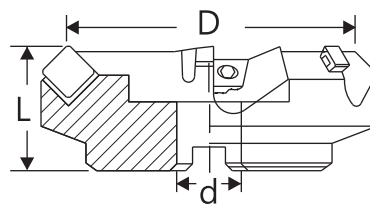
Ordering code	Dimensions / mm			Flutes		Clamp	Clamp Screw	Shim	Shim Screw	Clamp Wrench
	D	d	L							
■ 445-03-20-L	80	25.4	50	5	SEKN1203	Y-445-1-L	Y-525-4 (5/16-24)	Y-445-3-L	Y-525-2 (M4-0.7)	4mm (Hex Key)
■ 445-04-20-L	100	31.75	55	5						
■ 445-05-20-L	125	38.1	60	6						
445-06-20-L	160	50.8	60	8						
445-08-20-L	200	47.625	65	10						
445-10-20-L	250	47.625	65	12						
445-12-20-L	300	47.625	65	14						
445-14-20-L	356	47.625	65	16		Y-SE41-L		Y-SE42-1 (M3-0.5)	Y-SE (M3-0.5)	
445-16-20-L	408	47.625	70	18						



45°面銑刀盤

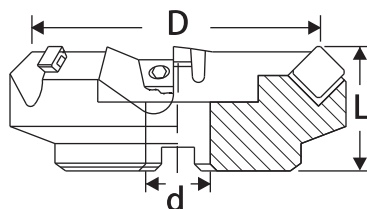


45° Face milling cutters



Right hand (右向)

Ordering code	Dimensions / mm			Flutes		Clamp	Clamp Screw	Shim	Shim Screw	Clamp Wrench
	D	d	L							
545-03-20	80	25.4	50	5	SEKN1504	Y-525-1	Y-525-4 (5/16-24)	Y-525-3-45	Y-525-2 (M4-0.7)	4mm (Hex Key)
545-04-20	100	31.75	55	5						
545-05-20	125	38.1	60	6						
545-06-20	160	50.8	60	8						
545-08-20	200	47.625	65	10						
545-10-20	250	47.625	65	12						
545-12-20	300	47.625	65	14		Y-SE51-L				
545-14-20	356	47.625	65	16						
545-16-20	408	47.625	70	18						



Left hand (左向)

■ Non-stock (非庫存品)

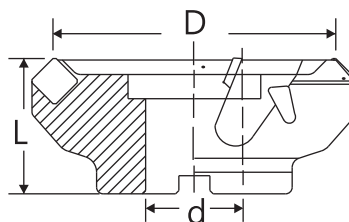
Ordering code	Dimensions / mm			Flutes		Clamp	Clamp Screw	Shim	Shim Screw	Clamp Wrench
	D	d	L							
545-03-20-L	80	25.4	50	5	SEKN1504	Y-545-1-L	Y-525-4 (5/16-24)	Y- 445-3-L	Y-525-2 (M4-0.7)	4mm (Hex Key)
545-04-20-L	100	31.75	55	5						
545-05-20-L	125	38.1	60	6						
545-06-20-L	160	50.8	60	8						
545-08-20-L	200	47.625	65	10						
545-10-20-L	250	47.625	65	12						
545-12-20-L	300	47.625	65	14						
545-14-20-L	356	47.625	65	16		Y-SE51-L		Y-SE52-1 (M3-0.5)	Y-SE (M3-0.5)	
545-16-20-L	408	47.625	70	18						



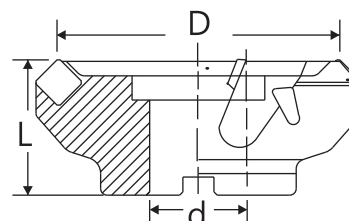
25°面銑刀盤



25° Face milling cutters



Ordering code	Dimensions / mm			Flutes		Clamp	Clamp Screw	Shim	Shim Screw	Key
	D	d	L							
435-03	80	25.4	55	5	SPK43	Y-5251-2 5/16-24	Y-5254 5/16-24	Y-5253	Y-5252 M4-0.7	4
435-04	100	31.75	55	5						
435-05	125	38.1	60	6						
435-05-S	125	38.1	60	8						
435-06	160	50.8	60	8						
435-08	200	47.625	65	10						
435-08-S	200	47.625	65	12						
435-10	250	47.625	65	12						
435-10-S	250	47.625	65	14						
435-12	300	47.625	65	14						



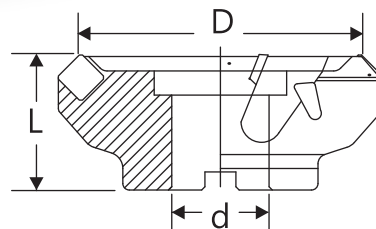
Ordering code	Dimensions / mm			Flutes		Clamp	Clamp Screw	Shim	Shim Screw	Key
	D	d	L							
525-03	80	25.4	55	5	SPK53	Y-5251 5/16-24	Y-5254 5/16-24	Y-5253	Y-5252 M4-0.7	4
525-04	100	31.75	55	5						
525-04-S	100	31.75	60	7						
525-05	125	38.1	60	6						
525-05-S	125	38.1	60	9						
525-06	160	50.8	65	8						
525-06-S	160	50.8	65	12						
525-08	200	47.625	65	10						
525-10	250	47.625	65	12						
525-10-S	250	47.625	65	14						
525-12	300	47.625	65	14						



15°面銑刀



15°Face milling cutters



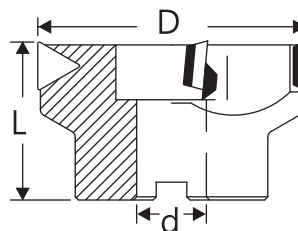
Ordering code	Dimensions / mm			Flutes		Clamp	Clamp Screw	Shim	Shim Screw	Key
	D	d	L							
FP-03	80	25.4	55	5	SPKN1203	Y-5251 5/16-24	Y-5254 5/16-24	Y-5253	Y-5252 M4-0.7	4
FP-04	100	31.75	55	6						
FP-05	125	38.1	60	8						
FP-06	160	50.8	60	10						
FP-08	200	47.625	65	12						
FP-10	250	47.625	65	16						
FP-12	300	47.625	65	20						



直角面銑刀盤

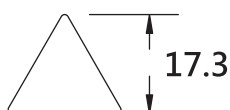
P M K N H

Face milling cutters



Ordering code	Dimensions / mm			Flutes		Clamp	Key	Shim	Shim Screw
	D	d	L						
TPR-50-22.0	50	22.0	50	3	TPMN160308	Y-TPR4 1/4-28	4	-	-
TPR-63-22.0-4T	63	22.0	50	4					
TPR-63-25.4-4T	63	25.4	50	4					
TPR-63-22.0-3T	63	22.0	50	3	TPK43 TPMN220412	Y-TPR5 5/16-24	5	Y-TPR2	Y-TPR1 M4-0.7
TPR-63-25.4-3T	63	25.4	50	3					
TPR-63(+)-25.4-3T	63	25.4	50	3					
TPR-03	80	25.4	55	4					
TPR-03-31.75	80	31.75	55	4					
TRP-04	100	31.75	60	5					
TPR-04.33	110	31.75	60	5					
TPR-05	125	38.1	60	6					
TPR-06	160	50.8	60	7					
TPR-08	200	47.625	65	8					
TPR-10	250	47.625	65	9					

*刀片高度為
*Insert Height is



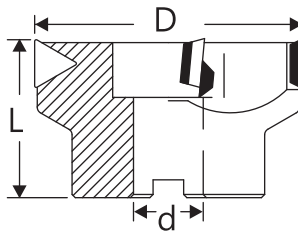
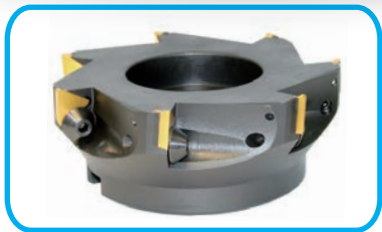
Ordering code	Dimensions / mm			Flutes		Clamp	Key	Shim	Shim Screw
	D	d	L						
TPR-080-N1	80	25.4	55	4	TPK43-N1	Y-TPR5 5/16-24	5	Y-TPR2 -N1	Y-TPR1 M4-0.7
TPR-100-N1	100	31.75	60	5					
TPR-130-N1	130	38.1	60	6					
TPR-160-N1	160	50.8	60	7					
TPR-200-N1	200	47.625	65	8					
TPR-250-N1	250	47.625	65	9					



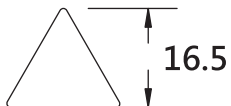
直角面銑刀盤

P M K N H

Face milling cutters

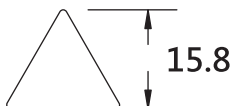


*刀片高度為
*Insert Height is



Ordering code	Dimensions / mm			Flutes		Clamp	Hex Key	Shim	Shim Screw
	D	d	L						
TPR-080-N2	80	25.4	55	4	TPK43-N2	Y-TPR5 5/16-24	5mm	Y-TPR2 -N2	Y-TPR1 M4-0.7
TPR-100-N2	100	31.75	60	5					
TPR-130-N2	130	38.1	60	6					
TPR-160-N2	160	50.8	60	7					
TPR-200-N2	200	47.625	65	8					
TPR-250-N2	250	47.625	65	9					

*刀片高度為
*Insert Height is

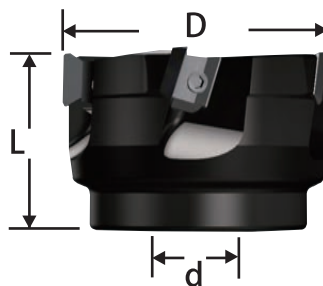
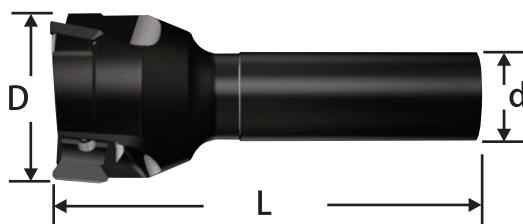
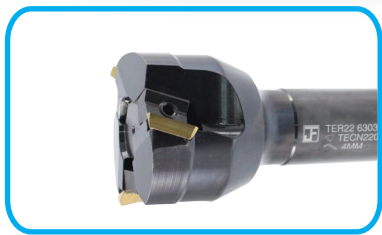


Ordering code	Dimensions / mm			Flutes		Clamp	Hex Key	Shim	Shim Screw
	D	d	L						
TPR-080-N3	80	25.4	55	4	TPK43-N3	Y-TPR5 5/16-24	5mm	Y-TPR2 -N3	Y-TPR1 M4-0.7
TPR-100-N3	100	31.75	60	5					
TPR-130-N3	130	38.1	60	6					
TPR-160-N3	160	50.8	60	7					
TPR-200-N3	200	47.625	65	8					
TPR-250-N3	250	47.625	65	9					



直角面銑刀盤

Face milling cutters

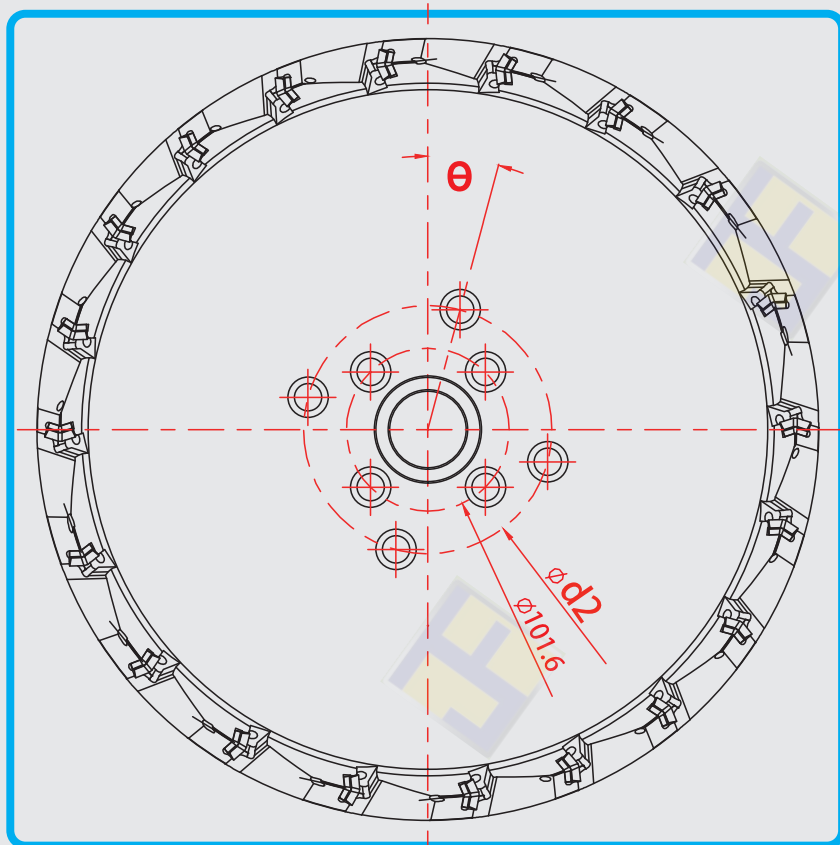


Ordering code	Dimensions / mm			Flutes		Clamp	Key	Clamp Screw
	D	d	L					
TER22-6303-32B-150	63	32	150	3	TEKN2204	Y-TER-1 5/16-24	4	Y-5254 5/16-24
TER22-080R04-25.4	80	25.4	55	4				
TER22-100R05-31.75	100	31.75	55	5				
TER22-130R06-38.1	130	38.1	63	6				
TER22-160R07-50.8	160	50.8	63	7				
TER22-210R08-47.625	210	47.625	63	8				

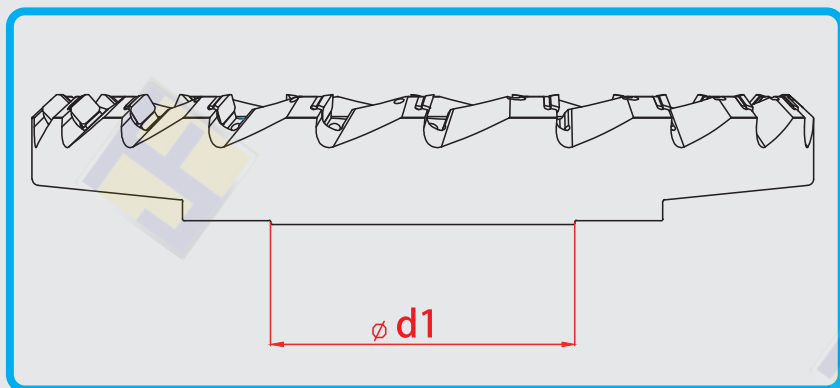


客製化訂單

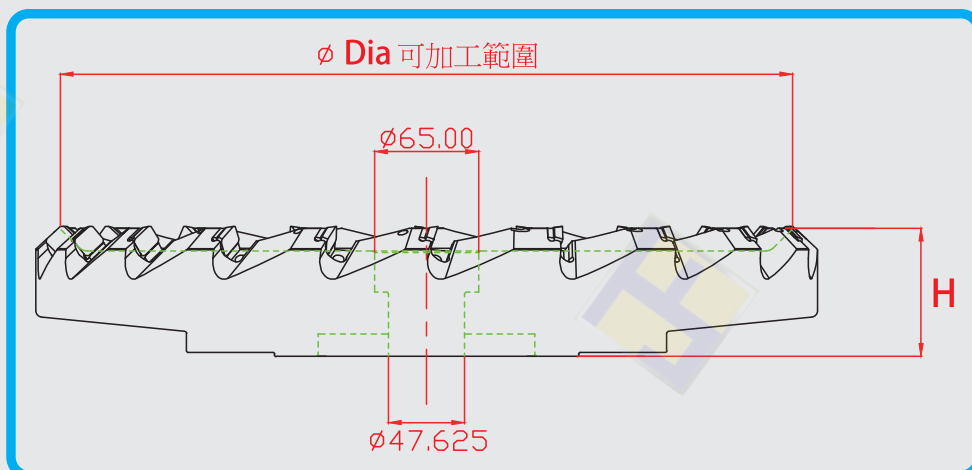
Custom-made Face Milling Cutters drawing



θ : ____
 $d2$: ____



$d1$: ____
Flutes : ____



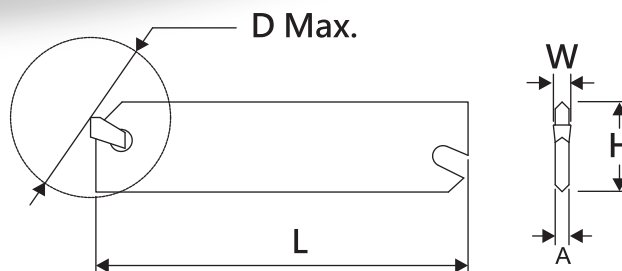
Dia : ____
 H : ____



切斷刀組

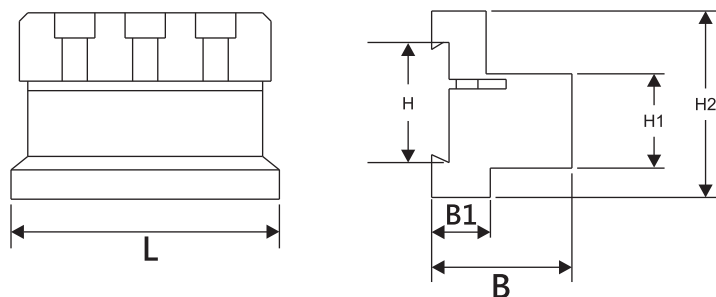
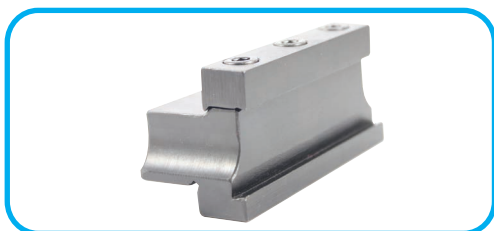


Parting cutters



Ordering code	Dimensions / mm					GTN3
	H	W	A	L	D Max	
CUT-26-3-1	26	3.1	2.5	110	75	GTN3
CUT-32-3-1	32	3.1	2.5	148	100	

Ordering code	Dimensions / mm					GFN3
	H	W	A	L	D Max	
CUT-26-3-2	26	3.1	2.5	110	75	GFN3
CUT-32-3-2	32	3.1	2.5	148	100	



Ordering code	Dimensions / mm					
	H	H1	H2	B	B1	L
CUT-26-20	26	20	49	38	20	85
CUT-32-20	32	20	49	42	23	110
CUT-32-25	32	25	49	42	24	110