

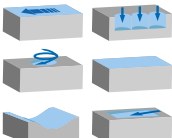
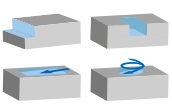
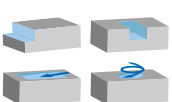
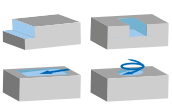
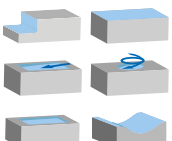
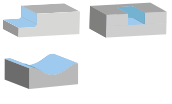
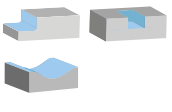
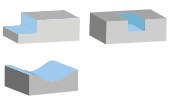
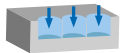
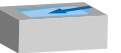
INDEXABLE & EXCHANGEABLE HEAD

Application Guide & Index P.2 - 5
Insert information P.40 - 43
Alpha-numeric index P.82





APPLICATION GUIDE & INDEX

Holder	Type		Application	Size Range	Page	Insert	Page.
M15HE KAPR 10°				Ø16mm - Ø40mm	6	 ENMX	46
M390E KAPR 90°				Ø20mm - Ø40mm	7	 TPKT TPCT	55
M690E KAPR 90°				Ø20mm - Ø40mm	8	 WNEX	56
G90AE KAPR 90°				Ø12mm - Ø32mm	9	 APKT APGT	44-45
G90ALE KAPR 90°				Ø16mm - Ø32mm	10		
G90RKE KAPR 0°				Ø16mm - Ø32mm	11	 RDKT RDKW	52
M200BC KAPR 0°		X		Ø8mm - Ø32mm	12	 M200B/R/S/H	58-61
M200BS KAPR 0°		X		Ø12mm - Ø32mm	13	 M200B M200R	60-61
M200BT KAPR 0°		X		Ø8mm - Ø32mm	14		
 Plunge Milling  High Feed  Interpolation  Ramping  Facing  Chamfering  Pocketing  Shoulder Milling  Slotting  Profiling  Slot Milling  T-Slot Milling							

Continued ►



APPLICATION GUIDE & INDEX

Holder	Type	♦	Application	Size Range	Page	Insert	Page
M200SS KAPR 90°		X		Ø12mm - Ø32mm	15	 M200S M200H	58-59
M200ST KAPR 90°		X		Ø8mm - Ø12mm	16		
G--CE KAPR 30° - 45°		X		Ø7mm - Ø25mm	18	 TCGT TCMT	64
G90TC KAPR 90°		X		Ø17mm - Ø55mm	17	 CCGT CCMT	63
M15HF KAPR 10°				Ø40mm - Ø100mm	19-20	 ENMX SDMT/W	46-47
M1645 KAPR 45°				Ø63mm - Ø160mm	23	 ONMU ONHU	50
M1036 KAPR 36°				Ø50mm - Ø160mm	21	 PNMU	51
M845 KAPR 45°				Ø50mm - Ø160mm	24	 SNMX	54
G45S KAPR 45°				Ø40mm - Ø160mm	25	 SEKT SEGT	53
Plunge Milling High Feed Interpolation Ramping Facing Chamfering Pocketing Shoulder Milling Slotting Profiling Slot Milling T-Slot Milling							

Continued ►



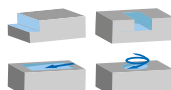
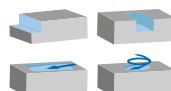
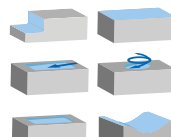
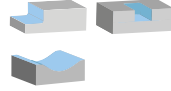
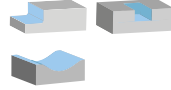
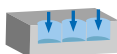
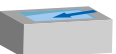
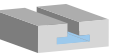
APPLICATION GUIDE & INDEX

Holder	Type	Application	Size Range	Page	Insert	Page
G43O KAPR 43°			Ø50mm - Ø125mm	22	ODMT ODMW	49
M390F KAPR 90°			Ø40mm - Ø200mm	26	TPKT TPCT	55
M690F KAPR 90°			Ø40mm - Ø200mm	27	WNEX	56
M90LTF KAPR 90°			Ø40mm - Ø200mm	28	LNKU LNHU	48
G90AF KAPR 90°			Ø40mm - Ø160mm	29	APKT APGT	44-45
G90RKF KAPR 0°			Ø40mm - Ø80mm	30	RDKT RDKW	52
GMF KAPR 90°		X	Ø40mm - Ø60mm	31	13T	65
G90SMC KAPR 90°		X	Ø80mm - Ø250mm	32-33	CCGT CCMT	63
M15HM KAPR 10°			Ø32mm - Ø40mm	34-35	ENMX SDMT/W	46-47
Plunge Milling High Feed Interpolation Ramping Facing Chamfering Pocketing Shoulder Milling Slotting Profiling Slot Milling T-Slot Milling						

Continued ►



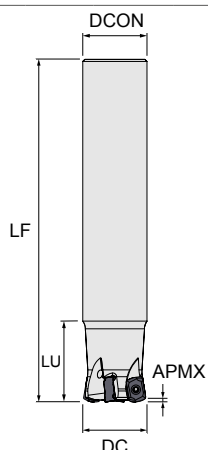
APPLICATION GUIDE & INDEX

Holder	Type		Application	Size Range	Page	Insert	Page	
M690M KAPR 90°				Ø32mm - Ø40mm	36	 WNEX	56	
G90AM KAPR 90°				Ø16mm - Ø40mm	37	 APKT APGT	44-45	
G90RKM KAPR 0°				Ø16mm - Ø42mm	38	 RDKT RDKW	52	
M200BM KAPR 0°		X		Ø10mm - Ø32mm	39	 M200B M200R	60-61	
EHX-R 4FL, 6FL C/R		X		Ø10mm - Ø32mm	68-71			
EHX-S 4FL, 6FL		X		Ø10mm - Ø32mm	72-73			
EHX-B 2FL, 3FL, 4FL		X		Ø10mm - Ø32mm	74-76			
MSCN MSSN MSTN				Ø10mm - Ø32mm	78-80			
 Plunge Milling  High Feed  Interpolation  Ramping  Facing  Chamfering  Pocketing  Shoulder Milling  Slotting  Profiling  Slot Milling  T-Slot Milling							MISCELLANEOUS INSERTS	66-67
							INSERT INFORMATION	40-43



HIGH FEED MILLING

M15HE END MILL



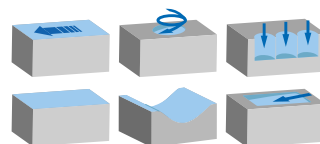
Insert P.46



ENMX 0604..



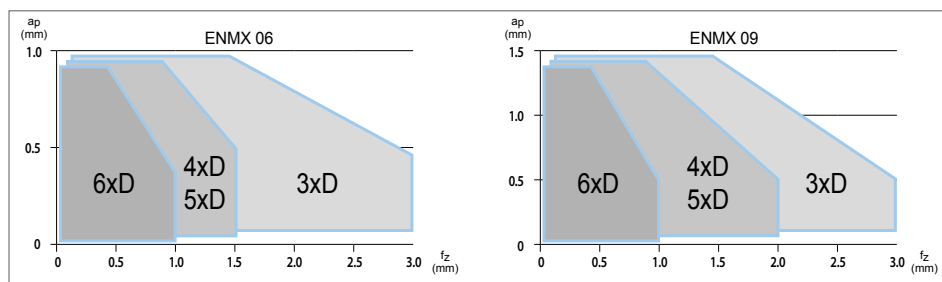
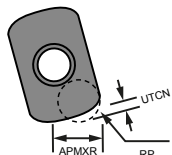
ENMX 0905..



EDP Code	TOOL CODE	♦	DC	DCON	LU	LF	APMX	ZEFP	Shank	Insert	Screw	Wrench
MTH0120	M15HE.16162PS-06	♦	16	16	30	100	0.9	2	PLAIN	ENMX 06	TXS2507	TXW08
MTH0121	M15HE.16162PL-06	♦	16	16	50	150	0.9	2	PLAIN			
MTH0132	M15HE.20203PM-06	♦	20	20	50	130	1.0	3	PLAIN			
MTH0122	M15HE.20203PL-06	♦	20	20	80	160	1.0	3	PLAIN			
MTH0133	M15HE.25254PI-06	♦	25	25	60	140	1.0	4	PLAIN			
MTH0123	M15HE.25254PM-06	♦	25	25	80	180	1.0	4	PLAIN			
MTH0124	M15HE.25254PL-06	♦	25	25	120	250	1.0	4	PLAIN			
MTH0134	M15HE.32325PM-06	♦	32	32	70	150	1.0	5	PLAIN			
MTH0125	M15HE.32325PL-06	♦	32	32	100	200	1.0	5	PLAIN	ENMX 09	TXS3510	TXW09H
MTH0196	M15HE.25252PS-09	♦	25	25	70	150	1.5	2	PLAIN			
MTH0197	M15HE.32323PS-09	♦	32	32	70	160	1.5	3	PLAIN			
MTH0198	M15HE.40325PS-09	♦	40	32	40	180	1.5	5	PLAIN			

Clamping torque
See P.81

Depth of cut/Feed per tooth by end mill length (based on alloy steels VDI 6-11)



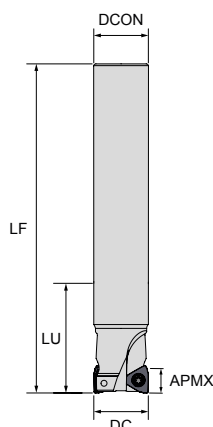
Insert	Cutting Dia. DC	Axial Max Depth APMX	Radial Max Depth APMXR	Ramping Angle Max RMPX	Programmed Corner Radius RP	Uncut Thickness UTCN
ENMX 06	16	0.9	3.5	3.5°	2.0	0.30
	20	1.0	3.7	1.8°	2.0	0.31
	25	1.0	3.7	1.2°	2.0	0.31
	32	1.0	3.7	0.8°	2.0	0.31
ENMX 09	25	1.5	4.7	3.8°	2.5	0.56
	32	1.5	4.7	2.4°	2.5	0.56
	40	1.5	4.7	1.6°	2.5	0.56



90° SHOULDER MILLING - POSITIVE

M390E

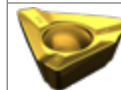
TRUE 90° END MILL



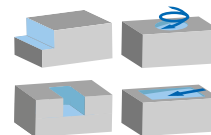
Insert P.55



TPCT 1104..
TPCT 1605..



TPKT 1104..
TPKT 1605..



EDP Code	TOOL CODE		DC	DCON	LU	LF	APMX	ZEFP	Shank	Insert	Screw	Wrench
MTH0390	M390E.20202WS-11	🔵	20	20	40	90	7.0	2	FLAT	TPCT 11 TPKT 11	TXS2562	TXW08
MTH0391	M390E.20202CL-11	🔵	20	20	40	170	7.0	2	PLAIN			
MTH0392	M390E.25253WS-11	🔵	25	25	40	100	7.0	3	FLAT			
MTH0393	M390E.25253CL-11	🔵	25	25	60	200	7.0	3	PLAIN			
MTH0394	M390E.32324WS-11	🔵	32	32	40	110	7.0	4	FLAT		TXS2506	TXW08
MTH0395	M390E.32323CL-11	🔵	32	32	60	230	7.0	3	PLAIN			
MTH0396	M390E.40325WS-11	🔵	40	32	40	115	7.0	5	FLAT			
MTH0397	M390E.40324CL-11	🔵	40	32	60	200	7.0	4	PLAIN			
MTH0402	M390E.32322CS-16	🔵	32	32	40	150	11.0	2	PLAIN	TPCT 16 TPKT 16		
MTH0403	M390E.32322CL-16	🔵	32	32	80	250	11.0	2	PLAIN			
MTH0406	M390E.40323WS-16	🔵	40	32	40	110	11.0	3	FLAT		TXS4510	TXW20F
MTH0407	M390E.40324CL-16	🔵	40	32	40	200	11.0	4	PLAIN			

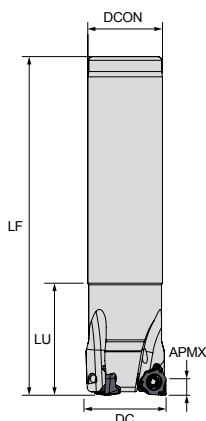
Clamping torque
See P.81



90° SHOULDER MILLING - NEGATIVE

M690E

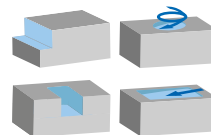
TRUE 90° END MILL



Insert P.56



WNEX 0806..



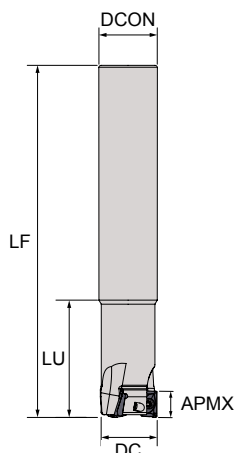
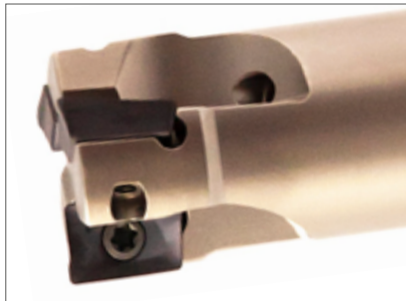
EDP Code	TOOL CODE	♦	DC	DCON	LU	LF	APMX	ZEFP	Shank	Insert	Screw	Wrench
MTH0435	M690E.32322WS-08	♦	32	32	40	120	7.0	2	FLAT	WNEX 08	TXS4011.2	TXW15
MTH0436	M690E.32322CL-08	♦	32	32	60	200	7.0	2	PLAIN			
MTH0437	M690E.40323WS-08	♦	40	32	40	120	7.0	3	FLAT			
MTH0438	M690E.40323CL-08	♦	40	32	60	200	7.0	3	PLAIN			
MTH0439	M690E.50324WS-08	♦	50	32	40	120	7.0	4	FLAT			

Clamping torque
See P.81

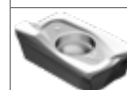
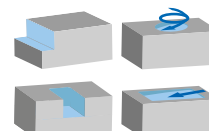


SHOULDER MILLING

G90AE END MILL



Insert P.44-45

APGT 1003..
APGT 1604..APKT 1003..
APKT 1604..

EDP Code	TOOL CODE	◆	DC	DCON	LU	LF	APMX	ZEFP	Shank Type	Insert	Screw	Wrench
MTH0273	G90AE.12161WS-10	◆	12	16	30	100	10	1	FLAT	APGT 10 APKT10	TXS2505	TXW08
MTH0274	G90AE.12161CL-10	X	12	16	38	150	10	1	PLAIN			
MTH0275	G90AE.14161WS-10	◆	14	16	30	100	10	1	FLAT			
MTH0276	G90AE.14161CL-10	X	14	16	38	150	10	1	PLAIN			
MTH0424	G90AE.16162FS-10	◆	16	16	37	85	10	2	FLAT			
MTH0152	G90AE.16162WS-10	◆	16	16	30	100	10	2	FLAT			
MTH0153	G90AE.16162CM-10	◆	16	16	30	120	10	2	PLAIN			
MTH0277	G90AE.16162CL-10	◆	16	16	50	150	10	2	PLAIN			
MTH0278	G90AE.16162CX-10	◆	16	16	100	200	10	2	PLAIN			
MTH0279	G90AE.18162WS-10	◆	18	16	30	100	10	2	FLAT			
MTH0425	G90AE.20203FS-10	◆	20	20	40	90	10	3	FLAT			
MTH0154	G90AE.20203WS-10	◆	20	20	30	100	10	3	FLAT			
MTH0155	G90AE.20203CM-10	◆	20	20	50	150	10	3	PLAIN			
MTH0280	G90AE.20203CL-10	◆	20	20	50	200	10	3	PLAIN			
MTH0281	G90AE.20203CX-10	◆	20	20	100	250	10	3	PLAIN			
MTH0282	G90AE.22203WS-10	◆	22	20	30	100	10	3	FLAT			
MTH0283	G90AE.25254WS-10	◆	25	25	30	100	10	4	FLAT			
MTH0284	G90AE.25254WL-10	◆	25	25	50	150	10	4	FLAT			
MTH0156	G90AE.25252WS-16	◆	25	25	35	100	16	2	FLAT	APGT 16 APKT16	TXS4009	TXW15
MTH0157	G90AE.25252WL-16	X	25	25	50	150	16	2	FLAT			
MTH0285	G90AE.28253WS-16	◆	28	25	40	100	16	3	FLAT			
MTH0286	G90AE.30253WS-16	◆	30	25	40	110	16	3	FLAT			
MTH0158	G90AE.32323WS-16	◆	32	32	40	110	16	3	FLAT			
MTH0159	G90AE.32323WL-16	◆	32	32	50	150	16	3	FLAT			

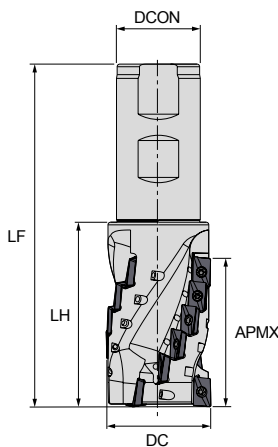
Clamping torque
See P.81



SHOULDER MILLING

G90ALE

LONG EDGE MILLING



Insert P.44-45



APGT 1003..



APKT 1003..

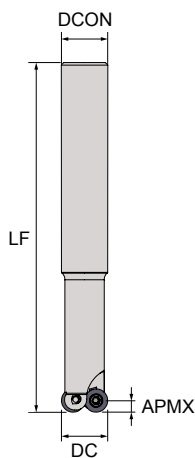


EDP Code	TOOL CODE	◆	DC	DCON	LH	LF	APMX	ZEFP	CICT	Insert	Screw	Wrench
MTH0268	G90ALE.20202-4FS-10	X	20	20	37	87	28	2	4	APGT 10 APKT10	TXS2506.1	TXW08
MTH0269	G90ALE.20202-6FS-10	X	20	20	37	87	28	2	6			
MTH0270	G90ALE.25252-8FS-10	◆	25	25	50	105	37	2	8			
MTH0271	G90ALE.32323-15FS-10	◆	32	32	55	115	46	3	15			
MTH0272	G90ALE.40323-18FS-10	◆	40	32	70	130	55	3	18			

Clamping torque
See P.81

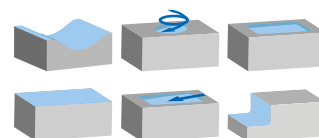


PROFILE MILLING

G90RKE
END MILL


Insert P.52


RDKT 0802..
RDKT 10T3..
RDKT 1204..
RDKT 1604..

RDKW 0802..
RDKW 10T3..
RDKW 1204..


EDP Code	TOOL CODE		DC	DCON	LF	APMX	ZEFP	Shank Type	Insert	Screw	Clamp	Clamp Screw	Wrench
MTH0287	G90RKE.16162CS-08	💧	16	16	100	4	2	PLAIN	RDKT08 RDKW08	TXS2505	-	-	TXW08
MTH0097	G90RKE.16162CM-08	💧	16	16	160	4	2	PLAIN					
MTH0288	G90RKE.20203CM-08	💧	20	20	150	4	3	PLAIN					
MTH0090	G90RKE.20202CL-08	💧	20	20	180	4	2	PLAIN					
MTH0091	G90RKE.25203CL-08	💧	25	20	180	4	3	PLAIN					
MTH0289	G90RKE.25254CL-08	💧	25	25	200	4	4	PLAIN	RDKT10 RDKW10	TXS3509	TTAP-3	TXS3511	TXW15
MTH0161	G90RKE.20202CM-10C	X	20	20	150	5	2	PLAIN			-	-	
MTH0092	G90RKE.20202CL-10	💧	20	20	180	5	2	PLAIN			-	-	
MTH0093	G90RKE.25252CM-10	💧	25	25	180	5	2	PLAIN			TTAP-3	TXS3511	
MTH0189	G90RKE.25252CL-10C	💧	25	25	200	5	2	PLAIN	RDKT12 RDKW12	TXS3509	TTAP-3	TXS3511	TXW15
MTH0163	G90RKE.32323CM-12C	X	32	32	160	6	3	PLAIN					
MTH0164	G90RKE.32322CL-12C	X	32	32	200	6	2	PLAIN	RDKT 16	TXS4511	TTAP-1	TXS4511	TXW15
MTH0290	G90RKE.40322WM-16C	X	40	32	150	8	2	FLAT					

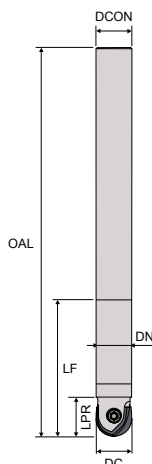
Clamping torque
See P.81



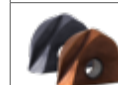
PROFILE MILLING

M200BC

CARBIDE SHANK, STRAIGHT



Insert P.58-61

M200B
M200RM200S
M200H

EDP Code	TOOL CODE	♦	DC	DCON	DN	LPR	LF	OAL	Insert	Screw	Wrench
204350080L	M200BC.0808CS	X	8	8	7.6	12	25	130	M200B08 M200R08 M200S08 M200H08	TXS2508	TXW07
204350081L	M200BC.0808CM	X	8	8	7.6	12	40	130			
204350082L	M200BC.0808CL	X	8	8	7.6	12	65	130			
204350100L	M200BC.1010CS	X	10	10	9.5	15	30	140	M200B10 M200R10 M200S10 M200H10	TXS3010	TXW08
204350101L	M200BC.1010CM	X	10	10	9.5	15	50	140			
204350102L	M200BC.1010CL	X	10	10	9.5	15	75	140			
204350120L	M200BC.1212CS	X	12	12	11.4	17	35	150	M200B12 M200R12 M200S12 M200H12	TXS3512	TXW10
204350121L	M200BC.1212CM	X	12	12	11.4	17	60	150			
204350122L	M200BC.1212CL	X	12	12	11.4	17	85	150			
204350160L	M200BC.1616CS	X	16	16	15.0	20	50	200	M200B16 M200R16 M200S16 M200H16	TXS4016	TXW15
204350161L	M200BC.1616CM	X	16	16	15.0	20	80	200			
204350162L	M200BC.1616CL	X	16	16	15.0	20	120	200			
204350163L	M200BC.1616CX	X	16	16	15.0	20	80	250	M200B20 M200R20 M200S20 M200H20	TXS5020	TXW20
204350200L	M200BC.2020CS	X	20	20	19.0	25	60	200			
204350201L	M200BC.2020CM	X	20	20	19.0	25	80	200			
204350202L	M200BC.2020CL	X	20	20	19.0	25	100	250	M200B25 M200R25 M200S25 M200H25	TXS6025	TXW25
204350203L	M200BC.2020CX	X	20	20	19.0	25	150	250			
204350250L	M200BC.2525CS	X	25	25	24.0	30	75	200			
204350251L	M200BC.2525CM	X	25	25	24.0	30	120	250	M200B30/32 M200R30/32 M200S30/32 M200H30/32	TXS8030	TXW30
204350252L	M200BC.2525CL	X	25	25	24.0	30	190	300			
204350300L	M200BC.3032CS	X	30, 32	32	29.0	40	90	250			
204350301L	M200BC.3032CM	X	30, 32	32	29.0	40	150	300			
204350302L	M200BC.3032CL	X	30, 32	32	29.0	40	190	300			

► For assembly instructions see P.62

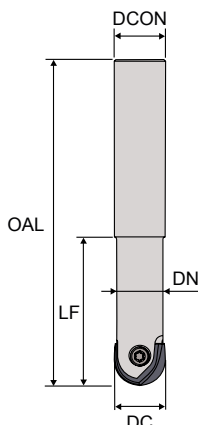
Clamping torque
See P.81



PROFILE MILLING

M200BS

STEEL SHANK, STRAIGHT



Insert P.60-61

	M200B
	M200R



EDP Code	TOOL CODE	♦	DC	DCON	DN	LF	OAL	Insert	Screw	Wrench
203350120S	M200BS.1212SS	X	12	12	10.5	35	90	M200B12 M200R12	TXS3512	TXW10
203350120R	M200BS.1212SL	X	12	12	10.5	55	110			
203350160S	M200BS.1616SS	X	16	16	14.5	35	95	M200B16 M200R16	TXS4016	TXW15
203350160R	M200BS.1616SL	X	16	16	14.5	65	125			
203350200S	M200BS.2020SS	X	20	20	18.0	40	110	M200B20 M200R20	TXS5020	TXW20
203350200R	M200BS.2020SL	X	20	20	18.0	75	145			
203350250S	M200BS.2525SS	X	25	25	22.5	45	125	M200B25 M200R25	TXS6025	TXW25
203350250R	M200BS.2525SL	X	25	25	22.5	90	170			
203350300S	M200BS.3032SS	X	30, 32	32	27.0	55	140	M200B30/32 M200R30/32	TXS8030	TXW30
203350300R	M200BS.3032SL	X	30, 32	32	27.0	110	195			

► For assembly instructions see P.62

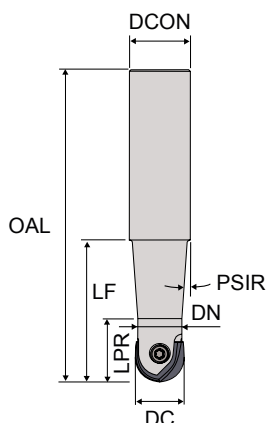
Clamping torque
See P.81



PROFILE MILLING

M200BT

STEEL SHANK, TAPERED



Insert P.60-61

	M200B
	M200R



EDP Code	TOOL CODE	♦	DC	DCON	DN	LPR	LF	OAL	PSIR	Insert	Screw	Wrench
202350080S	M200BT.0812SS	X	8	12	7.2	12	35	90	4°43'	M200B08 M200R08	TXS2508	TXW07
202350080R	M200BT.0812SL	X	8	12	7.2	25	55	110	3°37'			
202350100S	M200BT.1012SS	X	10	12	9.0	15	35	90	2°51'	M200B10 M200R10	TXS3010	TXW08
202350100R	M200BT.1012SL	X	10	12	9.0	17	55	110	2°17'			
202350120S	M200BT.1216SS	X	12	16	10.5	17	55	110	3°23'	M200B12 M200R12	TXS3512	TXW10
202350160S	M200BT.1620SS	X	16	20	14.5	20	65	125	2°51'	M200B16 M200R16	TXS4016	TXW15
202350200S	M200BT.2025SS	X	20	25	18.0	25	75	145	3°56'	M200B20 M200R20	TXS5020	TXW20
202350250S	M200BT.2532SS	X	25	32	22.5	30	90	170	4°03'	M200B25 M200R25	TXS6025	TXW25
202350300S	M200BT.3032SS	X	30, 32	32	27.0	40	110	190	1°38'	M200B30/32 M200R30/32	TXS8030	TXW30

► For assembly instructions see P.62

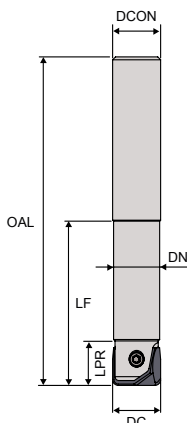
Clamping torque
See P.81



PROFILE MILLING

M200SS

STEEL SHANK, STRAIGHT



Insert P.58-59

	M200S
	M200H



EDP Code	TOOL CODE	♦	DC	DCON	DN	LPR	LF	OAL	Insert	Screw	Wrench
206350120R	M200SS.1212SS	X	12, 13	12	11.0	13	30	110	M200S12/13 M200H12	TXS3512	TXW10
206350160R	M200SS.1616SS	X	16, 17	16	15.0	15	50	130	M200S16/17 M200H16	TXS4016	TXW15
206350160I	M200SS.1616SL	X	16, 17	16	15.0	15	65	165			
206350200R	M200SS.2020SS	X	20, 21	20	19.0	18	60	140	M200S20/21 M200H20	TXS5020	TXW20
206350200I	M200SS.2020SL	X	20, 21	20	19.0	18	80	180			
206350250R	M200SS.2525SS	X	25, 26	25	24.0	23	70	150	M200S25/26 M200H25	TXS6025	TXW25
206350250I	M200SS.2525SL	X	25, 26	25	24.0	23	90	200			
206350300R	M200SS.3032SS	X	30	32	29.0	27	80	160	M200S30 M200H30	TXS8030	TXW30
206350300I	M200SS.3032SL	X	30	32	29.0	27	100	220			

► For assembly instructions see P.62

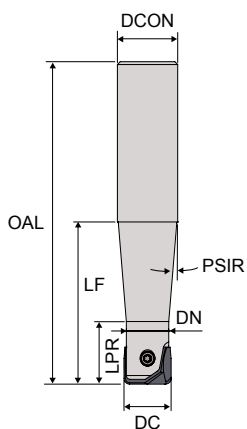
Clamping torque
See P.81



PROFILE MILLING

M200ST

STEEL SHANK, TAPERED



Insert P.58-59

	M200S
	M200H



EDP Code	TOOL CODE	♦	DC	DCON	DN	LPR	LF	OAL	PSIR	Insert	Screw	Wrench
205350080R	M200ST.0812SS	X	8	12	6.7	10	22	100	9°	M200S08 M200H08	TXS2508	TXW07
205350080L	M200ST.0812SL	X	8	12	6.7	10	50	130	2°43'			
205350100R	M200ST.1012SS	X	10	12	8.6	13	25	100	4°45'	M200S10 M200H10	TXS3010	TXW08
205350100L	M200ST.1012SL	X	10	12	8.6	13	50	150	1°32'			
205350120L	M200ST.1216SL	X	12, 13	16	10.2	15	60	160	2°32'	M200S12/13 M200H12	TXS3512	TXW10

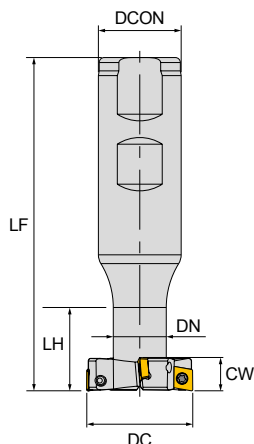
► For assembly instructions see P.62

Clamping torque
See P.81



T-SLOT MILLING

G90TC



Insert P.63



CCGT 0602..
CCGT 09T3..
CCGT 1204..



CCMT 0602..
CCMT 09T3..
CCMT 1204..



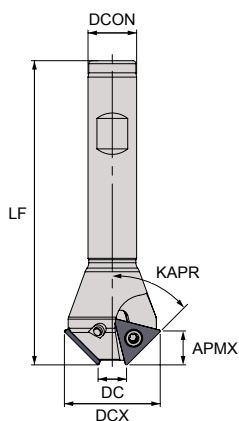
EDP Code	TOOL CODE	♦	DC	CW	DCON	LH	LF	DN	ZEFP	Insert	Screw	Wrench
MTH0209	G90TC.178162FS-06	X	17	8	16	16	85	10	2	CCGT 06 CCMT 06	TXS2506.1	TXW08
MTH0210	G90TC.288204FS-06	X	28	8	20	15.5	66	14	4			
MTH0211	G90TC.328254FS-06	X	32	8	25	23	100	16	4			
MTH0212	G90TC.4558256FS-06	X	45.5	8	25	30	100	12	6			
MTH0213	G90TC.638328FS-06	X	63	8	32	30	125	31.5	8			
MTH0214	G90TC.189162FS-06	X	18	9	16	16	90	10	2			
MTH0215	G90TC.209164FS-06	X	20	9	16	16	85	10	4			
MTH0216	G90TC.2310204FS-06	X	23	10	20	25	90	12	4			
MTH0217	G90TC.3210254FS-06	X	32	10	25	25	100	16	4			
MTH0218	G90TC.4510326FS-06	X	45	10	32	25	120	20	6			
MTH0219	G90TC.2511254FS-06	X	25	11	25	20	100	13	4	CCGT 09 CCMT 09	TXS3509	TW15
MTH0220	G90TC.3012254FS-09	X	30	12	25	25	100	16	4			
MTH0221	G90TC.3212252FS-09	X	32	12	25	25	100	16	2			
MTH0222	G90TC.3212254FS-09	X	32	12	25	25	100	16	4			
MTH0223	G90TC.3214254FS-09	X	32	14	25	25	100	16	4			
MTH0224	G90TC.3716324FS-09	X	37	16	32	30	120	17	4			
MTH0225	G90TC.4017324FS-09	X	40	17	32	30	120	19	4			
MTH0226	G90TC.4217324FS-09	X	42	17	32	30	120	19	4	CCGT 12 CCMT 12	TXS5011	TXW20F
MTH0227	G90TC.4720324FS-12	X	47	20	32	45	120	25	4			
MTH0228	G90TC.5221324FS-12	X	52	21	32	45	120	25	4			
MTH0229	G90TC.5022324FS-12	X	50	22	32	45	120	25	4			
MTH0230	G90TC.5522324FS-12	X	55	22	32	45	120	25	4			

Clamping torque
See P.81



CHAMFER MILLING

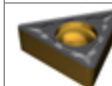
GCE CHAMFER MILL



Insert P.64



TCGT 16T3..



TCMT 16T3..



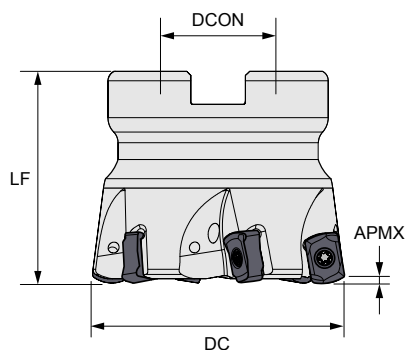
EDP Code	TOOL CODE	♦	DC	DCX	DCON	LF	KAPR	APMX	ZEFP	Insert	Screw	Wrench
MTH0170	G30CE.06161-16	X	6	20	16	100	30°	13.3	1	TCGT 16 TCMT 16	TXS3509	TXW15
MTH0171	G30CE.175202-16	X	17.5	32.5	20	100	30°	13.3	2			
MTH0172	G45CE.05161-16	X	5	26	16	100	45°	10.8	1			
MTH0173	G45CE.18202-16	X	18	39	20	100	45°	10.8	2			
MTH0174	G45CE.20202-16	X	20	41	20	100	45°	10.8	2			

 Clamping torque
See P.81



HIGH FEED MILLING

M15HF FACE MILL



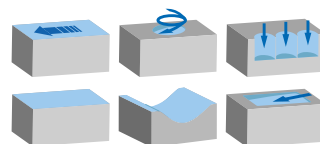
Insert P.46



ENMX 0604..

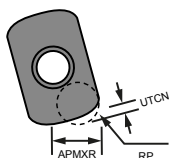


ENMX 0905....



EDP Code	TOOL CODE		DC	DCON	LF	APMX	ZEFP	Insert	Screw	Wrench
MTH0126	M15HF.40166-06	♦	40	16	40	1.0	6	ENMX 06	TXS2507	TXW08
MTH0127	M15HF.50226-06	♦	50	22	40	1.0	6			
MTH0135	M15HF.63228-06	♦	63	22	40	1.0	8			
MTH0199	M15HF.50225-09	♦	50	22	50	1.5	5	ENMX 09	TXS3510	TXW09H
MTH0200	M15HF.63226-09	♦	63	22	50	1.5	6			
MTH0201	M15HF.63227-09	♦	63	22	50	1.5	7			
MTH0202	M15HF.80278-09	♦	80	27	50	1.5	8			
MTH0203	M15HF.1003210-09	♦	100	32	63	1.5	10			
MTH0204	M15HF.1254012-09	X	125	40	63	1.5	12			

Clamping torque
See P.81

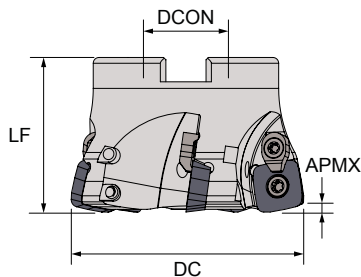


Insert	Cutting Dia. DC	Axial Max Depth APMX	Radial Max Depth APMXR	Ramping Angle Max RMPX	Programmed Corner Radius RP	Uncut Thickness UTCN
ENMX 06	40	1.0	3.7	0.6°	2.0	0.31
	50	1.0	3.7	0.5°	2.0	0.31
	63	1.0	3.7	0.4°	2.0	0.31
ENMX 09	50	1.5	4.7	1.1°	2.5	0.56
	63	1.5	4.7	0.8°	2.5	0.56
	80	1.5	4.7	0.6°	2.5	0.56
	100	1.5	4.7	0.5°	2.5	0.56
	125	1.5	4.7	0.4°	2.5	0.56

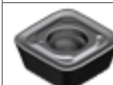


HIGH FEED MILLING

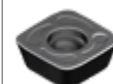
M15HF FACE MILL



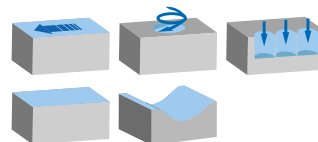
Insert P.47



SDMT 1204..



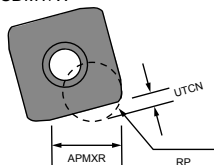
SDMW 1204..



EDP Code	TOOL CODE		DC	DCON	LF	APMX	ZEFP	Insert	Screw	Clamp	Clamp Screw	Wrench
MTH0081	M15HF.63225-12	💧	63	22	40	1.8	5	SDMT 12	TXS4009	TTAP-3	TXS3511	TXW15
MTH0187	M15HF.80276-12	💧	80	27	50	1.8	6	SDMW 12				

Clamping torque
See P.81

SDMT/W



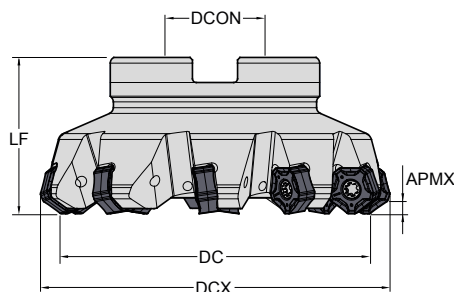
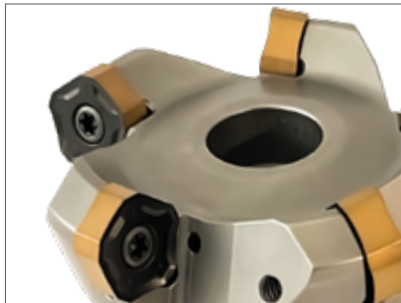
Insert	Cutting Dia. DC	Axial Max Depth APMX	Radial Max Depth APMXR	Programmed Corner Radius RP	Uncut Thickness UTCN
SDMT/W	35	1.8	8.6	3.5	0.94
	40	1.8	8.6	3.5	0.94
	63	1.8	8.6	3.5	0.94
	80	1.8	8.6	3.5	0.94



36° FACE MILLING

M1036

36° FACE MILL



Insert P.51



PNMU 1206..



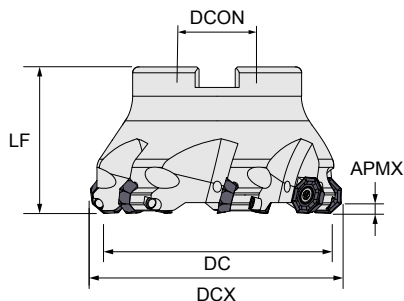
EDP Code	TOOL CODE		DC	DCX	DCON	LF	APMX	ZEFP	Insert	Screw	Wrench
MTH0190	M1036.50224-12	💧	50	83.6	22	40	4.0	4	PNMU 12	TXS4011	TXW15
MTH0191	M1036.63225-12	💧	63	96.6	22	40	4.0	5			
MTH0192	M1036.80278-12	💧	80	113.6	27	50	4.0	8			
MTH0193	M1036.1003210-12	💧	100	133.6	32	50	4.0	10			
MTH0194	M1036.1254012-12	X	125	158.6	40	63	4.0	12			
MTH0195	M1036.160408-12	X	160	196.6	40	63	4.0	8			

Clamping torque
See P.81



43° FACE MILLING

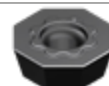
G43O FACE MILL



Insert P.49



ODMT 0605..



ODMW 0605..



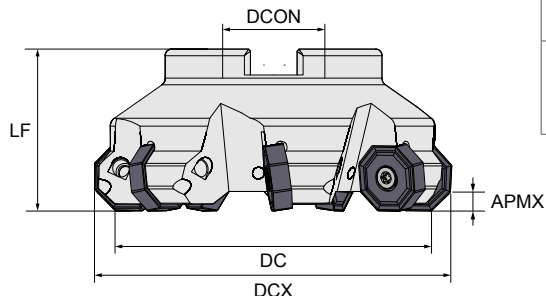
EDP Code	TOOL CODE		DC	DCX	DCON	LF	APMX	ZEFP	Insert	Screw	Clamp	Clamp Screw	Wrench
MTH0149	G43O.80276-06C	💧	80	90	27	50	4	6	ODMT 06 ODMW 06	TXS5011	TTAP-1	TXS4011	TXW20F
MTH0150	G43O.100327-06C	💧	100	110	32	50	4	7					
MTH0151	G43O.125408-06C	X	125	135	40	63	4	8					

Clamping torque
See P.81



45° FACE MILLING

M1645 FACE MILL



Insert P.50



ONMU 0806..



ONHU 0806..



EDP Code	TOOL CODE		DC	DCX	DCON	LF	APMX	ZEFP	Insert	Screw	Clamp	Clamp Screw	Wrench
MTH0292	M1645.50224-08	♦	50	62	22	40	5.5	4	ONMU 08 ONHU 08	TXS5013	-	-	TXW20F
MTH0014	M1645.63225-08	♦	63	75	22	40	5.5	5					
MTH0293	M1645.63226-08	♦	63	75	22	40	5.5	6					
MTH0294	M1645.63227-08	♦	63	75	22	40	5.5	7					
MTH0015	M1645.80276-08	♦	80	92	27	50	5.5	6		-	MMBC-16	HMBV16M	HA3
MTH0016	M1645.80278-08	♦	80	92	27	50	5.5	8					
MTH0128	M1645.802710-08C	X	80	92	27	50	5.5	10		TXS5013	-	-	TXW20F
MTH0017	M1645.100327-08	♦	100	112	32	50	5.5	7					
MTH0018	M1645.1003210-08	♦	100	112	32	50	5.5	10		-	MMBC-16	HMBV16M	HA3
MTH0129	M1645.1003214-08C	X	100	112	32	50	5.5	14					
MTH0019	M1645.125408-08	X	125	137	40	63	5.5	8		TXS5013	-	-	TXW20F
MTH0020	M1645.1254012-08	X	125	137	40	63	5.5	12					
MTH0130	M1645.1254018-08C	X	125	137	40	63	5.5	18		-	MMBC-16	HMBV16M	HA3
MTH0021	M1645.1604010-08	X	160	172	40	63	5.5	10					
MTH0295	M1645.1604014-08	X	160	172	40	63	5.5	14		TXS5013	-	-	TXW20F
MTH0131	M1645.1604022-08C	X	160	172	40	63	5.5	22					
MTH0296	M1645.2006012-08	X	200	212	60	63	5.5	12		TXS5013	-	-	TXW20F
MTH0297	M1645.2506014-08	X	250	262	60	63	5.5	14					
MTH0298	M1645.3156016-08	X	315	327	60	63	5.5	16					

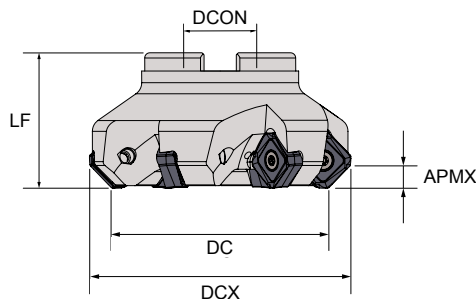
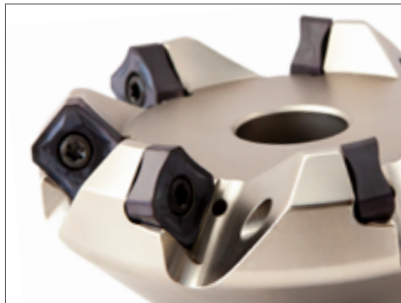
Clamping torque
See P.81



45° FACE MILLING

M845

FACE MILL



Insert P.54



SNMX 1206..



EDP Code	TOOL CODE		DC	DCX	DCON	LF	APMX	ZEFP	Insert	Screw	Clamp	Clamp Screw	Wrench
MTH0143	M845.50224-12C	💧	50	64	22	40	6	4	SNMX 12	TXS4011.1	TTAP-1	TXS4011	TXW15
MTH0144	M845.63226-12C	💧	63	77	22	40	6	6					
MTH0145	M845.80277-12C	💧	80	94	27	50	6	7					
MTH0146	M845.100328-12C	💧	100	114	32	50	6	8					
MTH0147	M845.1254010-12C	X	125	139	40	63	6	10					
MTH0148	M845.1604012-12C	X	160	174	40	63	6	12					
MTH0291	M845.2006014-12C	X	200	214	60	65	6	14					

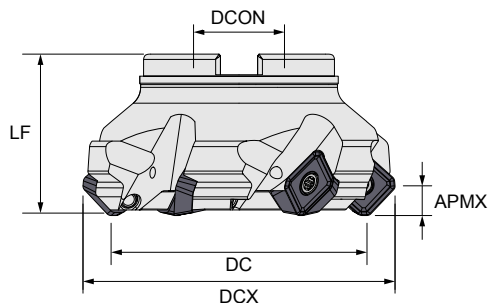
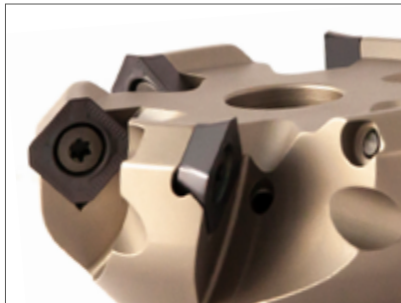
Clamping torque
See P.81



45° FACE MILLING

G45S

FACE MILL



Insert P.53



SEGT 1204..



SEKT 1204..



EDP Code	TOOL CODE		DC	DCX	DCON	LF	APMX	ZEFP	Insert	Screw	Wrench
MTH0039	G45S.40164-12	💧	40	54	16	40	6	4	SEKT 1204	TXS4510	TXW20F
MTH0040	G45S.50225-12	💧	50	64	22	40	6	5			
MTH0042	G45S.63226-12	💧	63	77	22	40	6	6			
MTH0044	G45S.80277-12	💧	80	94	27	50	6	7			
MTH0045	G45S.100328-12	💧	100	114	32	50	6	8			
MTH0046	G45S.1254010-12	X	125	139	40	63	6	10			
MTH0047	G45S.1604012-12	X	160	174	40	63	6	12			

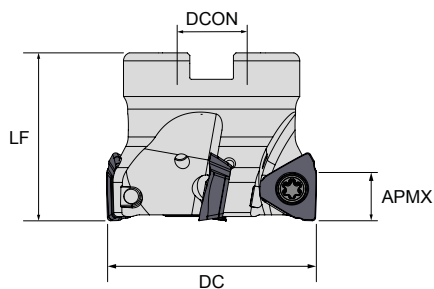
Clamping torque
See P.81



90° SHOULDER MILLING - POSITIVE

M390F

TRUE 90° FACE MILL



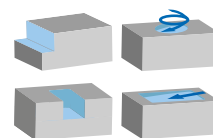
Insert P.55



TPCT 1104..
TPCT 1605..



TPKT 1104..
TPKT 1605..



EDP Code	TOOL CODE		DC	DCON	LF	APMX	ZEFP	Insert	Screw	Wrench
MTH0398	M390F.40165-11	•	40	16	40	7.0	5	TPCT 11 TPKT 11	TXS2506	TXW08
MTH0399	M390F.50226-11	•	50	22	40	7.0	6			
MTH0400	M390F.63227-11	•	63	22	40	7.0	7			
MTH0401	M390F.63228-11	•	63	22	40	7.0	8			
MTH0408	M390F.50224-16	•	50	22	40	11.0	4	TPCT 16 TPKT 16	TXS4510	TXW20F
MTH0409	M390F.63225-16	•	63	22	40	11.0	5			
MTH0410	M390F.63226-16	•	63	22	40	11.0	6			
MTH0411	M390F.80276-16	•	80	27	50	11.0	6			
MTH0412	M390F.80277-16	•	80	27	50	11.0	7			
MTH0413	M390F.100328-16	•	100	32	50	11.0	8			
MTH0414	M390F.1254010-16	X	125	40	63	11.0	10			
MTH0415	M390F.1254012-16	X	125	40	63	11.0	12			
MTH0416	M390F.1604011-16	X	160	40	63	11.0	11			
MTH0417	M390F.2006011-16	X	200	60	63	11.0	11			

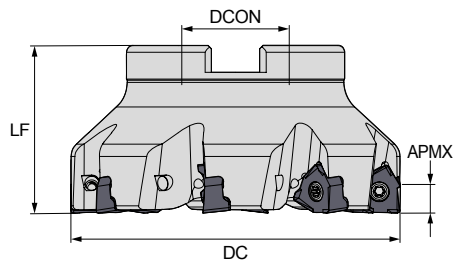
Clamping torque
See P.81



90° SHOULDER MILLING - NEGATIVE

M690F

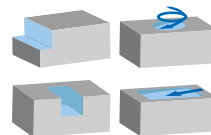
TRUE 90° FACE MILL



Insert P.56



WNEX 0806..



EDP Code	TOOL CODE		DC	DCON	LF	APMX	ZEFP	Insert	Screw	Wrench
MTH0440	M690F.50224-08	♦	50	22	40	7.0	4	WNEX 08	TXS4011.2	TXW15
MTH0441	M690F.50225-08	♦	50	22	40	7.0	5			
MTH0442	M690F.63225-08	♦	63	22	40	7.0	5			
MTH0443	M690F.63226-08	♦	63	22	40	7.0	6			
MTH0444	M690F.80274-08	♦	80	27	50	7.0	4			
MTH0445	M690F.80277-08	♦	80	27	50	7.0	7			
MTH0446	M690F.80279-08	♦	80	27	50	7.0	9			
MTH0447	M690F.100329-08	♦	100	32	50	7.0	9			
MTH0448	M690F.1003211-08	♦	100	32	50	7.0	11			
MTH0449	M690F.1254011-08	X	125	40	63	7.0	11			
MTH0450	M690F.1254014-08	X	125	40	63	7.0	14			

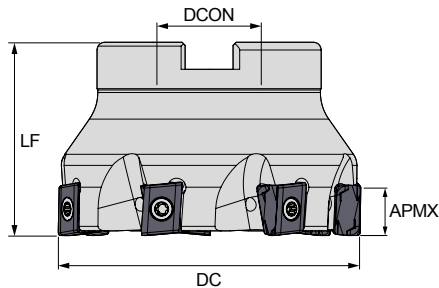
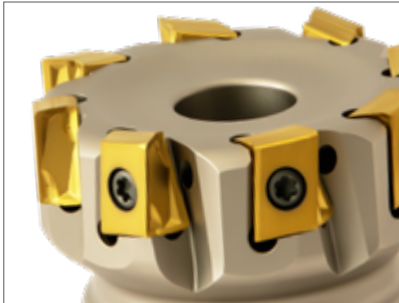
Clamping torque
See P.81



90° TANGENTIAL MILLING

M90LTF

TRUE 90° FACE MILL



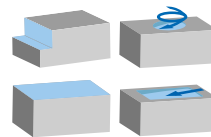
Insert P.48



LNKH 1306..



LNHU 1306..



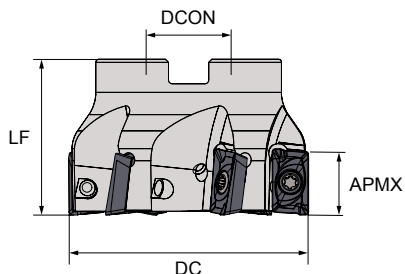
EDP Code	TOOL CODE		DC	DCON	LF	APMX	ZEFP	Insert	Screw	Wrench
MTH0308	M90LTF.40164-13	♦	40	16	40	11	4	LNKH 13 LNHU 13	TXS4012	TXW15
MTH0309	M90LTF.40165-13	♦	40	16	40	11	5			
MTH0310	M90LTF.50225-13	♦	50	22	40	11	5			
MTH0311	M90LTF.50226-13	♦	50	22	40	11	6			
MTH0312	M90LTF.63226-13	♦	63	22	40	11	6			
MTH0313	M90LTF.63228-13	♦	63	22	40	11	8			
MTH0314	M90LTF.80275-13	♦	80	27	50	11	5			
MTH0315	M90LTF.80277-13	♦	80	27	50	11	7			
MTH0316	M90LTF.80278-13	♦	80	27	50	11	8			
MTH0317	M90LTF.802710-13	♦	80	27	50	11	10			
MTH0318	M90LTF.100326-13	♦	100	32	50	11	6			
MTH0319	M90LTF.100328-13	♦	100	32	50	11	8			
MTH0320	M90LTF.100329-13	♦	100	32	50	11	9			
MTH0321	M90LTF.1003213-13	♦	100	32	50	11	13			
MTH0322	M90LTF.1254011-13	♦	125	40	63	11	11			
MTH0323	M90LTF.1254016-13	♦	125	40	63	11	16			
MTH0324	M90LTF.1604013-13	X	160	40	63	11	13			
MTH0325	M90LTF.1604018-13	X	160	40	63	11	18			

Clamping torque
See P.81



SHOULDER MILLING

G90AF FACE MILL



Insert P.44-45



APGT 1003..
APGT 1604..



APKT 1003..
APKT 1604..



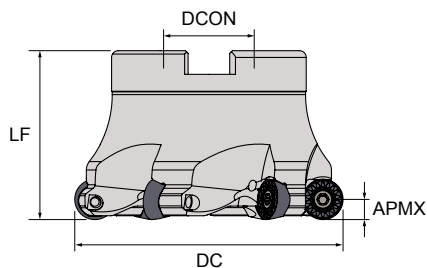
EDP Code	TOOL CODE		DC	DCON	LF	APMX	ZEFP	Insert	Screw	Wrench
MTH0188	G90AF.40165-10	♦	40	16	40	10	5	APGT 10 APKT10	TXS2506.1	TXW08
MTH0186	G90AF.50226-10	♦	50	22	40	10	6			
MTH0005	G90AF.63227-10	♦	63	22	40	10	7			
MTH0353	G90AF.80278-10	♦	80	27	50	10	8			
MTH0456	G90AF.100329-10	♦	100	32	50	10	9			
MTH0352	G90AF.40164-16	♦	40	16	40	16	4	APGT 16 APKT16	TXS4011	TXW15
MTH0006	G90AF.50225-16	♦	50	22	40	16	5			
MTH0426	G90AF.63226-16	♦	63	22	40	16	6			
MTH0427	G90AF.80277-16	♦	80	27	50	16	7			
MTH0007	G90AF.100328-16	♦	100	32	50	16	8			
MTH0160	G90AF.125409-16	X	125	40	63	16	9			
MTH0009	G90AF.1604010-16	X	160	40	63	16	10			
MTH0305	G90AF.2006012-16	X	200	60	63	16	12			

Clamping torque
See P.81



PROFILE MILLING

G90RKF FACE MILL



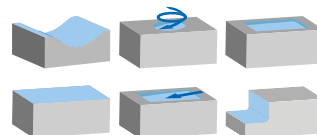
Insert P.52



RDKT 10T3..
RDKT 1204..
RDKT 1604..



RDKW 10T3..
RDKW 1204..
RDKW 1604..



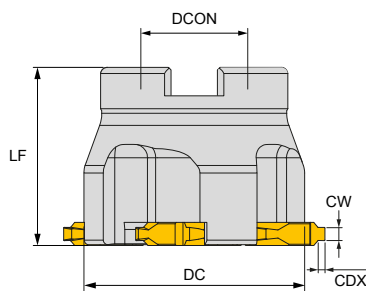
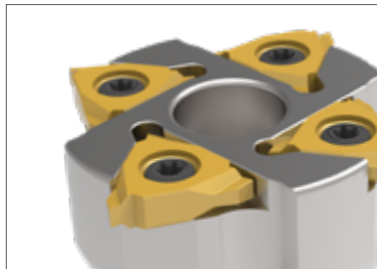
EDP Code	TOOL CODE		DC	DCON	LF	APMX	ZEFP	Insert	Screw	Clamp	Clamp Screw	Wrench
MTH0354	G90RKF.40165-10C	♦	40	16	40	5	5	RDKT10 RDKW10	TXS3511	TTAP-3	TXS3511	TXW15
MTH0165	G90RKF.50225-10C	♦	50	22	40	5	5					
MTH0306	G90RKF.63226-10C	♦	63	22	50	5	6					
MTH0166	G90RKF.40164-12C	♦	40	16	40	6	4	RDKT12 RDKW12	TXS3511	TTAP-3	TXS3511	TXW15
MTH0167	G90RKF.50225-12C	♦	50	22	50	6	5					
MTH0168	G90RKF.63226-12C	♦	63	22	50	6	6					
MTH0169	G90RKF.80277-12C	♦	80	27	50	6	7					
MTH0307	G90RKF.100328-12C	♦	100	32	50	6	8					
MTH0326	G90RKF.50224-16C	♦	50	22	50	8	4	RDKT 16 RDKW 16	TXS4511	TTAP-1	TXS4511	TXW15
MTH0327	G90RKF.63225-16C	♦	63	22	50	8	5					
MTH0328	G90RKF.80276-16C	♦	80	27	50	8	6					
MTH0329	G90RKF.100327-16C	♦	100	32	50	8	7					
MTH0330	G90RKF.125407-16C	X	125	40	63	8	7					
MTH0331	G90RKF.160408-16C	X	160	40	63	8	8					

Clamping torque
See P.81



RING GROOVE MILLING

GMF



Insert P.65



13T



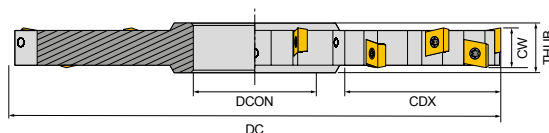
EDP Code	Description	⚙	DC	DCON	LF	ZEFP	CW	CDX	Screw	Wrench
MTH0500	GMF.40162-13	X	40	16	40	2	1.25 - 4.0	1.3 - 3.8	TXS5013	TXW20F
MTH0501	GMF.50223-13	X	50	22	40	3				
MTH0502	GMF.60224-13	X	60	22	40	4				

 Clamping torque
See P.81



SLOT MILLING

G90SMC



Insert P.63



CCGT 0602..
CCGT 09T3..
CCGT 1204..



CCMT 0602..
CCMT 09T3..
CCMT 1204..



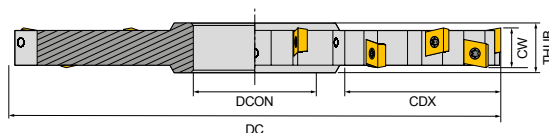
EDP Code	TOOL CODE	♦	DC	CW	CDX	DCON	THUB	ZEFP	Insert	Screw	Wrench
MTH0231	G90SMC.8082710-06	X	80	8	17	27	12	10	CCGT 06 CCMT 06	TXS2506.1	TXW08
MTH0232	G90SMC.10083212-06	X	100	8	25	32	12	12			
MTH0233	G90SMC.12584014-06	X	125	8	35	40	12	14			
MTH0234	G90SMC.16084016-06	X	160	8	52	40	12	16			
MTH0235	G90SMC.20084018-06	X	200	8	70	40	12	18			
MTH0236	G90SMC.80102710-06	X	80	10	17	27	14	10			
MTH0237	G90SMC.100103212-06	X	100	10	25	32	14	12			
MTH0238	G90SMC.125104014-06	X	125	10	35	40	14	14			
MTH0239	G90SMC.160104016-06	X	160	10	52	40	14	16			
MTH0240	G90SMC.200104018-06	X	200	10	70	40	14	18			
MTH0241	G90SMC.8012278-09	X	80	12	17	27	16	8	CCGT 09 CCMT 09	TXS3509	TXW15
MTH0242	G90SMC.100123210-09	X	100	12	25	32	16	10			
MTH0243	G90SMC.125124012-09	X	125	12	35	40	16	12			
MTH0244	G90SMC.160124014-09	X	160	12	52	40	16	14			
MTH0245	G90SMC.200124016-09	X	200	12	70	40	16	16			
MTH0246	G90SMC.8014278-09	X	80	14	17	27	18	8			
MTH0247	G90SMC.100143210-09	X	100	14	25	32	18	10			
MTH0248	G90SMC.125144012-09	X	125	14	35	40	18	12			
MTH0249	G90SMC.160144014-09	X	160	14	52	40	18	14			
MTH0250	G90SMC.200144016-09	X	200	14	70	40	18	16			

Clamping torque
See P.81



SLOT MILLING

G90SMC



Insert P.63



CCGT 0602..
CCGT 09T3..
CCGT 1204..



CCMT 0602..
CCMT 09T3..
CCMT 1204..



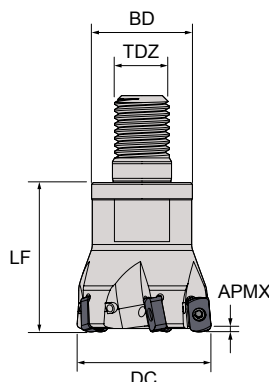
EDP Code	TOOL CODE	✱	DC	CW	CDX	DCON	THUB	ZEFP	Insert	Screw	Wrench
MTH0251	G90SMC.8016276-12	X	80	16	17	27	20	6	CCGT 12 CCMT 12	TXS5011	TXW20F
MTH0252	G90SMC.10016328-12	X	100	16	25	32	20	8			
MTH0253	G90SMC.125164010-12	X	125	16	35	40	20	10			
MTH0254	G90SMC.160164012-12	X	160	16	52	40	20	12			
MTH0255	G90SMC.200164014-12	X	200	16	70	40	20	14			
MTH0256	G90SMC.8018276-12	X	80	18	17	27	22	6			
MTH0257	G90SMC.10018328-12	X	100	18	25	32	22	8			
MTH0258	G90SMC.125184010-12	X	125	18	35	40	22	10			
MTH0259	G90SMC.160184012-12	X	160	18	52	40	22	12			
MTH0260	G90SMC.200184014-12	X	200	18	70	40	22	14			
MTH0261	G90SMC.250184016-12	X	250	18	90	40	22	16			
MTH0262	G90SMC.8020276-12	X	80	20	17	27	24	6			
MTH0263	G90SMC.10020328-12	X	100	20	25	32	24	8			
MTH0264	G90SMC.125204010-12	X	125	20	35	40	24	10			
MTH0265	G90SMC.160204012-12	X	160	20	52	40	24	12			
MTH0266	G90SMC.200204014-12	X	200	20	70	40	24	14			
MTH0267	G90SMC.250204016-12	X	250	20	90	40	24	16			

Clamping torque
See P.81



HIGH FEED MILLING

M15HM MODULAR HEAD



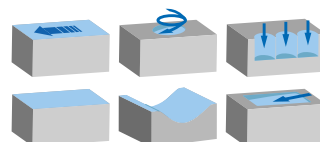
Insert P.46



ENMX 0604..



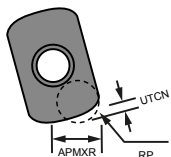
ENMX 0905..



EDP Code	TOOL CODE	⚡	DC	BD	LF	TDZ	APMX	ZEFP	Insert	Screw	Wrench
MTH0136	M15HM.16232M8-06	💧	16	13	23	M8	0.9	2	ENMX 06	TXS2507	TXW08
MTH0137	M15HM.20303M10-06	💧	20	18	30	M10	1.0	3			
MTH0138	M15HM.25354M12-06	💧	25	21	35	M12	1.0	4			
MTH0139	M15HM.32425M16-06	💧	32	29	42	M16	1.0	5			
MTH0140	M15HM.35425M16-06	💧	35	29	42	M16	1.0	5			
MTH0141	M15HM.40426M16-06	💧	40	29	42	M16	1.0	6			
MTH0142	M15HM.42426M16-06	💧	42	29	42	M16	1.0	6			

► For modular shanks refer to P.78-80

Clamping torque
See P.81

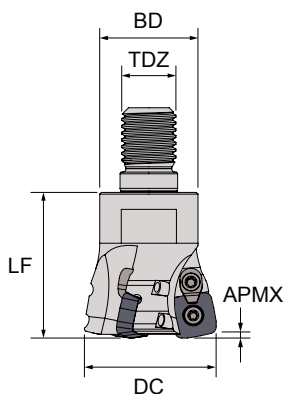


Insert	Cutting Dia. DC	Axial Max Depth APMX	Radial Max Depth APMXR	Ramping Angle Max RMPX	Programmed Corner Radius RP	Uncut Thickness UTCN
ENMX 06	16	0.9	3.5	3.5°	2.0	0.30
	20	1.0	3.7	1.8°	2.0	0.31
	25	1.0	3.7	1.2°	2.0	0.31
	32	1.0	3.7	0.8°	2.0	0.31
	35	1.0	3.7	0.6°	2.0	0.31
	40	1.0	3.7	0.6°	2.0	0.31
	42	1.0	3.7	0.5°	2.0	0.31

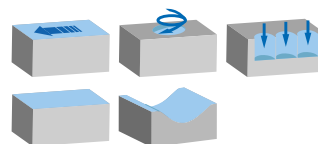


HIGH FEED MILLING

M15HM MODULAR HEAD



Insert P.47	
	SDMT 1204..
	SDMW 1204..

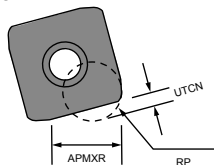


EDP Code	TOOL CODE		DC	BD	LF	TDZ	APMX	ZEFP	Insert	Screw	Clamp	Clamp Screw	Wrench
MTH0087	M15HM.35452M16-12		35	30	45	M16	1.8	2	SDMT 12	TXS4009	TTAP-3	TXS3511	TXW15
MTH0088	M15HM.40453M16-12		40	30	45	M16	1.8	3	SDMW 12				

► For modular shanks refer to P.78-80

Clamping torque
See P.81

SDMT/W



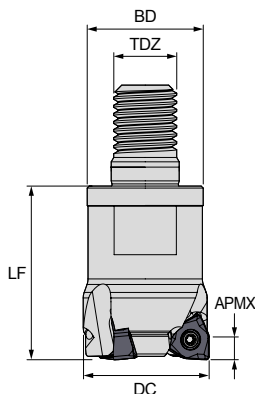
Insert	Cutting Dia. DC	Axial Max Depth APMX	Radial Max Depth APMXR	Programmed Corner Radius RP	Uncut Thickness UTCN
SDMT/W	35	1.8	8.6	3.5	0.94
	40	1.8	8.6	3.5	0.94



90° SHOULDER MILLING - NEGATIVE

M690M

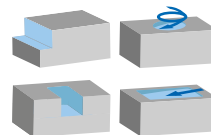
TRUE 90° MODULAR HEAD



Insert P.56



WNEX 0806..



EDP Code	TOOL CODE		DC	BD	LF	TDZ	APMX	ZEFP	Insert	Screw	Wrench
MTH0451	M690M.32422M16-08	💧	32	29	42	M16	7.0	2	WNEX 08	TXS4011.2	TXW15
MTH0452	M690M.40423M16-08	💧	40	29	42	M16	7.0	3			
MTH0453	M690M.40424M16-08	💧	40	29	42	M16	7.0	4			

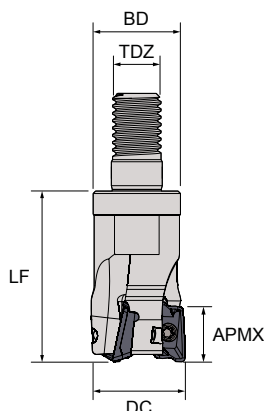
► For modular shanks refer to P.78-80

Clamping torque
See P.81



SHOULDER MILLING

G90AM MODULAR HEAD



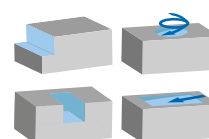
Insert P.44-45



APGT 1003..
APGT 1604..



APKT 1003..
APKT 1604..



EDP Code	TOOL CODE	◆	DC	BD	LF	TDZ	APMX	ZEFP	Insert	Screw	Wrench
MTH0428	G90AM.16232M8-10	X	16	13	23	M8	10	2	APGT 10 APKT10	TXS2506	TXW08
MTH0429	G90AM.20303M10-10	X	20	18	30	M10	10	3			
MTH0430	G90AM.25353M12-10	X	25	21	35	M12	10	3			
MTH0431	G90AM.32434M16-10	X	32	29	43	M16	10	4			
MTH0432	G90AM.40435M16-10	X	40	29	43	M16	10	5	APGT 16 APKT16	TXS4009	TXW15
MTH0433	G90AM.25352M12-16	X	25	21	35	M12	16	2			
MTH0434	G90AM.32433M16-16	X	32	29	43	M16	16	3			
MTH0455	G90AM.40434M16-16	X	40	29	43	M16	16	4			

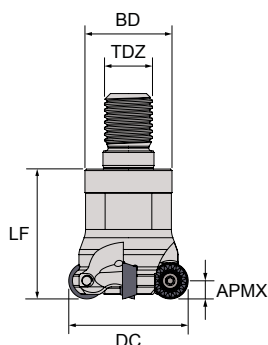
► For modular shanks refer to P.78-80

Clamping torque
See P.81



PROFILE MILLING

G90RKM MODULAR HEAD



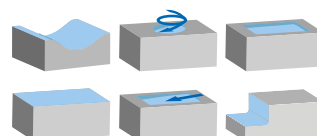
Insert P.52



RDKT 0802..
RDKT 10T3..
RDKT 1204..



RDKW 0802..
RDKW 10T3..
RDKW 1204..



EDP Code	TOOL CODE		DC	BD	LF	TDZ	APMX	ZEFP	Insert	Screw	Wrench
MTH0109	G90RKM.16232M08-08	💧	16	13	23	M8	4	2	RDKT08 RDKW08	TXS3006	TXW08
MTH0108	G90RKM.20302M10-08	💧	20	18	30	M10	4	2			
MTH0103	G90RKM.25353M12-08	💧	25	21	35	M12	4	3			
MTH0105	G90RKM.25353M12-10	💧	25	21	35	M12	5	3	RDKT10 RDKW10	TXS3509	TXW15
MTH0454	G90RKM.32454M16-10	💧	32	29	45	M16	5	4			
MTH0106	G90RKM.25352M12-12	💧	25	21	35	M12	6	2	RDKT12 RDKW12	TXS3509	TXW15
MTH0107	G90RKM.32423M16-12	💧	32	29	42	M16	6	3			

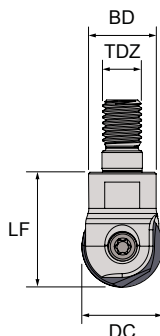
► For modular shanks refer to P.78-80

Clamping torque
See P.81



PROFILE MILLING

M200BM MODULAR HEAD



Insert P.60-61

	M200B
	M200R



EDP Code	TOOL CODE	♦	DC	BD	LF	TDZ	Insert	Screw	Wrench
MTH0418	M200BM.1020M6	X	10	9.8	20	M6	M200B10 M200R10	TXS3010	TXW08
MTH0419	M200BM.1223M6	X	12	9.8	23	M6	M200B12 M200R12	TXS3512	TXW10
MTH0420	M200BM.1630M8	X	16	13	30	M8	M200B16 M200R16	TXS4016	TXW15
MTH0421	M200BM.2030M10	X	20	18	30	M10	M200B20 M200R20	TXS5020	TXW20
MTH0422	M200BM.2535M12	X	25	21	35	M12	M200B25 M200R25	TXS6025	TXW25
MTH0423	M200BM.3043M16	X	30, 32	29	43	M16	M200B30/32 M200R30/32	TXS8030	TXW30

- For modular shanks refer to P.78-80
- For assembly instructions see P.62

Clamping torque
See P.81



INSERT CODE GUIDE

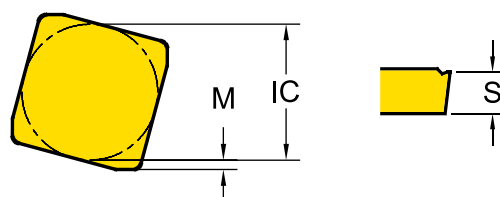
1	2	3	4	5	6	7
A	P	K	T	16	04	08
Shape	Relief Angle (AN)	Tolerance	Clamping & Chipbreaker	Insert Size	Insert Thickness (S)	Corner Radius

1 - Shape

Symbol	Shape	
H	Hexagonal	
O	Octagonal	
P	Pentagonal	
S	Square	
T	Triangular	
V	Rhombic 35°	
W	Trigon	
L	Rectangular	
A	Parallelogram 80°	
R	Round	

2 - Relief Angle (AN)

Symbol	Relief Angle (AN)	
N	No Relief Angle	
C	Relief 7°	
P	Relief 11°	
D	Relief 15°	
E	Relief 20°	
F	Relief 25°	
O	Special	



3 - Tolerance Class

Symbol	Inner Circle IC (mm)	Nose Height M (mm)	Thickness S (mm)
E	±0.025	±0.025	±0.025
G	±0.025	±0.025	±0.13
K	±0.05~0.15	±0.013	±0.025
M	±0.05~0.15	±0.08~0.2	±0.13
U	±0.08~0.25	±0.13~0.38	±0.13

4 - Clamping & Chipbreaker

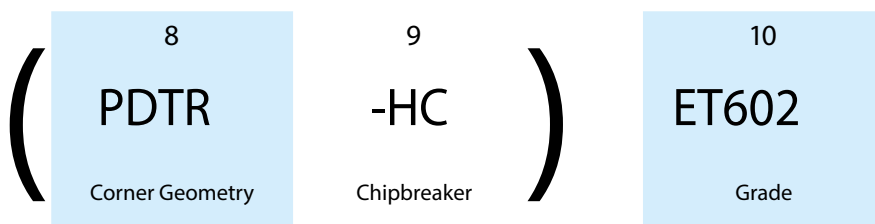
Symbol	Clamping	Chipbreaker	Figure
N	No clamping hole	X	
R		One Face	
W	Screw Hole	X	
T		One Face	
U		Both Faces	
X		Special	

5 - Insert Size

* No Standard for milling insert size

6 - Insert Thickness

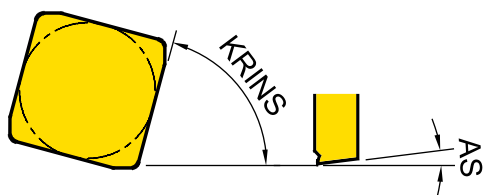
* No Standard for milling insert thickness



7 - Corner Radius (RE)

Symbol	Corner Radius - RE (mm)	Symbol	Corner Radius - RE (mm)
04	0.4	16	1.6
08	0.8	20	2.0
12	1.2	24	2.4

8 - Corner Geometry



8-1	8-2	8-3	8-4
P	D	T	R
Cutting Edge Angle (KRINS)	Wiper Edge Clearance (AS)	Edge Condition	Feed Direction

8-1 - Cutting Edge Angle (KRINS)

Symbol	Cutting Edge Angle (KRINS)
P	90°
A	45°
D	60°
E	75°
F	85°
Z	Special

8-3 - Edge Condition

Symbol	Edge Condition
F	Sharp 
E	Rounded 
T	Chamfered 
S	Chamfered and Rounded 

8-2 - Wiper Edge Clearance (AS)

Symbol	Wiper Edge Clearance (AS)
N	0°
P	11°
D	15°
E	20°
F	25°
Z	Special

8-4 - Feed Direction

Symbol	Feed Direction
R	Right-hand Insert 
N	Neutral Insert 
L	Left-hand Insert 



INSERT GRADE GUIDE

	P20 - P35 M20 - M30 K20 - K30 S15 - S25 H20 - H30	ET602 Ultra dense PVD coating with optimal thermal resistance, suitable for most materials. PVD TiAlN		N05 - N20 Uncoated	ET20U Sub-micron grade for aluminium. Polished face to prevent BUE
	P20 - P40 M20 - M40 K20 - K35 S20 - S40	ET612 Multi-nano coated grade for stable tool life. First choice for HRSA materials. PVD TiAlN		N05 - N35 PVD CrN	ET20P Optimised grade for aluminium with unique CrN based coating.
	P20 - P40 K20 - K40	ET62P Hard coating for tough applications with excellent wear and oxidation resistance. PVD AlCrN		P15 - P35 K20 - K40	GM310 For M200 square and ball inserts, optimised grade for mould & die applications. PVD TiAlN
	P30 - P50 M20 - M40 S20 - S30	ET63P First choice for stainless steel materials. PVD coating optimised for milling applications PVD TiAlN		P10 - P25 K10 - K25	GM320 For M200 high feed and full radius inserts, optimised grade for high speeds. PVD TiAlN
	P10 - P15 H20 - H30	ET73P Optimised grade for hardened steels. PVD coating optimised for milling applications PVD TiAlN		P10 - P35 K20 - K40 H15 - H35	GM430 For general steels, cast iron and hardened materials, developed for exchangeable head end mills PVD TiAlN
	P10 - P30 H10 - H30	ET912 Optimised grade for pre-hardened and hardened steels. PVD TiSiN		P25 - P40 H20 - H40	HM420 For M200 square and ball inserts, optimised grade for tough applications. PVD AlCrN
	K01 - K30	ET52C Especially developed for high speed and high performance machining of cast iron. CVD TiCN - Al₂O₃		M20 - M35	SS330 For M200 ball inserts, optimised grade for stainless steel mould & die applications. PVD TiAlN

INSERT GRADE GUIDE

		P	STEEL				M	STAINLESS STEEL				K	CAST IRON			
			05	15	25	35		05	15	25	35		05	15	25	35
PVD	ET602				602					602					602	
	ET612				612					612					612	
	ET62P				62P										62P	
	ET63P					63P				63P						
	ET73P			73P												
	ET912				912											
	ET20P													52C		
	GM310				310										310	
	GM320				320									320		
	GM430				430										430	
	HM420					420										
	SS330									330						
CVD	ET52C															
-	ET20U															
			HARDER ← → TOUGHER					HARDER ← → TOUGHER					HARDER ← → TOUGHER			
		N	NON-FERROUS				S	HRSA				H	Hardened steel			
			05	15	25	35		05	15	25	35		05	15	25	35
PVD	ET602									602					602	
	ET612									612						
	ET62P															
	ET63P									63P						
	ET73P													73P		
	ET912													912		
	ET20P				20P											
	GM310															
	GM320															
	GM430													430		
	HM420													420		
	SS330															
CVD	ET52C															
-	ET20U				20U											
			HARDER ← → TOUGHER					HARDER ← → TOUGHER					HARDER ← → TOUGHER			

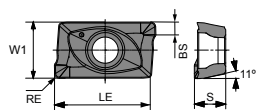
INSERT EDGE PREPARATION GUIDE

P	M	K	N	S	H	Edge Preparation Guide		
•	•	•	•	•	•		Standard Edge Preparation	General machining, first choice
			•	•	•		AL	Very sharp geometry for Aluminium
	•		•	•	•		MS	Sharp geometry for Stainless Steel and HRSA
•		•	•	•	•		HC	Reinforced geometry for Hardened steels
•		•	•	•	•		...W/...N	Flat insert for Hardened Material and Cast Iron



APGT SHOULDER MILLING

▶ EDP Code MI..... Example: APTG 100305-AL ET20U = MI00260



INSERT	LE	W1	S
APGT 1003	9.9	6.7	3.6
APGT 1604	15.2	9.4	5.3

P		●	●	●	○	●	○		
M		○	●	●	●				
K	●	●	●	●					
N								●	●
S		○	●		●				
H		○		○		○	●		

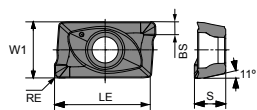
APGT	DESIGNATION	RE (mm)	BS (mm)	f _z (mm/tooth)	ET52C	ET602	ET612	ET62P	ET63P	ET73P	ET912	ET20P	ET20U
	AL APTG 100305-AL	0.5	1.4	0.05 - 0.25									● 00260
	APTG 160408-AL	0.8	1.7	0.05 - 0.25									● 00261
	APTG 160430-AL	3.0	2.0	0.05 - 0.25									● 00262

ISO	P			M		K		N	S	H
MATERIAL	Non-alloy steel <25 HRC	Low alloy steel 25-35 HRC	High alloy steel, Tool steel 35-45 HRC	Ferritic / Martensitic Stainless steel	Austenitic Stainless steel	Grey Cast iron	Nodular Cast iron	Aluminium & Non-ferrous ma- terial	Heat Resistant and Super Alloys	Hardened steel <55 HRC
VDI GROUP	1-5	6-9	10-11	12-13	14	15-16	17-20	21-30	31-37	38-41
V _c (m/min)	ET52C	-	-	-	-	200 - 350	100 - 300	-	-	-
	ET602	140 - 380	120 - 300	70 - 150	80 - 180	100 - 200	120 - 250	130 - 220	20 - 40	40 - 80
	ET612	180 - 280	150 - 250	70 - 140	120 - 200	130 - 250	120 - 270	130 - 240	25 - 45	-
	ET62P	140 - 400	120 - 320	70 - 170	-	-	120 - 270	130 - 240	-	40 - 80
	ET63P	100 - 210	70 - 180	40 - 90	70 - 180	70 - 200	-	-	20 - 40	-
	ET73P	-	-	70 - 170	-	-	-	-	-	40-100
	ET912	-	-	80 - 160	-	-	-	-	-	70 - 120
	ET20P	-	-	-	-	-	-	300 - 800	-	-
	ET20U	-	-	-	-	-	-	300 - 800	-	-



APKT SHOULDER MILLING

▶ EDP Code MI..... Example: APKT 100305PDTR ET602 = MI00002



INSERT	LE	W1	S
APKT 1003	9.9	6.7	3.6
APKT 1604	15.2	9.4	5.3

P		●	●	●	○	●	○		
M		○			●				
K	●	●	●	●					
N								●	●
S		○	●		●				
H		○		○		○	●		

APKT	DESIGNATION	RE (mm)	BS (mm)	f _z (mm/tooth)	ET52C	ET602	ET612	ET62P	ET63P	ET73P	ET912	ET20P	ET20U
	APKT 100305PDTR	0.5	0.86	0.15 - 0.24		00002	00306	00145	00146	00131	00218		
	APKT 100308PDTR	0.8	0.90	0.15 - 0.24		00003	00307	00147	00127	00132	00219		
	APKT 100316PDTR	1.6	1.11	0.15 - 0.24		00148	00310		00150				
	APKT 160404PDTR	0.4	1.11	0.15 - 0.25		00061	00312		00202	00133			
	APKT 160408PDTR	0.8	1.32	0.15 - 0.30		00004	00315	00203	00126	00134	00220		
	APKT 160412PDTR	1.2	1.13	0.15 - 0.32		00062	00318			00136			
	APKT 160416PDTR	1.6	1.13	0.15 - 0.34		00005	00330			00137			
	APKT 160424PDTR	2.4	1.50	0.15 - 0.38		00064	00321			00138			
	APKT 160432PDTR	3.2	1.50	0.15 - 0.38		00176	00322				00221		
	APKT 160404-HC	0.4	1.11	0.26 - 0.40		00110	00311	00117					
	APKT 160408-HC	0.8	1.32	0.26 - 0.40		00069	00314	00118		00135	00222		
	APKT 160412-HC	1.2	1.13	0.26 - 0.40		00111	00317	00119			00316		
	APKT 160416-HC	1.6	1.13	0.26 - 0.40		00112	00319	00154			00223		
	APKT 160424-HC	2.4	1.50	0.26 - 0.40		00113	00320	00114			00224		
	APKT 100305-MS	0.5	0.86	0.08 - 0.22		00067	00305		00121				
	APKT 100312-MS	1.2	1.00	0.08 - 0.24			00308		00198				
	APKT 100316-MS	1.6	1.11	0.08 - 0.24			00309		00199				
	APKT 160408-MS	0.8	1.32	0.08 - 0.25		00068	00313		00122				
	APKT 100305-AL	0.5	0.86	0.07 - 0.50								00065	
	APKT 160408-AL	0.8	1.32	0.07 - 0.55								00066	

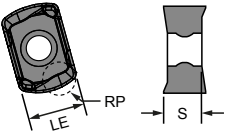
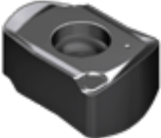
■ = Available while stocks last

ISO		P			M		K		N	S	H
MATERIAL		Non-alloy steel <25 HRC	Low alloy steel 25-35 HRC	High alloy steel, Tool steel 35-45 HRC	Ferritic / Martensitic Stainless steel	Austenitic Stainless steel	Grey Cast iron	Nodular Cast iron	Aluminium & Non-ferrous ma- terial	Heat Resistant and Super Alloys	Hardened steel <55 HRC
VDI GROUP		1-5	6-9	10-11	12-13	14	15-16	17-20	21-30	31-37	38-41
V _c (m/min)	ET52C	-	-	-	-	-	200 - 350	100 - 300	-	-	-
	ET602	140 - 380	120 - 300	70 - 150	80 - 180	100 - 200	120 - 250	130 - 220	-	20 - 40	40 - 80
	ET612	180 - 280	150 - 250	70 - 140	120 - 200	130 - 250	120 - 270	130 - 240	-	25 - 45	-
	ET62P	140 - 400	120 - 320	70 - 170	-	-	120 - 270	130 - 240	-	-	40 - 80
	ET63P	100 - 210	70 - 180	40 - 90	70 - 180	70 - 200	-	-	-	20 - 40	-
	ET73P	-	-	70 - 170	-	-	-	-	-	-	40-100
	ET912	-	-	80 - 160	-	-	-	-	-	-	70 - 120
	ET20P	-	-	-	-	-	-	-	300 - 800	-	-
	ET20U	-	-	-	-	-	-	-	300 - 800	-	-



ENMX HIGH FEED

► EDP Code MI..... Example: ENMX 0604 ET602 = MI00116

		<table><tr><th>INSERT</th><th>IC</th><th>S</th></tr><tr><td>ENMX 0604</td><td>6.0</td><td>4.21</td></tr><tr><td>ENMX 0905</td><td>9.0</td><td>5.40</td></tr></table>	INSERT	IC	S	ENMX 0604	6.0	4.21	ENMX 0905	9.0	5.40	<table><tr><td>P</td><td></td><td>●</td><td>●</td><td>●</td><td>○</td><td>●</td><td>○</td><td></td><td></td><td></td><td></td></tr><tr><td>M</td><td></td><td>○</td><td></td><td></td><td>●</td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>K</td><td>●</td><td>●</td><td>●</td><td>●</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>N</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>●</td><td>●</td></tr><tr><td>S</td><td></td><td>○</td><td>●</td><td></td><td>●</td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>H</td><td></td><td>○</td><td></td><td>○</td><td></td><td>○</td><td>●</td><td></td><td></td><td></td><td></td></tr></table>												P		●	●	●	○	●	○					M		○			●							K	●	●	●	●								N										●	●	S		○	●		●							H		○		○		○	●				
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ENMX 0604	6.0	4.21																																																																																													
ENMX 0905	9.0	5.40																																																																																													
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ENMX	DESIGNATION	RP (mm)	BS (mm)	f _z (mm/tooth)	ET52C	ET602	ET612	ET62P	ET63P	ET73P	ET912	ET20P	ET20U																																																																																		
	ENMX 0604	2.0	-	0.30 - 2.00		■ 00116	● 00324	● 00155	● 00125		● 00225																																																																																				
	ENMX 0905	2.5	-	0.30 - 2.50		■ 00171	● 00326	● 00179	● 00174		● 00226																																																																																				
	ENMX 0604-HC	2.0	-	0.30 - 2.50		■ 00115	● 00323	● 00156		● 00139	● 00227																																																																																				
	ENMX 0905-HC	2.5	-	0.30 - 3.00		■ 00173	● 00325	● 00177		● 00178	● 00228																																																																																				
	ENMX 0604-MS	2.0	-	0.10 - 0.80		■ 00129	● 00370		● 00130																																																																																						
	ENMX 0905-MS	2.5	-	0.20 - 1.20		■ 00172	● 00371		● 00175																																																																																						

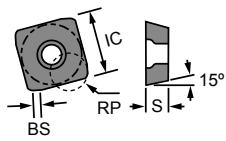
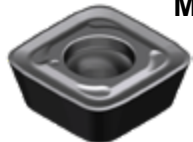
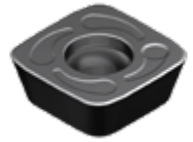
■ = Available while stocks last

ISO		P			M		K		N	S	H
MATERIAL		Non-alloy steel <25 HRC	Low alloy steel 25-35 HRC	High alloy steel, Tool steel 35-45 HRC	Ferritic / Martensitic Stainless steel	Austenitic Stainless steel	Grey Cast iron	Nodular Cast iron	Aluminium & Non-ferrous ma- terial	Heat Resistant and Super Alloys	Hardened steel <55 HRC
VDI GROUP		1-5	6-9	10-11	12-13	14	15-16	17-20	21-30	31-37	38-41
V _c (m/min)	ET52C	-	-	-	-	-	200 - 350	100 - 300	-	-	-
	ET602	140 - 380	120 - 300	70 - 150	80 - 180	100 - 200	120 - 250	130 - 220	-	20 - 40	40 - 80
	ET612	180 - 280	150 - 250	70 - 140	120 - 200	130 - 250	120 - 270	130 - 240	-	25 - 45	-
	ET62P	140 - 400	120 - 320	70 - 170	-	-	120 - 270	130 - 240	-	-	40 - 80
	ET63P	100 - 210	70 - 180	40 - 90	70 - 180	70 - 200	-	-	-	20 - 40	-
	ET73P	-	-	70 - 170	-	-	-	-	-	-	40-100
	ET912	-	-	80 - 160	-	-	-	-	-	-	70 - 120
	ET20P	-	-	-	-	-	-	-	300 - 800	-	-
	ET20U	-	-	-	-	-	-	-	300 - 800	-	-



SDMT/SDMW HIGH FEED

▶ EDP Code MI..... Example: SDMT 120420-MS ET602 = MI00070

					<table><tr><td>INSERT</td><td>IC</td><td>S</td></tr><tr><td>SDM- 1204</td><td>12.7</td><td>4.76</td></tr></table>		INSERT	IC	S	SDM- 1204	12.7	4.76	<table><tr><td>P</td><td></td><td>●</td><td>●</td><td>●</td><td>○</td><td>●</td><td>○</td><td></td><td></td></tr><tr><td>M</td><td></td><td>○</td><td>●</td><td>●</td><td>●</td><td>○</td><td></td><td></td><td></td></tr><tr><td>K</td><td>●</td><td>●</td><td>●</td><td>●</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>N</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>●</td><td>●</td></tr><tr><td>S</td><td></td><td>○</td><td>●</td><td></td><td>●</td><td></td><td></td><td></td><td></td></tr><tr><td>H</td><td></td><td>○</td><td></td><td>○</td><td></td><td>○</td><td>●</td><td></td><td></td></tr></table>										P		●	●	●	○	●	○			M		○	●	●	●	○				K	●	●	●	●						N								●	●	S		○	●		●					H		○		○		○	●		
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SDM- 1204	12.7	4.76																																																																																
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SDMT SDMW		DESIGNATION	RP (mm)	BS (mm)	f _z (mm/tooth)	ET52C	ET602	ET612	ET62P	ET63P	ET73P	ET912	ET20P	ET20U																																																																				
 MS	SDMT 120420-MS	3.5	1.45	0.60 - 1.20		■ 00070	● 00357		● 00160																																																																									
	SDMW 120420	3.5	1.4	0.60 - 1.40		■ 00071	● 00358	● 00102	● 00161	● 00162																																																																								

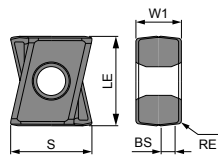
■ = Available while stocks last

ISO		P			M		K		N	S	H
MATERIAL		Non-alloy steel <25 HRC	Low alloy steel 25-35 HRC	High alloy steel, Tool steel 35-45 HRC	Ferritic / Martensitic Stainless steel	Austenitic Stainless steel	Grey Cast iron	Nodular Cast iron	Aluminium & Non-ferrous ma- terial	Heat Resistant and Super Alloys	Hardened steel <55 HRC
VDI GROUP		1-5	6-9	10-11	12-13	14	15-16	17-20	21-30	31-37	38-41
V _c (m/min)	ET52C	-	-	-	-	-	200 - 350	100 - 300	-	-	-
	ET602	140 - 380	120 - 300	70 - 150	80 - 180	100 - 200	120 - 250	130 - 220	-	20 - 40	40 - 80
	ET612	180 - 280	150 - 250	70 - 140	120 - 200	130 - 250	120 - 270	130 - 240	-	25 - 45	-
	ET62P	140 - 400	120 - 320	70 - 170	-	-	120 - 270	130 - 240	-	-	40 - 80
	ET63P	100 - 210	70 - 180	40 - 90	70 - 180	70 - 200	-	-	-	20 - 40	-
	ET73P	-	-	70 - 170	-	-	-	-	-	-	40-100
	ET912	-	-	80 - 160	-	-	-	-	-	-	70 - 120
	ET20P	-	-	-	-	-	-	-	300 - 800	-	-
	ET20U	-	-	-	-	-	-	-	300 - 800	-	-



LNKU/LNHU 90° TANGENTIAL

► EDP Code MI..... Example: LNKU 130608R ET52C = MI00193



INSERT	LE	W1	S
LNKU 1306	13.2	6.7	12.1
LNHU 1306	13.2	6.7	12.1

P		●	●	●	○	●	○		
M		○	●	●	●				
K	●	●	●	●					
N								●	●
S		○	●		●				
H		○		○		○	●		

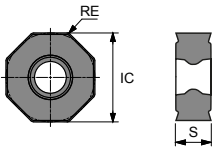
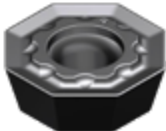
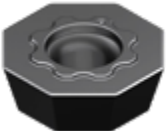
LNKU LNHU	DESIGNATION	RE (mm)	BS (mm)	f _z (mm/tooth)	ET52C	ET602	ET612	ET62P	ET63P	ET73P	ET912	ET20P	ET20U
	LNKU 130608R	0.8	2.09	0.05 - 0.30	● 00193		● 00191		● 00192				
	LNKU 130612R	1.2	1.73	0.05 - 0.30	● 00206		● 00204		● 00205				
	LNHU 130608R	0.8	1.73	0.05 - 0.30	● 00196		● 00194		● 00195				

ISO	P			M		K		N	S	H
MATERIAL	Non-alloy steel <25 HRC	Low alloy steel 25-35 HRC	High alloy steel, Tool steel 35-45 HRC	Ferritic / Martensitic Stainless steel	Austenitic Stainless steel	Grey Cast iron	Nodular Cast iron	Aluminium & Non-ferrous ma- terial	Heat Resistant and Super Alloys	Hardened steel <55 HRC
VDI GROUP	1-5	6-9	10-11	12-13	14	15-16	17-20	21-30	31-37	38-41
V _c (m/min)	ET52C	-	-	-	-	200 - 350	100 - 300	-	-	-
	ET602	140 - 380	120 - 300	70 - 150	80 - 180	100 - 200	120 - 250	130 - 220	20 - 40	40 - 80
	ET612	180 - 280	150 - 250	70 - 140	120 - 200	130 - 250	120 - 270	130 - 240	25 - 45	-
	ET62P	140 - 400	120 - 320	70 - 170	-	-	120 - 270	130 - 240	-	40 - 80
	ET63P	100 - 210	70 - 180	40 - 90	70 - 180	70 - 200	-	-	20 - 40	-
	ET73P	-	-	70 - 170	-	-	-	-	-	40-100
	ET912	-	-	80 - 160	-	-	-	-	-	70 - 120
	ET20P	-	-	-	-	-	-	300 - 800	-	-
	ET20U	-	-	-	-	-	-	300 - 800	-	-



ODMT/ODMW 43° POSITIVE

▶ EDP Code MI..... Example: ODMT 060508 ET602 = MI00018

	<table><tr><th>INSERT</th><th>IC</th><th>S</th></tr><tr><td>ODM- 0605</td><td>15.9</td><td>5.6</td></tr></table>	INSERT	IC	S	ODM- 0605	15.9	5.6	<table><tr><td>P</td><td></td><td>●</td><td>●</td><td>●</td><td>○</td><td>●</td><td>○</td><td></td><td></td></tr><tr><td>M</td><td></td><td>○</td><td>●</td><td>●</td><td>●</td><td></td><td></td><td></td><td></td></tr><tr><td>K</td><td>●</td><td>●</td><td>●</td><td>●</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>N</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>●</td><td>●</td></tr><tr><td>S</td><td></td><td>○</td><td>●</td><td></td><td>●</td><td></td><td></td><td></td><td></td></tr><tr><td>H</td><td></td><td>○</td><td></td><td>○</td><td></td><td>○</td><td>●</td><td></td><td></td></tr></table>										P		●	●	●	○	●	○			M		○	●	●	●					K	●	●	●	●						N								●	●	S		○	●		●					H		○		○		○	●		
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ODM- 0605	15.9	5.6																																																																											
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ODMT ODMW	DESIGNATION	RE (mm)	BS (mm)	f _z (mm/tooth)	ET52C	ET602	ET612	ET62P	ET63P	ET73P	ET912	ET20P	ET20U																																																																
	ODMT 060508	0.8	-	0.21 - 0.35		■ 00018	● 00334		● 00197																																																																				
	ODMW 060508	0.8	-	0.26 - 0.40		■ 00019	● 00335																																																																						

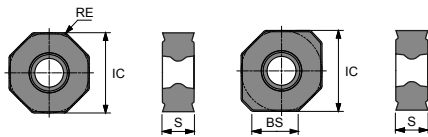
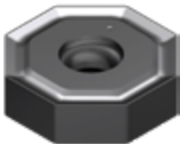
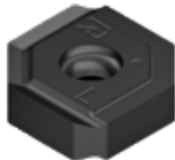
■ = Available while stocks last

ISO		P			M		K		N	S	H
MATERIAL		Non-alloy steel <25 HRC	Low alloy steel 25-35 HRC	High alloy steel, Tool steel 35-45 HRC	Ferritic / Martensitic Stainless steel	Austenitic Stainless steel	Grey Cast iron	Nodular Cast iron	Aluminium & Non-ferrous ma- terial	Heat Resistant and Super Alloys	Hardened steel <55 HRC
VDI GROUP		1-5	6-9	10-11	12-13	14	15-16	17-20	21-30	31-37	38-41
V _c (m/min)	ET52C	-	-	-	-	-	200 - 350	100 - 300	-	-	-
	ET602	140 - 380	120 - 300	70 - 150	80 - 180	100 - 200	120 - 250	130 - 220	-	20 - 40	40 - 80
	ET612	180 - 280	150 - 250	70 - 140	120 - 200	130 - 250	120 - 270	130 - 240	-	25 - 45	-
	ET62P	140 - 400	120 - 320	70 - 170	-	-	120 - 270	130 - 240	-	-	40 - 80
	ET63P	100 - 210	70 - 180	40 - 90	70 - 180	70 - 200	-	-	-	20 - 40	-
	ET73P	-	-	70 - 170	-	-	-	-	-	-	40-100
	ET912	-	-	80 - 160	-	-	-	-	-	-	70 - 120
	ET20P	-	-	-	-	-	-	-	300 - 800	-	-
	ET20U	-	-	-	-	-	-	-	300 - 800	-	-



ONMU/ONHU 16 EDGE

▶ EDP Code MI..... Example: ONMU 080608 ET52C = MI00107

					<table><tr><th>INSERT</th><th>IC</th><th>S</th></tr><tr><td>ONMU 0806</td><td>20.2</td><td>5.8</td></tr><tr><td>ONHU 0806</td><td>20.2</td><td>5.8</td></tr></table>			INSERT	IC	S	ONMU 0806	20.2	5.8	ONHU 0806	20.2	5.8	<table><tr><th>P</th><td></td><td>●</td><td></td><td>●</td><td></td><td>○</td><td></td><td>●</td><td></td><td>○</td><td></td><td></td><td></td><td></td></tr><tr><th>M</th><td></td><td>○</td><td></td><td>●</td><td></td><td>○</td><td></td><td>●</td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><th>K</th><td>●</td><td>●</td><td>●</td><td>●</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><th>N</th><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>●</td><td>●</td><td></td></tr><tr><th>S</th><td></td><td>○</td><td>●</td><td></td><td></td><td>●</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><th>H</th><td></td><td>○</td><td></td><td>○</td><td></td><td>○</td><td></td><td>○</td><td>●</td><td></td><td></td><td></td><td></td><td></td></tr></table>												P		●		●		○		●		○					M		○		●		○		●							K	●	●	●	●											N												●	●		S		○	●			●									H		○		○		○		○	●					
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ONMU ONHU		DESIGNATION	RE (mm)	BS (mm)	f _z (mm/tooth)	ET52C	ET602	ET612	ET62P	ET63P	ET73P	ET912	ET20P	ET20U																																																																																																								
	ONMU 080608	0.8	-	0.22 - 0.50	● 00107	■ 00023	● 00336	● 00180	● 00157	● 00140																																																																																																												
	ONMU 080612	1.2	-	0.22 - 0.50	● 00163	■ 00209	● 00337	● 00210	● 00128	● 00211																																																																																																												
	ONMU 080620	2.0	-	0.22 - 0.50	● 00181																																																																																																																	
	ONHU 080612	-	10.6	0.22 - 0.50	● 00108																																																																																																																	

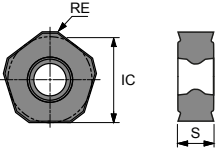
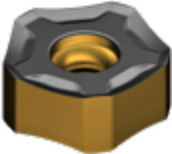
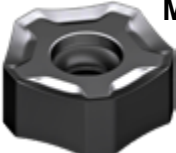
■ = Available while stocks last

ISO		P			M		K		N	S	H
MATERIAL		Non-alloy steel <25 HRC	Low alloy steel 25-35 HRC	High alloy steel, Tool steel 35-45 HRC	Ferritic / Martensitic Stainless steel	Austenitic Stainless steel	Grey Cast iron	Nodular Cast iron	Aluminium & Non-ferrous ma- terial	Heat Resistant and Super Alloys	Hardened steel <55 HRC
VDI GROUP		1-5	6-9	10-11	12-13	14	15-16	17-20	21-30	31-37	38-41
V _c (m/min)	ET52C	-	-	-	-	-	200 - 350	100 - 300	-	-	-
	ET602	140 - 380	120 - 300	70 - 150	80 - 180	100 - 200	120 - 250	130 - 220	-	20 - 40	40 - 80
	ET612	180 - 280	150 - 250	70 - 140	120 - 200	130 - 250	120 - 270	130 - 240	-	25 - 45	-
	ET62P	140 - 400	120 - 320	70 - 170	-	-	120 - 270	130 - 240	-	-	40 - 80
	ET63P	100 - 210	70 - 180	40 - 90	70 - 180	70 - 200	-	-	-	20 - 40	-
	ET73P	-	-	70 - 170	-	-	-	-	-	-	40-100
	ET912	-	-	80 - 160	-	-	-	-	-	-	70 - 120
	ET20P	-	-	-	-	-	-	-	300 - 800	-	-
	ET20U	-	-	-	-	-	-	-	300 - 800	-	-



PNMU 10 EDGE

▶ EDP Code MI..... Example: PNMU 106ZNN ET52C = MI00167

		<table><tr><th>INSERT</th><th>IC</th><th>S</th></tr><tr><td>PNMU 1206</td><td>14.0</td><td>5.84</td></tr></table>	INSERT	IC	S	PNMU 1206	14.0	5.84	<table><tr><td>P</td><td></td><td>●</td><td>●</td><td>●</td><td>○</td><td>●</td><td>○</td><td></td><td></td></tr><tr><td>M</td><td></td><td>○</td><td>●</td><td>●</td><td>○</td><td></td><td></td><td></td><td></td></tr><tr><td>K</td><td>●</td><td>●</td><td>●</td><td>●</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>N</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>●</td><td>●</td></tr><tr><td>S</td><td></td><td>○</td><td>●</td><td></td><td>●</td><td></td><td></td><td></td><td></td></tr><tr><td>H</td><td></td><td>○</td><td></td><td>○</td><td></td><td>○</td><td>●</td><td></td><td></td></tr></table>										P		●	●	●	○	●	○			M		○	●	●	○					K	●	●	●	●						N								●	●	S		○	●		●					H		○		○		○	●		
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PNMU	DESIGNATION	RE (mm)	BS (mm)	f _z (mm/tooth)	ET52C	ET602	ET612	ET62P	ET63P	ET73P	ET912	ET20P	ET20U																																																																	
	PNMU 1206ZNN	0.8	2.1	0.05 - 0.50	● 00167	■ 00168	● 00263		● 00170	● 00169	● 00229																																																																			
	PNMU 1206-MS	0.8	2.1	0.05 - 0.40		■ 00182	● 00338		● 00183																																																																					

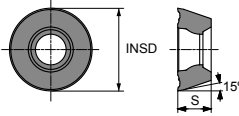
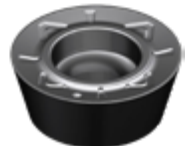
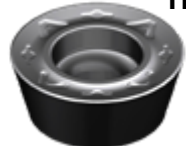
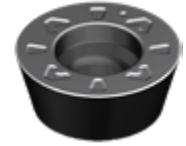
■ = Available while stocks last

ISO		P			M		K		N	S	H
MATERIAL		Non-alloy steel <25 HRC	Low alloy steel 25-35 HRC	High alloy steel, Tool steel 35-45 HRC	Ferritic / Martensitic Stainless steel	Austenitic Stainless steel	Grey Cast iron	Nodular Cast iron	Aluminium & Non-ferrous ma- terial	Heat Resistant and Super Alloys	Hardened steel <55 HRC
VDI GROUP		1-5	6-9	10-11	12-13	14	15-16	17-20	21-30	31-37	38-41
V _c (m/min)	ET52C	-	-	-	-	-	200 - 350	100 - 300	-	-	-
	ET602	140 - 380	120 - 300	70 - 150	80 - 180	100 - 200	120 - 250	130 - 220	-	20 - 40	40 - 80
	ET612	180 - 280	150 - 250	70 - 140	120 - 200	130 - 250	120 - 270	130 - 240	-	25 - 45	-
	ET62P	140 - 400	120 - 320	70 - 170	-	-	120 - 270	130 - 240	-	-	40 - 80
	ET63P	100 - 210	70 - 180	40 - 90	70 - 180	70 - 200	-	-	-	20 - 40	-
	ET73P	-	-	70 - 170	-	-	-	-	-	-	40-100
	ET912	-	-	80 - 160	-	-	-	-	-	-	70 - 120
	ET20P	-	-	-	-	-	-	-	300 - 800	-	-
	ET20U	-	-	-	-	-	-	-	300 - 800	-	-



RDKT/RDKW PROFILE MILLING

▶ EDP Code MI..... Example: RDKT 0802MO ET602 = MI00084

	INSERT	INSD	S		P		●	●	●	○	●	○		
	RDK- 0802	8.0	2.38		M		○	●		○				
	RDK- 10T3	10.0	3.97		K	●	●	●	●					
	RDK- 1204	12.0	4.76		N								●	●
	RDK- 1604	16.0	4.76		S		○	●		●				
					H		○		○		○	●		
RDKT RDKW	DESIGNATION	RE (mm)	BS (mm)	f _z (mm/tooth)	ET52C	ET602	ET612	ET62P	ET63P	ET73P	ET912	ET20P	ET20U	
	RDKT 0802MO	-	-	0.15 - 0.25		■ 00084	● 00341							
	RDKT 10T3MO	-	-	0.15 - 0.28		■ 00088	● 00344			● 00141				
	RDKT 1204MO	-	-	0.20 - 0.30		■ 00092	● 00347		● 00184	● 00142				
	RDKT 1604MO	-	-	0.20 - 0.35		■ 00166	● 00348							
	RDKT 0802MO-HC	-	-	0.18 - 0.35		■ 00083	● 00340	● 00085			● 00230			
	RDKT 10T3MO-HC	-	-	0.22 - 0.40		■ 00087	● 00343	● 00089			● 00231			
	RDKT 1204MO-HC	-	-	0.22 - 0.40		■ 00091	● 00346	● 00093		● 00143	● 00232			
	RDKT 0802MO-MS	-	-	0.08 - 0.25		■ 00082	● 00339							
	RDKT 10T3MO-MS	-	-	0.08 - 0.28		■ 00086	● 00342		● 00123					
	RDKT 1204MO-MS	-	-	0.10 - 0.30		■ 00090	● 00345		● 00124					
	RDKW 0802MO	-	-	0.13 - 0.25		■ 00096	● 00349	● 00185			● 00327			
	RDKW 10T3MO	-	-	0.16 - 0.30		■ 00097	● 00350	● 00186			● 00328			
	RDKW 1204MO	-	-	0.16 - 0.35		■ 00098	● 00351	● 00187						
	RDKW 1604MO	-	-	0.16 - 0.40		■ 00213	● 00352				● 00233			

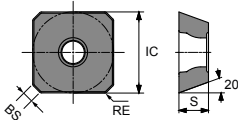
■ = Available while stocks last

ISO		P			M		K		N	S	H
MATERIAL		Non-alloy steel <25 HRC	Low alloy steel 25-35 HRC	High alloy steel, Tool steel 35-45 HRC	Ferritic / Martensitic Stainless steel	Austenitic Stainless steel	Grey Cast iron	Nodular Cast iron	Aluminium & Non-ferrous ma- terial	Heat Resistant and Super Alloys	Hardened steel <55 HRC
VDI GROUP		1-5	6-9	10-11	12-13	14	15-16	17-20	21-30	31-37	38-41
Vc (m/min)	ET52C	-	-	-	-	-	200 - 350	100 - 300	-	-	-
	ET602	140 - 380	120 - 300	70 - 150	80 - 180	100 - 200	120 - 250	130 - 220	-	20 - 40	40 - 80
	ET612	180 - 280	150 - 250	70 - 140	120 - 200	130 - 250	120 - 270	130 - 240	-	25 - 45	-
	ET62P	140 - 400	120 - 320	70 - 170	-	-	120 - 270	130 - 240	-	-	40 - 80
	ET63P	100 - 210	70 - 180	40 - 90	70 - 180	70 - 200	-	-	-	20 - 40	-
	ET73P	-	-	70 - 170	-	-	-	-	-	-	40-100
	ET912	-	-	80 - 160	-	-	-	-	-	-	70 - 120
	ET20P	-	-	-	-	-	-	-	300 - 800	-	-
	ET20U	-	-	-	-	-	-	-	300 - 800	-	-



SEGT/SEKT 45° POSITIVE

▶ EDP Code MI..... Example: SEKT 1204AFTN ET602 = MI00045

		<table><tr><th>INSERT</th><th>IC</th><th>S</th></tr><tr><td>SEKT 1204</td><td>12.7</td><td>4.9</td></tr><tr><td>SEGT 1204</td><td>12.7</td><td>4.91</td></tr></table>	INSERT	IC	S	SEKT 1204	12.7	4.9	SEGT 1204	12.7	4.91	<table><tr><td>P</td><td></td><td>●</td><td>●</td><td>●</td><td>○</td><td>●</td><td>○</td><td></td><td></td></tr><tr><td>M</td><td></td><td>○</td><td></td><td></td><td>●</td><td></td><td></td><td></td><td></td></tr><tr><td>K</td><td>●</td><td>●</td><td>●</td><td>●</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>N</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>●</td><td>●</td></tr><tr><td>S</td><td></td><td>○</td><td>●</td><td></td><td>●</td><td></td><td></td><td></td><td></td></tr><tr><td>H</td><td></td><td>○</td><td></td><td>○</td><td></td><td>○</td><td>●</td><td></td><td></td></tr></table>										P		●	●	●	○	●	○			M		○			●					K	●	●	●	●						N								●	●	S		○	●		●					H		○		○		○	●		
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SEKT SEGT	DESIGNATION	RE (mm)	BS (mm)	f _z (mm/tooth)	ET52C	ET602	ET612	ET62P	ET63P	ET73P	ET912	ET20P	ET20U																																																																				
	SEKT 1204AFTN	1.1	1.18	0.07 - 0.55		■ 00045	● 00329	● 00158																																																																									
	MS SEKT 1204-MS	1.1	1.2	0.08 - 0.30		■ 00075	● 00361	● 00214	● 00188																																																																								
	AL SEKT 1204-AL	1.1	1.18	0.20 - 0.35								■ 00074																																																																					
	AL SEGT 1204-AL	1.2	2.01	0.05 - 0.30									● 00264																																																																				

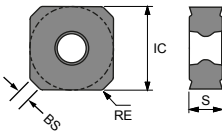
■ = Available while stocks last

ISO		P			M		K		N	S	H
MATERIAL		Non-alloy steel <25 HRc	Low alloy steel 25-35 HRc	High alloy steel, Tool steel 35-45 HRc	Ferritic / Martensitic Stainless steel	Austenitic Stainless steel	Grey Cast iron	Nodular Cast iron	Aluminium & Non-ferrous ma- terial	Heat Resistant and Super Alloys	Hardened steel <55 HRc
VDI GROUP		1-5	6-9	10-11	12-13	14	15-16	17-20	21-30	31-37	38-41
V _c (m/min)	ET52C	-	-	-	-	-	200 - 350	100 - 300	-	-	-
	ET602	140 - 380	120 - 300	70 - 150	80 - 180	100 - 200	120 - 250	130 - 220	-	20 - 40	40 - 80
	ET612	180 - 280	150 - 250	70 - 140	120 - 200	130 - 250	120 - 270	130 - 240	-	25 - 45	-
	ET62P	140 - 400	120 - 320	70 - 170	-	-	120 - 270	130 - 240	-	-	40 - 80
	ET63P	100 - 210	70 - 180	40 - 90	70 - 180	70 - 200	-	-	-	20 - 40	-
	ET73P	-	-	70 - 170	-	-	-	-	-	-	40-100
	ET912	-	-	80 - 160	-	-	-	-	-	-	70 - 120
	ET20P	-	-	-	-	-	-	-	300 - 800	-	-
	ET20U	-	-	-	-	-	-	-	300 - 800	-	-



SNMX 8 EDGE

▶ EDP Code MI..... Example: SNMX 1206ANN ET602 = MI00048

 <table><tr><th>INSERT</th><th>IC</th><th>S</th></tr><tr><td>SNMX 1206</td><td>12.7</td><td>6.25</td></tr></table> <table><tr><th>P</th><td></td><td>●</td><td>●</td><td>●</td><td>○</td><td>●</td><td>○</td><td></td><td></td></tr><tr><th>M</th><td></td><td>○</td><td>●</td><td>●</td><td>●</td><td></td><td></td><td></td><td></td></tr><tr><th>K</th><td>●</td><td>●</td><td>●</td><td>●</td><td></td><td></td><td></td><td></td><td></td></tr><tr><th>N</th><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>●</td><td>●</td></tr><tr><th>S</th><td></td><td>○</td><td>●</td><td></td><td>●</td><td></td><td></td><td></td><td></td></tr><tr><th>H</th><td></td><td>○</td><td></td><td>○</td><td></td><td>○</td><td>●</td><td></td><td></td></tr></table>					INSERT	IC	S	SNMX 1206	12.7	6.25	P		●	●	●	○	●	○			M		○	●	●	●					K	●	●	●	●						N								●	●	S		○	●		●					H		○		○		○	●			L17 1206 1206M12 1206P12 ET52C ET602 ET612 ET62P ET63P ET73P ET912 ET20P ET20U									
INSERT	IC	S																																																																														
SNMX 1206	12.7	6.25																																																																														
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SNMX	DESIGNATION	RE (mm)	BS (mm)	f _z (mm/tooth)	ET52C	ET602	ET612	ET62P	ET63P	ET73P	ET912	ET20P	ET20U																																																																			
	SNMX 1206ANN	0.8	1.7	0.16 - 0.34	● 00189	■ 00048	● 00364	● 00190	● 00159	● 00144	● 00234																																																																					

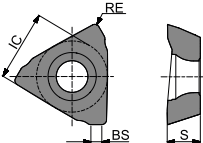
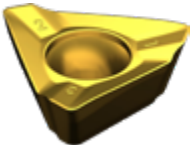
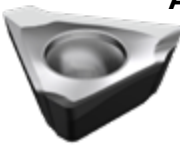
■ = Available while stocks last

ISO		P			M		K		N	S	H
MATERIAL		Non-alloy steel <25 HRC	Low alloy steel 25-35 HRC	High alloy steel, Tool steel 35-45 HRC	Ferritic / Martensitic Stainless steel	Austenitic Stainless steel	Grey Cast iron	Nodular Cast iron	Aluminium & Non-ferrous ma- terial	Heat Resistant and Super Alloys	Hardened steel <55 HRC
VDI GROUP		1-5	6-9	10-11	12-13	14	15-16	17-20	21-30	31-37	38-41
V _c (m/min)	ET52C	-	-	-	-	-	200 - 350	100 - 300	-	-	-
	ET602	140 - 380	120 - 300	70 - 150	80 - 180	100 - 200	120 - 250	130 - 220	-	20 - 40	40 - 80
	ET612	180 - 280	150 - 250	70 - 140	120 - 200	130 - 250	120 - 270	130 - 240	-	25 - 45	-
	ET62P	140 - 400	120 - 320	70 - 170	-	-	120 - 270	130 - 240	-	-	40 - 80
	ET63P	100 - 210	70 - 180	40 - 90	70 - 180	70 - 200	-	-	-	20 - 40	-
	ET73P	-	-	70 - 170	-	-	-	-	-	-	40-100
	ET912	-	-	80 - 160	-	-	-	-	-	-	70 - 120
	ET20P	-	-	-	-	-	-	-	300 - 800	-	-
	ET20U	-	-	-	-	-	-	-	300 - 800	-	-



TPCT/TPKT 90° SHOULDER MILLING

► EDP Code MI..... Example: TPKT 110404R ET52C = MI00265

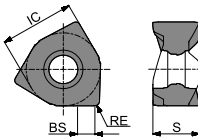
		<table><tr><th>INSERT</th><th>IC</th><th>S</th></tr><tr><td>TPCT/KT 1104</td><td>7.54</td><td>4.28</td></tr><tr><td>TPCT/KT 1605</td><td>11.66</td><td>5.38</td></tr></table>			INSERT	IC	S	TPCT/KT 1104	7.54	4.28	TPCT/KT 1605	11.66	5.38	<table><tr><th>P</th><td></td><td>●</td><td>●</td><td>●</td><td>●</td><td>○</td><td></td><td></td><td></td><td></td></tr><tr><th>M</th><td></td><td>○</td><td>●</td><td></td><td></td><td>○</td><td></td><td></td><td></td><td></td></tr><tr><th>K</th><td>●</td><td>●</td><td>●</td><td>●</td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><th>N</th><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>●</td><td>●</td></tr><tr><th>S</th><td></td><td>○</td><td>●</td><td></td><td>●</td><td></td><td></td><td></td><td></td><td></td></tr><tr><th>H</th><td></td><td>○</td><td></td><td>○</td><td></td><td>○</td><td>●</td><td></td><td></td><td></td></tr></table>										P		●	●	●	●	○					M		○	●			○					K	●	●	●	●							N									●	●	S		○	●		●						H		○		○		○	●			
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TPCT/KT 1605	11.66	5.38																																																																																							
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TPCT TPKT	DESIGNATION	RE (mm)	BS (mm)	f _z (mm/tooth)	ET52C	ET602	ET612	ET62P	ET63P	ET73P	ET912	ET20P	ET20U																																																																												
	TPKT 110404R	0.4	1.6	0.05 - 0.24	● 00265		● 00266				● 00267																																																																														
	TPKT 110408R	0.8	1.15	0.05 - 0.24	● 00270		● 00271				● 00272																																																																														
	TPKT 110416R	1.6	0.6	0.05 - 0.24	● 00275		● 00276				● 00277																																																																														
	TPKT 160508R	0.8	1.79	0.05 - 0.27	● 00278		● 00279				● 00280																																																																														
	TPKT 160516R	1.6	1.2	0.05 - 0.27	● 00283		● 00284				● 00285																																																																														
	TPKT 160524R	2.4	0.7	0.05 - 0.27	● 00286		● 00287				● 00288																																																																														
	TPKT 110404R-MS	0.4	1.6	0.05 - 0.15			● 00268		● 00269																																																																																
	TPKT 110408R-MS	0.8	1.15	0.05 - 0.15			● 00273		● 00274																																																																																
	TPKT 160508R-MS	0.8	0.6	0.05 - 0.15			● 00281		● 00282																																																																																
	TPCT 110404R-AL	0.4	1.5	0.05 - 0.25									● 00301																																																																												
	TPCT 110408R-AL	0.8	1.1	0.05 - 0.25									● 00302																																																																												
	TPCT 160504R-AL	0.4	2.4	0.05 - 0.5									● 00303																																																																												
	TPCT 160508R-AL	0.8	1.9	0.05 - 0.5									● 00304																																																																												

ISO		P			M		K		N	S	H
MATERIAL	VDI GROUP	Non-alloy steel <25 HRC	Low alloy steel 25-35 HRC	High alloy steel, Tool steel 35-45 HRC	Ferritic / Martensitic Stainless steel	Austenitic Stainless steel	Grey Cast iron	Nodular Cast iron	Aluminium & Non-ferrous ma- terial	Heat Resistant and Super Alloys	Hardened steel <55 HRC
		1-5	6-9	10-11	12-13	14	15-16	17-20	21-30	31-37	38-41
V _c (m/min)	ET52C	-	-	-	-	-	200 - 350	100 - 300	-	-	-
	ET602	140 - 380	120 - 300	70 - 150	80 - 180	100 - 200	120 - 250	130 - 220	-	20 - 40	40 - 80
	ET612	180 - 280	150 - 250	70 - 140	120 - 200	130 - 250	120 - 270	130 - 240	-	25 - 45	-
	ET62P	140 - 400	120 - 320	70 - 170	-	-	120 - 270	130 - 240	-	-	40 - 80
	ET63P	100 - 210	70 - 180	40 - 90	70 - 180	70 - 200	-	-	-	20 - 40	-
	ET73P	-	-	70 - 170	-	-	-	-	-	-	40-100
	ET912	-	-	80 - 160	-	-	-	-	-	-	70 - 120
	ET20P	-	-	-	-	-	-	-	300 - 800	-	-
	ET20U	-	-	-	-	-	-	-	300 - 800	-	-



WNEX 90° SHOULDER MILLING

▶ EDP Code MI..... Example: WNEX 080604R ET52C = MI00235

					<table><tr><th>INSERT</th><th>IC</th><th>S</th></tr><tr><td>WNEX 0806</td><td>12.9</td><td>6.25</td></tr></table>			INSERT	IC	S	WNEX 0806	12.9	6.25	<table><tr><td>P</td><td></td><td>●</td><td>●</td><td>●</td><td>○</td><td>●</td><td>○</td><td></td><td></td></tr><tr><td>M</td><td></td><td>○</td><td></td><td></td><td>●</td><td></td><td></td><td></td><td></td></tr><tr><td>K</td><td>●</td><td>●</td><td>●</td><td>●</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>N</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>●</td><td>●</td></tr><tr><td>S</td><td></td><td>○</td><td>●</td><td></td><td>●</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>H</td><td></td><td>○</td><td></td><td>○</td><td></td><td>○</td><td>●</td><td></td><td></td><td></td></tr></table>										P		●	●	●	○	●	○			M		○			●					K	●	●	●	●						N									●	●	S		○	●		●						H		○		○		○	●			
INSERT	IC	S																																																																																				
WNEX 0806	12.9	6.25																																																																																				
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WNEX	DESIGNATION	RE (mm)	BS (mm)	f _z (mm/tooth)	ET52C	ET602	ET612	ET62P	ET63P	ET73P	ET912	ET20P	ET20U																																																																									
	WNEX 080604R	0.4	3.2	0.05 - 0.26	● 00235		● 00236				● 00237																																																																											
	WNEX 080608R	0.8	2.8	0.05 - 0.26	● 00238		● 00239		● 00289		● 00290																																																																											
	WNEX 080616R	1.6	2.0	0.05 - 0.26	● 00244		● 00245				● 00246																																																																											
	MS WNEX 080604R-MS	0.4	3.6	0.05 - 0.19			● 00250		● 00251																																																																													
	WNEX 080608R-MS	0.8	3.3	0.05 - 0.19			● 00252		● 00253																																																																													
	WNEX 080616R-MS	1.6	2.4	0.05 - 0.19			● 00256		● 00257																																																																													

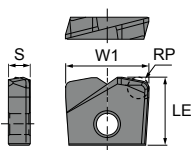
ISO		P			M		K		N	S	H
MATERIAL		Non-alloy steel <25 HRC	Low alloy steel 25-35 HRC	High alloy steel, Tool steel 35-45 HRC	Ferritic / Martensitic Stainless steel	Austenitic Stainless steel	Grey Cast iron	Nodular Cast iron	Aluminium & Non-ferrous ma- terial	Heat Resistant and Super Alloys	Hardened steel <55 HRC
VDI GROUP		1-5	6-9	10-11	12-13	14	15-16	17-20	21-30	31-37	38-41
vc (m/min)	ET52C	-	-	-	-	-	200 - 350	100 - 300	-	-	-
	ET602	140 - 380	120 - 300	70 - 150	80 - 180	100 - 200	120 - 250	130 - 220	-	20 - 40	40 - 80
	ET612	180 - 280	150 - 250	70 - 140	120 - 200	130 - 250	120 - 270	130 - 240	-	25 - 45	-
	ET62P	140 - 400	120 - 320	70 - 170	-	-	120 - 270	130 - 240	-	-	40 - 80
	ET63P	100 - 210	70 - 180	40 - 90	70 - 180	70 - 200	-	-	-	20 - 40	-
	ET73P	-	-	70 - 170	-	-	-	-	-	-	40-100
	ET912	-	-	80 - 160	-	-	-	-	-	-	70 - 120
	ET20P	-	-	-	-	-	-	-	300 - 800	-	-
	ET20U	-	-	-	-	-	-	-	300 - 800	-	-



INDEXABLE MILLING

M200H HIGH FEED

► EDP Code GM320 200720.... Example: M200H0808 GM320 = 2007200800

		INSERT	W1	LE	S	INSERT	W1	LE	S	P						
		M200H08	8.0	8.0	2.4	M200H20	20.0	16.0	5.2	M						
		M200H10	10.0	9.5	2.7	M200H25	25.0	19.5	6.2	K						
		M200H12	12.0	11.0	3.2	M200H30	30.0	23.5	7.2	N						
		M200H16	16.0	13.0	4.2	M200H32	32.0	25.5	7.2	S						
											H					
M200H		DESIGNATION			RP (mm)	HOLDER TYPE		fz (mm/tooth)	GM310	GM320	GM430	HM420	SS330			
		M200H0808			0.8	M200SS M200ST M200BC		0.40 - 0.60		● 0800						
		M200H1010			1.0			0.40 - 0.75		● 1000						
		M200H1210			1.0			0.60 - 0.90		● 1200						
		M200H1615			1.5			0.80 - 1.20		● 1600						
		M200H2020			2.0			1.00 - 1.50		● 2000						
		M200H2525			2.5			1.50 - 2.00		● 2500						
		M200H3030			3.0			1.80 - 2.30		● 3000						
		M200H3232			3.2			1.80 - 2.30		● 3200						

► For depth of cut see P.62

ISO		P			M		K		N	S	H
MATERIAL		Non-alloy steel <25 HRC	Low alloy steel 25-35 HRC	High alloy steel, Tool steel 35-45 HRC	Ferritic / Martensitic Stainless steel	Austenitic Stainless steel	Grey Cast iron	Nodular Cast iron	Aluminium & Non-ferrous ma- terial	Heat Resistant and Super Alloys	Hardened material <55 HRC
VDI GROUP		1-5	6-9	10-11	12-13	14	15-16	17-20	21-30	31-37	38-41
Vc (m/min)	GM310	160 - 700	120 - 550	100 - 500	-	-	160 - 550	160 - 700	-	-	-
	GM320	160 - 700	120 - 550	-	-	-	160 - 550	160 - 700	-	-	-
	GM430	110 - 340	75 - 290	70 - 275	-	-	110 - 340	110 - 340	-	-	30 - 280
	HM420	-	-	100 - 500	-	-	-	-	-	-	80 - 400
	SS330	-	-	-	90 - 130	90 - 110	-	-	-	-	-

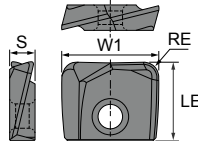


INDEXABLE MILLING

M200S CORNER RADIUS

► EDP Code GM310 200120.... Example: M200S0803 GM310 = 2001200803

► EDP Code HM420 200151.... Example: M200S0803 HM420 = 2001510803

		INSERT	W1	LE	S	INSERT	W1	LE	S	P						
		M200S08	8.0	8.0	2.4	M200S16	16.0	13.0	4.2	M						
		M200S10	10.0	9.5	2.7	M200S17	17.0	13.0	4.2	K						
		M200S12	12.0	11.0	3.2	M200S20	20.0	16.0	5.2	N						
		M200S13	13.0	11.2	3.2					S						
											H					
M200S		DESIGNATION			RE (mm)	HOLDER TYPE		fz (mm/tooth)	GM310	GM320	GM430	HM420	SS330			
		M200S0803	0.3			M200SS M200ST M200BC	0.05 - 0.20	● 0803				● 0803				
		M200S0805	0.5				0.05 - 0.20	● 0805				● 0805				
		M200S0810	1.0				0.05 - 0.20	● 0801				● 0801				
		M200S1005	0.5				0.05 - 0.20	● 1005				● 1005				
		M200S1010	1.0				0.05 - 0.20	● 1001				● 1001				
		M200S1020	2.0				0.05 - 0.20	● 1002				● 1002				
		M200S1205	0.5				0.05 - 0.20	● 1205				● 1205				
		M200S1210	1.0				0.05 - 0.20	● 1201				● 1201				
		M200S1220	2.0				0.05 - 0.20	● 1202				● 1202				
		M200S1305	0.5				0.05 - 0.20	● 1305				● 1305				
		M200S1310	1.0				0.05 - 0.20	● 1301				● 1301				
		M200S1320	2.0				0.05 - 0.20	● 1302				● 1302				
		M200S1605	0.5				0.06 - 0.25	● 1605				● 1605				
		M200S1610	1.0				0.06 - 0.25	● 1601				● 1601				
		M200S1620	2.0				0.06 - 0.25	● 1602				● 1602				
		M200S1705	0.5				0.06 - 0.25	● 1705				● 1705				
		M200S1710	1.0				0.06 - 0.25	● 1701				● 1701				
		M200S1720	2.0				0.06 - 0.25	● 1702				● 1702				
		M200S2005	0.5				0.06 - 0.25	● 2005				● 2005				
		M200S2010	1.0				0.06 - 0.25	● 2001				● 2001				
		M200S2020	2.0				0.06 - 0.25	● 2002				● 2002				

► For depth of cut see P.62

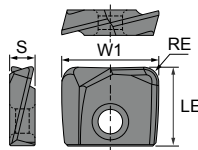
ISO		P			M		K		N	S	H
MATERIAL		Non-alloy steel <25 HRC	Low alloy steel 25-35 HRC	High alloy steel, Tool steel 35-45 HRC	Ferritic / Martensitic Stainless steel	Austenitic Stainless steel	Grey Cast iron	Nodular Cast iron	Aluminium & Non-ferrous ma- terial	Heat Resistant and Super Alloys	Hardened material <55 HRC
VDI GROUP		1-5	6-9	10-11	12-13	14	15-16	17-20	21-30	31-37	38-41
Vc (m/min)	GM310	160 - 700	120 - 550	100 - 500	-	-	160 - 550	160 - 700	-	-	-
	GM320	160 - 700	120 - 550	-	-	-	160 - 550	160 - 700	-	-	-
	GM430	110 - 340	75 - 290	70 - 275	-	-	110 - 340	110 - 340	-	-	30 - 280
	HM420	-	-	100 - 500	-	-	-	-	-	-	80 - 400
	SS330	-	-	-	90 - 130	90 - 110	-	-	-	-	-



M200S CORNER RADIUS

► EDP Code GM310 200120.... Example: M200S2105 GM310 = 2001202105

► EDP Code HM420 200151.... Example: M200S2105 HM420 = 2001512105

		INSERT	W1	LE	S	INSERT	W1	LE	S	P	●	●	●	●	●
		M200S21	21.0	16.0	5.2	M200S30	30.0	23.5	7.2	M	●	●	●	●	●
		M200S25	25.0	19.5	6.2	M200S32	32.0	23.5	7.2	K	●	●	●	●	●
		M200S26	26.0	19.5	6.2					N					
										S					
										H			●	●	
M200S		DESIGNATION			RE (mm)	HOLDER TYPE		f _z (mm/tooth)	GM310	GM320	GM430	HM420	SS330		
		M200S2105	0.5			M200SS M200ST M200BC	0.06 - 0.25	● 2105			● 2105				
		M200S2110	1.0				0.06 - 0.25	● 2101			● 2101				
		M200S2120	2.0				0.06 - 0.25	● 2102			● 2102				
		M200S2505	0.5				0.06 - 0.25	● 2505			● 2505				
		M200S2510	1.0				0.06 - 0.25	● 2501			● 2501				
		M200S2520	2.0				0.06 - 0.25	● 2502			● 2502				
		M200S2605	0.5				0.06 - 0.25	● 2605			● 2605				
		M200S2610	1.0				0.06 - 0.25	● 2601			● 2601				
		M200S2620	2.0				0.06 - 0.25	● 2602			● 2602				
		M200S3005	0.5				0.06 - 0.25	● 3005			● 3005				
		M200S3010	1.0				0.06 - 0.25	● 3001			● 3001				
		M200S3020	2.0				0.06 - 0.25	● 3002			● 3002				
		M200S3205	0.5				0.06 - 0.25	● 3205			● 3205				
		M200S3210	1.0				0.06 - 0.25	● 3201			● 3201				
		M200S3220	2.0				0.06 - 0.25	● 3202			● 3202				

► For depth of cut see P.62

ISO		P			M		K		N	S	H
MATERIAL	VDI GROUP	Non-alloy steel <25 HRC	Low alloy steel 25-35 HRC	High alloy steel, Tool steel 35-45 HRC	Ferritic / Martensitic Stainless steel	Austenitic Stainless steel	Grey Cast iron	Nodular Cast iron	Aluminium & Non-ferrous ma- terial	Heat Resistant and Super Alloys	Hardened material <55 HRC
		1-5	6-9	10-11	12-13	14	15-16	17-20	21-30	31-37	38-41
V _c (m/min)	GM310	160 - 700	120 - 550	100 - 500	-	-	160 - 550	160 - 700	-	-	-
	GM320	160 - 700	120 - 550	-	-	-	160 - 550	160 - 700	-	-	-
	GM430	110 - 340	75 - 290	70 - 275	-	-	110 - 340	110 - 340	-	-	30 - 280
	HM420	-	-	100 - 500	-	-	-	-	-	-	80 - 400
	SS330	-	-	-	90 - 130	90 - 110	-	-	-	-	-



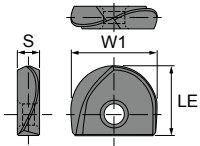
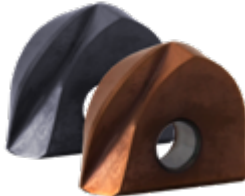
INDEXABLE MILLING

M200B BALL

► EDP Code GM310 200320.... Example: M200B0800 GM310 = 2003200800

► EDP Code HM420 200351.... Example: M200B0800 HM420 = 2003510800

► EDP Code SS330 200323.... Example: M200B0800 SS330 = 2003230800

	INSERT	W1	LE	S	INSERT	W1	LE	S	P	●	●	●	●	●
	M200B08	8.0	8.0	2.4	M200B20	20.0	16.0	5.2	M	●	●	●	●	●
	M200B10	10.0	9.5	2.7	M200B25	25.0	19.5	6.2	K	●	●	●	●	●
	M200B12	12.0	11.0	3.2	M200B30	30.0	23.5	7.2	N	●	●	●	●	●
	M200B16	16.0	13.0	4.2	M200B32	32.0	24.5	7.2	S	●	●	●	●	●
										H	●	●	●	●
M200B	DESIGNATION			RE (mm)	HOLDER TYPE	f _z (mm/tooth)	GM310	GM320	GM430	HM420	SS330			
	M200B0800			4.0	M200BC M200BS M200BT M200BM	0.10 - 0.20	● 0800			● 0800	● 0800			
	M200B1000			5.0		0.10 - 0.20	● 1000			● 1000	● 1000			
	M200B1200			6.0		0.10 - 0.20	● 1200			● 1200	● 1200			
	M200B1600			8.0		0.15 - 0.30	● 1600			● 1600	● 1600			
	M200B2000			10.0		0.15 - 0.40	● 2000			● 2000	● 2000			
	M200B2500			12.5		0.15 - 0.50	● 2500			● 2500	● 2500			
	M200B3000			15.0		0.15 - 0.60	● 3000			● 3000	● 3000			
	M200B3200			16.0		0.15 - 0.60	● 3200			● 3200	● 3200			

► For depth of cut see P.62

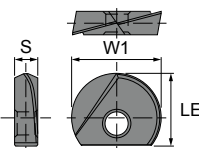
ISO	P			M		K		N	S	H
MATERIAL	Non-alloy steel <25 HRC	Low alloy steel 25-35 HRC	High alloy steel, Tool steel 35-45 HRC	Ferritic / Martensitic Stainless steel	Austenitic Stainless steel	Grey Cast iron	Nodular Cast iron	Aluminium & Non-ferrous ma- terial	Heat Resistant and Super Alloys	Hardened material <55 HRC
VDI GROUP	1-5	6-9	10-11	12-13	14	15-16	17-20	21-30	31-37	38-41
V _c (m/min)	GM310	160 - 700	120 - 550	100 - 500	-	-	160 - 550	160 - 700	-	-
	GM320	160 - 700	120 - 550	-	-	-	160 - 550	160 - 700	-	-
	GM430	110 - 340	75 - 290	70 - 275	-	-	110 - 340	110 - 340	-	30 - 280
	HM420	-	-	100 - 500	-	-	-	-	-	80 - 400
	SS330	-	-	-	90 - 130	90 - 110	-	-	-	-



INDEXABLE MILLING

M200R FULL RADIUS

► EDP Code GM320 200520.... Example: M200R0800 GM320 = 2005200800

	INSERT	W1	LE	S	INSERT	W1	LE	S	P	●	●	●	●	
	M200B08	8.0	8.0	2.4	M200B20	20.0	16.0	5.2	M					●
	M200B10	10.0	9.5	2.7	M200B25	25.0	19.5	6.2	K	●	●	●		
	M200B12	12.0	11.0	3.2	M200B30	30.0	23.5	7.2	N					
	M200B16	16.0	13.0	4.2	M200B32	32.0	24.5	7.2	S					
									H			●	●	
M200R		DESIGNATION			RE (mm)	HOLDER TYPE		f _z (mm/tooth)	GM310	GM320	GM430	HM420	SS330	
	M200R0800			4.0	M200BC M200BS M200BT M200BM	0.18 - 0.20			● 0800					
	M200R1000			5.0		0.18 - 0.20			● 1000					
	M200R1200			6.0		0.18 - 0.20			● 1200					
	M200R1600			8.0		0.25 - 0.30			● 1600					
	M200R2000			10.0		0.25 - 0.40			● 2000					
	M200R2500			12.5		0.25 - 0.50			● 2500					
	M200R3000			15.0		0.25 - 0.60			● 3000					
	M200R3200			16.0		0.25 - 0.60			● 3200					

► For depth of cut see P.62

ISO	P			M		K		N	S	H
MATERIAL	Non-alloy steel <25 HRC	Low alloy steel 25-35 HRC	High alloy steel, Tool steel 35-45 HRC	Ferritic / Martensitic Stainless steel	Austenitic Stainless steel	Grey Cast iron	Nodular Cast iron	Aluminium & Non-ferrous ma- terial	Heat Resistant and Super Alloys	Hardened material <55 HRC
VDI GROUP	1-5	6-9	10-11	12-13	14	15-16	17-20	21-30	31-37	38-41
V _c (m/min)	GM310	160 - 700	120 - 550	100 - 500	-	-	160 - 550	160 - 700	-	-
	GM320	160 - 700	120 - 550	-	-	-	160 - 550	160 - 700	-	-
	GM430	110 - 340	75 - 290	70 - 275	-	-	110 - 340	110 - 340	-	30 - 280
	HM420	-	-	100 - 500	-	-	-	-	-	80 - 400
	SS330	-	-	-	90 - 130	90 - 110	-	-	-	-

Depths of cut for all M200 tools

	APMXFFW: Roughing - $0.1 \times DC$ Finishing - $<\phi 12 : 0.25\text{mm}$ $<\phi 20 : 0.30\text{mm}$ $>\phi 20 : 0.40\text{mm}$ APMX: Roughing - $<\phi 16 : 0.025 \times DC$ $>\phi 16 : 0.05 \times DC$ Finishing - 0.1mm		
		M200R Full Radius Type	M200B Ball Type
	APMXFFW: Roughing - $0.1 \times DC$ Finishing - 0.2mm APMX: Roughing - $<\phi 16 : 0.025 \times DC$ $>\phi 16 : 0.05 \times DC$ Finishing - $<\phi 16 : 0.1\text{mm}$ $>\phi 16 : 0.2\text{mm}$		
		M200S Square Crn. Radius Type	
	APMXFFW: Roughing - $0.1 \times DC$ Finishing - 0.2mm APMX: Roughing - $<\phi 16 : 0.025 \times DC$ $>\phi 16 : 0.05 \times DC$ Finishing - $<\phi 16 : 0.1\text{mm}$ $>\phi 16 : 0.2\text{mm}$		
		M200H High Feed Type	

If overhang exceeds $4 \times DC$, use carbide holder and reduce feed by 20%. When using long and intermediate holders reduce feed by 15-30% depending on conditions.

Assembly instructions for all M200 tools

- ▶ Ensure insert and insert seat are completely clean.
- ▶ Slide insert into holder and tighten screw. Use anti-sieze compound to prevent lock-up.
- ▶ Tighten screw to recommended torque. (Refer to table)
- ▶ Do not press down on insert while tightening screw, allow the screw to locate the insert correctly.
- ▶ If screw is worn, replace immediately to ensure accurate insert seating.

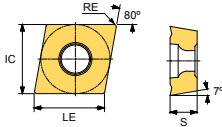
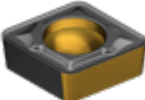
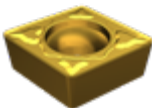
Size (mm)	Clamping Torque (Nm)
8.0	1.0
10.0	1.5
12.0, 13.0	2.5
16.0, 17.0	3.5
20.0, 21.0	5.0
25.0, 26.0	6.0
30.0, 32.0	6.5



INDEXABLE MILLING

CCGT/CCMT 80° RHOMBIC TYPE

► EDP Code TI..... Example: CCGT 060204-AL ET10D = TI01671

					<table><tr><td>INSERT</td><td>LE</td><td>IC</td><td>S</td></tr><tr><td>CC-- 0602</td><td>6.2</td><td>6.35</td><td>2.38</td></tr><tr><td>CC-- 09T3</td><td>9.2</td><td>9.53</td><td>3.97</td></tr><tr><td>CC-- 1204</td><td>12.4</td><td>12.7</td><td>4.76</td></tr></table>				INSERT	LE	IC	S	CC-- 0602	6.2	6.35	2.38	CC-- 09T3	9.2	9.53	3.97	CC-- 1204	12.4	12.7	4.76	<table><tr><td>P</td><td></td><td>●</td><td>●</td><td>●</td><td>●</td><td>○</td><td>●</td><td>●</td><td>○</td><td>○</td><td></td><td>●</td><td></td><td>●</td></tr><tr><td>M</td><td></td><td></td><td></td><td></td><td>●</td><td>●</td><td>○</td><td>●</td><td>●</td><td>○</td><td></td><td>○</td><td></td><td>●</td></tr><tr><td>K</td><td>●</td><td>●</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>●</td><td></td><td>●</td></tr><tr><td>N</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>●</td><td>●</td></tr><tr><td>S</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>○</td><td>○</td><td>○</td><td>●</td><td></td><td></td><td></td></tr><tr><td>H</td><td></td><td>○</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>○</td><td></td><td></td></tr></table>																P		●	●	●	●	○	●	●	○	○		●		●	M					●	●	○	●	●	○		○		●	K	●	●										●		●	N													●	●	S								○	○	○	●				H		○										○		
INSERT	LE	IC	S																																																																																																																															
CC-- 0602	6.2	6.35	2.38																																																																																																																															
CC-- 09T3	9.2	9.53	3.97																																																																																																																															
CC-- 1204	12.4	12.7	4.76																																																																																																																															
P		●	●	●	●	○	●	●	○	○		●		●																																																																																																																				
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CCGT CCMT	DESIGNATION	RE (mm)	f _n (mm/rev)	a _p (mm)	ET101C	ET31C	ET315C	ET32C	ET33C	ET225C	ET21P	ET23P	ET24P	ET41P	ET801	ET10D	ET10U	CT10U																																																																																																																
	CCGT 060204-AL	0.4	0.05 - 0.15	0.5 - 2.0												● 01671	● 01164																																																																																																																	
	CCGT 09T304-AL	0.4	0.05 - 0.25	0.5 - 2.0												● 00224	● 00225																																																																																																																	
	CCGT 09T308-AL	0.8	0.10 - 0.35	1.0 - 3.0												● 00226	● 00227																																																																																																																	
	CCGT 120404-AL	0.4	0.04 - 0.20	0.3 - 1.5												● 00313	● 00312																																																																																																																	
	CCGT 120408-AL	0.8	0.04 - 0.30	0.6 - 2.5												● 00315	● 00314																																																																																																																	
	CCMT 060204-BG	0.4	0.10 - 0.25	0.5 - 2.0	● 01571	■ 00447	● 01688	● 01074	● 00838		● 01689		● 01168		● 01167																																																																																																																			
	CCMT 060208-BG	0.8	0.10 - 0.25	0.8 - 2.0	● 01572	■ 00448	● 02063	● 01075	● 00839		● 01690		● 01170		● 00002																																																																																																																			
	CCMT 09T304-BG	0.4	0.15 - 0.30	0.5 - 2.5	● 01573	■ 00449	● 01821	● 00450	● 00840				● 01172		● 01171																																																																																																																			
	CCMT 09T308-BG	0.8	0.15 - 0.30	0.8 - 2.5	● 01574	■ 00452	● 01822	● 00453	● 00454		● 01173		● 01174		● 00004																																																																																																																			
	CCMT 120404-BG	0.4	0.15 - 0.35	0.5 - 3.0	● 01575	■ 00455	● 01823	● 00456	● 01078																																																																																																																									
	CCMT 120408-BG	0.8	0.15 - 0.35	0.8 - 3.0	● 01438	■ 00457	● 00927	● 00458	● 00459				● 01176		● 00005																																																																																																																			
	CCMT 09T304-MM	0.4	0.08 - 0.25	0.25 - 3.0						● 01983	● 01306	● 01307	● 01308	● 01410																																																																																																																				
	CCMT 09T308-MM	0.8	0.10 - 0.30	0.5 - 3.0						● 01984	● 01313	● 01314	● 01315	● 01316																																																																																																																				

■ = Available while stocks last

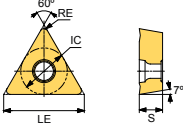
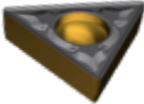
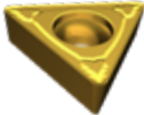
For grade information, please refer to Turning catalogue

ISO		P			M		K		N	S	H
MATERIAL		Non-alloy steel <25 HRC	Low alloy steel 25-35 HRC	High alloy steel, Tool steel 35-45 HRC	Ferritic / Martensitic Stainless steel	Austenitic Stainless steel	Grey Cast iron	Nodular Cast iron	Aluminium & Non-ferrous material	Heat Resistant and Super Alloys	Hardened steel <55 HRC
VDI GROUP		1-5	6-9	10-11	12-13	14	15-16	17-20	21-30	31-37	38-41
V _c (m/min)	ET101C	-	-	-	-	-	170 - 420	120 - 410	-	-	-
	ET31C	170 - 450	180 - 380	100 - 330	-	-	120 - 300	120 - 280	-	-	40 - 80
	ET315C	180 - 500	170 - 450	60 - 180	-	-	-	-	-	-	-
	ET32C	180 - 380	110 - 350	60 - 300	-	-	-	-	-	-	-
	ET33C	150 - 350	90 - 300	70 - 250	120 - 220	50 - 180	-	-	-	-	-
	ET225C	-	-	-	160 - 220	100 - 200	-	-	-	-	-
	ET21P	135 - 405	120 - 350	95 - 280	130 - 230	100 - 200	-	-	-	30 - 90	-
	ET23P	-	-	-	110 - 180	40 - 130	-	-	-	20 - 40	-
	ET24P	-	-	-	80 - 150	30 - 120	-	-	-	20 - 40	-
	ET41P	-	-	-	95 - 290	90 - 210	-	-	-	35 - 90	-
	ET801	120 - 200	70 - 230	70 - 180	70 - 180	-	60 - 160	60 - 120	-	-	40 - 80
	ET10D	-	-	-	-	-	-	-	350 - 1200	-	-
	ET10U	-	-	-	-	-	-	-	250 - 800	-	-
	CT10U	150 - 480	160 - 420	100 - 360	130 - 260	110 - 240	130 - 450	130 - 400	-	-	-



TCGT/TCMT 60° TRIANGULAR TYPE

EDP Code TI..... Example: TCGT 16T304-AL ET10D = TI00278

	<table><tr><th>INSERT</th><th>LE</th><th>IC</th><th>S</th></tr><tr><td>TC-- 16T3</td><td>15.7</td><td>9.53</td><td>3.97</td></tr></table>	INSERT	LE	IC	S	TC-- 16T3	15.7	9.53	3.97	<table><tr><td>P</td><td></td><td>●</td><td>●</td><td>●</td><td>●</td><td>○</td><td></td><td></td><td></td><td></td><td>●</td><td></td><td>●</td><td></td><td></td><td></td><td>●</td></tr><tr><td>M</td><td></td><td></td><td></td><td></td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>○</td><td>○</td><td></td><td></td><td></td><td></td><td></td><td>●</td></tr><tr><td>K</td><td>●</td><td>●</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>●</td><td></td><td></td><td>●</td></tr><tr><td>N</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>●</td><td>●</td><td></td></tr><tr><td>S</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>○</td><td>○</td><td>○</td><td>●</td><td></td><td></td><td></td><td></td></tr><tr><td>H</td><td></td><td>○</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>○</td><td></td><td></td><td></td></tr></table>																		P		●	●	●	●	○					●		●				●	M					●	●	●	●	●	○	○						●	K	●	●												●			●	N															●	●		S										○	○	○	●					H		○												○			
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TC-- 16T3	15.7	9.53	3.97																																																																																																																																				
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<table><tr><th>TCGT TCMT</th><th>DESIGNATION</th><th>RE (mm)</th><th>f_n (mm/rev)</th><th>a_p (mm)</th><th>ET101C</th><th>ET31C</th><th>ET315C</th><th>ET32C</th><th>ET33C</th><th>ET225C</th><th>ET21P</th><th>ET23P</th><th>ET24P</th><th>ET41P</th><th>ET801</th><th>ET10D</th><th>ET10U</th><th>CT10U</th></tr></table>	TCGT TCMT	DESIGNATION	RE (mm)	f _n (mm/rev)	a _p (mm)	ET101C	ET31C	ET315C	ET32C	ET33C	ET225C	ET21P	ET23P	ET24P	ET41P	ET801	ET10D	ET10U	CT10U																																																																																																																				
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	TCGT 16T304-AL	0.4	0.05 - 0.25	0.5 - 2.0												●	●																																																																																																																						
	TCGT 16T308-AL	0.8	0.10 - 0.35	1.0 - 3.0												00278	00279																																																																																																																						
																00280	00281																																																																																																																						
	TCMT 16T304-BG	0.4	0.15 - 0.30	0.5 - 2.5	● 01518	■ 00510	● 01863	● 00511	● 01228																																																																																																																														
	TCMT 16T308-BG	0.8	0.15 - 0.30	0.8 - 2.5	● 01519	■ 00513	● 01865	● 00309	● 00514		● 01711		● 01229		● 00018																																																																																																																								
	TCMT 16T304-MM	0.4	0.08 - 0.25	0.25 - 3.0						● 01995	● 01421	● 01422	● 01423	● 01424																																																																																																																									
	TCMT 16T308-MM	0.8	0.10 - 0.30	0.5 - 3.0						● 01996	● 01327	● 01328	● 01329	● 01425																																																																																																																									

■ = Available while stocks last

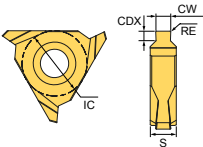
For grade information, please refer to Turning catalogue

ISO		P			M		K		N	S	H
MATERIAL		Non-alloy steel <25 HRC	Low alloy steel 25-35 HRC	High alloy steel, Tool steel 35-45 HRC	Ferritic / Martensitic Stainless steel	Austenitic Stainless steel	Grey Cast iron	Nodular Cast iron	Aluminium & Non-ferrous material	Heat Resistant and Super Alloys	Hardened steel <55 HRC
VDI GROUP		1-5	6-9	10-11	12-13	14	15-16	17-20	21-30	31-37	38-41
V _c (m/min)	ET101C	-	-	-	-	-	170 - 420	120 - 410	-	-	-
	ET31C	170 - 450	180 - 380	100 - 330	-	-	120 - 300	120 - 280	-	-	40 - 80
	ET315C	180 - 500	170 - 450	60 - 180	-	-	-	-	-	-	-
	ET32C	180 - 380	110 - 350	60 - 300	-	-	-	-	-	-	-
	ET33C	150 - 350	90 - 300	70 - 250	120 - 220	50 - 180	-	-	-	-	-
	ET225C	-	-	-	160 - 220	100 - 200	-	-	-	-	-
	ET21P	135 - 405	120 - 350	95 - 280	130 - 230	100 - 200	-	-	-	30 - 90	-
	ET23P	-	-	-	110 - 180	40 - 130	-	-	-	20 - 40	-
	ET24P	-	-	-	80 - 150	30 - 120	-	-	-	20 - 40	-
	ET41P	-	-	-	95 - 290	90 - 210	-	-	-	35 - 90	-
	ET801	120 - 200	70 - 230	70 - 180	70 - 180	-	60 - 160	60 - 120	-	-	40 - 80
	ET10D	-	-	-	-	-	-	-	350 - 1200	-	-
	ET10U	-	-	-	-	-	-	-	250 - 800	-	-
	CT10U	150 - 480	160 - 420	100 - 360	130 - 260	110 - 240	130 - 450	130 - 400	-	-	-



RING GROOVING TYPE

▶ EDP Code PG..... Example: 13T 1.25 ET602G = PG00065

 <table><tr><th>INSERT</th><th>IC</th><th>S</th></tr><tr><td>13T</td><td>13</td><td>3.25</td></tr></table>						INSERT	IC	S	13T	13	3.25	<table><tr><td>P</td><td>●</td><td>●</td><td>●</td></tr><tr><td>M</td><td>○</td><td>○</td><td>●</td></tr><tr><td>K</td><td>●</td><td>●</td><td>○</td></tr><tr><td>N</td><td>●</td><td>○</td><td>○</td></tr><tr><td>S</td><td>○</td><td>○</td><td>●</td></tr><tr><td>H</td><td>○</td><td>○</td><td>○</td></tr></table>			P	●	●	●	M	○	○	●	K	●	●	○	N	●	○	○	S	○	○	●	H	○	○	○
INSERT	IC	S																																				
13T	13	3.25																																				
P	●	●	●																																			
M	○	○	●																																			
K	●	●	○																																			
N	●	○	○																																			
S	○	○	●																																			
H	○	○	○																																			
13T	DESIGNATION	CW (mm)	RE (mm)	CDX (mm)	f _n (mm/rev)	ET602G	ET602	ET63P																														
 13T	13T 1.25	1.25	0.2	1.3	0.04 - 0.16	● 00065																																
	13T 1.35	1.35	0.2	1.3	0.04 - 0.16	● 00066																																
	13T 1.45	1.45	0.2	1.3	0.04 - 0.16	● 00067																																
	13T 1.50	1.50	0.2	1.3	0.04 - 0.16	● 00068																																
	13T 1.65	1.65	0.2	1.8	0.04 - 0.16	● 00069																																
	13T 1.75	1.75	0.2	1.8	0.04 - 0.16	● 00070																																
	13T 1.85	1.82	0.2	2.3	0.04 - 0.16	● 00071																																
	13T 2.00	2.00	0.2	2.3	0.06 - 0.18	● 00072																																
	13T 2.20	2.20	0.2	3.3	0.06 - 0.18	● 00073																																
	13T 2.30	2.30	0.2	3.3	0.06 - 0.18	● 00074																																
	13T 2.50	2.50	0.3	3.3	0.06 - 0.18	● 00075																																
	13T 2.65	2.65	0.3	3.3	0.06 - 0.18	● 00076																																
	13T 2.70	2.70	0.3	3.3	0.06 - 0.18	● 00077																																
	13T 2.80	2.80	0.3	3.3	0.06 - 0.18	● 00078																																
	13T 3.00	3.00	0.3	3.3	0.07 - 0.22	● 00079																																
	13T 3.20	3.20	0.3	3.3	0.07 - 0.22	● 00080																																
	13T 3.30	3.30	0.3	3.3	0.07 - 0.22	● 00081																																
	13T 3.50	3.50	0.3	3.8	0.07 - 0.22	● 00082																																
	13T 3.70	3.70	0.3	3.8	0.07 - 0.22	● 00083																																
	13T 3.90	3.90	0.3	3.8	0.07 - 0.22	● 00084																																
	13T 4.00	4.00	0.3	3.8	0.08 - 0.25	● 00085																																

For grade information, please refer to Turning catalogue

ISO		P			M		K		N	S	H
MATERIAL		Non-alloy steel <25 HRC	Low alloy steel 25-35 HRC	High alloy steel, Tool steel 35-45 HRC	Ferritic / Martensitic Stainless steel	Austenitic Stainless steel	Grey Cast iron	Nodular Cast iron	Aluminium & Non-ferrous material	Heat Resistant and Super Alloys	Hardened steel <55 HRC
VDI GROUP		1-5	6-9	10-11	12-13	14	15-16	17-20	21-30	31-37	38-41
V _c (m/min)	ET602G	90 - 180	80 - 120	80 - 110	60 - 150	45 - 130	110 - 185	110 - 140	250 - 440	20 - 40	-
	ET602	-	80 - 120	80 - 110	-	-	110 - 185	110 - 140	-	-	25 - 50
	ET63P	-	-	-	70 - 160	55 - 140	-	-	-	25 - 45	-



MISCELLANEOUS MILLING INSERTS

▶ EDP Code MI..... Example: ADKT 150508PDTR ET602 = MI00077

SHAPE	ISO DESIGNATION	ET602	ET612	ET20U	ET20P	f _z (mm/tooth)	DIMENSIONS				GEOMETRY
							LE	W1/IC	S	RE	
	ADKT 150508PDTR	● 00077				0.16 - 0.30	13.7	9.7	5.8	0.8	
	AOMT 123604PDTR	● 00076				0.08 - 0.22	10.5	6.6	3.6	0.4	
	AOMT 123608PDTR	● 00001				0.08 - 0.24	10.5	6.6	3.6	0.8	
	APMT 1135PDTR	■ 00007	● 00331			0.15 - 0.22	9.5	6.2	3.5	0.4	
	APMT 113508PDTR	■ 00008	● 00332			0.15 - 0.25	9.5	6.2	3.5	0.8	
	APMT 1604PDTR	■ 00009	● 00333			0.16 - 0.30	14.6	9.2	4.76	0.8	
	OFMT 05T308	● 00021				0.15 - 0.25	-	12.7	4.06	0.8	
	RDMT 0602MO	● 00024				0.10 - 0.20	-	6.0	2.38	-	
	RDMT 0803MO	● 00025				0.15 - 0.25	-	8.0	3.18	-	
	RDMT 10T3MO	● 00026				0.15 - 0.28	-	10.0	3.97	-	
	RDMT 1204MO	■ 00027	● 00353			0.20 - 0.30	-	12.0	4.76	-	
	RPMT 08T2MO	■ 00037	● 00354			0.10 - 0.24	-	8.0	2.78	-	
	RPMT 10T3MO	■ 00038	● 00355			0.16 - 0.30	-	10.0	3.97	-	
	RPMT 1204MO	■ 00039	● 00356			0.20 - 0.35	-	12.0	4.76	-	
	SEKN 1203AFTN	■ 00042	● 00359			0.22 - 0.35	-	12.7	3.18	-	
	SEKN 1504AFTN-GW	■ 00164				0.22 - 0.35	-	15.88	4.8	-	
	SEKR 1203AFTN	■ 00044	● 00360			0.14 - 0.30	-	12.7	3.18	-	

■ = Available while stocks last

ISO		P			M		K		N	S	H
MATERIAL		Non-alloy steel <25 HRC	Low alloy steel 25-35 HRC	High alloy steel, Tool steel 35-45 HRC	Ferritic / Martensitic Stainless steel	Austenitic Stainless steel	Grey Cast iron	Nodular Cast iron	Aluminium & Non-ferrous ma- terial	Heat Resistant and Super Alloys	Hardened steel <55 HRC
VDI GROUP		1-5	6-9	10-11	12-13	14	15-16	17-20	21-30	31-37	38-41
V _c (m/min)	ET602	140 - 380	120 - 300	70 - 150	80 - 180	100 - 200	120 - 250	130 - 220	-	20 - 40	40 - 80
	ET612	180 - 280	150 - 250	70 - 140	120 - 200	130 - 250	120 - 270	130 - 240	-	25 - 45	-
	ET20P	-	-	-	-	-	-	-	300 - 800	-	-
	ET20U	-	-	-	-	-	-	-	300 - 800	-	-



MISCELLANEOUS MILLING INSERTS

▶ EDP Code MI..... Example: SEKT 13T3AGTN ET612 = MI00076

SHAPE	ISO DESIGNATION	ET602	ET612	ET20U	ET20P	f _z (mm/tooth)	DIMENSIONS				GEOMETRY
							LE	W1/IC	S	RE	
	SEKT 13T3AGTN	00047	00076			0.07 - 0.55	-	13.4	3.97	1.5	
	SEKT 13T3-MS	00073	00076			0.08 - 0.30	-	13.4	3.97	1.5	
	SEGT 13T3AL			00369		0.05 - 0.30	-	13.4	3.97	1.2	
	SEKT 13T3-AL				00077	0.15 - 0.30	-	13.4	3.97	1.5	
	SEMT 1204AFTN	00103				0.25 - 0.50	-	12.7	4.76	-	
	SEMT 13T3AFTN	00104				0.15 - 0.30	-	13.4	3.97	-	
	SEMT 13T3AGSN	00105				0.15 - 0.30	-	13.4	3.97	-	
	SPKN 1203EDTR	00049	00365			0.16 - 0.34	-	12.7	3.2	-	
	SPKN 1504EDTR	00051	00366			0.15 - 0.34	-	15.88	4.8	-	
	SPUN 120308	00054				0.16 - 0.34	-	12.7	3.2	-	
	TPKN 1603PDTR	00055	00367			0.15 - 0.30	-	9.52	3.18	-	
	TPKN 2204PDTR	00056				0.17 - 0.30	-	12.7	4.76	-	
	TPKR 1603PDTR	00057				0.15 - 0.28	-	9.52	3.18	-	
	TPKR 2204PDTR	00058	00368			0.18 - 0.35	-	12.7	4.76	-	
	TPUN 160308	00059				0.08 - 0.15	-	9.52	3.18	-	

■ = Available while stocks last

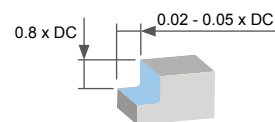
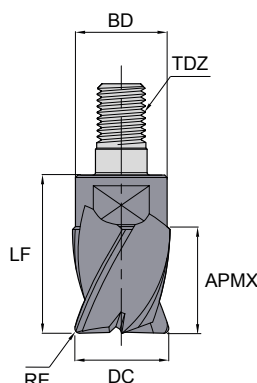
ISO		P			M		K		N	S	H
MATERIAL		Non-alloy steel <25 HRC	Low alloy steel 25-35 HRC	High alloy steel, Tool steel 35-45 HRC	Ferritic / Martensitic Stainless steel	Austenitic Stainless steel	Grey Cast iron	Nodular Cast iron	Aluminium & Non-ferrous ma- terial	Heat Resistant and Super Alloys	Hardened steel <55 HRC
	VDI GROUP	1-5	6-9	10-11	12-13	14	15-16	17-20	21-30	31-37	38-41
V _c (m/min)	ET602	140 - 380	120 - 300	70 - 150	80 - 180	100 - 200	120 - 250	130 - 220	-	20 - 40	40 - 80
	ET612	180 - 280	150 - 250	70 - 140	120 - 200	130 - 250	120 - 270	130 - 240	-	25 - 45	-
	ET20P	-	-	-	-	-	-	-	300 - 800	-	-
	ET20U	-	-	-	-	-	-	-	300 - 800	-	-



EXCHANGEABLE HEAD END MILLS

EHX4R

4FL CORNER RADIUS



P	●
M	●
K	●
N	●
S	●
H	●

Clamping torque
See P.77

- For modular shanks refer to P.78-80
► For assembly instructions refer to P.77

EDP Code	TOOL CODE	◆	DC	RE	TDZ	APMX	LF	BD	fz (mm/tooth)	Wrench Size
EHXR001	EHX4R.101001M6 GM430	X	10	0.1	M6	10	17.5	9	0.021 - 0.027	8.0mm AF
EHXR002	EHX4R.101002M6 GM430	X	10	0.2						
EHXR003	EHX4R.101003M6 GM430	X	10	0.3						
EHXR004	EHX4R.101005M6 GM430	X	10	0.5						
EHXR005	EHX4R.101010M6 GM430	X	10	1.0						
EHXR006	EHX4R.101015M6 GM430	X	10	1.5						
EHXR007	EHX4R.101020M6 GM430	X	10	2.0						
EHXR008	EHX4R.101025M6 GM430	X	10	2.5						
EHXR009	EHX4R.101030M6 GM430	X	10	3.0						
EHXR010	EHX4R.101040M6 GM430	X	10	4.0						
EHXR011	EHX4R.121201M6 GM430	X	12	0.1	M6	12	20.5	11	0.021 - 0.027	10.0mm AF
EHXR012	EHX4R.121202M6 GM430	X	12	0.2						
EHXR013	EHX4R.121203M6 GM430	X	12	0.3						
EHXR014	EHX4R.121205M6 GM430	X	12	0.5						
EHXR015	EHX4R.121210M6 GM430	X	12	1.0						
EHXR016	EHX4R.121215M6 GM430	X	12	1.5						
EHXR017	EHX4R.121220M6 GM430	X	12	2.0						
EHXR018	EHX4R.121225M6 GM430	X	12	2.5						
EHXR019	EHX4R.121230M6 GM430	X	12	3.0						
EHXR020	EHX4R.121240M6 GM430	X	12	4.0						
EHXR021	EHX4R.121250M6 GM430	X	12	5.0						

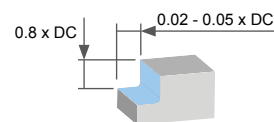
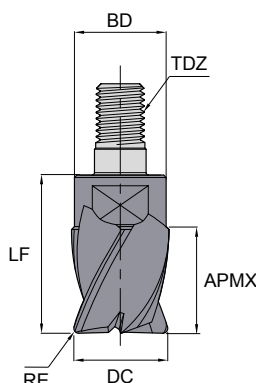
ISO		P			M		K		N	S	H
MATERIAL		Non-alloy steel <25 HRC	Low alloy steel 25-35 HRC	High alloy steel, Tool steel 35-45 HRC	Ferritic / Martensitic Stainless steel	Austenitic Stainless steel	Grey Cast iron	Nodular Cast iron	Aluminium & Non-ferrous ma- terial	Heat Resistant and Super Alloys	Hardened material <55 HRC
VDI GROUP		1-5	6-9	10-11	12-13	14	15-16	17-20	21-30	31-37	38-41
Vc (m/min)	GM310	160 - 700	120 - 550	100 - 500	-	-	160 - 550	160 - 700	-	-	-
	GM320	160 - 700	120 - 550	-	-	-	160 - 550	160 - 700	-	-	-
	GM430	110 - 340	75 - 290	70 - 275	-	-	110 - 340	110 - 340	-	-	30 - 280
	HM420	-	-	100 - 500	-	-	-	-	-	-	80 - 400
	SS330	-	-	-	90 - 130	90 - 110	-	-	-	-	-



EXCHANGEABLE HEAD END MILLS

EHX4R

4FL CORNER RADIUS



P	●
M	●
K	●
N	●
S	●
H	●

Clamping torque
See P.77

- For modular shanks refer to P.78-80
► For assembly instructions refer to P.77

EDP Code	TOOL CODE	◆	DC	RE	TDZ	APMX	LF	BD	fz (mm/tooth)	Wrench Size
EHXR022	EHX4R.161605M8 GM430	X	16	0.5	M8	16	25.5	15	0.022 - 0.027	13.0mm AF
EHXR023	EHX4R.161610M8 GM430	X	16	1.0						
EHXR024	EHX4R.161615M8 GM430	X	16	1.5						
EHXR025	EHX4R.161620M8 GM430	X	16	2.0						
EHXR026	EHX4R.202005M10 GM430	X	20	0.5	M10	20	30	19	0.023 - 0.027	17.0mm AF
EHXR027	EHX4R.202010M10 GM430	X	20	1.0						
EHXR028	EHX4R.202015M10 GM430	X	20	1.5						
EHXR029	EHX4R.202020M10 GM430	X	20	2.0						
EHXR030	EHX4R.252505M12 GM430	X	25	0.5	M12	25	37	24	0.023 - 0.027	22.0mm AF
EHXR031	EHX4R.252510M12 GM430	X	25	1.0						
EHXR032	EHX4R.252515M12 GM430	X	25	1.5						
EHXR033	EHX4R.252520M12 GM430	X	25	2.0						
EHXR034	EHX4R.303005M16 GM430	X	30	0.5	M16	30	43	29	0.023 - 0.027	27.0mm AF
EHXR035	EHX4R.303010M16 GM430	X	30	1.0						
EHXR036	EHX4R.303015M16 GM430	X	30	1.5						
EHXR037	EHX4R.303020M16 GM430	X	30	2.0						
EHXR038	EHX4R.323205M16 GM430	X	32	0.5	M16	32	45	31	0.023 - 0.026	27.0mm AF
EHXR039	EHX4R.323210M16 GM430	X	32	1.0						
EHXR040	EHX4R.323215M16 GM430	X	32	1.5						
EHXR041	EHX4R.323220M16 GM430	X	32	2.0						

ISO		P			M		K		N	S	H
MATERIAL		Non-alloy steel <25 HRC	Low alloy steel 25-35 HRC	High alloy steel, Tool steel 35-45 HRC	Ferritic / Martensitic Stainless steel	Austenitic Stainless steel	Grey Cast iron	Nodular Cast iron	Aluminium & Non-ferrous ma- terial	Heat Resistant and Super Alloys	Hardened material <55 HRC
VDI GROUP		1-5	6-9	10-11	12-13	14	15-16	17-20	21-30	31-37	38-41
Vc (m/min)	GM310	160 - 700	120 - 550	100 - 500	-	-	160 - 550	160 - 700	-	-	-
	GM320	160 - 700	120 - 550	-	-	-	160 - 550	160 - 700	-	-	-
	GM430	110 - 340	75 - 290	70 - 275	-	-	110 - 340	110 - 340	-	-	30 - 280
	HM420	-	-	100 - 500	-	-	-	-	-	-	80 - 400
	SS330	-	-	-	90 - 130	90 - 110	-	-	-	-	-



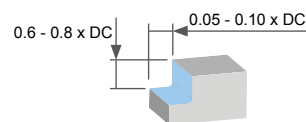
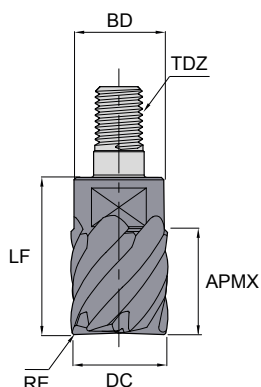
EXCHANGEABLE HEAD END MILLS

EHX6R

6FL CORNER RADIUS



- For modular shanks refer to P.78-80
- For assembly instructions refer to P.77



P	●
M	●
K	●
N	●
S	●
H	●

Clamping torque
See P.77

EDP Code	TOOL CODE	◆	DC	RE	TDZ	APMX	LF	BD	fz (mm/tooth)	Wrench Size
EHXR042	EHX6R.101003M6 GM430	X	10	0.3	M6	10	17.5	9	0.033 - 0.099	8.0mm AF
EHXR043	EHX6R.101005M6 GM430	X	10	0.5						
EHXR044	EHX6R.101010M6 GM430	X	10	1.0						
EHXR045	EHX6R.121203M6 GM430	X	12	0.3	M6	12	20.5	11	0.034 - 0.099	10.0mm AF
EHXR046	EHX6R.121205M6 GM430	X	12	0.5						
EHXR047	EHX6R.121210M6 GM430	X	12	1.0						
EHXR048	EHX6R.161605M8 GM430	X	16	0.5	M8	16	25.5	15	0.034 - 0.10	13.0mm AF
EHXR049	EHX6R.161610M8 GM430	X	16	1.0						
EHXR050	EHX6R.161615M8 GM430	X	16	1.5						
EHXR051	EHX6R.161620M8 GM430	X	16	2.0	M10	20	30	19	0.035 - 0.10	17.0mm AF
EHXR052	EHX6R.202005M10 GM430	X	20	0.5						
EHXR053	EHX6R.202010M10 GM430	X	20	1.0						
EHXR054	EHX6R.202015M10 GM430	X	20	1.5						
EHXR055	EHX6R.202020M10 GM430	X	20	2.0						

ISO		P			M		K		N	S	H
MATERIAL		Non-alloy steel <25 HRC	Low alloy steel 25-35 HRC	High alloy steel, Tool steel 35-45 HRC	Ferritic / Martensitic Stainless steel	Austenitic Stainless steel	Grey Cast iron	Nodular Cast iron	Aluminium & Non-ferrous ma- terial	Heat Resistant and Super Alloys	Hardened material <55 HRC
VDI GROUP		1-5	6-9	10-11	12-13	14	15-16	17-20	21-30	31-37	38-41
Vc (m/min)	GM310	160 - 700	120 - 550	100 - 500	-	-	160 - 550	160 - 700	-	-	-
	GM320	160 - 700	120 - 550	-	-	-	160 - 550	160 - 700	-	-	-
	GM430	110 - 340	75 - 290	70 - 275	-	-	110 - 340	110 - 340	-	-	30 - 280
	HM420	-	-	100 - 500	-	-	-	-	-	-	80 - 400
	SS330	-	-	-	90 - 130	90 - 110	-	-	-	-	-



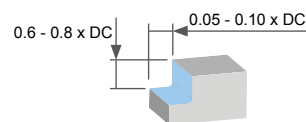
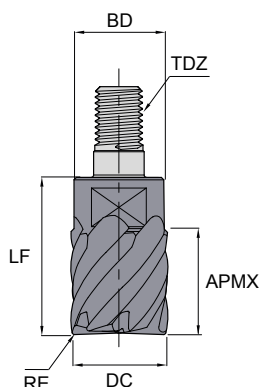
EXCHANGEABLE HEAD END MILLS

EHX6R

6FL CORNER RADIUS



- For modular shanks refer to P.78-80
- For assembly instructions refer to P.77



P	●
M	●
K	●
N	●
S	●
H	●

Clamping torque
See P.77

EDP Code	TOOL CODE	♦	DC	RE	TDZ	APMX	LF	BD	fz (mm/tooth)	Wrench Size
EHXR056	EHX6R.252505M12 GM430	X	25	0.5	M12	25	37	24	0.035 - 0.10	22.0mm AF
EHXR057	EHX6R.252510M12 GM430	X	25	1.0						
EHXR058	EHX6R.252515M12 GM430	X	25	1.5						
EHXR059	EHX6R.252520M12 GM430	X	25	2.0						
EHXR060	EHX6R.303005M16 GM430	X	30	0.5	M16	30	43	29	0.036 - 0.10	27.0mm AF
EHXR061	EHX6R.303010M16 GM430	X	30	1.0						
EHXR062	EHX6R.303015M16 GM430	X	30	1.5						
EHXR063	EHX6R.303020M16 GM430	X	30	2.0						
EHXR064	EHX6R.323205M16 GM430	X	32	0.5	M16	32	45	31	0.036 - 0.10	27.0mm AF
EHXR065	EHX6R.323210M16 GM430	X	32	1.0						
EHXR066	EHX6R.323215M16 GM430	X	32	1.5						
EHXR067	EHX6R.323220M16 GM430	X	32	2.0						

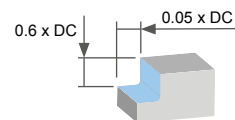
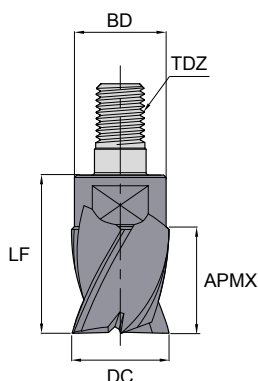
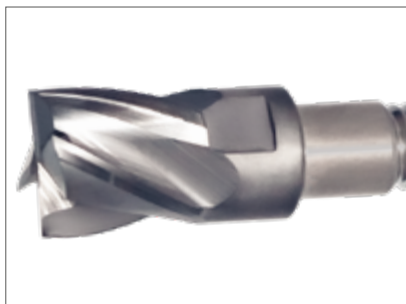
ISO		P			M		K		N	S	H
MATERIAL		Non-alloy steel <25 HRC	Low alloy steel 25-35 HRC	High alloy steel, Tool steel 35-45 HRC	Ferritic / Martensitic Stainless steel	Austenitic Stainless steel	Grey Cast iron	Nodular Cast iron	Aluminium & Non-ferrous ma- terial	Heat Resistant and Super Alloys	Hardened material <55 HRC
VDI GROUP		1-5	6-9	10-11	12-13	14	15-16	17-20	21-30	31-37	38-41
Vc (m/min)	GM310	160 - 700	120 - 550	100 - 500	-	-	160 - 550	160 - 700	-	-	-
	GM320	160 - 700	120 - 550	-	-	-	160 - 550	160 - 700	-	-	-
	GM430	110 - 340	75 - 290	70 - 275	-	-	110 - 340	110 - 340	-	-	30 - 280
	HM420	-	-	100 - 500	-	-	-	-	-	-	80 - 400
	SS330	-	-	-	90 - 130	90 - 110	-	-	-	-	-



EXCHANGEABLE HEAD END MILLS

EHX4S

4FL SQUARE CORNER



- For modular shanks refer to P.78-80
- For assembly instructions refer to P.77

Clamping torque
See P.77

P	●
M	●
K	●
N	●
S	●
H	●

EDP Code	TOOL CODE	♦	DC	TDZ	APMX	LF	BD	fz (mm/tooth)	Wrench Size
EHXS001	EHX4S.1010M6 GM430	X	10	M6	10	17.5	9	0.013 - 0.04	8.0mm AF
EHXS002	EHX4S.1212M6 GM430	X	12	M6	12	20.5	11	0.013 - 0.04	10.0mm AF
EHXS003	EHX4S.1616M8 GM430	X	16	M8	16	25.5	15	0.013 - 0.04	13.0mm AF
EHXS004	EHX4S.2020M10 GM430	X	20	M10	20	30	19	0.012 - 0.04	17.0mm AF
EHXS005	EHX4S.2525M12 GM430	X	25	M12	25	37	24	0.011 - 0.04	22.0mm AF
EHXS006	EHX4S.3030M16 GM430	X	30	M16	30	43	29	0.011 - 0.04	27.0mm AF
EHXS007	EHX4S.3232M16 GM430	X	32	M16	32	45	31	0.011 - 0.04	27.0mm AF

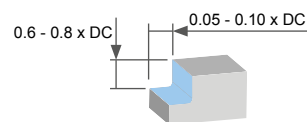
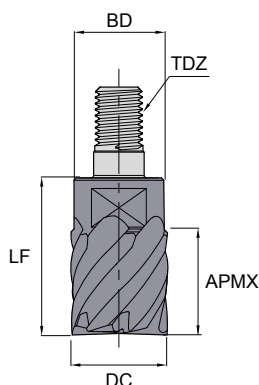
ISO		P			M		K		N	S	H
MATERIAL	VDI GROUP	Non-alloy steel <25 HRC	Low alloy steel 25-35 HRC	High alloy steel, Tool steel 35-45 HRC	Ferritic / Martensitic Stainless steel	Austenitic Stainless steel	Grey Cast iron	Nodular Cast iron	Aluminium & Non-ferrous ma- terial	Heat Resistant and Super Alloys	Hardened material <55 HRC
		1-5	6-9	10-11	12-13	14	15-16	17-20	21-30	31-37	38-41
Vc (m/min)	GM310	160 - 700	120 - 550	100 - 500	-	-	160 - 550	160 - 700	-	-	-
	GM320	160 - 700	120 - 550	-	-	-	160 - 550	160 - 700	-	-	-
	GM430	110 - 340	75 - 290	70 - 275	-	-	110 - 340	110 - 340	-	-	30 - 280
	HM420	-	-	100 - 500	-	-	-	-	-	-	80 - 400
	SS330	-	-	-	90 - 130	90 - 110	-	-	-	-	-



EXCHANGEABLE HEAD END MILLS

EHX6S

6FL SQUARE CORNER



- For modular shanks refer to P.78-80
- For assembly instructions refer to P.77

Clamping torque
See P.77

P	●
M	●
K	●
N	●
S	●
H	●

EDP Code	TOOL CODE	♦	DC	TDZ	APMX	LF	BD	fz (mm/tooth)	Wrench Size
EHXS008	EHX6S.1010M6 GM430	X	10	M6	10	17.5	9	0.033 - 0.099	8.0mm AF
EHXS009	EHX6S.1212M6 GM430	X	12	M6	12	20.5	11	0.034 - 0.099	10.0mm AF
EHXS010	EHX6S.1616M8 GM430	X	16	M8	16	25.5	15	0.034 - 0.10	13.0mm AF
EHXS011	EHX6S.2020M10 GM430	X	20	M10	20	30	19	0.035 - 0.10	17.0mm AF
EHXS012	EHX6S.2525M12 GM430	X	25	M12	25	37	24	0.035 - 0.10	22.0mm AF
EHXS013	EHX6S.3030M16 GM430	X	30	M16	30	43	29	0.036 - 0.10	27.0mm AF
EHXS014	EHX6S.3232M16 GM430	X	32	M16	32	45	31	0.036 - 0.10	27.0mm AF

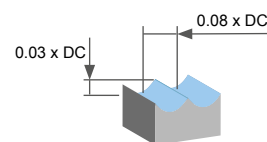
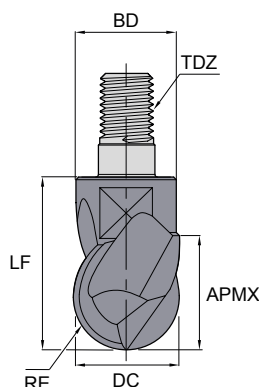
ISO		P			M		K		N	S	H
MATERIAL	VDI GROUP	Non-alloy steel <25 HRC	Low alloy steel 25-35 HRC	High alloy steel, Tool steel 35-45 HRC	Ferritic / Martensitic Stainless steel	Austenitic Stainless steel	Grey Cast iron	Nodular Cast iron	Aluminium & Non-ferrous ma- terial	Heat Resistant and Super Alloys	Hardened material <55 HRC
		1-5	6-9	10-11	12-13	14	15-16	17-20	21-30	31-37	38-41
Vc (m/min)	GM310	160 - 700	120 - 550	100 - 500	-	-	160 - 550	160 - 700	-	-	-
	GM320	160 - 700	120 - 550	-	-	-	160 - 550	160 - 700	-	-	-
	GM430	110 - 340	75 - 290	70 - 275	-	-	110 - 340	110 - 340	-	-	30 - 280
	HM420	-	-	100 - 500	-	-	-	-	-	-	80 - 400
	SS330	-	-	-	90 - 130	90 - 110	-	-	-	-	-



EXCHANGEABLE HEAD END MILLS

EHX2B**2FL BALL NOSE**

- For modular shanks refer to P.78-80
- For assembly instructions refer to P.77



P	●
M	●
K	●
N	●
S	●
H	●

Clamping torque
See P.77

EDP Code	TOOL CODE	◆	DC	RE	TDZ	APMX	LF	BD	fz (mm/tooth)	Wrench Size
EHXB001	EHX2B.1010M6 GM430	X	10	5.0	M6	10	17.5	9	0.16 - 0.199	8.0mm AF
EHXB002	EHX2B.1212M6 GM430	X	12	6.0	M6	12	20.5	11	0.17 - 0.212	10.0mm AF
EHXB003	EHX2B.1616M8 GM430	X	16	8.0	M8	16	25.5	15	0.189 - 0.238	13.0mm AF
EHXB004	EHX2B.2020M10 GM430	X	20	10.0	M10	20	30	19	0.208 - 0.264	17.0mm AF
EHXB005	EHX2B.2525M12 GM430	X	25	12.5	M12	25	37	24	0.211 - 0.27	22.0mm AF
EHXB006	EHX2B.3030M16 GM430	X	30	15.0	M16	30	43	29	0.229 - 0.299	27.0mm AF
EHXB007	EHX2B.3232M16 GM430	X	32	16.0	M16	32	45	31	0.23 - 0.3	27.0mm AF

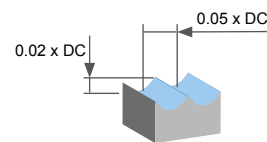
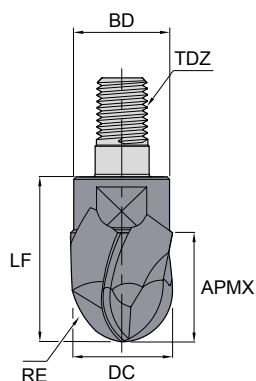
ISO		P			M		K		N	S	H
MATERIAL		Non-alloy steel <25 HRC	Low alloy steel 25-35 HRC	High alloy steel, Tool steel 35-45 HRC	Ferritic / Martensitic Stainless steel	Austenitic Stainless steel	Grey Cast iron	Nodular Cast iron	Aluminium & Non-ferrous ma- terial	Heat Resistant and Super Alloys	Hardened material <55 HRC
		1-5	6-9	10-11	12-13	14	15-16	17-20	21-30	31-37	38-41
Vc (m/min)	GM310	160 - 700	120 - 550	100 - 500	-	-	160 - 550	160 - 700	-	-	-
	GM320	160 - 700	120 - 550	-	-	-	160 - 550	160 - 700	-	-	-
	GM430	110 - 340	75 - 290	70 - 275	-	-	110 - 340	110 - 340	-	-	30 - 280
	HM420	-	-	100 - 500	-	-	-	-	-	-	80 - 400
	SS330	-	-	-	90 - 130	90 - 110	-	-	-	-	-



EXCHANGEABLE HEAD END MILLS

EHX3B

3FL BALL NOSE



- For modular shanks refer to P.78-80
- For assembly instructions refer to P.77

Clamping torque
See P.77

P	●
M	●
K	●
N	●
S	●
H	●

EDP Code	TOOL CODE	◆	DC	RE	TDZ	APMX	LF	BD	fz (mm/tooth)	Wrench Size
EHXB008	EHX3B.1010M6 GM430	X	10	5.0	M6	10	17.5	9	0.156 - 0.201	8.0mm AF
EHXB009	EHX3B.1212M6 GM430	X	12	6.0	M6	12	20.5	11	0.173 - 0.225	10.0mm AF
EHXB010	EHX3B.1616M8 GM430	X	16	8.0	M8	16	25.5	15	0.18 - 0.234	13.0mm AF
EHXB011	EHX3B.2020M10 GM430	X	20	10.0	M10	20	30	19	0.19 - 0.238	17.0mm AF
EHXB012	EHX3B.2525M12 GM430	X	25	12.5	M12	25	37	24	0.2 - 0.248	22.0mm AF
EHXB013	EHX3B.3030M16 GM430	X	30	15.0	M16	30	43	29	0.21 - 0.259	27.0mm AF
EHXB014	EHX3B.3232M16 GM430	X	32	16.0	M16	32	45	31	0.221 - 0.268	27.0mm AF

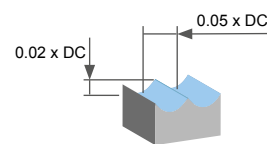
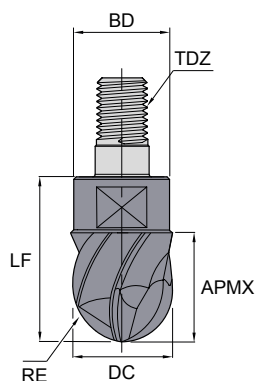
ISO		P			M		K		N	S	H
MATERIAL	VDI GROUP	Non-alloy steel <25 HRC	Low alloy steel 25-35 HRC	High alloy steel, Tool steel 35-45 HRC	Ferritic / Martensitic Stainless steel	Austenitic Stainless steel	Grey Cast iron	Nodular Cast iron	Aluminium & Non-ferrous ma- terial	Heat Resistant and Super Alloys	Hardened material <55 HRC
		1-5	6-9	10-11	12-13	14	15-16	17-20	21-30	31-37	38-41
Vc (m/min)	GM310	160 - 700	120 - 550	100 - 500	-	-	160 - 550	160 - 700	-	-	-
	GM320	160 - 700	120 - 550	-	-	-	160 - 550	160 - 700	-	-	-
	GM430	110 - 340	75 - 290	70 - 275	-	-	110 - 340	110 - 340	-	-	30 - 280
	HM420	-	-	100 - 500	-	-	-	-	-	-	80 - 400
	SS330	-	-	-	90 - 130	90 - 110	-	-	-	-	-



EXCHANGEABLE HEAD END MILLS

EHX4B

4FL BALL NOSE



- For modular shanks refer to P.78-80
- For assembly instructions refer to P.77

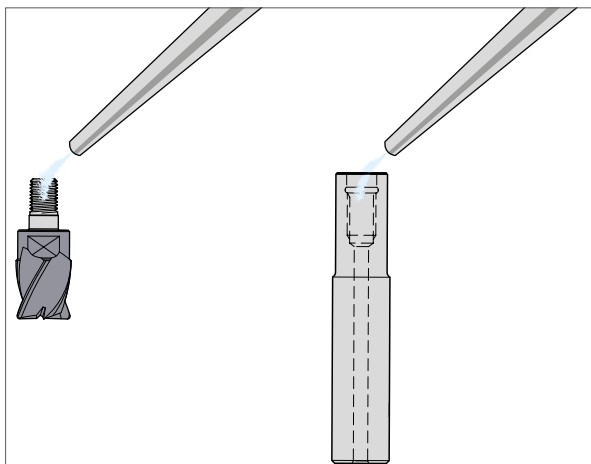
Clamping torque
See P.77

P	●
M	●
K	●
N	●
S	●
H	●

EDP Code	TOOL CODE	◆	DC	RE	TDZ	APMX	LF	BD	fz (mm/tooth)	Wrench Size
EHXB015	EHX4B.1010M6 GM430	X	10	5.0	M6	10	17.5	9	0.117 - 0.148	8.0mm AF
EHXB016	EHX4B.1212M6 GM430	X	12	6.0	M6	12	20.5	11	0.13 - 0.165	10.0mm AF
EHXB017	EHX4B.1616M8 GM430	X	16	8.0	M8	16	25.5	15	0.135 - 0.175	13.0mm AF
EHXB018	EHX4B.2020M10 GM430	X	20	10.0	M10	20	30	19	0.143 - 0.179	17.0mm AF
EHXB019	EHX4B.2525M12 GM430	X	25	12.5	M12	25	37	24	0.15 - 0.186	22.0mm AF
EHXB020	EHX4B.3030M16 GM430	X	30	15.0	M16	30	43	29	0.157 - 0.194	27.0mm AF
EHXB021	EHX4B.3232M16 GM430	X	32	16.0	M16	32	45	31	0.165 - 0.201	27.0mm AF

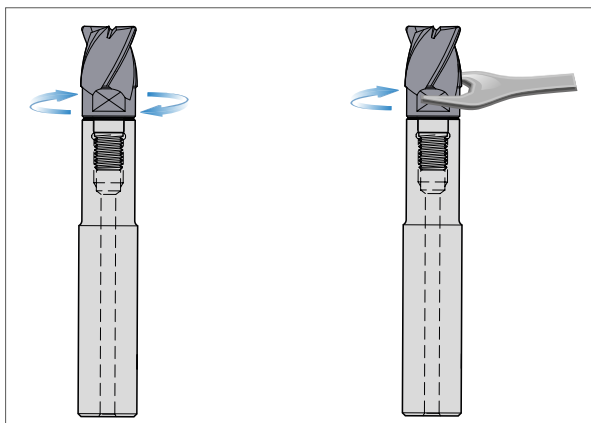
ISO		P			M		K		N	S	H
MATERIAL	VDI GROUP	Non-alloy steel <25 HRC	Low alloy steel 25-35 HRC	High alloy steel, Tool steel 35-45 HRC	Ferritic / Martensitic Stainless steel	Austenitic Stainless steel	Grey Cast iron	Nodular Cast iron	Aluminium & Non-ferrous ma- terial	Heat Resistant and Super Alloys	Hardened material <55 HRC
		1-5	6-9	10-11	12-13	14	15-16	17-20	21-30	31-37	38-41
Vc (m/min)	GM310	160 - 700	120 - 550	100 - 500	-	-	160 - 550	160 - 700	-	-	-
	GM320	160 - 700	120 - 550	-	-	-	160 - 550	160 - 700	-	-	-
	GM430	110 - 340	75 - 290	70 - 275	-	-	110 - 340	110 - 340	-	-	30 - 280
	HM420	-	-	100 - 500	-	-	-	-	-	-	80 - 400
	SS330	-	-	-	90 - 130	90 - 110	-	-	-	-	-

ASSEMBLY INSTRUCTIONS



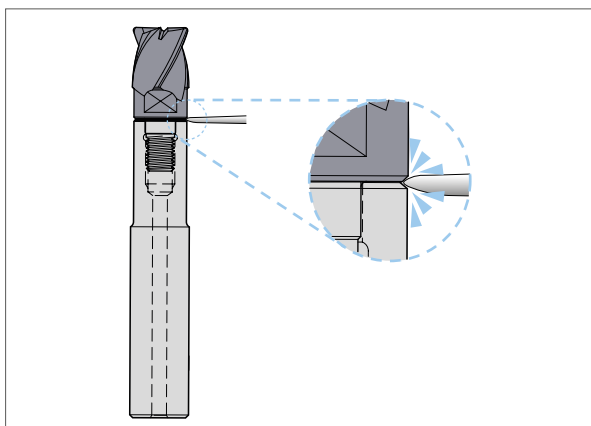
STEP 1

Ensure all mating faces are clean, grease free, and blown completely dry before assembly.



STEP 2

Screw head into shank by hand until finger tight, then use relevant spanner to tighten fully. See chart below for recommended torque settings.



STEP 3

Check with feeler gauge to ensure there is no gap between the head and shank

RECOMMENDED TORQUE SETTINGS

Head Ø (mm)	10.0	12.0	16.0	20.0	25.0	30.0	32.0
Clamping Torque (Nm)	6.5	6.5	10	12	15	20	20



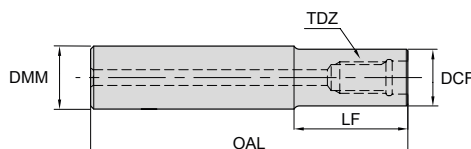
SHANKS FOR MODULAR HEADS

MSCN

CARBIDE, STRAIGHT NECK

Head Type

EHX



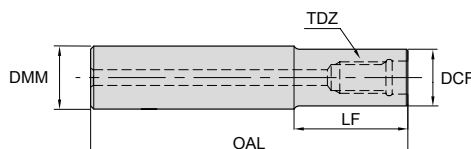
EDP Code	TOOL CODE	Head Ø	DCF	DMM	LF	OAL	TDZ
MTH0356	MSCN.102070M6	10.0	9.5	10	20	70	M6
MTH0357	MSCN.1040100M6	10.0	9.5	10	40	100	M6
MTH0358	MSCN.1070130M6	10.0	9.5	10	70	130	M6
MTH0359	MSCN.122080M6	12.0	11.5	12	20	80	M6
MTH0360	MSCN.1240100M6	12.0	11.5	12	40	100	M6
MTH0361	MSCN.1270130M6	12.0	11.5	12	70	130	M6
MTH0362	MSCN.1640100M8	16.0	15.5	16	40	100	M8
MTH0363	MSCN.1680150M8	16.0	15.5	16	80	150	M8
MTH0364	MSCN.16120200M8	16.0	15.5	16	120	200	M8
MTH0365	MSCN.2040100M10	20.0	19.5	20	40	100	M10
MTH0366	MSCN.2080150M10	20.0	19.5	20	80	150	M10
MTH0367	MSCN.20120200M10	20.0	19.5	20	120	200	M10
MTH0368	MSCN.20160250M10	20.0	19.5	20	160	250	M10
MTH0369	MSCN.2570150M12	25.0	24.3	25	70	150	M12
MTH0370	MSCN.25100200M12	25.0	24.3	25	100	200	M12
MTH0371	MSCN.25150250M12	25.0	24.3	25	150	250	M12
MTH0372	MSCN.25200300M12	25.0	24.3	25	200	300	M12
MTH0373	MSCN.3070150M16	30.0, 32.0	29	32	70	150	M16
MTH0374	MSCN.30120200M16	30.0, 32.0	29	32	120	200	M16
MTH0375	MSCN.30150250M16	30.0, 32.0	29	32	150	250	M16
MTH0376	MSCN.30200300M16	30.0, 32.0	29	32	200	300	M16
MTH0377	MSCN.30250350M16	30.0, 32.0	29	32	250	350	M16



SHANKS FOR MODULAR HEADS

MSSN

STEEL, STRAIGHT NECK



Head Type

M15HM
M200BM
G90AM
G90RKM
EHX

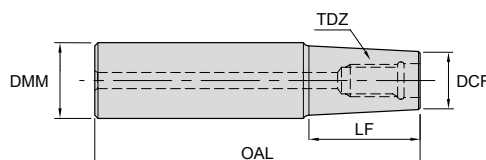
EDP Code	TOOL CODE	Head Ø	DCF	DMM	LF	OAL	TDZ
MTH0378	MSSN.102070M6	10.0	9	10	20	70	M6
MTH0379	MSSN.123090M6	12.0	11	12	30	90	M6
MTH0380	MSSN.1630100M8	16.0	15	16	30	100	M8
MTH0175	MSSN.1640100M8	16.0	13	16	40	100	M8
MTH0176	MSSN.1670130M8	16.0	15	16	70	130	M8
MTH0381	MSSN.2030100M10	20.0	19	20	30	100	M10
MTH0177	MSSN.2070130M10	20.0	18	20	70	130	M10
MTH0185	MSSN.2080160M10	20.0	18	20	80	160	M10
MTH0178	MSSN.2570150M12	25.0	23	25	70	150	M12
MTH0382	MSSN.2540115M12	25.0	24	25	40	115	M12
MTH0179	MSSN.25100200M12	25.0	23	25	100	200	M12
MTH0180	MSSN.25150250M12	25.0	23	25	150	250	M12
MTH0383	MSSN.3040125M16	30.0, 32.0	29	32	40	125	M16
MTH0181	MSSN.3270150M16	32.0 - 42.0	30	32	70	150	M16
MTH0182	MSSN.32100200M16	32.0 - 42.0	30	32	100	200	M16
MTH0183	MSSN.32150250M16	32.0 - 42.0	30	32	150	250	M16
MTH0184	MSSN.32200300M16	32.0 - 42.0	30	32	200	300	M16



SHANKS FOR MODULAR HEADS

MSTN

STEEL, TAPERED NECK



Head Type

M15HM
M200BM
G90AM
G90RKM
EHX

EDP Code	TOOL CODE	Head Ø	DCF	DMM	LF	OAL	TDZ
MTH0384	MSTN.1050100M6	10.0	9	12	50	100	M6
MTH0385	MSTN.1270130M6	12.0	11	16	70	130	M6
MTH0386	MSTN.1690150M8	16.0	15	20	90	150	M8
MTH0387	MSTN.20100170M10	20.0	19	25	100	170	M10
MTH0388	MSTN.25110200M12	25.0	24	32	110	200	M12
MTH0389	MSTN.30110200M16	30.0, 32.0	29	32	110	200	M16



SCREW INFORMATION

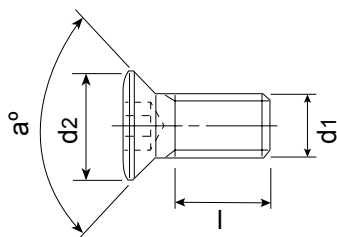


Fig.1

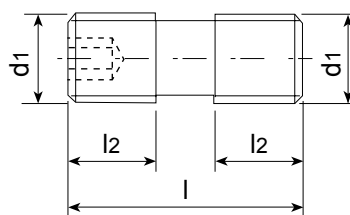


Fig.2

Screw	Fig.	d1 (Thread size)	l	a°	d2/l2	Torx/Hex size	Torque Nm
TXS2505	1	M2.5x0.45	5	60	3.5	T8	1.2
TXS2506	1	M2.5x0.45	5.8	45	3.5	T8	1.2
TXS2506.1	1	M2.5x0.45	6	60	3.5	T8	1.2
TXS2507	1	M2.5x0.45	7.7	50	3.5	T8	1.2
TXS2508	1	M2.5x0.45	5	41	3.3	T7	1.0
TXS2562	1	M2.5x0.45	6.2	60	3.4	T8	1.2
TXS3006	1	M3.0x0.5	6	45	4	T8	2.0
TXS3008	1	M3.0x0.5	8	45	4	T8	2.0
TXS3010	1	M3.0x0.5	6.1	41	4.2	T8	1.5
TXS3509	1	M3.5x0.6	8.7	60	5.3	T15	2.4
TXS3510	1	M3.5x0.6	10.5	60	4.8	T9	2.0
TXS3511	1	M3.5x0.6	10.7	60	5.3	T15	2.4
TXS3512	1	M3.5x0.6	7.4	41	4.7	T10	2.5
TXS4009	1	M4.0x0.7	9	50	5.6	T15	3.0
TXS4011	1	M4.0x0.7	11	50	5.6	T15	3.0
TXS4011.1	1	M4.0x0.7	10.8	Radius	6.8	T15	3.0
TXS4011.2	1	M4.0x0.7	11	60	3.45	T15	3.0
TXS4012	1	M4.0x0.7	12	60	5.1	T15	3.0
TXS4016	1	M4.0x0.7	10.4	41	5.8	T15	3.5
TXS4510	1	M4.5x0.75	10	55	6.5	T20	5.3
TXS4511	1	M4.5x0.75	11	45	6.4	T15	3.2
TXS5011	1	M5.0x0.8	11	50	6.6	T20	5.3
TXS5013	1	M5.0x0.8	14.1	50	6.8	T20	5.3
TXS5020	1	M5.0x0.8	12.8	41	7.3	T20	5.0
TXS6025	1	M6.0x1.0	16.6	41	8.7	T25	6.0
TXS8030	1	M8.0x1.25	19.6	41	11.2	T30	6.5
HMBV16M	2	M6.0x0.75	20	-	8.5	3.0 A/F	-



ALPHA-NUMERIC INDEX

CODE	PAGE	CODE	PAGE	CODE	PAGE
13T	65	GMF	31	ODMW	49
ADKT	66	LNHU	48	OFMT	66
AOMT	66	LNKU	48	ONHU	50
APGT	44	M1036	21	ONMU	50
APKT	45	M15HE	6	PNMU	51
APMT	66	M15HF	19-20	RDKT	52
CCGT	63	M15HM	34-35	RDKW	52
CCMT	63	M1645	23	RDMT	66
EHX2B	74	M200B	60	RPMT	66
EHX3B	75	M200BC	12	SDMT	47
EHX4B	76	M200BM	39	SDMW	47
EHX4R	68-69	M200BS	13	SEGT 12	53
EHX4S	72	M200BT	14	SEGT 13	67
EHX6R	70-71	M200H	57	SEKN	66
EHX6S	73	M200R	61	SEKR	66
ENMX	46	M200S	58-59	SEKT 12	53
G30CE	18	M200SS	15	SEKT 13	67
G43O	22	M200ST	16	SEMT	67
G45CE	18	M390E	7	SNMX	54
G45S	25	M390F	26	SPKN	67
G90AE	9	M690E	8	SPUN	67
G90AF	29	M690F	27	TCGT	64
G90ALE	10	M690M	36	TCMT	64
G90AM	37	M845	24	TPCT	55
G90RKE	11	M90LTF	28	TPKN	67
G90RKF	30	MSCN	78	TPKR	67
G90RKM	38	MSSN	79	TPKT	55
G90SMC	32-33	MSTN	80	TPUN	67
G90TC	17	ODMT	49	WNEX	56