



MILLING TOOLS

MAROX TOOLS INDUSTRIAL CO. LTD.



End mills

Face mills

Side mills

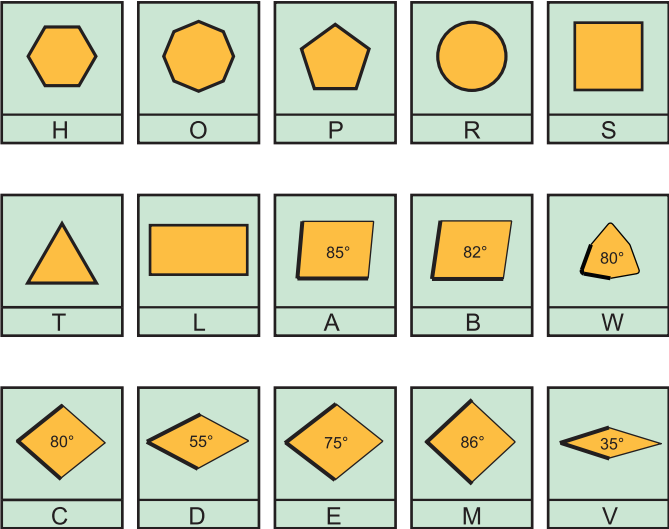
Cartridges



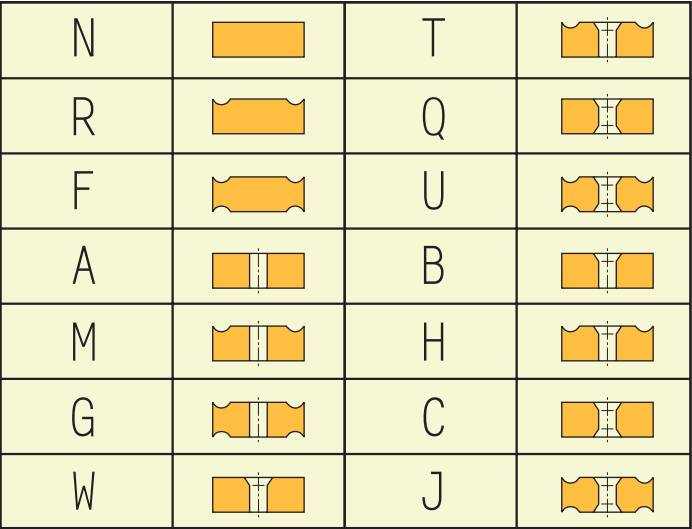


Identification System of *INSERT*

1. Insert Shape 刀片形狀

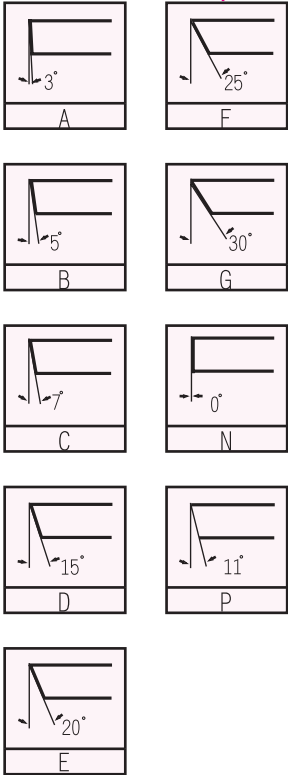


4. Insert Features 斷面形狀



Inch Series	C	N	M	G
Metric Series	C	N	M	G
	1	2	3	4

2. Clearance angle 刀片逃隙角



3. Tolerance Class 公差

d : Diameter of Inscribed circle m : Nose Height t : Thickness			
Symbol	Tolerance on "d"(mm)	Tolerance on "m"(mm)	Tolerance on "t"(mm)
C	±0.025	±0.013	±0.025
H	±0.013	±0.013	±0.025
E	±0.025	±0.025	±0.025
G	±0.025	±0.025	±0.013
M	±0.05~±0.13	±0.08~±0.20	±0.013
U	±0.08~±0.025	±0.13~±0.38	±0.013



Identification System of
INSERT

6. Thickness 刀片厚度

Thicknesss		Symbol	
inch	mm	Inch	Metric
1/32	0.79	0.5 (1)	—
1/16	1.59	1 (2)	01
5/64	1.98	1.2	T1
3/32	2.38	1.5 (3)	02
1/8	3.18	2	03
5/32	3.97	2.5	T3
3/16	4.76	3	04
7/32	5.56	3.5	05
1/4	6.35	4	06
5/16	7.94	5	07
3/8	9.52	6	09
7/16	11.11	7	11
1/2	12.70	8	12

7. Corner radius 刀尖R角

Corner radius		Symbol	
inch	mm	Inch	Metric
0.004	0.1	0	01
0.008	0.2	0.5	02
1/64	0.4	1	04
1/32	0.8	2	08
3/64	1.2	3	12
1/16	1.6	4	16
5/64	2.0	5	20
3/32	2.4	6	24
7/64	2.8	7	28
1/8	3.2	8	32
round insert(inch)		—	00
round insert(metric)		—	M0

8. Cutting direction 方向



4	3	2		
12	04	08		
5	6	7	8	9

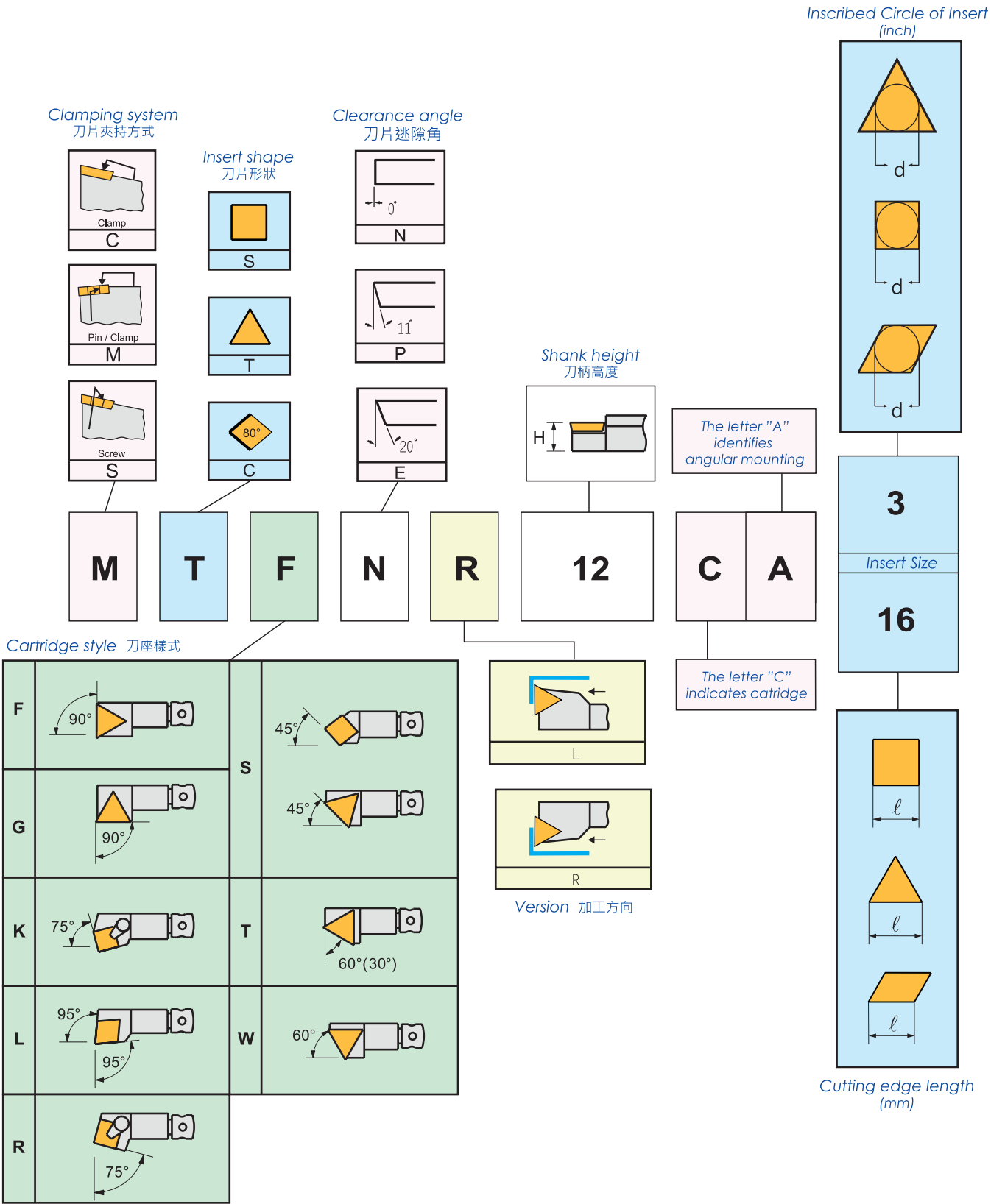
5. Edge length & Diameter of Inscribed circle 切削刃長&內接圓直徑

Inch series	d(mm)		Metric series						
	inch	mm	C	D	R	S	T	V	W
1.2 (5)	5/32	3.97	—	04	03	03	06	—	—
1.5 (6)	3/16	4.76	04	05	04	04	08	08	—
1.8 (7)	7/32	5.56	05	06	05	05	09	09	03
—	0.236	6.00	—	—	06	—	—	—	—
2	1/4	6.35	06	07	06	06	11	11	04
2.5	5/16	7.94	08	09	07	07	13	19	05
—	0.315	8.00	—	—	08	—	—	—	—
3	3/8	9.52	09	11	09	09	16	16	06
—	0.394	10.00	—	—	10	—	—	—	—
3.5	7/16	11.11	11	13	11	11	19	19	07
—	0.472	12.00	—	—	12	—	—	—	—
4	1/2	12.70	12	15	12	12	22	22	08
4.5	9/16	14.29	14	17	14	14	24	24	09
5	5/8	15.88	16	19	15	15	27	27	10
—	0.630	16.00	—	—	16	—	—	—	—
5.5	11/16	17.46	17	21	17	17	30	30	11
6	3/4	19.05	19	23	19	19	33	33	13
—	0.787	20.00	—	—	20	—	—	—	—
7	7/8	22.22	22	27	22	22	38	38	15
—	0.984	25.00	—	—	25	—	—	—	—
8	1	25.40	25	31	25	25	44	44	17
10	1-1/4	31.75	32	38	31	31	54	54	21
—	1.260	32.00	—	—	32	—	—	—	—

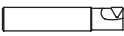
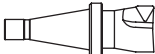
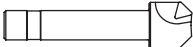
9. Chip Breaker 排屑槽



Identification System of *CARTRIDGE*



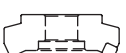
● END MILLS 端銑刀

	ME□□T (TP1102)	8
	ME□□T (TP1603)	8
	ME□□TR8	9
	ME□□TMT	9
	ME□□TNT	10
	ME□□C	10
	E90SE09	11
	E90SD12	11
	E90AP	12
	EM90AP (Helical End Mills) 粗銑刀	12
	DM90AP (Center Cutting End Mills) 鉋銑刀	13
	EM□R (R End Mills) R端銑刀	14
	ETS (T-SLOT End Mills) T型銑刀	15
	E45SE12	15

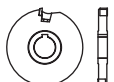
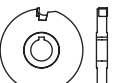
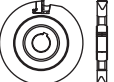
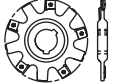
● SHELL END MILLS 端銑刀

	MS□□S	16
	MS□□T	16
	MS□□T22S	17
	F90SE09	18
	F90SD12	18
	MSAP	19
	MS5R	20
	MS6R	20

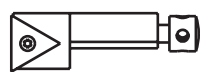
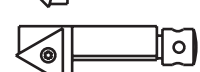
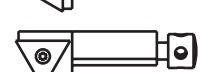
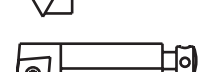
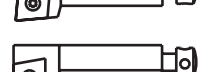
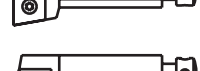
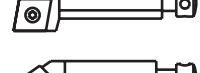
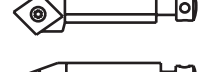
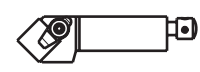
● FACE MILLS 平面銑刀

	MTP4	21
	MTE3	21
	MTE4	22
	SPC4	22
	NSP4	23
	SP5	23
	SF5	24
	SE445	25
	SE545	26
	F45SE12	27
	F45SE13 <i>NEW</i>	27
	F-S45SE12 (ALUMINUM BODY) 鋁合金本體	28

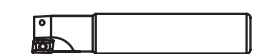
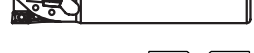
● SIDE MILLS 側銑刀

	TSSP3	29
	NTSSP4	29
	TSSP4	30
	TSTP2	31
	TSTP3	31
	TSSN	32

● CARTRIDGES 卡式刀座

	STFC 90°	33
	STGC 90°	33
	STSC 45°	33
	STTC 30° (60°)	34
	STWC 60°	34
	SCLP 95°	34
	SCFP 90°	35
	SCGP 90°	35
	SCSP 45°	35
	SCTP 60°	36
	CTFP 90°	36
	CTGP 90°	36
	CSKP 75°	37
	CSRP 75°	37
	CSSP 45°	37
	CSTP 60°	38

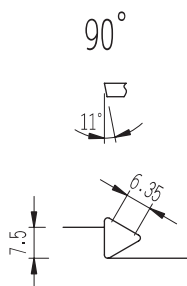
● NEW AX SERIES *NEW*

	E90AX/ E90AX-H /E90AX-LH	39
	EM90AX	40
	EM90AX-S	40
	MSAX	41



END MILLS 端銑刀

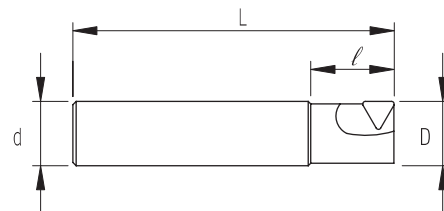
Positive
Axial Rake



For indexable inserts
TP 1102

ME□□T (TP1102)

–Straight Shank
90° shoulder.

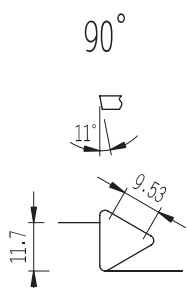


Order No.	D (mm)	L (mm)	ℓ (mm)	d (mm)	I No.
ME16T	16	100	26	16	1
ME18T	18	100	26	16	1
ME20T	20	100	26	20	2
ME22T	22	100	26	20	2
ME25T	25	100	26	20,25	2

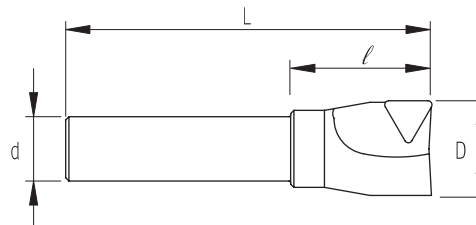
Clamp 	Screw 	Wrench 
CP50-4	CS70-5	LW030

ME□□T (TP1603)

–Straight Shank
90° shoulder.



For indexable inserts
TP 1603



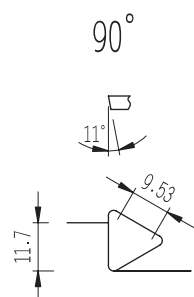
Order No.	D (mm)	L (mm)	ℓ (mm)	d (mm)	I No.
ME30T	30	114	34	20,25	2
ME32T	32	114	34	20,25,32	2
ME35T	35	114	34	20,25,32	2
ME40T	40	114	34	20,25,32	3
ME45T	45	116	36	20,25,32	3
ME50T	50	116	36	20,25,32	3

Clamp 	Screw 	Spring 	Wrench 
CP50-3	CS70-4	SP030	TL-25



END MILLS 端銑刀

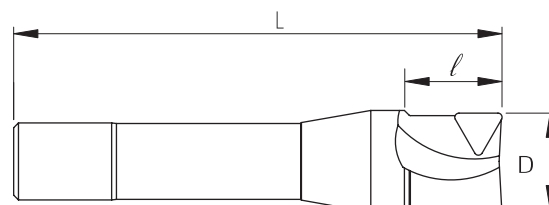
Positive
Axial Rake



For indexable inserts
TP 1603

ME□□TR8

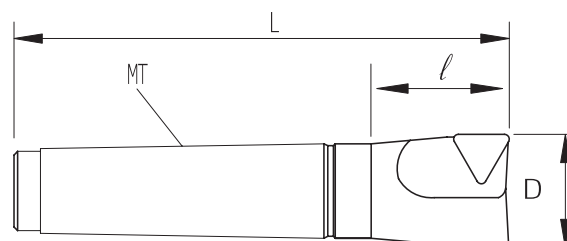
-R8-Shank(Bridgeport)
90° shoulder.



Order No.	D (mm)	L (mm)	ℓ (mm)	Shank	I No.
ME30TR8	30	140	29	R8	2
ME32TR8	32	140	29	R8	2
ME35TR8	35	140	29	R8	2
ME40TR8	40	140	29	R8	3
ME45TR8	45	146	35	R8	3
ME50TR8	50	146	35	R8	3
ME63TR8	63	153	40	R8	4
ME75TR8	75	153	40	R8	5

ME□□TMT

-Mores Taper Shank
90° shoulder.

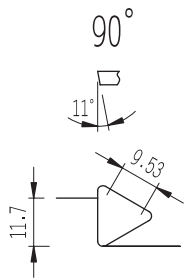


Drawbar thread = M12x1.75 or 1/2-12

Order No.	D (mm)	L (mm)	ℓ (mm)	MT No.	I No.
ME30TMT3	30	132	34	3	2
ME32TMT3	32	132	34	3	2
ME35TMT3	35	132	34	3	2
ME40TMT3	40	132	34	3	3
ME45TMT3	45	132	34	3	3
ME50TMT3	45	132	34	3	3
ME63TMT3	63	132	34	3	4

Clamp 	Screw 	Spring 	Wrench 
CP50-3	CS70-4	SP030	TL-25

Positive
Axial Rake



For indexable inserts
TP 1603

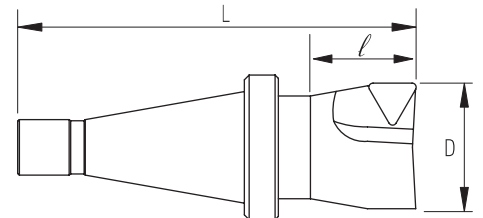
ME□□TNT

–National Taper Shank
90° shoulder.



NT30 drawbar thread = M12x1.75 or 1/2-12

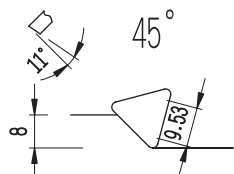
NT40 drawbar thread = M16x2.0 or 5/8-1



Order No.	D (mm)	L (mm)	l (mm)	NT No.	I No.
ME35TNT30	35	124	34	30	2
ME40TNT30	40	124	34	30	3
ME45TNT30	45	124	34	30	3
ME50TNT30	50	124	34	30	3
ME63TNT30	63	124	34	30	4
ME75TNT30	75	124	34	30	5
ME50TNT40	50	149	34	40	3
ME63TNT40	63	149	34	40	4
ME75TNT40	75	149	34	40	5

Clamp	Screw	Spring	Wrench
CP50-3	CS70-4	SP030	TL-25

ME□□C



For indexable inserts
TP 1603

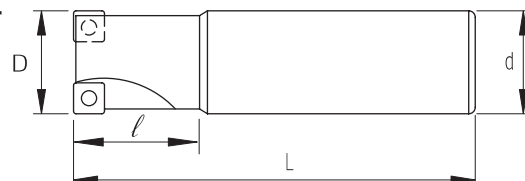


Order No.	D (mm)	D1 (mm)	L (mm)	d (mm)	I No.
ME05C	6	25	100	20	1
ME20C	20	40	156	25	3

Clamp	Screw	Wrench
CP50-5	CS70-11	LW040

E90SE09

New generation of 90° face and shoulder
Milling cutter with screw-on inserts
Low costs per cutting edge through
Indexable insert with four edges

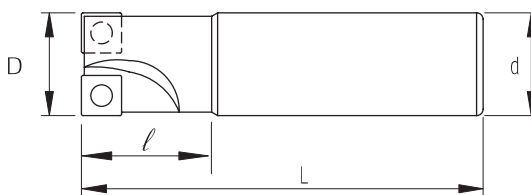


Recommended Inserts 刀片建議品牌: KYOCERA

Order No.	D (mm)	d (mm)	L(mm)	l (mm)	I No.
E90SE09-D25K02	25	25	120	30	2
E90SE09-D32K03	32	32	125	35	3
E90SE09-D40K04	40	32	125	40	4
E90SE09-D50K05	50	32	125	40	5

Insert 	Screw 	Wrench 
SEMM09T3PESR	CS30070	DBIT-T10

E90SD12



Recommended Inserts 刀片建議品牌: KENNAMETAL & KYOCERA

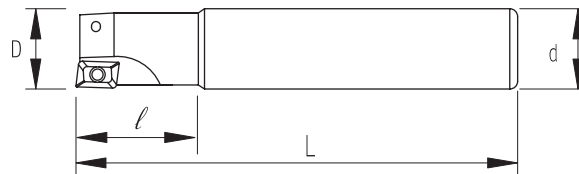
Order No.	D (mm)	d (mm)	L(mm)	l (mm)	I No.
E90SD12-D32K02	32	32	125	35	2
E90SD12-D40K02	40	32	125	40	2
E90SD12-D50K03	50	32	125	40	3

Insert 	Screw 	Wrench 
SDPT1204PDEN	CS35090	DBIT-T15



END MILLS 端銑刀

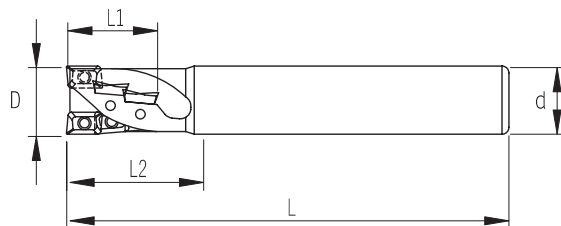
E90AP



Recommended Inserts 刀片建議品牌: SUMITOMO & NACHI

Order No.	D (mm)	L (mm)	ℓ (mm)	d (mm)	I No.	Insert	Screw	Wrench
E90AP10-D12F01	12	80	17	12	1	APMT1035PDER 	CS25065 	DBIT-T8 
E90AP10-D16G02	16	90	25	16	2			
E90AP10-D20J02	20	110	25	20	2			
E90AP10-D25K03	25	125	30	25	3			
E90AP10-D20M02	20	150	30	20	2			
E90AP10-D25N03	25	160	30	25	3			
E90AP16-D25K02	25	125	32	25	2	APMT1605PDER 	CS35090 	DBIT-T15 
E90AP16-D32K03	32	125	40	32	3			
E90AP16-D40K04	40	125	45	32	4			
E90AP16-D50K05	50	125	45	32	5			
E90AP16-D25N02	25	160	32	25	2			
E90AP16-D32Q03	32	180	60	32	3			
E90AP16-D40R04	40	200	80	32	4			

EM90AP 粗銑刀 HELICAL END MILLS



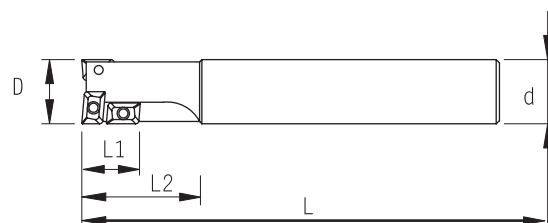
Recommended Inserts 刀片建議品牌: SUMITOMO & NACHI

Order No.	D (mm)	d (mm)	L1(mm)	L2(mm)	L(mm)	T No.	I No.	Insert	Screw	Wrench
EM90AP10-D20K06	20	20	23	35	120	2	6	APMT1035PDER 	CS25065 	DBIT-T8 
EM90AP10-D25K08	25	25	36	45	130	2	8			
EM90AP10-D32L15	32	32	44	55	140	3	15			
EM90AP10-D40M21	40	32	54	65	150	3	21			
EM90AP16-D40K12	40	42	51	65	150	3	12	APMT1605PDER 	CS35090 	DBIT-T15 
EM90AP16-D50N15	50	42	59	75	165	3	15			



CENTER CUTTING MILLS 鉋銑刀

DM90AP



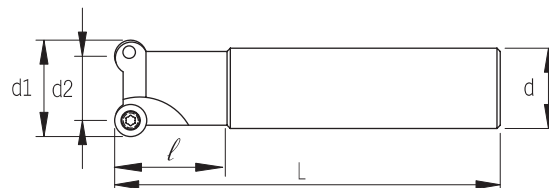
Recommended Inserts 刀片建議品牌: SUMITOMO & NACHI

Order No.	D (mm)	d (mm)	L(mm)	L1(mm)	L2(mm)	I No.	Insert	Screw	Wrench
DM90AP10-D20K03	20	20	130	16	35	3	APMT1035PDER 	CS25065 	DBIT-T8 
DM90AP10-D21K03	21	20	130	16	35	3			
DM90AP10-D25L04	25	25	140	24	35	4			
DM90AP10-D26L04	26	25	140	24	35	4			
DM90AP10-D20Q03	20	20	185	16	35	3			
DM90AP10-D21Q03	21	20	185	16	35	3			
DM90AP10-D25R04	25	25	220	24	35	4			
DM90AP16-D32M04	32	32	150	40	50	4	APMT1605PDER 	CS35090 	DBIT-T15 
DM90AP16-D33M04	33	32	150	40	50	4			
DM90AP16-D40N04	40	32	160	40	60	4			
DM90AP16-D32S04	32	32	230	40	60	4			
DM90AP16-D33S04	33	32	230	40	60	4			
DM90AP16-D40S04	40	32	240	40	60	4			



RADIUS END MILLS 端銑刀

EM□R R END MILLS



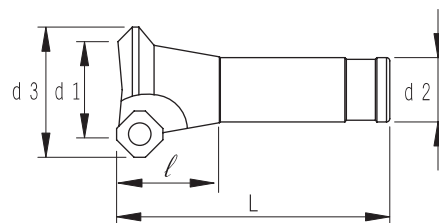
Recommended Inserts 刀片建議品牌: MITSUBISHI

Order No.	d1(mm)	d2(mm)	d(mm)	L(mm)	ℓ (mm)	I No.	Insert	Screw	Wrench
EM4R-D16K01	16	8	16	120	30	1	RPMT08T2MOE 	CS25065 	DBIT-T8 
EM4R-D16M01	16	8	16	150	30	1			
EM4R-D16R01	16	8	16	200	30	1			
EM4R-D20K02	20	12	20	120	30	2			
EM4R-D20M02	20	12	20	150	30	2			
EM4R-D20R02	20	12	20	200	30	2			
EM4R-D25K03	25	17	20	120	35	3			
EM4R-D25M03	25	17	20	150	35	3			
EM4R-D25R03	25	17	20	200	35	3			
EM5R-D25K02	25	15	25	120	40	2	RPMT10T3MOE 	CS35090 	DBIT-T15 
EM5R-D25M02	25	15	25	150	40	2			
EM5R-D25R02	25	15	25	200	40	2			
EM5R-D30K03	30	20	25	120	40	3			
EM5R-D30M03	30	20	25	150	40	3			
EM5R-D30R03	30	20	25	200	40	3			
EM5R-D35K03	35	25	32	120	40	3			
EM5R-D35M03	35	25	32	150	40	3			
EM5R-D35R03	35	25	32	200	50	3			
EM6R-D35K02	35	23	32	120	50	2	RPMT1204MOE 	CS35090 	DBIT-T15 
EM6R-D35M02	35	23	32	150	50	2			
EM6R-D35R02	35	23	32	200	50	2			
EM6R-D40K03	40	28	32	120	50	3			
EM6R-D40M03	40	28	32	150	50	3			
EM6R-D40R03	40	28	32	200	50	3			
EM6R-D50R04	50	38	32	200	50	4			



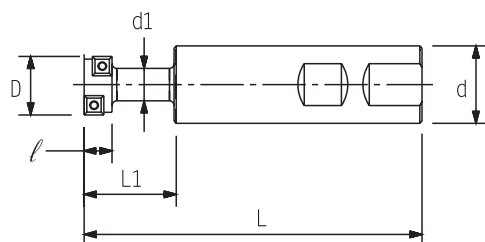
RADIUS END MILLS 端銑刀

E45SE12



Order No.	d1(mm)	d2(mm)	d3(mm)	L(mm)	ℓ (mm)	I No.	Insert	Screw	Wrench
E45SE12-D25H02	25	20	37	100	31	2	SEHW1204AFTN SEKT1204AF 	CS45090 	DBIT-T15 
E45SE12-D30H02	30	20	42	100	31	2			
E45SE12-D40J03	40	25	52	110	37	3			
E45SE12-D50K04	50	32	62	126	37	4			

ETS T型銑刀 T-SLOT END MILLS



Recommended Inserts 刀片建議品牌: KYOCERA

Order No.	D (mm)	d (mm)	d1 (mm)	ℓ(mm)	L(mm)	L1(mm)	I No.
① ETS2109-S25 ETS2511-S25	21	25	10.5	9	109	29	2
	25	25	12.5	11	112	32	4
② ETS3214-S32	32	32	15.5	14	120	38	4
③ ETS4018-S32 ETS5022-S32	40	32	20.5	18	130	50	4
	50	32	26.5	22	140	60	4

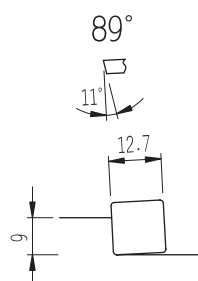
Insert 	Screw 	Wrench 
① SDMT060304E-K	CS25065	DBIT-T8
② SDMT080308E-K	CS30070A	DBIT-T10
③ SDMT120408E-K	CS40090	DBIT-T15



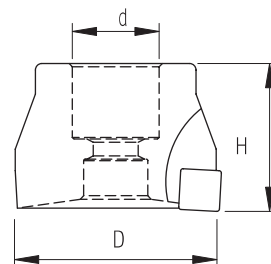
SHELL END MILLS 殼型銑刀

MS□□S

Positive
Axial Rake

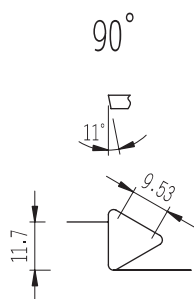


For indexable inserts
SP 1203

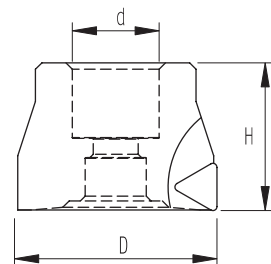


Order No.	D (mm)	H (mm)	d (mm)	d (inch)	I No.
MS50S	50	46	22	-	3
MS63S	63	46	27	1"	4
MS75S	75	46.5	27	1"	5
MS100S	100	50	32	1-1/4"	6

MS□□T



For indexable inserts
TP 1603



Order No.	D (mm)	H (mm)	d (mm)	d (inch)	I No.
MS50T	50	46	22	-	3
MS63T	63	46	27	1"	4
MS75T	75	46.5	27	1"	5
MS100T	100	50	32	1-1/4"	6

Clamp 	Screw 	Spring 	Wrench 
CP50-3	CS70-4	SP030	TL-25

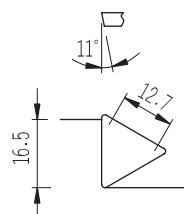


SHELL END MILLS 殼型銑刀

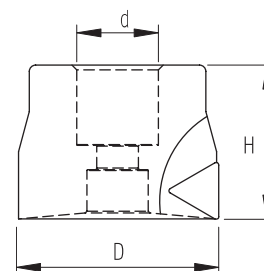
MS□□T22S

Positive
Axial Rake

90°



For indexable inserts
TP 2204

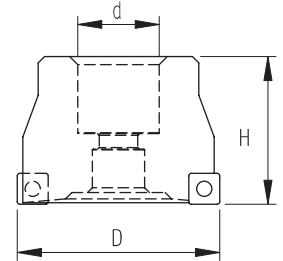


Order No.	D (mm)	H (mm)	d (mm)	d (inch)	I No.
MS63T22S	63	50	22	1"	3
MS80T22S	80	50	27	1"	4
MS100T22S	100	50	32	1-1/4"	5
MS125T22S	125	61	40	1-1/4"	6

Shim 	Shim Screw 	Clamp 	Clamp Screw 	Wrench 
SMT-42	CS-F4090	CP50-10	CS6-8026	LW060

F90SE09

New generation of 90° face and shoulder
Milling cutter with screw-on inserts
Low costs per cutting edge through
Indexable insert with four edges



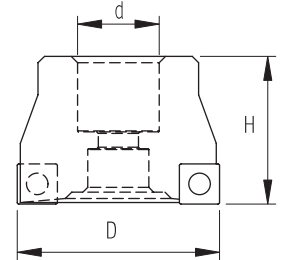
Recommended Inserts 刀片建議品牌: KYOCERA



Order No.	D (mm)	H (mm)	d (mm)	d (inch)	I No.
F90SE09-D40A03R	40	40	16	-	3
F90SE09-D50A04R	50	46	22	-	4
F90SE09-D63A05R	63	46	22	1"	5
F90SE09-D80B06R	80	50	27	1"	6
F90SE09-D100B08R	100	50	32	1-1/4"	8
F90SE09-D125B10R	125	55	40	1-1/2"	10

Insert	Screw	Wrench
SEMM09T3PESR	CS30070	DBIT-T10

F90SD12



Recommended Inserts 刀片建議品牌: KENNAMETAL & KYOCERA

90SD12



Order No.	Shim	Shim Screw	D (mm)	H (mm)	d (mm)	d (inch)	I No.
F90SD12-D050A03R	-	-	50	40	22	-	3
F90SD12-D063A04R	-	-	63	46	22	1"	4
F90SD12-D080B05R	SMS321	SN535	80	50	27	1"	5
F90SD12-D100B06R			100	50	32	1-1/4"	6
F90SD12-D125B07R			125	61	40	1-1/2"	7
F90SD12-D160C08R			160	65	40	2"	8
F90SD12-D050A05R	-	-	50	40	22	-	5
F90SD12-D063A06R	-	-	63	46	22	1"	6
F90SD12-D080B07R	SMS321	SN535	80	50	27	1"	7
F90SD12-D100B10R			100	50	32	1-1/4"	10
F90SD12-D125B12R			125	61	40	1-1/2"	12
F90SD12-D160C14R			160	65	40	2"	14

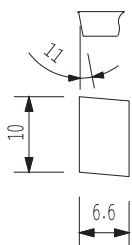
Insert	Screw	Wrench
SDMT1204PDEN	CS35110	DBIT-T15



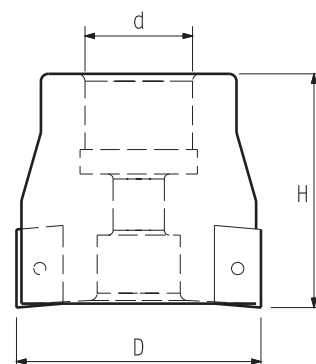
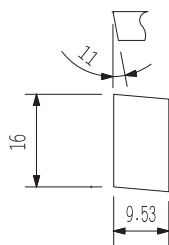
SHELL END MILLS 殼型銑刀

MSAP

For indexable inserts
APMT1035



For indexable inserts
APMT1605



Recommended Inserts 刀片建議品牌: SUMITOMO & NACHI

Order No.	D (mm)	H (mm)	d (mm)	d (inch)	I No.
MSAP10-D040A06R	40	40	16	-	6
MSAP10-D050A07R	50	40	22	-	7
MSAP10-D063A09R	63	46	22	1"	9

Insert	Screw	Wrench
APMT 1035PDER	CS25065	DBIT-T8

Order No.	D (mm)	H (mm)	d (mm)	d (inch)	I No.
MSAP16-D050A05R	50	40	22	-	5
MSAP16-D063A06R	63	46	22	1"	6
MSAP16-D080B08R	80	46	27	1"	8
MSAP16-D100B10R	100	50	32	1 1/4"	10

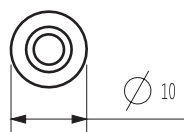
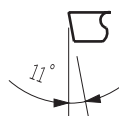
Insert	Screw	Wrench
APMT 1605PDER	CS35090	DBIT-T15



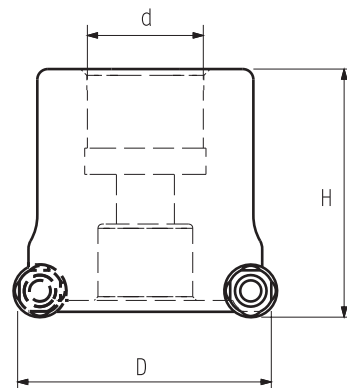
SHELL END MILLS 殼型銑刀

MS5R

RPMT
10T3MOE



For indexable inserts



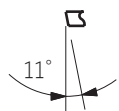
Recommended Inserts 刀片建議品牌:MITSUBISHI

Order No.	D (mm)	H (mm)	d (mm)	d (inch)	I No.
MS5R-050A04R	50	46	22	-	4
MS5R-063A05R	63	46	22	1"	5
MS5R-080B06R	80	50	27	1"	6
MS5R-100B07R	100	50	32	1-1/4"	7

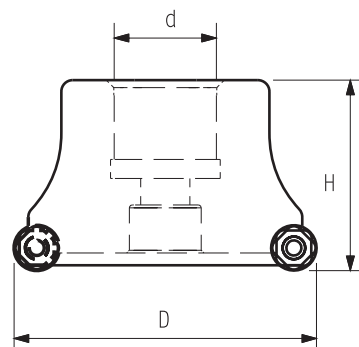
Insert	Screw	Wrench
RPMT10T3MOE RPMW10T3MOE	CS35090	DBIT-T15

MS6R

RPMT
1204MOE



For indexable inserts



Recommended Inserts 刀片建議品牌:MITSUBISHI

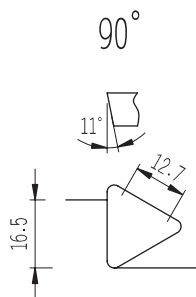
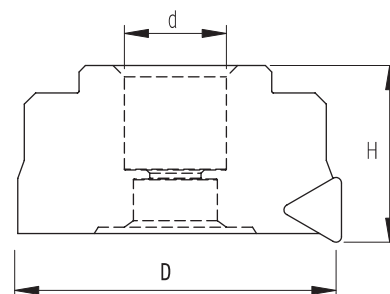
Order No.	D (mm)	H (mm)	d (mm)	d (inch)	I No.
MS6R-050A04R	50	46	22	-	4
MS6R-063A05R	63	50	22	1"	5
MS6R-080B06R	80	50	27	1"	6
MS6R-100B07R	100	50	32	1 1/4"	7
MS6R-125B08R	100	54	40	1-1/2"	8

Insert	Screw	Wrench
RPMT1204MOE RPMW1204MOE	CS35090	DBIT-T15



MTP4

Positive
Axial Rake
Radial Rake



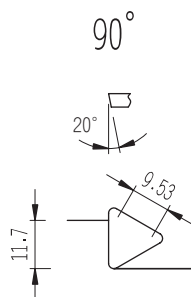
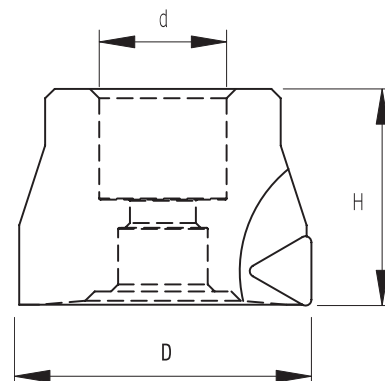
For indexable inserts
TP 2204

Order No.	D (mm)	H (mm)	d (mm)	d (inch)	I No.
MTP4080R	80	50	27	1"	5
MTP4100R	100	55	32	1-1/4"	6
MTP4125R	125	55	40	1-1/2"	8
MTP4160R	160	60	40	2"	10
MTP4200R	200	60	60	1-7/8"	14
MTP4250R	250	65	60	1-7/8"	16
MTP4315R	305	65	60	1-7/8"	18
MTP4360R	354	65	60	1-7/8"	20

Locator	Insert Clamp	Clamp Screw	Locator Screw	Washer	Wrench
MTPL60-8	CP50-7	CS70-1	CS70-2	CS70-3	TW040

MTE3

Negative
Axial Rake
Radial Rake



For indexable inserts
TE 1603

Order No.	D (mm)	H (mm)	d (mm)	d (inch)	I No.
MTE3050R	50	46	22	-	3
MTE3063R	63	46	27	1"	4
MTE3080R	80	46.5	27	1"	5
MTE3100R	100	50	32	1-1/4"	6

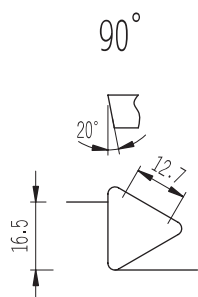
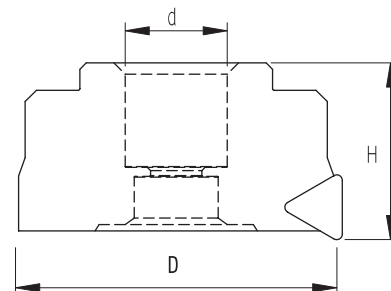
Clamp	Clamp Screw	Clamp Spring	Shim	Shim Screw	Wrench
CP50-3	CS70-4	SP030	SMT32E	CS6-3006	TL-25



FACE MILLS 平面銑刀

MTE4

Positive
Axial Rake
Radial Rake



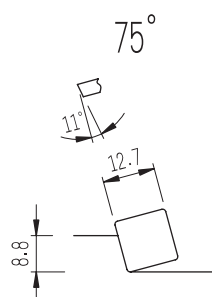
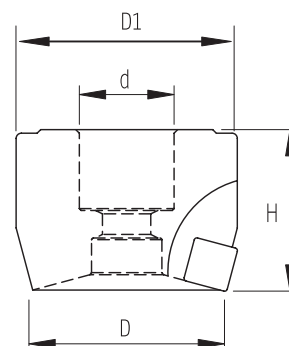
For indexable inserts
TE 2204

Order No.	D (mm)	H (mm)	d (mm)	d (inch)	I No.
MTE4080R	80	50	27	1"	4
MTE4100R	100	55	32	1-1/4"	5
MTE4125R	125	55	40	1-1/2"	6
MTE4160R	160	60	40	2"	8
MTE4200R	200	60	60	1-7/8"	12

Locator	Insert Clamp	Clamp Screw	Locator Screw	Washer	Wrench
MTEL60-16 	CP50-7 	CS70-1 	CS70-2L 	CS70-3 	TW040 

SPC4

Positive
Axial Rake



For indexable inserts
SP 1203

Order No.	D (mm)	D1 (mm)	H (mm)	d (mm)	d (inch)	I No.
SPC4050	50	57.6	46	22	-	3
SPC4063	63	70.6	46	27	1"	4
SPC4075	75	82.6	46	27	1"	5

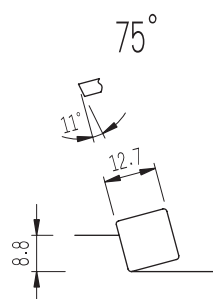
Clamp 	Screw 	Spring 	Wrench 
CP50-3	CS70-4	SP030	TL-25



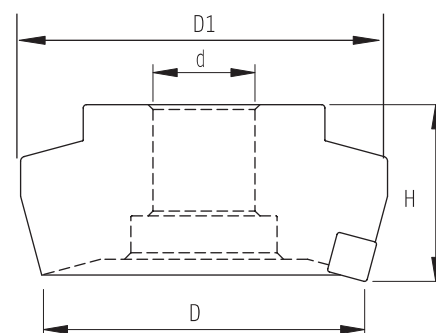
FACE MILLS 平面銑刀

Negative
Axial Rake
Radial Rake

NSP4



For indexable inserts
SP 1203

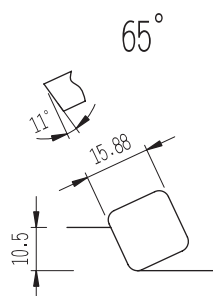


Order No.	D (mm)	D1 (mm)	H (mm)	d (mm)	d (inch)	I No.
NSP4080R	80	93	46	27	1"	5
NSP4100R	100	109	51	32	1-1/4"	6
NSP4125R	125	138	55	40	1-1/2"	8
NSP4160R	160	169	57	40	2"	10
NSP4200R	200	215	57	60	1-7/8"	14
NSP4250R	250	263	57	60	1-7/8"	16
NSP4315R	309	318	62	60	1-7/8"	18
NSP4360R	360	369	62	60	1-7/8"	20

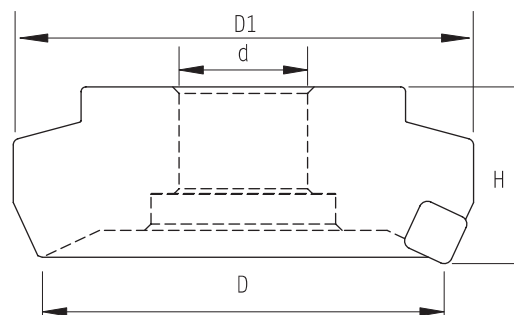
Locator	Insert Clamp	Clamp Screw	Locator Screw	Washer	Wrench
NSPL60-17	CP50-7	CS70-1	CS70-2L	CS70-3	TW040

SP5

Positive
Axial Rake
Radial Rake



For indexable inserts
SP 1504



Order No.	D (mm)	D1 (mm)	H (mm)	d (mm)	d (inch)	I No.
SP5080R	80	98	50	27	1"	4
SP5100R	100	118	55	32	1-1/4"	5
SP5125R	125	143	55	40	1*1/2"	6
SP5160R	160	178	60	40	2"	8
SP5200R	200	218	60	60	1-7/8"	10
SP5250R	250	268	60	60	1-7/8"	12
SP5315R	315	328	60	60	1-7/8"	14
SP5360R	360	378	65	60	1-7/8"	16

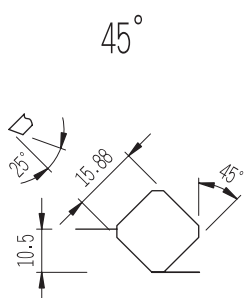
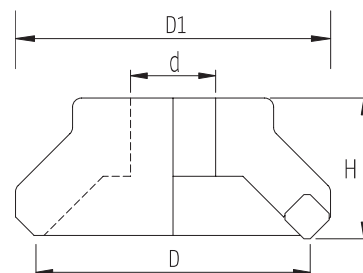
Locator	Insert Clamp	Clamp Screw	Locator Screw	Washer	Wrench
SPL60-5	CP50-7	CS70-1	CS70-2S	CS70-3	TW040



FACE MILLS 平面銑刀

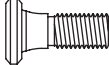
SF5

Positive
Axial Rake
Radial Rake



For indexable inserts
SF 1504

Order No.	D (mm)	D1 (mm)	H (mm)	d (mm)	d (inch)	I No.
SF5063R/L	63	81	50	22	1"	4
SF5080R/L	80	95	50	27	1"	5
SF5100R/L	100	116	50	32	1-1/4"	6
SF5125R/L	125	141	63	40	1-1/2"	7
SF5160R/L	160	176	65	40	2"	7

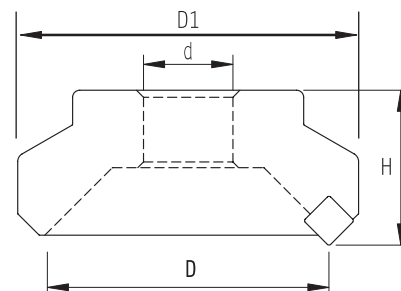
Shim	Shim Screw	Locking Screw (R)	Locking Screw (L)	Wrench
SMS-53 	CS-F4090 	CS6-0823L 	CS6-0823R	FT -7  TW040 



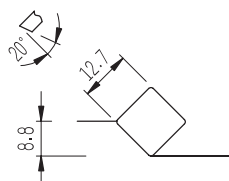
FACE MILLS 平面銑刀

SE445

Negative
Axial Rake
Radial Rake



45°



For indexable inserts
SE 1203

Order No.	D (mm)	D1 (mm)	H (mm)	d (mm)	d (inch)	I No.
SE445 R/L 6304	63	83	50	27	1"	4
SE445 R/L 0304	80	98	50	27	1"	4
SE445 R/L 0405	100	120	55	32	1-1/4"	5
SE445 R/L 0506	125	148	55	40	1-1/2"	6
SE445 R/L 0608	160	180	60	40	2"	8
SE445 R/L 0810	200	220	60	60	1-7/8"	10
SE445 R/L 1012	250	274	63	60	1-7/8"	12
SE445 R/L 1214	305	325	63	60	1-7/8"	14
SE445 R/L 1416	356	376	63	60	1-7/8"	16
SE445 R/L 0306	80	98	50	27	1"	6
SE445 R/L 0407	100	120	55	32	1-1/4"	7
SE445 R/L 0509	125	148	55	40	1-1/2"	9
SE445 R/L 0611	160	180	60	40	2"	11
SE445 R/L 0814	200	220	60	60	1-7/8"	14
SE445 R/L 1018	250	274	63	60	1-7/8"	18
SE445 R/L 1222	305	325	63	60	1-7/8"	22
SE445 R/L 1426	356	376	63	60	1-7/8"	26

Locator	Insert Clamp	Clamp Screw	Locator Screw	Washer	Wrench
SEL60-11  (R)	CP50-7  (R)	CS70-1 	CS70-2S 	CS70-3 	TW040 
SEL60-11L (L)	CP50-7L (L)				

Order No.	D (mm)	D1 (mm)	H (mm)	d (mm)	d (inch)	INo
SE445R 5004S	50	60	40	22	-	4

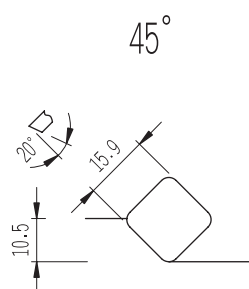
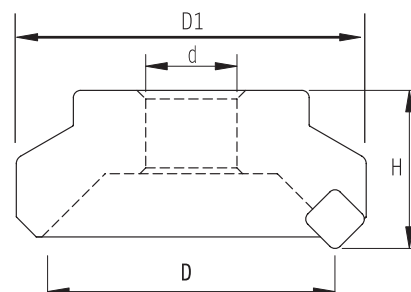
Shim 	Shim Screw 	Insert Clamp 	Clamp Screw 	Wrench 
SMS-42	CS-F4009	CP50-7	CS70-1	TW040



FACE MILLS 平面銑刀

SE545

Negative
Axial Rake
Radial Rake



For indexable inserts
SE 1504

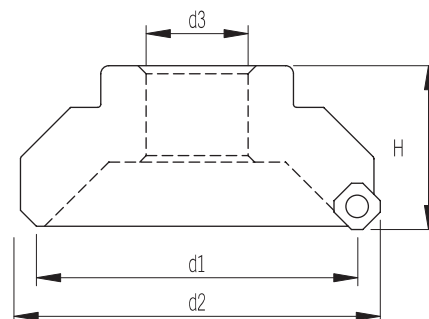
Order No.	D (mm)	D1 (mm)	H (mm)	d (mm)	d (inch)	I No.
SE545R0304	80	98	50	27	1"	4
SE545R0405	100	120	55	32	1-1/4"	5
SE545R0506	125	148	55	40	1-1/2"	6
SE545R0608	160	180	60	40	2"	8
SE545R0810	200	220	60	60	1-7/8"	10
SE545R1012	250	274	65	60	1-7/8"	12
SE545R1214	305	325	65	60	1-7/8"	14
SE545R1416	356	376	65	60	1-7/8"	16
SE545R0407	100	120	55	32	1-1/4"	7
SE545R0509	125	148	55	40	1-1/2"	9
SE545R0611	160	180	60	40	2"	11
SE545R0814	200	220	60	60	1-7/8"	14
SE545R1018	250	274	65	60	1-7/8"	18
SE545R1222	305	325	65	60	1-7/8"	22
SE545R1426	356	376	65	60	1-7/8"	26

Locator	Insert Clamp	Clamp Screw	Locator Screw	Washer	Wrench
SEL60-10	CP50-7	CS70-1	CS70-2S	CS70-3	TW040



FACE MILLS 平面銑刀

F45SE12



Order No.	d1 (mm)	H (mm)	d2 (mm)	d3 (mm)	d3 (inch)	I No.
F45SE12-D050A04R	50	40	60	22	-	4
F45SE12-D063A05R	63	50	81	22	1"	5
F45SE12-D080B06R	80	50	95	27	1"	6
F45SE12-D100B06R	100	50	116	32	1-1/4"	6
F45SE12-D125B07R	125	63	141	40	1-1/2"	7
F45SE12-D160C10R	160	63	176	40	2"	10

Insert	Screw	Wrench
SEHW1204AFTN SEKT1204AF	CS45110	DBIT-T15

F45SE13 *NEW*

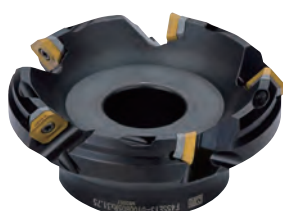


Fig 1

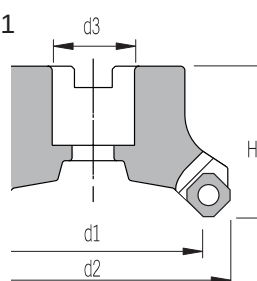
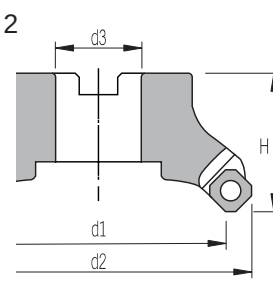


Fig 2



Recommended Inserts 刀片建議品牌：SUMITOMO & MITSUBISHI & KENAMETAL

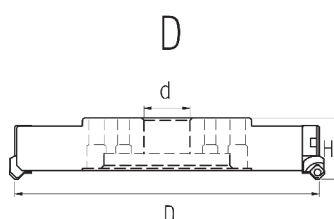
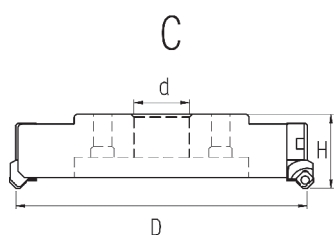
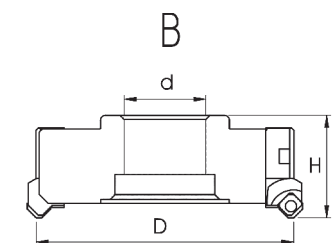
Order No.	d1(mm)	H(mm)	d2(mm)	d3(mm)	d3(mm)	I No.
F45SE13-D040A03R	40	40	53	16	-	3
F45SE13-D050A03R	50	40	63	22	-	3
F45SE13-D063A04R	63	50	76	22	1"	4
F45SE13-D080B04R	80	50	93	27	1"	4
F45SE13-D100B05R	100	50	113	32	1-1/4"	5
F45SE13-D125B06R	125	63	138	40	1-1/2"	6
F45SE13-D160B07R	160	63	173	40	2"	7
F45SE13-D200C08R	200	63	213	60	1-7/8"	8

Insert	Insert Screw	Wrench	Shim	Shim Screw	Wrench
SEET13T3/SEMT13T3	CS35115	DBIT-T15/DBIT-T15L	SME-42	SN5356	LW035



FACE MILLS 平面銑刀(鋁合金本體)

FACE MILL INTERCHANGEABLE CASSETTES
HIGH-STRENGTH ALUMINIUM BODY FOR EASY
AND PRECISE ADJUSTMENT.



Order No.	D (mm)	H (mm)	d (mm)	d (inch)	I No.
F160B08R -S45SE12 -S75SP12 -S90AP16 -SMORP12	160	65	40	2"	8
F200C10R -S45SE12 -S75SP12 -S90AP16 -SMORP12	200	65	60	1-7/8"	10
F250C14R -S45SE12 -S75SP12 -S90AP16 -SMORP12	250	65	60	1-7/8"	14
F315D16R -S45SE12 -S75SP12 -S90AP16 -SMORP12	315	73	60	1-7/8"	16
F360D18R -S45SE12 -S75SP12 -S90AP16 -SMORP12	360	73	60	1-7/8"	18

Cassettes				
	S45SE12	S75SP12	S90AP16	SMORP12
Insert	SEHW1204	SPKN1203	APMT1605	RPCW1204
	SEKT1204	SPKR1203		RPMT1204

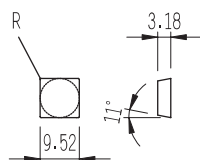
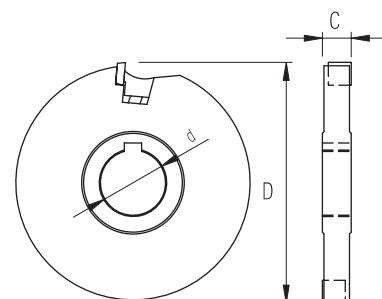
PARTS	Clamping Screw	Insert Clamping Screw	Micro Adjusting Pin	Cassettes Clamp	Locking Screw	Insert Wrench	Wrench
	CS70-12	CS4511	AP-01	CP50-9	CS70-6	DBIT-T15	LW050



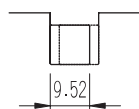
SIDE MILLS 側銑刀

TSSP3

- ◎ Machine steel. Cast iron. Non-ferrous application.
- ◎ General purpose cutter.
- ◎ Can be used as double side mills.
- ◎ Can be adjustable for -0.2mm to +0.8mm



+ 0.8
- 0.2

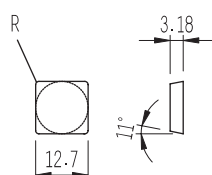
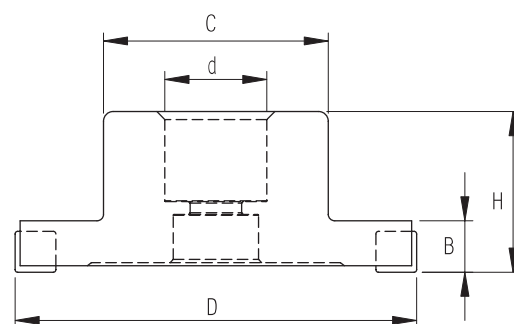


For indexable inserts
SP 0903

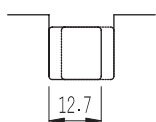
Order No.	D (mm)	C (mm)	d (mm)	d (inch)	I No.
TSSP308010	80	10	27	1"	6
TSSP308012	80	12	27	1"	6
TSSP310010	100	10	27	1"	8
TSSP310012	100	12	27	1"	8
TSSP313012	130	12	32	1-1/4"	12
TSSP316012	160	12	32	1-1/4"	16

Insert Clamp	Locking Screw	Clamp Screw	Little Screw	Wrench
CP50-6	CS70-6	CS70-8	CS70-10	LW020,LW025,LW030

NTSSP4



+ 1.2
- 0.2



For indexable inserts
SP 1203

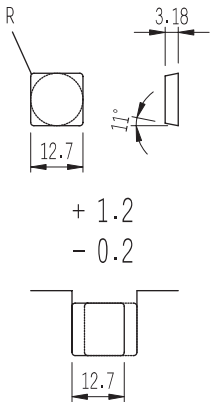
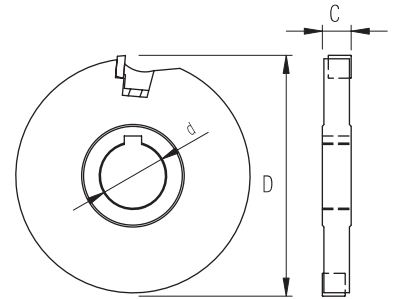
Order No.	D (mm)	B (mm)	H (mm)	C (mm)	d (mm)	d (inch)	I No.
NTSSP410016	100	16	50	48	27	1"	8
NTSSP412518	125	18	50	70	32	1-1/4"	12
NTSSP416018	160	18	50	70	32	1-1/4"	16
NTSSP416020	160	20	50	70	32	1-1/4"	16
NTSSP417518	175	18	50	70	40	1-1/2"	18
NTSSP417520	175	20	50	70	40	1-1/2"	18
NTSSP420020	200	20	50	90	40	1-1/2"	20
NTSSP420022	200	22	50	90	40	1-1/2"	20

Insert Clamp	Locking Screw	Clamp Screw	Little Screw	Wrench
CP50-9	CS70-6	CS70-7	CS70-9	LW020,LW025,LW030

TSSP4

Positive

- ◎ Machine steel. Cast iron. Non-ferrous application.
- ◎ General purpose cutter.
- ◎ Can be used as double side mills.
- ◎ Can be adjustable for -0.2mm to +1.2mm



For indexable inserts
SP 1203

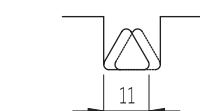
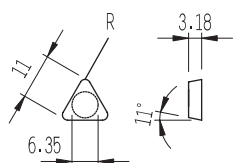


Order No.	D (mm)	C (mm)	d (mm)	d (inch)	I No.
TSSP410016	100	16	27	1"	8
TSSP410018	100	18	27	1"	8
TSSP412516	125	16	32	1-1/4"	12
TSSP412518	125	18	32	1-1/4"	12
TSSP412520	125	20	32	1-1/4"	12
TSSP416016	160	16	32	1-1/4"	16
TSSP416018	160	18	32	1-1/4"	16
TSSP416020	160	20	32	1-1/4"	16
TSSP417516	175	16	40	1-1/2"	18
TSSP417518	175	18	40	1-1/2"	18
TSSP417520	175	20	40	1-1/2"	18
TSSP420016	200	16	40	1-1/2"	20
TSSP420018	200	18	40	1-1/2"	20
TSSP420020	200	20	40	1-1/2"	20
TSSP425016	250	16	50	2"	24
TSSP425018	250	18	50	2"	24
TSSP425020	250	20	50	2"	24

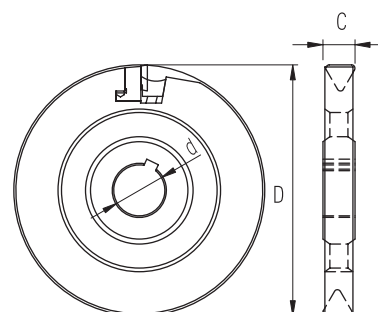


SIDE MILLS 側銑刀

TSTP2

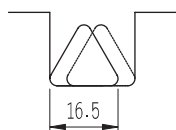
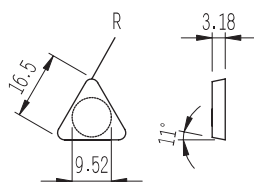


For indexable inserts
TPAN1103PPN

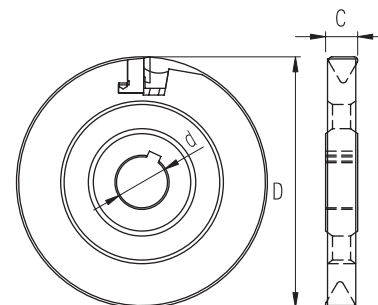


Order No.	D (mm)	C (mm)	d (mm)	d (inch)	I No.
TSTP208012	80	12	27	1"	6
TSTP210012	100	12	27	1"	8
TSTP212512	125	12	32	1-1/4"	10
TSTP216012	160	12	32	1-1/4"	12

TSTP3



For indexable inserts
TPAN1603PPN



Order No.	D (mm)	C (mm)	d (mm)	d (inch)	I No.
TSTP310016	100	16	27	1"	6
TSTP310018	100	18	27	1"	6
TSTP312516	125	16	32	1-1/4"	8
TSTP312518	125	18	32	1-1/4"	8
TSTP312520	125	20	32	1-1/4"	8
TSTP316016	160	16	32	1-1/4"	10
TSTP316018	160	18	32	1-1/4"	10
TSTP316020	160	20	32	1-1/4"	10
TSTP320018	200	18	40	1-1/2"	12
TSTP320020	200	20	40	1-1/2"	12
TSTP325018	250	18	50	2"	16
TSTP325020	250	20	50	2"	16

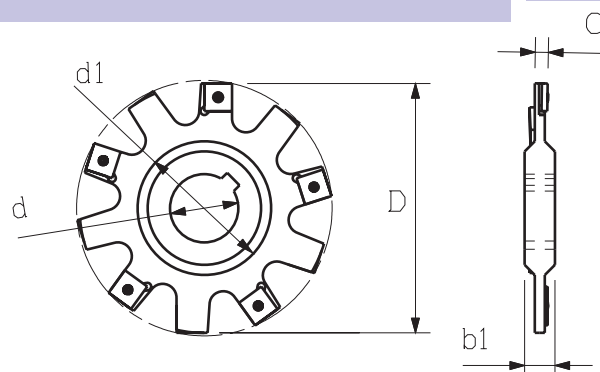
Insert		Locator(R) Locator (L)		Locator Screw	Clamp	Clamp Screw	Wrench
TSTP2	TPAN1103PPN	TSL60-12	TSL60-13	CS9-3003,CS9-3006	CP50-6	CS70-6	LW030,LW020
TSTP3	TPAN1603PPN	TSL60-14	TSL60-15	CS9-4004,CS9-4012	CP50-9	CS70-6	LW030,LW020



SIDE MILLS

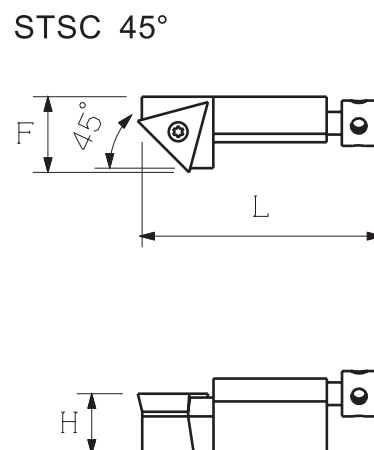
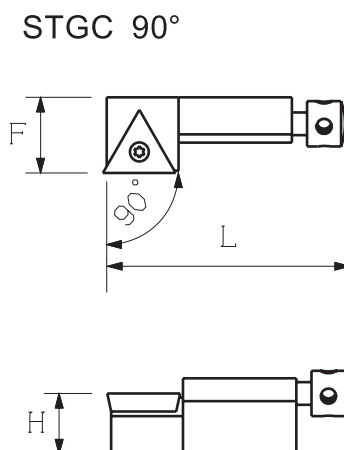
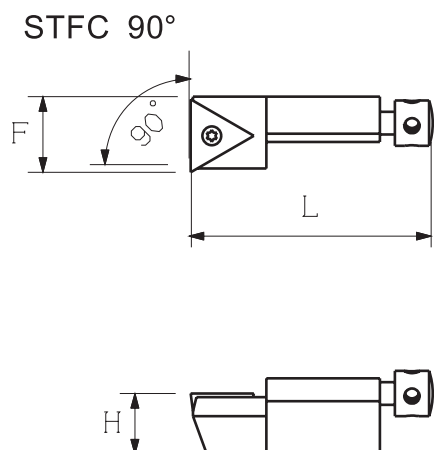
側銑刀

TSSN



Type	Insert	D (mm)	b1 (mm)	C (mm)	d1 (mm)	d (mm)	d (inch)	I No.
TSSN11020-08004	SNHX1102	80	12	4	44	27	1"	10
TSSN11030-08005	SNHX1103	80	12	5	44	27	1"	10
TSSN12030-08006	SNHX1203	80	12	6	44	27	1"	8
TSSN12045-08008	SNHX12045	80	12	8	44	27	1"	8
TSSN11020-10004	SNHX1102	100	12	4	45	27	1"	12
TSSN11030-10005	SNHX1103	100	12	5	45	27	1"	12
TSSN12030-10006	SNHX1203	100	12	6	45	27	1"	10
TSSN12040-10007	SNHX1204	100	12	7	45	27	1"	10
TSSN12045-10008	SNHX12045	100	12	8	45	27	1"	10
TSSN12050-10010	SNHX1205	100	12	10	45	27	1"	10
TSSN11020-12504	SNHX1102	125	12	4	58	40	1-1/2"	14
TSSN11030-12505	SNHX1103	125	12	5	58	40	1-1/2"	14
TSSN12030-12506	SNHX1203	125	12	6	58	40	1-1/2"	12
TSSN12045-12508	SNHX12045	125	12	8	58	40	1-1/2"	12
TSSN12050-12510	SNHX1205	125	12	10	28	40	1-1/2"	12
TSSN12070-12512	SNHX1207	125	12	12	58	40	1-1/2"	12
TSSN11020-16004	SNHX1102	160	12	4	68	40	1-1/2"	18
TSSN11030-16005	SNHX1103	160	12	5	68	40	1-1/2"	18
TSSN12030-16006	SNHX1203	160	12	6	68	40	1-1/2"	16
TSSN12045-16008	SNHX12045	160	12	8	68	40	1-1/2"	16
TSSN12050-16010	SNHX1205	160	12	10	68	40	1-1/2"	16
TSSN12070-16012	SNHX1207	160	12	12	68	40	1-1/2"	16
TSSN12030-20006	SNHX1203	200	12	6	72	50	2"	18
TSSN12045-20008	SNHX12045	200	12	8	72	50	2"	18
TSSN12050-20010	SNHX1205	200	12	10	72	50	2"	18
TSSN12070-20012	SNHX1207	200	12	12	72	50	2"	18
TSSN12030-25006	SNHX1203	250	12	6	72	50	2"	24
TSSN12045-25008	SNHX12045	250	12	8	72	50	2"	24
TSSN12050-25010	SNHX1205	250	12	10	72	50	2"	24
TSSN12070-25012	SNHX1207	250	12	12	72	50	2"	24

C (mm)	Insert	T (厚)	Clamping Screw	Wrench
4	SNHX1102	2.3	CS30035	DBIT-T7
5	SNHX1103	2.7	CS30042	
6	SNHX1203	3.2	CS40051	
7	SNHX1204	4.0	CS40051	DBIT-T15
8	SNHX12045	4.5	CS40069	
10	SNHX1205	5.4	CS40079	
12	SNHX1207	7.0	CS40105	



STFC 90°

Order No.	Insert	Dimensions			Parts	Wrench
		F	L	H		
STFCR06CA-06	TCMT0602	08	25	06	CS20040	FT-6
STFCR08CA-09	TCMT0902	11	32	08	CS22050	FT-7
STFCR08CA-11	TCMT1102	11	32	08	CS25065	FT-8
STFCR10CA-11	TCMT1102	14	50	10	CS25065	FT-8
STFCR12CA-16	TCMT16T3	20	55	12	CS35090	FT-15

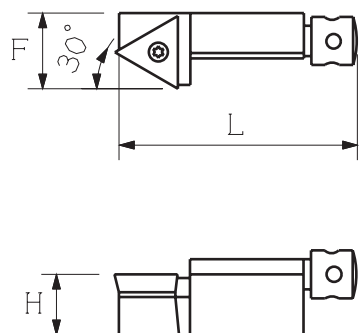
STGC 90°

Order No.	Insert	Dimensions			Parts	Wrench
		F	L	H		
STGCR08CA-09	TCMT0902	10	32	08	CS22050	FT-7
STGCR10CA-11	TCMT1102	14	50	10	CS25065	FT-8
STGCR12CA-16	TCMT16T3	20	55	12	CS35090	FT-15

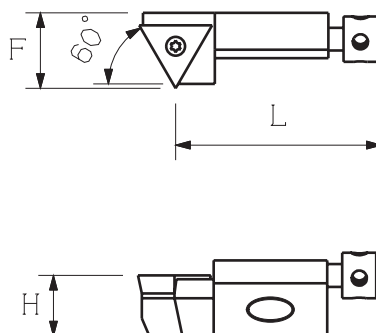
STSC 45°

Order No.	Insert	Dimensions			Parts	Wrench
		F	L	H		
STSCR08CA-09	TCMT0902	10	26	08	CS22050	FT-7
STSCR10CA-11	TCMT1102	14	44	10	CS25065	FT-8
STSCR12CA-16	TCMT16T3	20	47	12	CS35090	FT-15

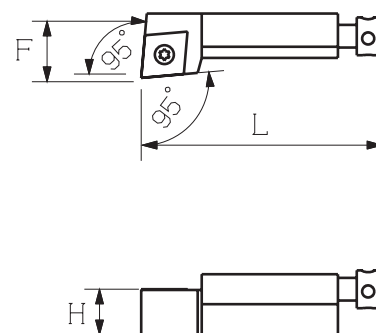
STTC 30°(60°)



STWC 60°



SCLP 95°



STTC 30°(60°)

Order No.	Insert	Dimensions			Parts	Wrench
		F	L	H		
STTCR08CA-09	TCMT0902	10	32	08	CS22050	FT-7
STTCR08CA-11	TCMT1102	10	32	08	CS25065	FT-8
STTCR10CA-11	TCMT1102	14	50	10	CS25065	FT-8
STTCR12CA-16	TCMT16T3	20	55	12	CS35090	FT-15

STWC 60°

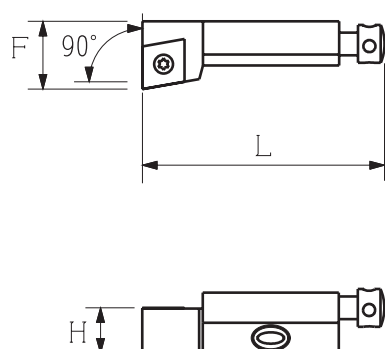
Order No.	Insert	Dimensions			Parts	Wrench
		F	L	H		
STWCR08CA-09	TCMT0902	10	28	08	CS22050	FT-7
STWCR10CA-11	TCMT1102	14	44	10	CS25065	FT-8
STWCR12CA-16	TCMT16T3	20	47	12	CS35090	FT-15

SCLP 95°

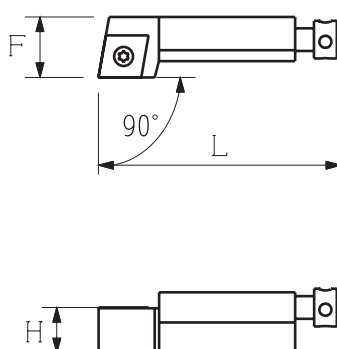
Order No.	Insert	Dimensions			Parts	Wrench
		F	L	H		
SCLPR06CA-05	CPMT0502	08	25	06	CS20040	FT-6
SCLPR08CA-06	CPMT0602	10	32	08	CS25060	FT-7
SCLPR10CA-09	CPMT0903	14	50	10	CS40090	FT-15



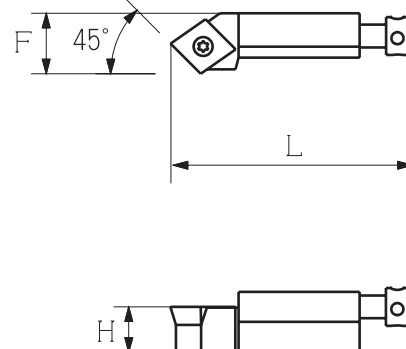
SCFP 90°



SCGP 90°



SCSP 45°



SCFP 90°

Order No.	Insert	Dimensions			Parts	Wrench
		F	L	H		
SCFPR06CA-05	CPMT0502	08	25	06	CS20040	FT-6
SCFPR08CA-06	CPMT0602	10	32	08	CS25060	FT-7

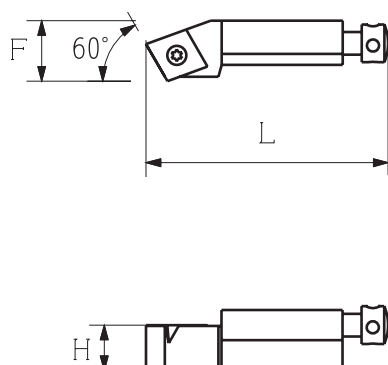
SCGP 90°

Order No.	Insert	Dimensions			Parts	Wrench
		F	L	H		
SCGPR06CA-05	CPMT0502	08	25	06	CS20040	FT-6
SCGPR08CA-06	CPMT0602	10	32	08	CS25060	FT-7

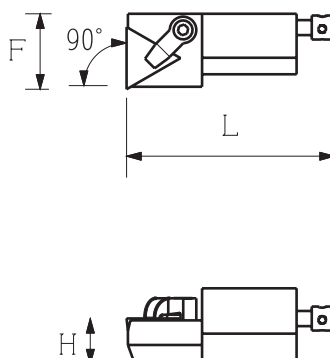
SCSP 45°

Order No.	Insert	Dimensions			Parts	Wrench
		F	L	H		
SCSPR06CA-05	CPMT0502	08	21	06	CS20040	FT-6
SCSPR08CA-06	CPMT0602	10	28	08	CS25060	FT-7

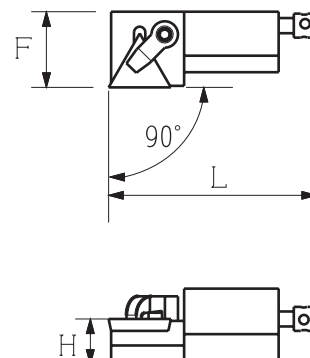
SCTP 60°



CTFP 90°



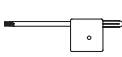
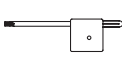
CTGP 90°



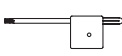
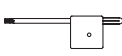
SCTP 60°

Order No.	Insert	Dimensions			Parts	Wrench
		F	L	H		
SCTPR06CA-05	CPMT0502	08.09	25	06	CS20040	FT-6
SCTPR08CA-06	CPMT0602	08.98	32	08	CS25060	FT-7

CTFP 90°

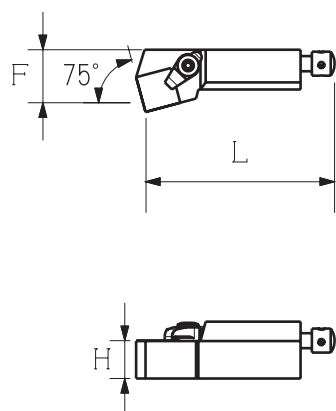
Order No.	Insert	Dimensions			Parts		Wrench	
		F	L	H				
CTFPR10CA-11	TPMN1103	14	50	10	CP50-27S		LW020	LW025
CTFPR12CA-16	TPMN1603	20	55	12	CP50-26	CS70-21	LW020	LW025
CTFPR16CA-16	TPMN1603	25	63	16	CP50-26	CS70-21	LW020	LW025

CTGP 90°

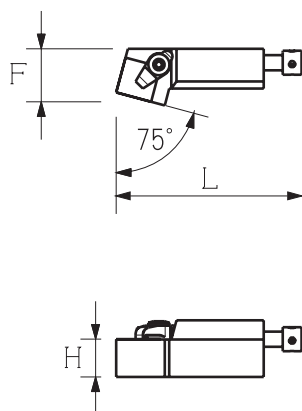
Order No.	Insert	Dimensions			Parts		Wrench	
		F	L	H				
CTGPR10CA-11	TPMN1103	14	50	10	CP50-27S		LW020	LW025
CTGPR12CA-16	TPMN1603	20	55	12	CP50-26	CS70-21	LW020	LW025
CTGPR16CA-16	TPMN1603	25	63	16	CP50-26	CS70-21	LW202	LW025



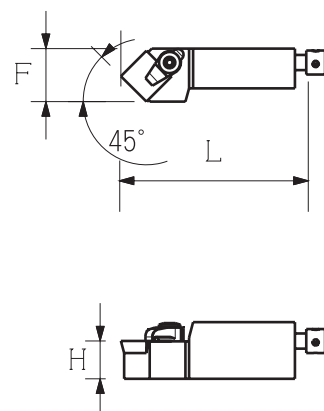
CSKP 75°



CSRP 75°



CSSP 45°



CSKP 75°

Order No.	Insert	Dimensions			Parts		Wrench	
		F	L	H				
CSKPR10CA-09	SPMN0903	14	50	10	CP50-27S		LW020	LW025
CSKPR12CA-12	SPMN1203	20	55	12	CP50-26	CS70-21	LW020	LW025

CSRP 75°

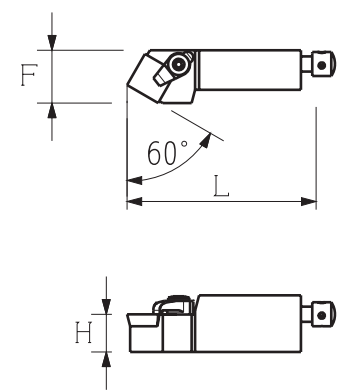
Order No.	Insert	Dimensions			Parts		Wrench	
		F	L	H				
CSRPR10CA-09	SPMN0903	14	50	10	CP50-27S		LW020	LW025
CSRPR12CA-12	SPMN1203	20	55	12	CP50-26	CS70-21	LW020	LW025

CSSP 45°

Order No.	Insert	Dimensions			Parts		Wrench	
		F	L	H				
SSSPR10CA-09	SPMN0903	14	50	10	CP50-27S		LW020	LW025
SSSPR12CA-12	SPMN1203	20	55	12	CP50-26	CS70-21	LW020	LW025



CSTP 60°



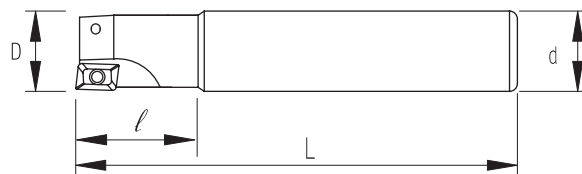
CSTP 60°

Order No.	Insert	Dimensions			Parts		Wrench	
		F	L	H				
CSTPR10CA-09	SPMN0903	14	50	10	CP50-27S		LW020	LW025
CSTPR12CA-12	SPMN1203	20	55	12	CP50-26	CS70-21	LW020	LW025



NEW AX SERIES

E90AX / E90AX-H/E90AX-LH *NEW*



Recommended Inserts 刀片建議品牌：SUMITOMO & NACHI

Order No.	D(mm)	L(mm)		l(mm)	d(mm)	I No.		Screw
			-LH				-LH	
E90AX12-D14	14	80	120	25	16	1	1	CS30051
E90AX12-D16	16	100	145	25	16	2	2	
E90AX12-D18	18	100	145	25	16	2	2	CS30058
E90AX12-D20	20	110	150	30	20	3	2	
E90AX12-D22	22	110	150	30	20	3	2	
E90AX12-D25	25	120	170	35	25	4	2	
E90AX12-D28	28	120	170	35	25	4	2	
E90AX12-D30	30	120	170	35	25	4	2	
E90AX12-D32	32	130	180	40	32	5	2	
E90AX12-D40	40	150	180	30	32	6	2	

E90AX12-D14H with cooling channel 附油孔

E90AX12-D14LH with longer shank and cooling channel 加長型附油孔

Insert	Screw	Wrench
AXMT 1235PDER	CS30051 / CS30058	DBIT-T8

Order No.	D(mm)	L(mm)		l(mm)	d(mm)	I No.	
			-LH				-LH
E90AX17-D25	25	120	170	35	25	2	2
E90AX17-D28	28	120	170	35	25	2	2
E90AX17-D30	30	130	180	40	25	3	2
E90AX17-D32	32	130	180	40	32	3	2
E90AX17-D35	35	130	180	40	32	3	2
E90AX17-D40	40	170	220	50	32	4	2

E90AX17-D25H with cooling channel 含油孔

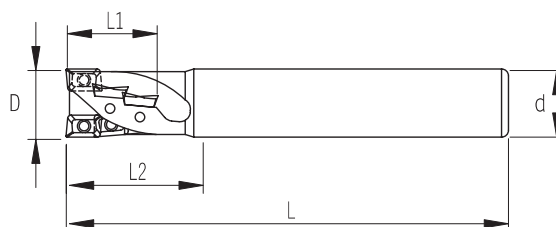
E90AX17-D25LH with longer shank and cooling channel 加長型附油孔

Insert	Screw	Wrench
AXMT 1705PDER	CS40090TP	DBIT-TP15



NEW AX SERIES

EM90AX *NEW*



Recommended Inserts 刀片建議品牌：SUMITOMO & NACHI

Order No.	D(mm)	d (mm)	L1(mm)	L2 (mm)	L (mm)	T No.	I No.
EM90AX12-D20	20	20	36	45	130	1	4
EM90AX12-D25	25	25	27	45	130	2	6
EM90AX12-D32	32	32	27	45	130	3	9

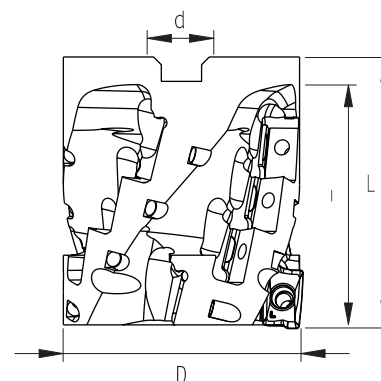
Insert	Screw	Wrench
AXMT 1235PDER	CS30058	DBIT-T8

Order No.	D(mm)	d(mm)	L1(mm)	L2(mm)	L(mm)	T No.	I No.
EM90AX17-D32	32	32	40	65	150	2	6
EM90AX17-D40	40	42	40	65	150	3	9

Insert	Screw	Wrench
AXMT 1705PDER	CS40090TP	DBIT-TP15

T No. = inserts per level 單段刃數 I No. = total inserts 總刃數 I / T = ladders 段數

EM90AX-S *NEW*



Recommended Inserts 刀片建議品牌：SUMITOMO & NACHI

Order No.	D(mm)	d(mm)	l(mm)	L(mm)	T No.	I No.
EM90AX17-D50S	50	22	53	70	3	12
EM90AX17-D63S	63	27	53	70	4	16
EM90AX17-D80S	80	32	53	85	5	20

Insert	Screw	Wrench
AXMT 1705PDER	CS40090TP	DBIT-TP15

T No. = inserts per level 單段刃數 I No. = total inserts 總刃數 I / T = ladders 段數



NEW AX SERIES

MSAX *NEW*



Fig 1

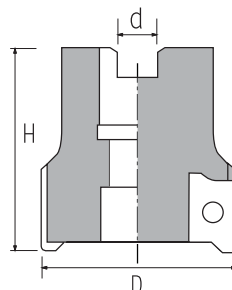
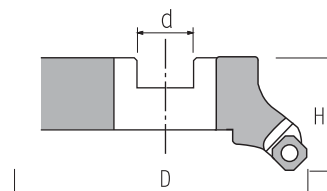


Fig 2



Recommended Inserts 刀片建議品牌：SUMITOMO & NACHI

Order No.	D(mm)	H(mm)	d(mm)	d(mm)	I No.	Arbor Type
MSAX12-D040A06	40	40	16	-	6	Fig. 1
MSAX12-D050A07	50	40	22	-	7	Fig. 1
MSAX12-D063A08	63	40	22	1"	8	Fig. 1

MSAX12-D040A06H with cooling channel 附油孔

Insert	Screw	Wrench
AXMT 1235PDER	CS30058	DBIT-T8

Standard Pitch Type

Order No.	D(mm)	H(mm)	d(mm)	d(mm)	I No.	Arbor Type
MSAX17-D040A04	40	40	16	-	4	Fig. 1
MSAX17-D050A05	50	40	22	-	5	Fig. 1
MSAX17-D063A06	63	50	22	1"	6	Fig. 1
MSAX17-D080B04	80	50	27	1"	4	Fig. 2
MSAX17-D100B05	100	63	32	1-1/4"	5	Fig. 2
MSAX17-D125B06	125	63	40	1-1/2"	6	Fig. 2

MSAX17-D040A04H with cooling channel 附油孔

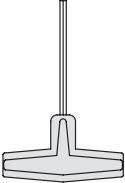
Fine Pitch Type

Order No.	D(mm)	H(mm)	d(mm)	d(mm)	I No.	Arbor Type
MSAX12-D080B07	80	50	27	1"	7	Fig. 2
MSAX12-D100B08	100	63	32	1-1/4"	8	Fig. 2
MSAX12-D125B09	125	63	40	1-1/2"	9	Fig. 2

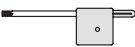
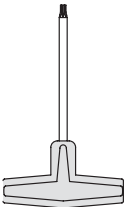
Insert	Screw	Wrench
AXMT 1705PDER	CS40090TP	DBIT-TP15

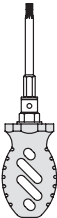


A series of 20 horizontal lines for writing, spanning the width of the page.

 HEX drive			
L-Wrence		T-handle Wrench	
LW015		TW030	
LW020		TW040	
LW025			
LW030			
LW035			
LW040			
LW050			
LW060			



 Torx drive							
Torx Wrenches		Torx Flag-type Wrench		Torx Drivers		Torx T-handle Wrench	
TL-20		FT-6		DT-6		TWT-15	
TL-25		FT-7		DT-7		TWT-20	
		FT-8		DT-8		TWT-25	
		FT-9		DT-9			
		FT-10		DT-10			
		FT-15		DT-15			
				DT-20			

Vario Handle		Replaceable drive bits			
BIT-H63		BIT-T6		DBIT-T6	
		BIT-T7		DBIT-T7	
		BIT-T8		DBIT-T8	
		BIT-T9		DBIT-T9	
		BIT-T10		DBIT-T10	
		BIT-T15		DBIT-T15	
		BIT-T20		DBIT-T20	
		BIT-T25		DBIT-T25	
		BIT-T30		DBIT-T30	
		BIT-T40		DBIT-T40	

 Torx drive_Vario set			
TBOXBIT-1			
Vario Handle : BIT-H63 Anti-seize lubricant : ASL-5M			
	BIT-T6		BIT-T10
	BIT-T7		BIT-T15
	BIT-T8		BIT-T20
	BIT-T9		BIT-T25



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