



**MILLING TOOLS
MULTI-FUNCTION TOOLS
TURNING TOOLS**



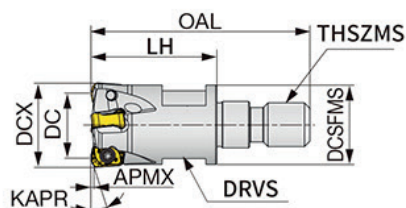
MILLING TOOLS SERIES

LNMU02 / LNMU03

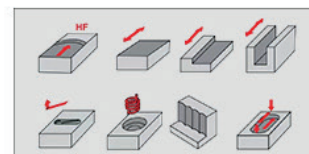


TMHLN02

High feed modular heads



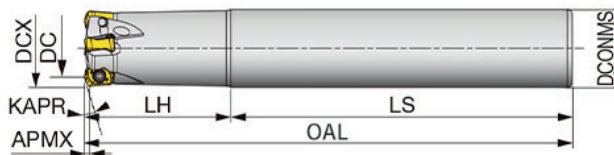
LNMU02 Series



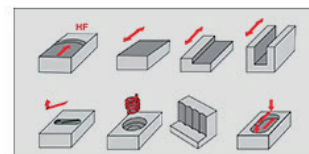
Designation	CICT	Dimension (mm)							KAPR	THSZMS	INSERT
		APMX	DCX	DC	DCSFMS	OAL	LH	DRVS			
TMHLN02-108-M04	1	0.5	8	3.95	7.8	28	17	7	17°	M4xP0.7	LNMU02...
TMHLN02-109-M04	1	0.5	9	4.95	7.8	28	17	7	17°	M4xP0.7	LNMU02...
TMHLN02-210-M05	2	0.5	10	5.85	9	29	17	7	17°	M5xP0.8	LNMU02...
TMHLN02-211-M05	2	0.5	11	6.85	9	29	17	7	17°	M5xP0.8	LNMU02...
TMHLN02-312-M06	3	0.5	12	7.8	11	32	17	9	17°	M6xP1.0	LNMU02...
TMHLN02-313-M06	3	0.5	13	8.8	11	32	17	9	17°	M6xP1.0	LNMU02...
TMHLN02-314-M06	3	0.5	14	9.8	13	32	17	10	17°	M6xP1.0	LNMU02...
TMHLN02-315-M06	3	0.5	15	10.8	13	32	17	10	17°	M6xP1.0	LNMU02...
TMHLN02-416-M08	4	0.5	16	11.8	15	43	25	12	17°	M8xP1.25	LNMU02...
TMHLN02-417-M08	4	0.5	17	12.8	15	43	25	12	17°	M8xP1.25	LNMU02...

TEHLN02

High Feed End Mills



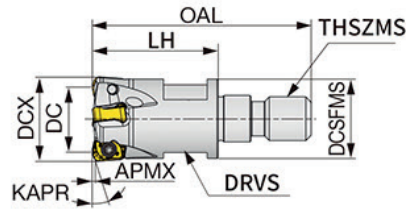
LNMU02 Series



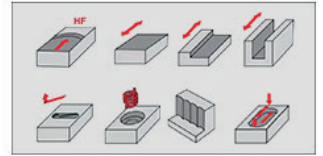
Designation	CICT	Dimension (mm)							KAPR	INSERT
		APMX	DCX	DC	DCONMS	OAL	LH	LS		
TEHLN02-108-10-100	1	0.5	8	3.61	10	100	17	83	17°	LNMU02...
TEHLN02-109-10-100	1	0.5	9	4.74	10	100	19	81	17°	LNMU02...
TEHLN02-210-10-100	2	0.5	10	5.85	10	100	22	78	17°	LNMU02...
TEHLN02-211-10-100	2	0.5	10	6.76	10	100	11	89	17°	LNMU02...
TEHLN02-312-12-80	3	0.5	12	7.68	12	80	26	54	17°	LNMU02...
TEHLN02-312-12-120	3	0.5	12	7.68	12	120	26	94	17°	LNMU02...
TEHLN02-313-12-80	3	0.5	13	8.68	12	80	13	67	17°	LNMU02...
TEHLN02-313-12-120	3	0.5	13	8.68	12	120	13	107	17°	LNMU02...
TEHLN02-314-14-120	3	0.5	14	9.51	14	120	30	90	17°	LNMU02...
TEHLN02-314-14-150	3	0.5	14	9.51	14	150	30	120	17°	LNMU02...
TEHLN02-315-14-120	3	0.5	15	10.43	14	120	15	105	17°	LNMU02...
TEHLN02-315-14-160	3	0.5	15	10.43	14	160	15	145	17°	LNMU02...
TEHLN02-416-16-120	4	0.5	16	11.35	16	120	35	85	17°	LNMU02...
TEHLN02-416-16-160	4	0.5	16	11.35	16	160	35	125	17°	LNMU02...
TEHLN02-417-16-120	4	0.5	17	12.27	16	120	17	103	17°	LNMU02...
TEHLN02-417-16-160	4	0.5	17	12.27	16	160	17	143	17°	LNMU02...

TMHLN03

High feed modular heads



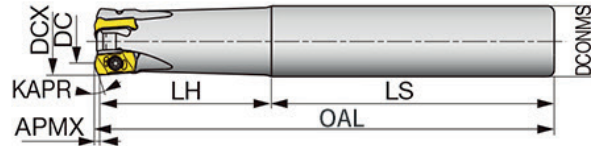
LNMU03 Series



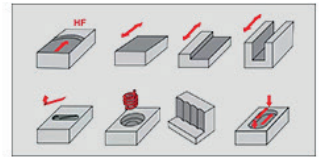
Designation	CICT	Dimension (mm)							KAPR	THSZMS	INSERT
		APMX	DCX	DC	DCSFMS	OAL	LH	DRVS			
TMHLN03-216-M08	2	1	16	9.6	15	43	25	12	15°	M8xP1.25	LNMU03...
TMHLN03-217-M08	2	1	17	10.5	15	43	25	12	17°	M8xP1.25	LNMU03...
TMHLN03-218-M08	2	1	18	11.5	15	43	25	12	17°	M8xP1.25	LNMU03...
TMHLN03-320-M10	3	1	20	13.5	19	49	29	15	17°	M10xP1.5	LNMU03...
TMHLN03-322-M10	3	1	22	15.5	19	49	29	15	17°	M10xP1.5	LNMU03...
TMHLN03-425-M12	4	1	25	18.5	24	57	35	19	17°	M12xP1.75	LNMU03...
TMHLN03-426-M12	4	1	26	19.5	24	57	35	19	17°	M12xP1.75	LNMU03...
TMHLN03-528-M12	5	1	28	21.5	24	57	35	19	17°	M12xP1.75	LNMU03...
TMHLN03-532-M16	5	1	32	25.5	31	63	38	24	17°	M16xP2.0	LNMU03...
TMHLN03-635-M16	6	1	35	28.5	31	63	38	24	17°	M16xP2.0	LNMU03...

TEHLN03

High Feed End Mills



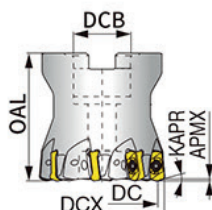
LNMU03 Series



Designation	CICT	Dimension (mm)							KAPR	INSERT
		APMX	DCX	DC	DCONMS	OAL	LH	LS		
TEHLN03-216-16-100	2	1	16	9.6	16	100	30	70	17°	LNMU03...
TEHLN03-216-16-120	2	1	16	9.6	16	120	30	90	17°	LNMU03...
TEHLN03-216-16-150	2	1	16	9.6	16	150	30	120	17°	LNMU03...
TEHLN03-217-16-100	2	1	17	10.5	16	100	20	80	17°	LNMU03...
TEHLN03-217-16-120	2	1	17	10.5	16	120	20	100	17°	LNMU03...
TEHLN03-217-16-150	2	1	17	10.5	16	150	20	130	17°	LNMU03...
TEHLN03-320-20-100	3	1	20	13.5	20	100	30	70	17°	LNMU03...
TEHLN03-320-20-130	3	1	20	13.5	20	130	50	80	17°	LNMU03...
TEHLN03-320-20-160	3	1	20	13.5	20	160	50	110	17°	LNMU03...
TEHLN03-321-20-130	3	1	21	14.5	20	130	35	95	17°	LNMU03...
TEHLN03-321-20-160	3	1	21	14.5	20	160	35	125	17°	LNMU03...
TEHLN03-425-25-100	4	1	25	18.5	25	100	37	63	17°	LNMU03...
TEHLN03-425-25-140	4	1	25	18.5	25	140	60	80	17°	LNMU03...
TEHLN03-425-25-200	4	1	25	18.5	25	200	60	140	17°	LNMU03...
TEHLN03-426-25-140	4	1	26	19.5	25	140	30	110	17°	LNMU03...
TEHLN03-426-25-200	4	1	26	19.5	25	200	30	170	17°	LNMU03...
TEHLN03-430-25-150	4	1	30	23.5	25	150	30	120	17°	LNMU03...
TEHLN03-532-32-150	5	1	32	25.5	32	150	70	80	17°	LNMU03...
TEHLN03-532-32-200	5	1	32	25.5	32	200	70	130	17°	LNMU03...
TEHLN03-533-32-150	5	1	33	26.5	32	150	30	120	17°	LNMU03...
TEHLN03-533-32-200	5	1	33	26.5	32	200	30	170	17°	LNMU03...
TEHLN03-635-32-160	6	1	35	28.5	32	160	40	120	17°	LNMU03...
TEHLN03-635-32-200	6	1	35	28.5	32	150	40	110	17°	LNMU03...

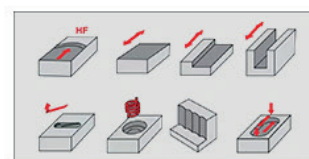
TFHLN03

High Feed Face Mills



C.H.

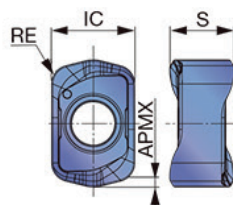
LNMU03 Series



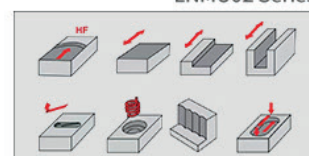
Designation	CICT	Dimension (mm)						KAPR	INSERT
		APMX	DCX	DC	DCB	OAL	C.H.		
TFHLN03-635-16	6	1	35	28.6	16	40	NO	17°	LNMU03...
TFHLN03-635-16-C	6	1	35	28.6	16	40	YES	17°	LNMU03...
TFHLN03-640-16	6	1	40	33.6	16	40	NO	17°	LNMU03...
TFHLN03-640-16-C	6	1	40	33.6	16	40	YES	17°	LNMU03...
TFHLN03-645-16	6	1	45	38.6	16	40	NO	17°	LNMU03...
TFHLN03-645-16-C	6	1	45	38.6	16	40	YES	17°	LNMU03...
TFHLN03-850-22	8	1	50	43.6	22	40	NO	17°	LNMU03...
TFHLN03-850-22-C	8	1	50	43.6	22	40	YES	17°	LNMU03...
TFHLN03-855-22	8	1	55	48.6	22	40	NO	17°	LNMU03...
TFHLN03-855-22-C	8	1	55	48.6	22	40	YES	17°	LNMU03...
TFHLN03-863-22	8	1	63	56.6	22	40	NO	17°	LNMU03...
TFHLN03-863-22-C	8	1	63	56.6	22	40	YES	17°	LNMU03...
TFHLN03-1070-22	10	1	70	63.6	22	40	NO	17°	LNMU03...
TFHLN03-1070-22-C	10	1	70	63.6	22	40	YES	17°	LNMU03...
TFHLN03-1080-27	10	1	80	73.6	27	50	NO	17°	LNMU03...
TFHLN03-1080-27-C	10	1	80	73.6	27	50	YES	17°	LNMU03...

LNMU0202

High Feed Milling Inserts



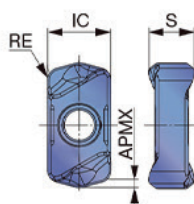
LNMU02 Series



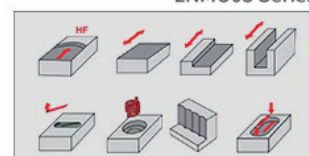
Designation	Dimension (mm)						Grade	
	IC	S	RE	APMX	Screw	Wrench	TC3320	TC5520
LNMU0202ER-MM	4	3.1	0.9	0.5	TSA-18040-1	TWA-T6	●	●

LNMU0303

High Feed Milling Inserts



LNMU03 Series



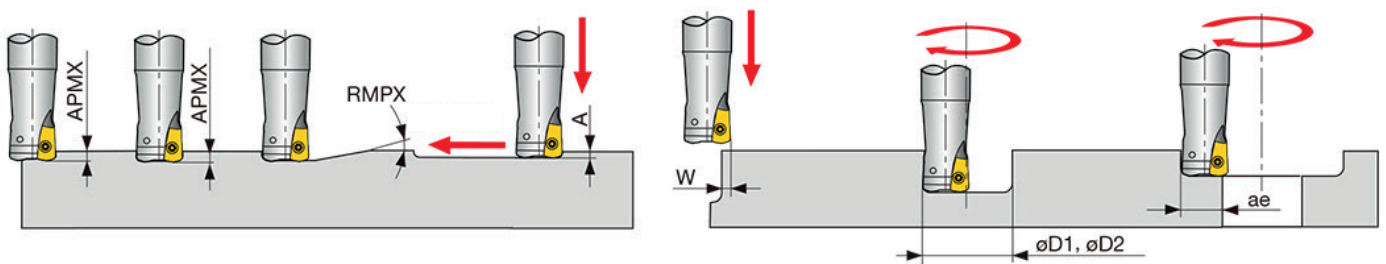
Designation	Dimension (mm)						Grade	
	IC	S	RE	APMX	Screw	Wrench	TC3320	TC5520
LNMU0303ER-MJ	6	4.3	1.2	1	TSA-25070-1	TWA-T8	●	●

LNMU

LNMU High Feed Series

Cutting Conditions

ISO	Material	Hardness	Vc (m/min)		fz (mm/t)		Plunging	
			LNMU02	LNMU03	LNMU02	LNMU03	LNMU02	LNMU03
P	S45C, S55C ... C45, C55 ...	-300HB	100-300	100-300	0.2-1.2	0.5-1.5	0.06	0.1
	SCM440, SCr415 ... 42CrMo4 ...	-300HB	100-300	100-300	0.2-1.2	0.5-1.5	0.06	0.1
	NAK80, PX5 ...	30-40HRC	100-200	100-200	0.2-0.8	0.5-1.0	0.06	0.1
M	SUS304, SUS316 ... X5CrNi18-9 X5CrNiMo17-12-2 ...	-200HB	100-150	80-150	0.2-0.8	0.3-0.8	0.06	0.1
K	FC250, FC300 ... 250, 300 ...	150-250HB	100-300	100-300	0.2-1.2	0.5-1.5	0.06	0.1
	FCD400 ... 400-15, 600-3 ...	150-250HB	80-200	80-200	0.2-1.2	0.5-1.5	0.06	0.1
S	Ti-6Al-4V ...	-40HRC	30-60	30-60	0.2-0.7	0.3-0.7	0.05	0.08
	Inconel, Hastelloy...	-40HRC	20-50	20-50	0.1-0.3	0.1-0.3	0.03	0.05
H	SKD61 ... X40CrMoV5-1 ...	40-50HRC	80-150	80-150	0.1-0.5	0.1-0.5	0.03	0.05
	SKD11 ... X153CrMoV12...	50-60HRC	50-70	50-70	0.1-0.3	0.03-0.2	0.03	0.03



LNMU02	DCX	APMX	RMPX	A	W	D1	D2	ae
TEHLN02-108-10...	8	0.5	1.07	0.15	2	10	13.2	5.87
TEHLN02-210-10...	10	0.5	2.8	0.15	2	13.8	17	7.82
TEHLN02-312-12...	12	0.5	1.9	0.15	2	17.8	21	9.81
TEHLN02-416-16...	16	0.5	1.2	0.15	2	25.8	29	13.8

LNMU03	DCX	APMX	RMPX	A	W	D1	D2	ae
TEHLN03-216-16...	16	1	2.1°	0.3	3.5	22	30	12.5
TEHLN03-217-16...	17	1	1.7°	0.3	3.5	24	32	13.5
TEHLN03-320-20...	20	1	1.3°	0.3	3.5	30	38	16.5
TEHLN03-425-25...	25	1	1.0°	0.3	3.5	40	48	21.5
TEHLN03-532-32...	32	1	0.7°	0.3	3.5	54	62	28.5
TFHLN03-640...	40	1	0.5°	0.3	3.5	70	78	36.5
TFHLN03-850...	50	1	0.4°	0.3	3.5	90	98	46.5

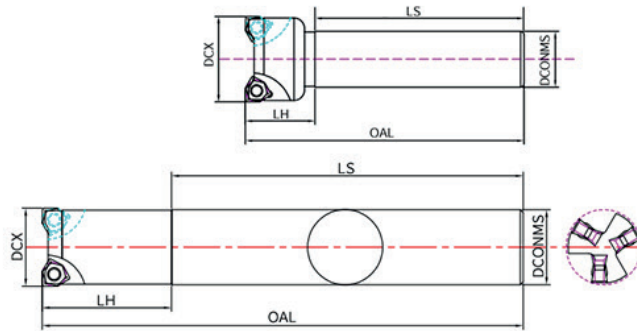
MILLING TOOLS SERIES

**WNMU04 / WNMU05 / WNMU06 /
WNMU08 / ZNMU08'**

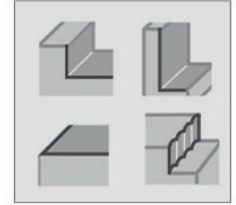


TE90WN04

Low Resistance End Mill Cutter



WNUMU04 Series

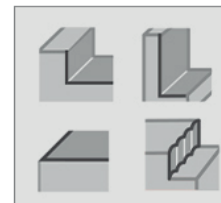
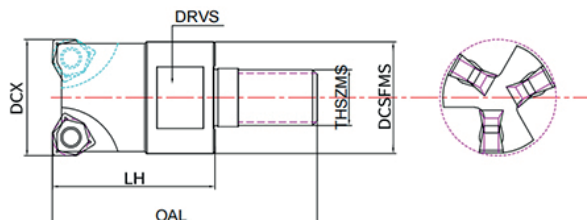


Designation	CICT	Dimension (mm)							INSERT
		APMX	DCX	DC	DCONMS	OAL	LH	LS	
TE90WN04-216-16-80-MT	2	4	16	16	16	80	20	60	WNUMU04...
TE90WN04-217-16-80-MT	2	4	17	17	16	80	20	60	WNUMU04...
TE90WN04-218-16-80-MT	2	4	18	18	16	80	20	60	WNUMU04...
TE90WN04-219-16-80-MT	2	4	19	19	16	80	20	60	WNUMU04...
TE90WN04-320-16-80-MT	3	4	20	20	16	80	20	60	WNUMU04...
TE90WN04-321-32-80-MT	3	4	21	21	16	80	20	60	WNUMU04...
TE90WN04-322-16-80-MT	3	4	22	22	16	80	20	60	WNUMU04...
TE90WN04-323-16-80-MT	3	4	23	23	16	80	20	60	WNUMU04...
TE90WN04-324-16-80-MT	3	4	24	24	16	80	20	60	WNUMU04...
TE90WN04-325-16-80-MT	3	4	25	25	16	80	20	60	WNUMU04...
TE90WN04-326-16-80-MT	3	4	26	26	16	80	20	60	WNUMU04...
TE90WN04-428-32-80-MT	4	4	28	28	16	80	20	60	WNUMU04...
TE90WN04-430-16-80-MT	4	4	30	30	16	80	20	60	WNUMU04...
TE90WN04-432-16-80-MT	4	4	32	32	16	80	20	60	WNUMU04...
TE90WN04-535-16-80-MT	5	4	35	35	16	80	20	60	WNUMU04...
TE90WN04-540-16-80-MT	5	4	40	40	16	80	20	60	WNUMU04...
TE90WN04-216-16-120	2	4	16	16	16	120	35	85	WNUMU04...
TE90WN04-216-16-160	2	4	16	16	16	160	35	125	WNUMU04...
TE90WN04-216-16-200	2	4	16	16	16	200	35	165	WNUMU04...
TE90WN04-217-16-120	2	4	17	17	16	120	17	103	WNUMU04...
TE90WN04-217-16-160	2	4	17	17	16	160	17	143	WNUMU04...
TE90WN04-217-16-200	2	4	17	17	16	200	22	178	WNUMU04...
TE90WN04-320-20-120	3	4	20	20	20	120	44	76	WNUMU04...
TE90WN04-320-20-160	3	4	20	20	20	160	44	116	WNUMU04...
TE90WN04-320-20-200	3	4	20	20	20	200	44	156	WNUMU04...
TE90WN04-321-20-120	3	4	21	21	20	120	21	99	WNUMU04...
TE90WN04-321-20-160	3	4	21	21	20	160	21	139	WNUMU04...
TE90WN04-321-20-200	3	4	21	21	20	200	22	178	WNUMU04...
TE90WN04-325-25-120	3	4	25	25	25	120	55	65	WNUMU04...
TE90WN04-325-25-160	3	4	25	25	25	160	55	105	WNUMU04...
TE90WN04-325-25-200	3	4	25	25	25	200	55	145	WNUMU04...
TE90WN04-326-25-120	3	4	26	26	25	120	26	94	WNUMU04...
TE90WN04-326-25-160	3	4	26	26	25	160	26	134	WNUMU04...
TE90WN04-326-25-200	3	4	26	26	25	200	26	174	WNUMU04...
TE90WN04-432-32-120	4	4	32	32	32	120	64	56	WNUMU04...
TE90WN04-432-32-160	4	4	32	32	32	160	70	96	WNUMU04...
TE90WN04-432-32-200	4	4	32	32	32	200	70	130	WNUMU04...
TE90WN04-433-32-120	4	4	33	33	32	120	33	87	WNUMU04...
TE90WN04-433-32-160	4	4	33	33	32	160	33	127	WNUMU04...
TE90WN04-433-32-200	4	4	33	33	32	200	33	167	WNUMU04...

TM90WN04

Low Resistance Modular Head

WNMU04 Series

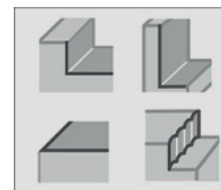
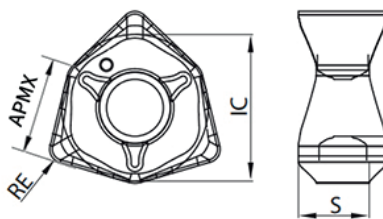
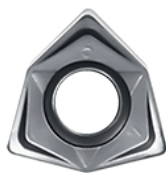


Designation	CICT	Dimension (mm)							THSZMS	INSERT
		APMX	DCX	DC	DCSFMS	OAL	LH	DRVS		
TM90WN04-216-M08	2	4	16	16	15	43	25	12	M8xP1.25	WNMU04...
TM90WN04-217-M08	2	4	17	17	15	43	25	12	M8xP1.25	WNMU04...
TM90WN04-320-M10	3	4	20	20	19	49	29	15	M10xP1.5	WNMU04...
TM90WN04-321-M10	3	4	21	21	19	49	29	15	M10xP1.5	WNMU04...
TM90WN04-325-M12	3	4	25	25	24	57	35	19	M12xP1.75	WNMU04...
TM90WN04-326-M12	3	4	26	26	24	57	35	19	M12xP1.75	WNMU04...
TM90WN04-432-M16	4	4	32	32	31	63	38	24	M16xP2.0	WNMU04...
TM90WN04-433-M16	4	4	33	33	31	63	38	24	M16xP2.0	WNMU04...
TM90WN04-435-M16	4	4	35	35	31	63	38	24	M16xP2.0	WNMU04...

WNMU04/06

Low Resistance Milling Inserts

WNMU04/06 Series

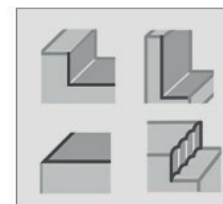
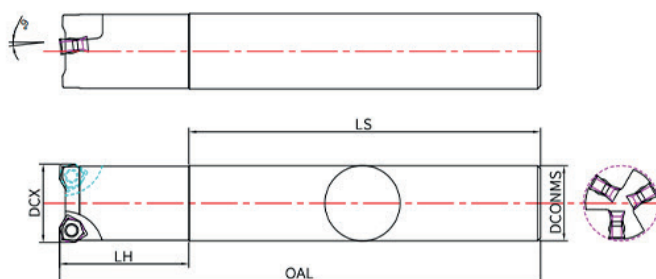


Designation	Dimension (mm)						Grade	
	IC	S	RE	APMX	Screw	Wrench	BC3320	BC5520
WNMU040304-GM	6.70	3.31	0.4	4	TSA-25060-1	TWA-T8	○	○
WNMU060408-GM	11.66	4	0.8	6	TSA-35100-1	TWA-T15	○	○

TE90WN06

Low Resistance End Mill Cutter

WNMU06 Series

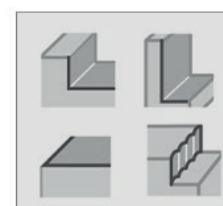
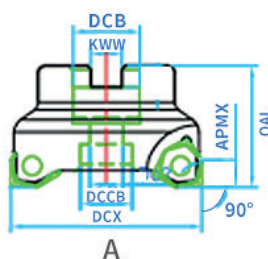


Designation	CICT	Dimension (mm)							INSERT
		APMX	DCX	DC	DCONMS	OAL	LH	LS	
TE90WN06-225-25-120	2	6	25	25	25	120	55	65	WNMU06...
TE90WN06-225-25-160	2	6	25	25	25	160	55	105	WNMU06...
TE90WN06-225-25-200	2	6	25	25	25	200	55	145	WNMU06...
TE90WN06-226-25-160	2	6	26	26	25	160	26	134	WNMU06...
TE90WN06-226-25-200	2	6	26	26	25	200	26	174	WNMU06...
TE90WN06-332-32-160	3	6	32	32	32	160	70	90	WNMU06...
TE90WN06-332-32-200	3	6	32	32	32	200	70	130	WNMU06...
TE90WN06-333-32-160	3	6	33	33	32	160	33	127	WNMU06...
TE90WN06-333-32-200	3	6	33	33	32	200	33	167	WNMU06...

TF90WN06

Low Resistance Milling Cutter

WNMU06 Series

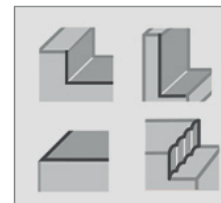
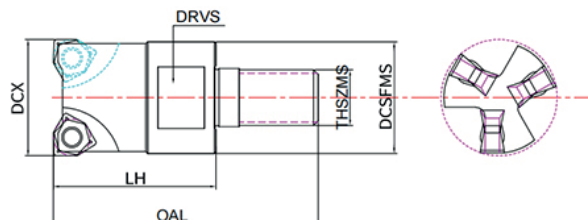


Designation	CICT	Dimension (mm)							Angel	INSERT
		APMX	DCX	DCB	OAL	DCCB	KWW	TYPE		
TF90WN06-440-16	4	6	40	16	40	14	8.4	A	90°	WNMU06...
TF90WN06-550-22	5	6	50	22	40	17	10.4	A	90°	WNMU06...
TF90WN06-663-22	6	6	63	22	40	17	10.4	A	90°	WNMU06...
TF90WN06-880-27	8	6	80	27	50	34	12.4	A	90°	WNMU06...

TM90WN05

Low Resistance Modular heads

WNMU05 Series

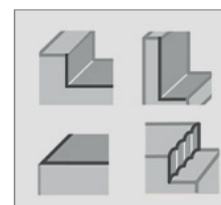
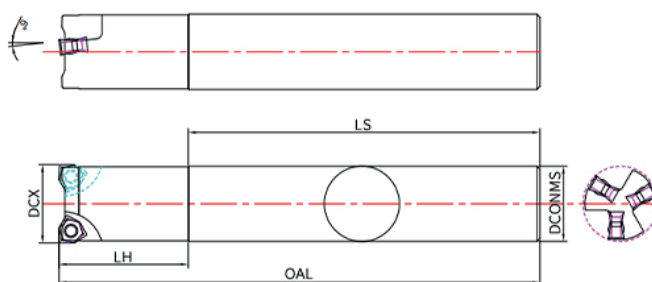


Designation	CICT	Dimension (mm)							Angel	INSERT
		APMX	DCX	LH	OAL	DCSFMS	DRVS	THSZMS		
TM90WN05-225-M12	2	5	25	35	57	24	19	M12	90°	WNMU05...
TM90WN05-226-M12	2	5	26	36	57	24	19	M12	90°	WNMU05...
TM90WN05-332-M16	3	5	32	38	63	31	24	M16	90°	WNMU05...
TM90WN05-333-M16	3	5	33	38	63	31	24	M16	90°	WNMU05...
TM90WN05-435-M16	4	5	35	38	63	31	24	M16	90°	WNMU05...

TE90WN05

Low Resistance End Mills

WNMU05 Series



Designation	CICT	Dimension (mm)							Angel	INSERT
		APMX	DCX	DC	DCONMS	OAL	LH	LS		
TE90WN05-225-25-120	2	5	25	25	25	120	55	65	90°	WNMU05...
TE90WN05-225-25-160	2	5	25	25	25	160	55	105	90°	WNMU05...
TE90WN05-226-25-120	2	5	26	26	25	120	26	94	90°	WNMU05...
TE90WN05-226-25-160	2	5	26	26	25	160	26	134	90°	WNMU05...
TE90WN05-226-25-200	2	5	26	26	25	200	26	174	90°	WNMU05...
TE90WN05-332-32-160	3	5	32	32	32	160	70	90	90°	WNMU05...
TE90WN05-332-32-200	3	5	32	32	32	200	70	130	90°	WNMU05...
TE90WN05-333-32-160	3	5	33	33	32	160	33	127	90°	WNMU05...
TE90WN05-333-32-200	3	5	33	33	32	200	33	167	90°	WNMU05...

TF90WN08

Low Resistance Face Mills

WNUMU08 Series

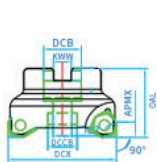


Fig.1

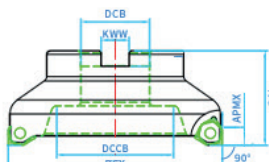


Fig.2

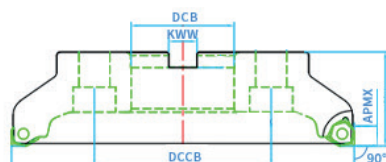
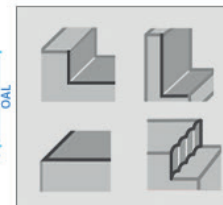


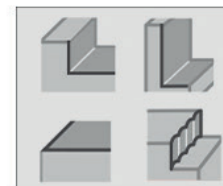
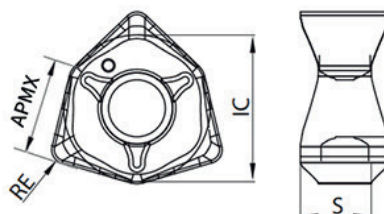
Fig.3



Designation	CICT	Dimension (mm)							Angel	INSERT
		APMX	DCX	KWW	DCB	OAL	DCCB	Type		
TF90WN05-440-16	5	5	40	8.4	16	40	14	Fig.1	90°	WNUMU05...
TF90WN05-550-22	5	5	50	10.4	22	40	17	Fig.1	90°	WNUMU05...
TF90WN05-663-22	6	5	63	10.4	22	40	17	Fig.1	90°	WNUMU05...
TF90WN05-1080-27	10	5	80	12.4	27	50	34	Fig.1	90°	WNUMU05...
TF90WN08-450-22	4	8	50	10.4	22	40	17	Fig.1	90°	WNUMU08...
TF90WN08-563-22	5	8	63	10.4	22	40	17	Fig.1	90°	WNUMU08...
TF90WN08-680-27	6	8	80	12.4	27	50	34	Fig.1	90°	WNUMU08...
TF90WN08-7100-32	7	8	100	14.4	32	50	42	Fig.1	90°	WNUMU08...
TF90WN08-8125-40	8	8	125	16.4	40	63	-	Fig.2	90°	WNUMU08...
TF90WN08-10160-40	10	8	160	16.4	40	63	-	Fig.2	90°	WNUMU08...
TF90WN08-12200-60	12	8	200	25.7	60	63	101.6	Fig.3	90°	WNUMU08...
TF90WN08-14250-60	14	8	250	25.7	60	63	101.6	Fig.3	90°	WNUMU08...

WNUMU080608

Low Resistance Face Mill Inserts

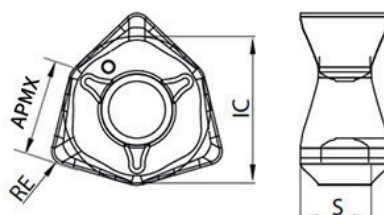
WNUMU08系列
WNUMU08 Series

Designation	Dimension (mm)						Grade	
	IC	S	RE	APMX	Screw	Wrench	BC3320	BC5520
WNUMU080608-GM	14.0	6.7	0.8	8	TSA-50120-1	TWA-T15	○	○

WNUMU050408

Low Resistance Face Mill Inserts

WNUMU05 Series

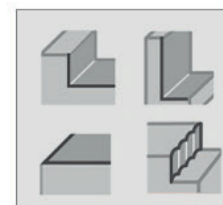
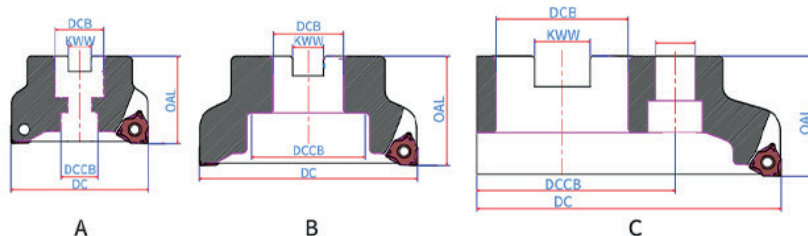


Designation	Dimension (mm)						Grade	
	IC	S	RE	APMX	Screw	Wrench	BC3320	BC5520
WNUMU050408-GM	8.8	4.2	0.8	5	TSA-30064-1	TWA-T8	○	○

TF90ZN08

Low Resistance Milling Cutter

ZNMU08 Series

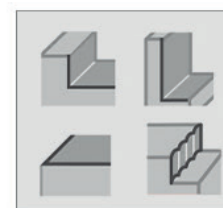
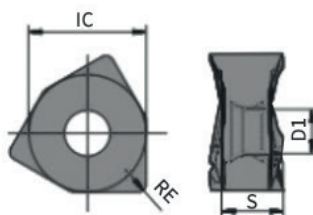


Designation	CICT	Dimension (mm)							Angel	INSERT
		APMX	DC	DCB	OAL	DCCB	KWW	Type		
TF90ZN08-450-22	4	7.3	50	22	40	17	10.4	A	90°	ZNMU08...
TF90ZN08-563-22	5	7.3	63	22	40	17	10.4	A	90°	ZNMU08...
TF90ZN08-680-27	6	7.3	80	27	50	34	12.4	A	90°	ZNMU08...
TF90ZN08-7100-32	7	7.3	100	32	50	42	14.4	A	90°	ZNMU08...
TF90ZN08-8125-40	8	7.3	125	40	55	50	16.4	B	90°	ZNMU08...
TF90ZN08-10160-40	10	7.3	160	40	55	80	16.4	B	90°	ZNMU08...
TF90ZN08-12200-60	12	7.3	200	60	55	101.6	25.8	C	90°	ZNMU08...
TF90ZN08-14250-60	14	7.3	250	60	55	101.6	25.8	C	90°	ZNMU08...

ZNMU0806

Milling Inserts

ZNMU08 Series



Designation	Dimension (mm)							Grade	
	IC	S	RE	APMX	D1	Screw	Wrench	TC3320	TC5520
ZNMU080608-GM	12	6.35	0.8	7.3				○	○

WNMU080608

Low Resistance Face Mill Inserts

WNMU08 Series

Cutting Conditions

ISO	Material	Hardness	Vc (m/min)	fz (mm/t)
P	S45C, S55C ... C45, C55 ...	-300HB	120-250	0.1-0.3
	SCM440, SCr415 ... 42CrMo4 ...	-300HB	100-220	0.1-0.3
	NAK80, PX5 ...	30-40HRC	80-180	0.1-0.25
M	SUS304, SUS316 ... X5CrNi18-9 X5CrNiMo17-12-2 ...	-200HB	100-250	0.1-0.25
K	FC250, FC300 ... 250, 300 ...	150-250HB	120-250	0.1-0.3
	FCD400 ... 400-15, 600-3 ...	150-250HB	100-200	0.1-0.3
S	Ti-6Al-4V ...	-40HRC	20-50	0.1-0.2
	Inconel, Hastelloy...	-40HRC	20-50	0.1-0.2
H	SKD61 ... X40CrMoV5-1 ...	40-50HRC	80-150	0.1-0.2
	SKD11 ... X153CrMoV12...	50-60HRC	50-70	0.1-0.2

WNMU050408

Low Resistance Face Mill Inserts

WNMU05 Series

Cutting Conditions

ISO	Material	Hardness	Vc (m/min)	fz (mm/t)
P	S45C, S55C ... C45, C55 ...	-300HB	120-250	0.1-0.25
	SCM440, SCr415 ... 42CrMo4 ...	-300HB	100-220	0.1-0.2
	NAK80, PX5 ...	30-40HRC	80-180	0.1-0.2
M	SUS304, SUS316 ... X5CrNi18-9 X5CrNiMo17-12-2 ...	-200HB	100-250	0.1-0.2
K	FC250, FC300 ... 250, 300 ...	150-250HB	120-250	0.1-0.25
	FCD400 ... 400-15, 600-3 ...	150-250HB	100-200	0.1-0.2
S	Ti-6Al-4V ...	-40HRC	20-50	0.1-0.2
	Inconel, Hastelloy...	-40HRC	20-50	0.1-0.2
H	SKD61 ... X40CrMoV5-1 ...	40-50HRC	80-150	0.1-0.2
	SKD11 ... X153CrMoV12...	50-60HRC	50-70	0.1-0.2

MILLING TOOLS SERIES

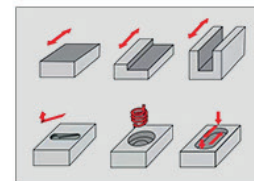
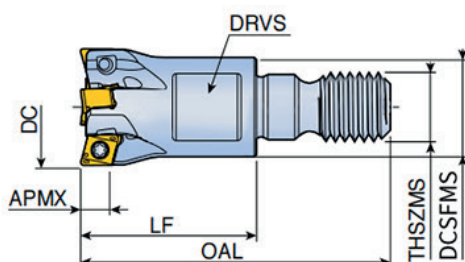
4NKT04 / 4NKT06



TM904N04

High Ramping Modular Heads

4NKT04 Series

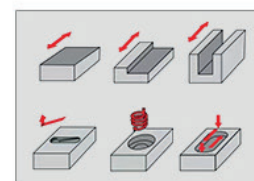
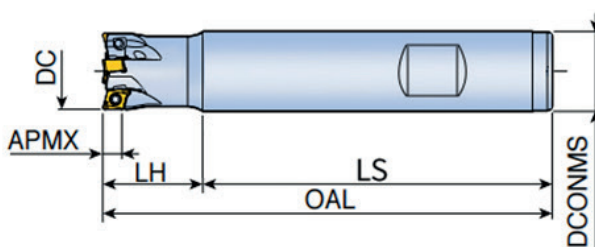


Designation	CICT	Dimension (mm)							THSZMS	INSERT
		APMX	DCX	DC	DCSFMS	OAL	LF	DRVS		
TM904N04-108-M4	1	3.5	8	8	7.8	28	17	7	M4xP0.7	4NKT04...
TM904N04-109-M4	1	3.5	9	9	7.8	28	17	7	M4xP0.7	4NKT04...
TM904N04-210-M5	2	3.5	10	10	9	29	17	7	M5xP0.8	4NKT04...
TM904N04-211-M5	2	3.5	11	11	9	29	17	7	M5xP0.8	4NKT04...
TM904N04-312-M6	3	3.5	12	12	11	32	17	9	M6xP1.0	4NKT04...
TM904N04-313-M6	3	3.5	13	13	11	32	17	9	M6xP1.0	4NKT04...
TM904N04-314-M6	3	3.5	14	14	13	32	17	10	M6xP1.0	4NKT04...
TM904N04-315-M6	3	3.5	15	15	13	32	17	10	M6xP1.0	4NKT04...
TM904N04-416-M8	4	3.5	16	16	15	43	25	12	M8xP1.25	4NKT04...
TM904N04-417-M8	4	3.5	17	17	15	43	25	12	M8xP1.25	4NKT04...

TE904N04

High Ramping End Mills

4NKT04 Series

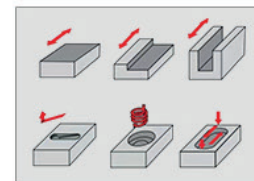
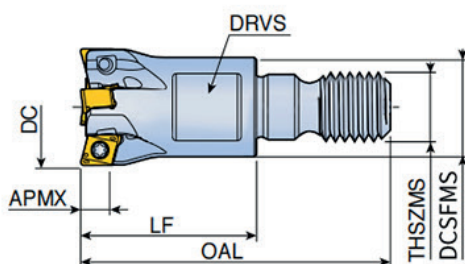


Designation	CICT	Dimension (mm)							INSERT
		APMX	DCX	DC	DCONMS	OAL	LH	LS	
TE904N04-107-10-80	1	3.5	7	7	10	80	15	65	4NKT04...
TE904N04-108-10-80	1	3.5	8	8	10	80	17	63	4NKT04...
TE904N04-109-10-80	1	3.5	9	9	10	80	19	61	4NKT04...
TE904N04-210-10-80	2	3.5	10	10	10	80	22	58	4NKT04...
TE904N04-211-10-80	2	3.5	11	11	10	80	11	69	4NKT04...
TE904N04-312-12-80	3	3.5	12	12	12	80	26	54	4NKT04...
TE904N04-313-12-80	3	3.5	13	13	12	80	13	67	4NKT04...
TE904N04-314-14-100	3	3.5	14	14	14	100	30	70	4NKT04...
TE904N04-415-14-100	4	3.5	15	15	14	100	15	85	4NKT04...
TE904N04-416-16-120	4	3.5	16	16	16	120	35	85	4NKT04...
TE904N04-417-16-120	4	3.5	17	17	16	120	17	103	4NKT04...

TM904N06

High Ramping Modular Heads

4NKT06 Series

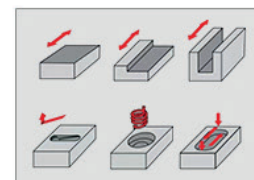
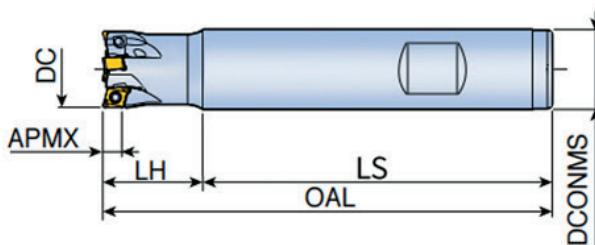


Designation	CICT	Dimension (mm)							THSZMS	INSERT
		APMX	DCX	DC	DCSFMS	OAL	LF	DRVS		
TM904N06-216-M08	2	6	16	16	15	43	25.5	12	M8xP1.25	4NKT06...
TM904N06-217-M08	2	6	17	17	15	43	25.5	12	M8xP1.25	4NKT06...
TM904N06-320-M10	3	6	20	20	19	49	29	15	M10xP1.5	4NKT06...
TM904N06-321-M10	3	6	21	21	19	49	29	15	M10xP1.5	4NKT06...
TM904N06-425-M12	4	6	25	25	24	57	35	19	M12xP1.75	4NKT06...
TM904N06-426-M12	4	6	26	26	24	57	35	19	M12xP1.75	4NKT06...
TM904N06-532-M16	5	6	32	32	31	63	38	24	M16xP2.0	4NKT06...
TM904N06-533-M16	5	6	33	33	31	63	37	24	M16xP2.0	4NKT06...

TE904N06

High Ramping End Mills

4NKT06 Series

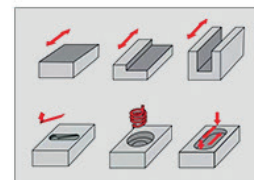
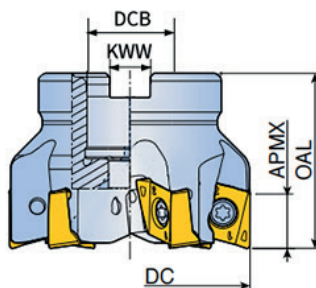


Designation	CICT	Dimension (mm)							INSERT
		APMX	DCX	DC	DCONMS	OAL	LH	LS	
TE904N06-216-16-120	2	6	16	16	16	120	35	85	4NKT06...
TE904N06-216-16-160	2	6	16	16	16	160	35	125	4NKT06...
TE904N06-217-16-160	2	6	17	17	16	160	17	143	4NKT06...
TE904N06-217-16-200	2	6	17	17	16	200	17	183	4NKT06...
TE904N06-320-20-120	3	6	20	20	20	120	44	79	4NKT06...
TE904N06-320-20-160	3	6	20	20	20	160	44	116	4NKT06...
TE904N06-321-20-160	3	6	21	21	20	160	21	139	4NKT06...
TE904N06-321-20-200	3	6	21	21	20	200	21	179	4NKT06...
TE904N06-425-25-120	4	6	25	25	25	120	55	65	4NKT06...
TE904N06-425-25-160	4	6	25	25	25	160	55	105	4NKT06...
TE904N06-425-25-200	4	6	25	25	25	200	55	145	4NKT06...
TE904N06-426-25-160	4	6	26	26	25	160	26	134	4NKT06...
TE904N06-426-25-200	4	6	26	26	25	200	26	174	4NKT06...
TE904N06-532-32-160	5	6	32	32	32	160	70	90	4NKT06...
TE904N06-532-32-200	5	6	32	32	32	200	70	130	4NKT06...
TE904N06-533-32-160	5	6	33	33	32	160	33	127	4NKT06...
TE904N06-533-32-200	5	6	33	33	32	200	33	167	4NKT06...

TF904N06

High Ramping Face Mills

4NKT06 Series

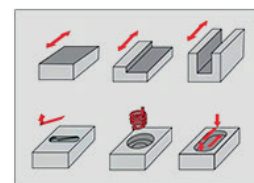
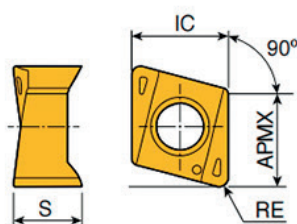


Designation	CICT	Dimension (mm)							Type	INSERT
		APMX	DCX	DC	DCB	OAL	KWW			
TF904N06-535-16	5	6	35	35	16	40	8.4	A	4NKT06...	
TF904N06-640-16	6	6	40	40	16	40	8.4	A	4NKT06...	
TF904N06-850-22	8	6	50	50	22	40	10.4	A	4NKT06...	
TF904N06-1063-22	10	6	63	63	22	40	10.4	A	4NKT06...	
TF904N06-1280-27	12	6	80	80	27	50	12.4	A	4NKT06...	

4NKT040204

High Ramping Mill Inserts

4NKT04 Series

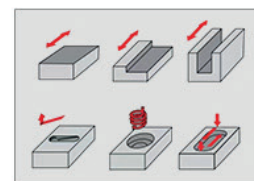
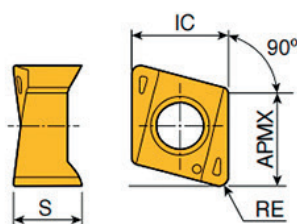


Designation	Dimension (mm)							Grade	
	IC	S	RE	APMX	Angle	Screw	Wrench	TC3320	TC5520
4NKT040204R-M	4.0	3.1	0.4	3.5	90°	TSA-18040-1	TWA-T6	○	○

4NKT060308

High Ramping Mill Inserts

4NKT06 Series



Designation	Dimension (mm)							Grade	
	IC	S	RE	APMX	Angle	Screw	Wrench	TC3320	TC5520
4NKT060308R-M	6.6	4.67	0.8	6	90°	TSA-30070-1	TWA-T8	○	○

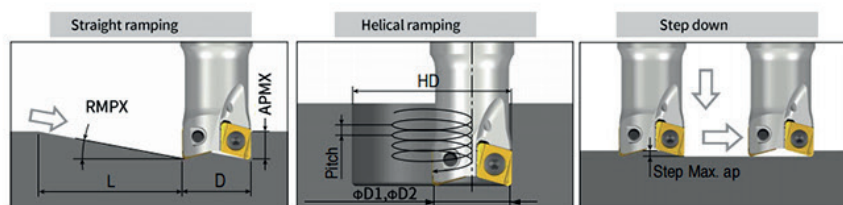
4NKT040204/4NKT060308

High Ramping Mill Inserts

4NKT04/06 Series

Cutting Conditions

ISO	Material	Hardness	Vc (m/min)	fz (mm/t)
P	S45C, S55C ... C45, C55 ...	-300HB	120-250	0.07-0.15
	SCM440, SCr415 ... 42CrMo4 ...	-300HB	100-220	0.07-0.15
	NAK80, PX5 ...	30-40HRC	80-180	0.07-0.15
M	SUS304, SUS316 ... X5CrNi18-9 X5CrNiMo17-12-2 ...	-200HB	100-250	0.07-0.15
K	FC250, FC300 ... 250, 300 ...	150-250HB	120-300	0.07-0.15
	FCD400 ... 400-15, 600-3 ...	150-250HB	100-200	0.07-0.15
S	Ti-6Al-4V ...	-40HRC	40-80	0.05-0.1
	Inconel, Hastelloy...	-40HRC	30-70	0.05-0.1
H	SKD61 ... X40CrMoV5-1 ...	40-50HRC	40-80	0.05-0.1
	SKD11 ... X153CrMoV12...	50-60HRC	30-60	0.05-0.1



4NKT040204

	DCX	APMX	RMPX	Step Max.ap	D1(HD)	D2(HD)	MAX Pich/rev
TE904N04-107-10...	7	3.5	3.5°	0.4	7.9	14	0.2/2.5
TE904N04-108-10...	8	3.5	3.7°	0.4	9.9	16	0.3/2.8
TE904N04-109-10...	9	3.5	3.9°	0.4	11.9	18	0.5/2.0
TE904N04-210-10...	10	3.5	4.2°	0.5	13.9	20	0.8/2.0
TE904N04-211-10...	11	3.5	4.8°	0.6	15.9	22	1.1/2.5
TE904N04-312-12...	12	3.5	4.5°	0.7	17.9	24	1.2/2.5
TE904N04-313-12...	13	3.5	4.7°	0.8	19.9	26	1.5/2.9
TE904N04-314-14...	14	3.5	4.5°	0.9	21.9	28	1.6/3.0
TE904N04-415-14...	15	3.5	4.3°	0.9	23.9	30	1.8/3.1
TE904N04-416-16...	16	3.5	4.1°	0.9	25.9	32	1.9/3.1
TE904N04-417-16...	17	3.5	3.9°	0.9	27.9	34	1.8/3.0

4NKT060308

	DCX	APMX	RMPX	Step Max.ap	D1(HD)	D2(HD)	MAX Pich/rev
TE904N06-216-16...	16	6	3.5°	0.7	21.5	32.0	0.8/2.5
TE904N06-218-16...	18	6	4.0°	0.9	25.5	36.0	1.3/3.2
TE904N06-320-20...	20	6	4.2°	1.0	29.5	40.0	1.8/3.7
TE904N06-425-25...	25	6	4.9°	1.5	39.5	50.0	3.1/5.4
TE904N06-532-32...	32	6	3.5°	1.5	53.5	64.0	3.3/4.9
TF904N06-640...	40	6	2.6°	1.5	69.5	80.0	3.4/4.6
TF904N06-650...	50	6	2.0°	1.5	89.5	100.0	3.5/4.4
TF904N06-863...	63	6	1.5°	1.5	115.5	126.0	3.5/4.1
TF904N06-1080...	80	6	1.0°	1.5	149.5	160.0	3.0/3.5

MILLING TOOLS SERIES

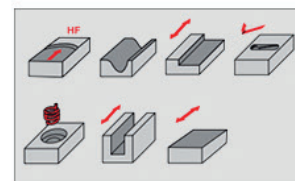
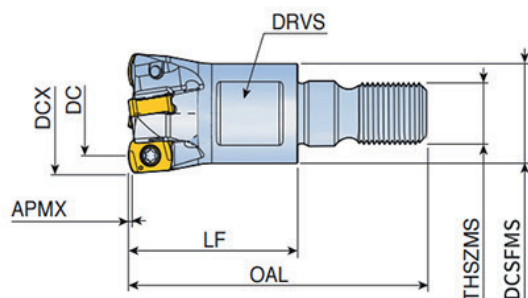
BLMP04 / BLMP06



TMHBL04

High Feed Modular Heads

BLMP04 Series

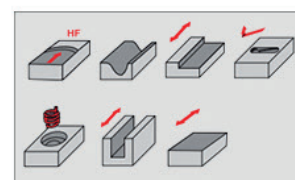
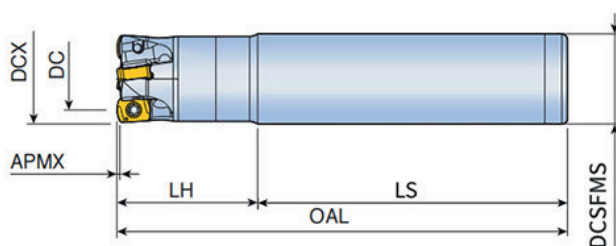


Designation	CICT	Dimension (mm)							THSZMS	INSERT
		APMX	DCX	DC	DCSFMS	OAL	LF	DRVS		
TMHBL04-312-M06	3	0.5	12	7.6	11	32	17	9	M6xP1.0	BLMP04...
TMHBL04-313-M06	3	0.5	13	8.6	11	32	17	9	M6xP1.0	BLMP04...
TMHBL04-314-M06	3	0.5	14	9.6	13	32	17	10	M6xP1.0	BLMP04...
TMHBL04-315-M06	3	0.5	15	10.6	13	32	17	10	M6xP1.0	BLMP04...
TMHBL04-416-M08	4	0.5	16	11.6	15	43	25	12	M8xP1.25	BLMP04...
TMHBL04-417-M08	4	0.5	17	12.6	15	43	25	12	M8xP1.25	BLMP04...

TEHBL04

High Feed End Mills

BLMP04 Series

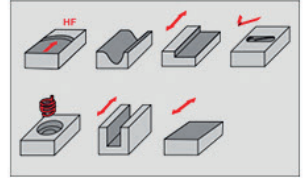
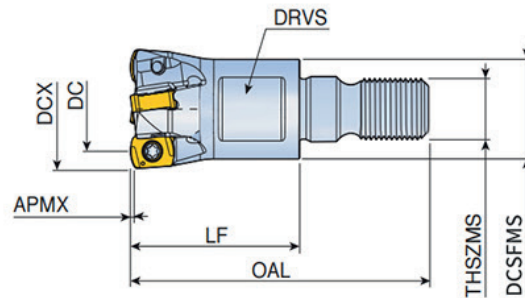


Designation	CICT	Dimension (mm)							INSERT
		APMX	DCX	DC	DCSFMS	OAL	LH	LS	
TEHBL04-107-10-80	1	0.5	7	2.8	10	80	17.5	62.5	BLMP04...
TEHBL04-108-10-80	1	0.5	8	3.8	10	80	20	60	BLMP04...
TEHBL04-109-10-80	1	0.5	9	4.8	10	80	22.5	57.5	BLMP04...
TEHBL04-210-10-80	2	0.5	10	5.7	10	80	25	55	BLMP04...
TEHBL04-211-10-80	2	0.5	11	6.6	10	80	20	60	BLMP04...
TEHBL04-312-12-80	3	0.5	12	7.6	12	80	30	50	BLMP04...
TEHBL04-313-12-80	3	0.5	13	8.6	12	80	20	60	BLMP04...
TEHBL04-314-14-100	3	0.5	14	9.6	14	100	35	65	BLMP04...
TEHBL04-315-14-100	3	0.5	15	10.6	14	100	20	80	BLMP04...
TEHBL04-416-16-120	4	0.5	16	11.6	16	120	40	80	BLMP04...
TEHBL04-417-16-120	4	0.5	17	12.6	16	120	20	100	BLMP04...

TMHBL06

High Feed Modular Heads

BLMP06 Series

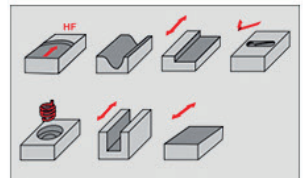
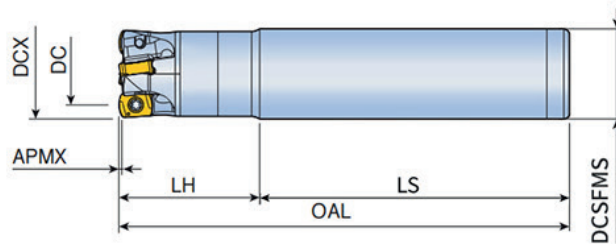


Designation	CICT	Dimension (mm)							THSZMS	INSERT
		APMX	DCX	DC	DCSFMS	OAL	LF	DRVS		
TMHBL06-216-M08	2	1	16	9.4	15	43	25.5	12	M8xP1.25	BLMP06...
TMHBL06-217-M08	2	1	17	10.1	15	43	25.5	12	M8xP1.25	BLMP06...
TMHBL06-218-M08	2	1	18	11.1	15	43	25.5	12	M8xP1.25	BLMP06...
TMHBL06-320-M10	3	1	20	12.4	19	49	29	15	M10xP1.5	BLMP06...
TMHBL06-321-M10	3	1	21	13.4	19	49	29	15	M10xP1.5	BLMP06...
TMHBL06-425-M12	4	1	25	17.3	24	57	35	19	M12xP1.75	BLMP06...
TMHBL06-426-M12	4	1	26	18.3	24	57	35	19	M12xP1.75	BLMP06...
TMHBL06-430-M16	4	1	30	22.3	29	63	38	24	M16xP2.0	BLMP06...
TMHBL06-532-M16	5	1	32	24.3	31	63	38	24	M16xP2.0	BLMP06...
TMHBL06-533-M16	5	1	33	25.3	31	63	38	24	M16xP2.0	BLMP06...

TEHBL06

High Feed End Mills

BLMP06 Series

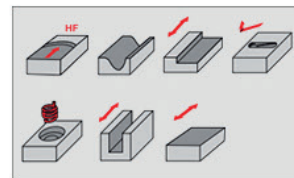
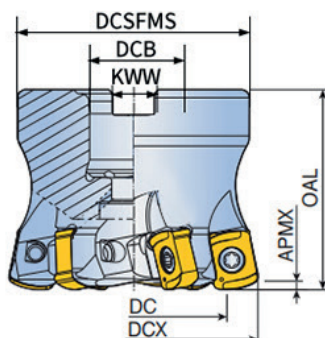


Designation	CICT	Dimension (mm)							INSERT
		APMX	DCX	DC	DCSFMS	OAL	LH	LS	
TEHBL06-216-16-120	2	1	16	9.4	16	120	25	95	BLMP06...
TEHBL06-217-16-160	2	1	17	10.1	16	160	15	145	BLMP06...
TEHBL06-320-20-120	3	1	30	12.4	20	120	25	95	BLMP06...
TEHBL06-320-20-160	3	1	20	12.4	20	160	25	135	BLMP06...
TEHBL06-321-20-160	3	1	21	13.4	20	160	20	140	BLMP06...
TEHBL06-321-20-200	3	1	21	13.4	20	200	20	180	BLMP06...
TEHBL06-425-25-160	4	1	25	17.3	25	160	30	130	BLMP06...
TEHBL06-425-25-200	4	1	25	17.3	25	200	30	170	BLMP06...
TEHBL06-426-25-160	4	1	26	18.3	25	160	20	140	BLMP06...
TEHBL06-426-25-200	4	1	26	18.3	25	200	20	180	BLMP06...
TEHBL06-532-32-160	5	1	32	24.3	32	160	35	125	BLMP06...
TEHBL06-532-32-200	5	1	32	24.3	32	200	35	165	BLMP06...
TEHBL06-533-32-160	5	1	33	25.3	32	160	25	135	BLMP06...
TEHBL06-533-32-200	5	1	33	25.3	32	200	25	175	BLMP06...

TFHBL06

High Feed Face Mills

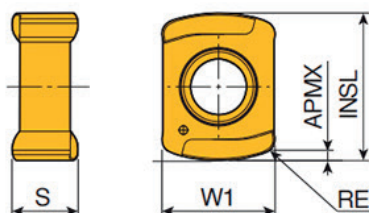
BLMP06 Series



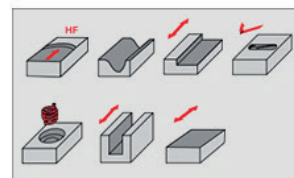
Designation	CICT	Dimension (mm)							INSERT
		APMX	DCX	DC	DCB	OAL	KWW	DCSFMS	
TFHBL06-435-16	4	1	35	27.3	16	40	8.4	32	BLMP06...
TFHBL06-540-16	5	1	40	32.2	16	40	8.4	32	BLMP06...
TFHBL06-650-22	6	1	50	42.2	22	40	10.4	45	BLMP06...
TFHBL06-863-22	8	1	63	55.5	22	40	10.4	48	BLMP06...
TFHBL06-1080-27	10	1	80	72.5	27	50	12.4	60	BLMP06...

BLMP0402

High Feed Inserts



BLMP04 Series

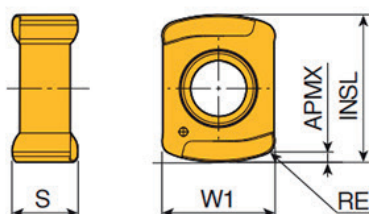


Designation	Dimension (mm)						Grade	
	IC	S	RE	APMX	Screw	Wrench	TC3320	TC5520
BLMP0402R-M	6	2.5	0.5	0.5	TSA-18040-1	TWA-T6	○	○

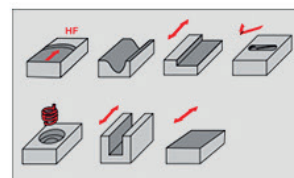
○

BLMP0603

High Feed Inserts



BLMP06 Series



Designation	Dimension (mm)						Grade	
	IC	S	RE	APMX	Screw	Wrench	TC3320	TC5520
BLMP0603R-M	9	3.73	0.9	1	TSA-25070-1	TWA-T8	○	○

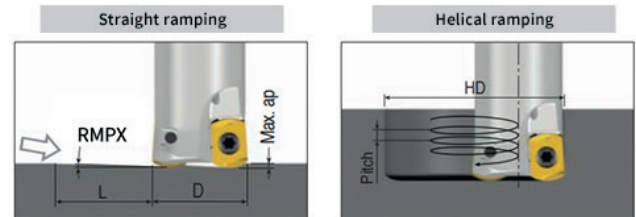
BLMP0402/BLMP0603

High Feed Mill Inserts

BLMP04/BLMP06 Series

Cutting Conditions

ISO	Material	Hardness	Vc (m/min)	fz (mm/t)
P	S45C, S55C ... C45, C55 ...	-300HB	100-300	0.5-3.0
	SCM440, SCr415 ... 42CrMo4 ...	-300HB	120-250	0.4-2.5
	NAK80, PX5 ...	30-40HRC	80-160	0.3-2.0
M	SUS304, SUS316 ... X5CrNi18-9 X5CrNiMo17-12-2 ...	-200HB	100-170	0.3-2.0
K	FC250, FC300 ... 250, 300 ...	150-250HB	100-300	0.5-2.0
	FCD400 ... 400-15, 600-3 ...	150-250HB	80-200	0.5-2.0
S	Ti-6Al-4V ...	-40HRC	30-80	0.3-1.2
	Inconel, Hastelloy...	-40HRC	20-60	0.3-1.0
H	SKD61 ... X40CrMoV5-1 ...	40-50HRC	80-150	0.3-1.2
	SKD11 ... X153CrMoV12...	50-60HRC	50-70	0.2-1.0



BLMP0402

	DCX	Straight ramping			Helical ramping		
		APMX	RMPX	Min. length (L)	Min. dia.	Max. dia.	Max. pitch/rev.
TEHBL04-108-10-80	8	0.5	0.4°	72	12.6	16	0.1
TEHBL04-210-10-80	10	0.5	0.6°	44	16.6	20	0.2
TEHBL04-211-10-80	11	0.5	0.7°	38	18.6	22	0.2
TEHBL04-312-12-80	12	0.5	1.0°	29	20.6	24	0.4
TEHBL04-313-12-80	13	0.5	1.1°	25	22.6	26	0.5
TEHBL04-314-14-100	14	0.5	1.1°	29	24.6	28	0.5
TEHBL04-315-14-100	15	0.5	1.1°	29	26.6	30	0.5
TEHBL04-416-16-120	16	0.5	1.0°	29	28.6	32	0.5
TEHBL04-417-16-120	17	0.5	1.1°	25	30.6	34	0.5

BLMP0603

	DCX	Straight ramping			Helical ramping		
		APMX	RMPX	Min. length (L)	Min. dia.	Max. dia.	Max. pitch/rev.
TEHBL06-216-16-120	16	1.0	2.0°	13	23	32	0.7
TEHBL06-217-16-160	17	1.0	2.0°	15	25	34	0.7
TEHBL06-320-20-120	20	1.0	1.5°	38	31	40	0.8-1.0
TEHBL06-321-20-160	21	1.0	1.5°	38	33	42	0.8-1.0
TEHBL06-425-25-160	25	1.0	1.3°	41	41	50	1.0
TEHBL06-426-25-200	26	1.0	1.2°	44	43	52	1.0
TEHBL06-532-32-160	32	1.0	0.9°	57	55	64	1.0
TFHBL06-540-16	40	1.0	0.7°	64	71	80	1.0
TFHBL06-650-22	50	1.0	0.5°	96	91	100	1.0
TFHBL06-863-22	63	1.0	0.5°	115	117	126	1.0
TFHBL06-1080-27	80	1.0	0.4°	135	151	160	1.0

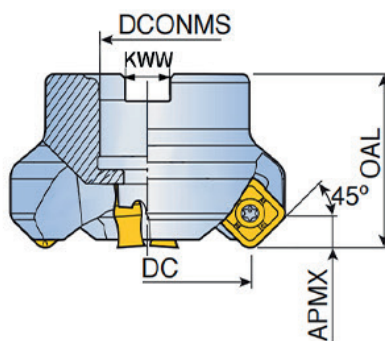
MILLING TOOLS SERIES

TF45/75/88SN12

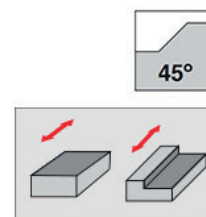


TF45SN12

45° Face Mills



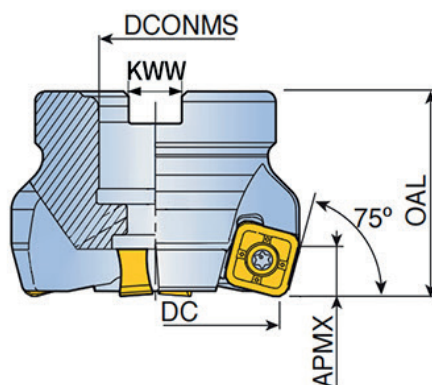
SN□X1206 Series



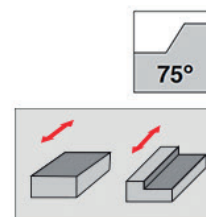
Designation	CICT	Dimension (mm)						Type	Angel	INSERT
		APMX	DC	KWW	DCONMS	OAL				
TF45SN12-450-22	4	6.5	50	8.4	22	40	A	45°	SN□X1206...	
TF45SN12-455-22	4	6.5	55	10.4	22	40	A	45°	SN□X1206...	
TF45SN12-563-22	5	6.5	63	10.4	22	40	A	45°	SN□X1206...	
TF45SN12-570-22	5	6.5	70	12.4	22	40	A	45°	SN□X1206...	
TF45SN12-680-27	6	6.5	80	10.4	27	50	A	45°	SN□X1206...	
TF45SN12-7100-32	7	6.5	100	10.4	32	50	A	45°	SN□X1206...	
TF45SN12-8125-40	8	6.5	125	12.4	40	55	B	45°	SN□X1206...	
TF45SN12-10160-40	10	6.5	160	14.4	40	55	B	45°	SN□X1206...	
TF45SN12-12200-60	12	6.5	200	16.4	60	55	C	45°	SN□X1206...	
TF45SN12-14250-60	14	6.5	250	16.4	60	55	C	45°	SN□X1206...	

TF75SN12

75° Face Mills



SN□X1206 Series

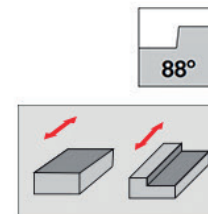
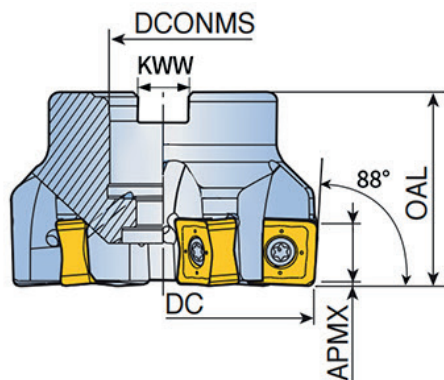


Designation	CICT	Dimension (mm)						Type	Angel	INSERT
		APMX	DC	KWW	DCONMS	OAL				
TF75SN12-450-22	4	8	50	8.4	22	40	A	75°	SN□X1206...	
TF75SN12-455-22	4	8	55	10.4	22	40	A	75°	SN□X1206...	
TF75SN12-563-22	5	8	63	10.4	22	40	A	75°	SN□X1206...	
TF75SN12-570-22	5	8	70	12.4	22	40	A	75°	SN□X1206...	
TF75SN12-680-27	6	8	80	10.4	27	50	A	75°	SN□X1206...	
TF75SN12-7100-32	7	8	100	10.4	32	50	A	75°	SN□X1206...	
TF75SN12-8125-40	8	8	125	12.4	40	55	B	75°	SN□X1206...	
TF75SN12-10160-40	10	8	160	14.4	40	55	B	75°	SN□X1206...	
TF75SN12-12200-60	12	8	200	16.4	60	55	C	75°	SN□X1206...	
TF75SN12-14250-60	14	8	250	16.4	60	55	C	75°	SN□X1206...	

TF88SN12

88° Face Mills

SN□X1206 Series

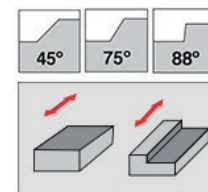
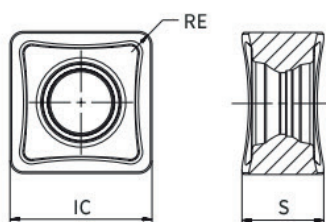


Designation	CICT	Dimension (mm)						Type	Angel	INSERT
		APMX	DC	KWW	DCONMS	OAL				
TF88SN12-450-22	4	10	50	10.4	22	40	A	88°	SN□X1206...	
TF88SN12-455-22	4	10	55	10.4	22	40	A	88°	SN□X1206...	
TF88SN12-563-22	5	10	63	10.4	22	40	A	88°	SN□X1206...	
TF88SN12-570-22	5	10	70	10.4	22	40	A	88°	SN□X1206...	
TF88SN12-680-27	6	10	80	12.4	27	50	A	88°	SN□X1206...	
TF88SN12-7100-32	7	10	100	14.4	32	50	A	88°	SN□X1206...	
TF88SN12-8125-40	8	10	125	16.4	40	55	B	88°	SN□X1206...	
TF88SN12-10160-40	10	10	160	16.4	40	55	B	88°	SN□X1206...	
TF88SN12-12200-60	12	10	200	25.8	60	55	C	88°	SN□X1206...	
TF88SN12-14250-60	14	10	250	25.8	60	55	C	88°	SN□X1206...	

SN□X1206

Face Mill Inserts

SN□X12 Series



Designation	Dimension (mm)						Grade	
	IC	S	RE	APMX	Screw	Wrench	TC3320	TC5520
SNMX120608-MM	12.7	6.98	0.8	6.5-10	TSA-50120-1	TWA-T20	○	○
SNMX120612-MM	12.7	6.98	1.2	6.5-10	TSA-50120-1	TWA-T20	○	○
SNGX120608-MM	12.7	6.98	0.8	6.5-10	TSA-50120-1	TWA-T20	○	○
SNGX120612-MM	12.7	6.98	1.2	6.5-10	TSA-50120-1	TWA-T20	○	○

SN□X1206

Face Mill Inserts

SN□X12 Series

Cutting Conditions

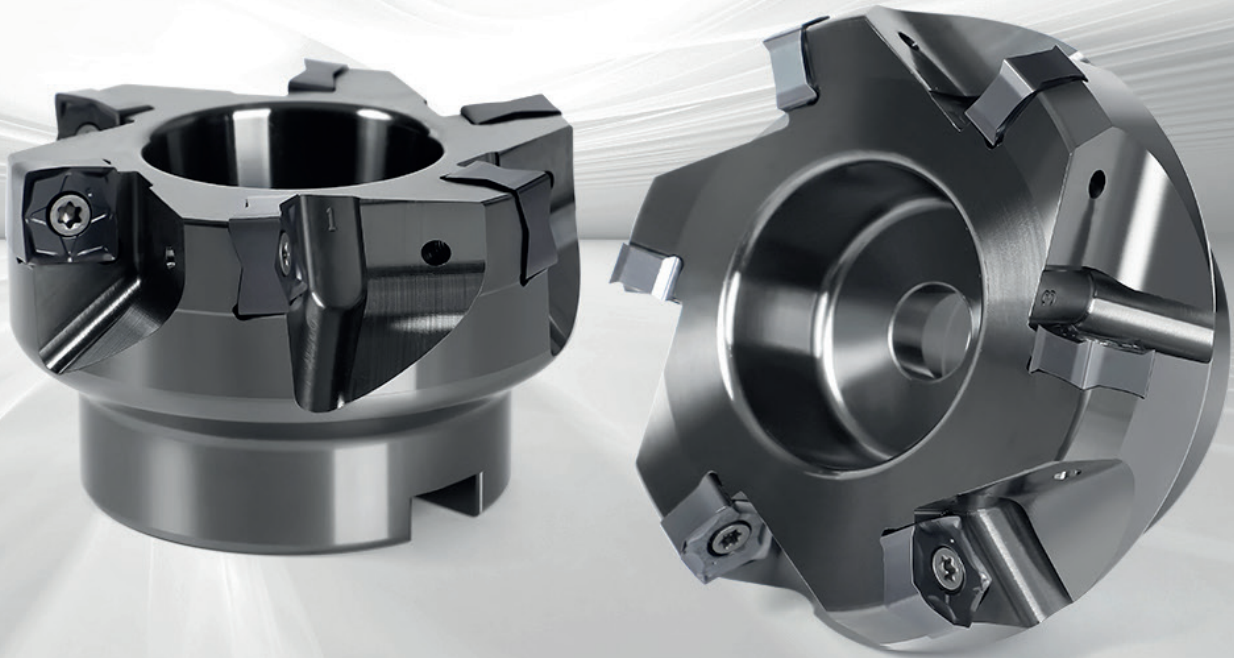
ISO	Material	Hardness	Vc (m/min)	fz (mm/t)
P	S45C, S55C ... C45, C55 ...	-300HB	120-300	0.1-0.5
	SCM440, SCr415 ... 42CrMo4 ...	-300HB	80-250	0.1-0.5
	NAK80, PX5 ...	30-40HRC	80-200	0.1-0.35
M	SUS304, SUS316 ... X5CrNi18-9 X5CrNiMo17-12-2 ...	-200HB	80-250	0.1-0.4
K	FC250, FC300 ... 250, 300 ...	150-250HB	120-350	0.1-0.4
	FCD400 ... 400-15, 600-3 ...	150-250HB	100-300	0.1-0.4
S	Ti-6Al-4V ...	-40HRC	20-50	0.1-0.2
	Inconel, Hastelloy...	-40HRC	20-50	0.1-0.2
H	SKD61 ... X40CrMoV5-1 ...	40-50HRC	80-150	0.1-0.2
	SKD11 ... X153CrMoV12...	50-60HRC	50-70	0.1-0.2

MILLING TOOLS SERIES

SNMU13 / PNMU09

TF88SN13

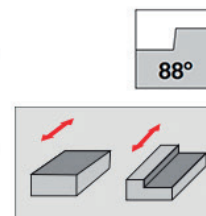
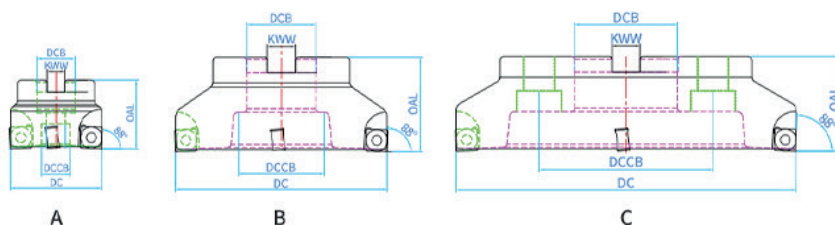
TF66PN09



TF88SN13

Face Mill Cutter

SNMU13 Series

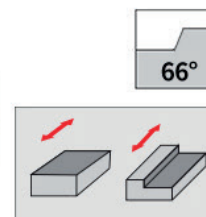
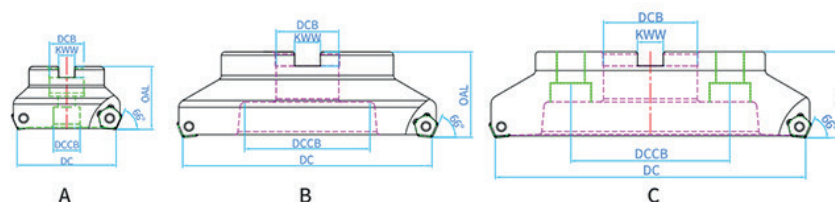


Designation	CICT	Dimension (mm)							Angel	INSERT
		APMX	DC	DCB	OAL	DCCB	KWW	Type		
TF88SN13-450-22	4	5	50	22	40	17	10.4	A	88°	SNMU13...
TF88SN13-563-22	5	5	63	22	40	17	10.4	A	88°	SNMU13...
TF88SN13-680-27	6	5	80	27	50	34	12.4	A	88°	SNMU13...
TF88SN13-7100-32	7	5	100	32	50	42	14.4	A	88°	SNMU13...
TF88SN13-8125-40	8	5	125	40	55	50	16.4	B	88°	SNMU13...
TF88SN13-10160-40	10	5	160	40	55	80	16.4	B	88°	SNMU13...
TF88SN13-12200-60	12	5	200	60	55	101.6	25.8	C	88°	SNMU13...
TF88SN13-14250-60	14	5	250	60	55	101.6	25.8	C	88°	SNMU13...

TF66PN09

Face Mill Cutter

PNMU09 Series

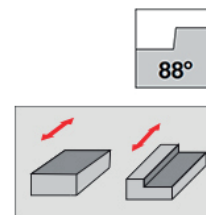
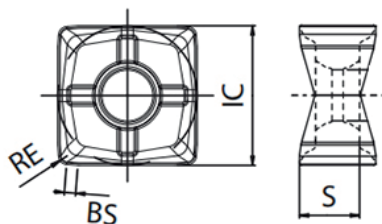
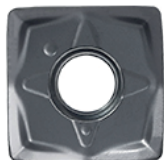


Designation	CICT	Dimension (mm)							Angel	INSERT
		APMX	DC	DCB	OAL	DCCB	KWW	Type		
TF66PN09-450-22	4	5	50	22	40	17	10.4	A	66°	PNMU09...
TF66PN09-563-22	5	5	63	22	40	17	10.4	A	66°	PNMU09...
TF66PN09-680-27	6	5	80	27	50	34	12.4	A	66°	PNMU09...
TF66PN09-7100-32	7	5	100	32	50	42	14.4	A	66°	PNMU09...
TF66PN09-8125-40	8	5	125	40	55	50	16.4	B	66°	PNMU09...
TF66PN09-10160-40	10	5	160	40	55	80	16.4	B	66°	PNMU09...
TF66PN09-12200-60	12	5	200	60	55	101.6	25.8	C	66°	PNMU09...
TF66PN09-14250-60	14	5	250	60	55	101.6	25.8	C	66°	PNMU09...

SNMU1305

Face Mill Inserts

SNMU13 Series

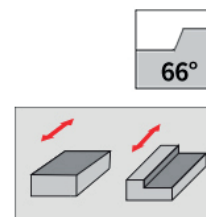
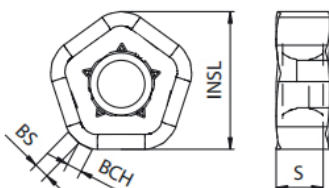
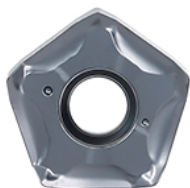


Designation	Dimension (mm)							Grade	
	IC	S	RE	APMX	BS	Screw	Wrench	TC3320	TC5520
SNMU130508-GM	13	5.51	0.8	5	1.0	TSA-40100-1	TWA-T15	○	○

PNMU0905

High Feed Face Mill Inserts

PNMU09 Series



Designation	Dimension (mm)					Grade			
	INSL	S	APMX	BCH	BS	Screw	Wrench	TC3320	TC5520
PNMU0905XN-GM	17.98	6.17	5	2.0	2.0	TSA-40100-1	TWA-T15	○	○

MILLING TOOLS SERIES

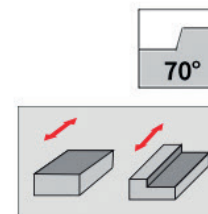
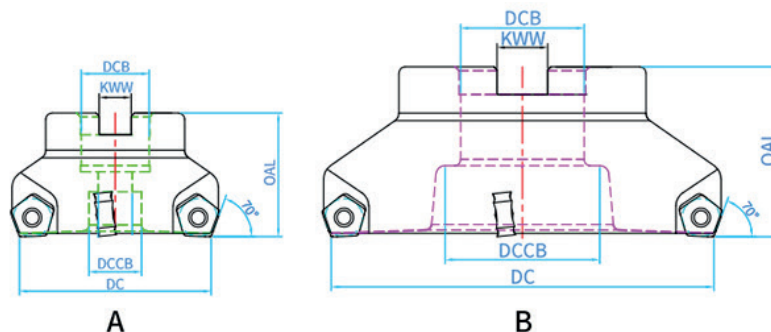
PNCU0905



TF70PN09

Face Mills

PNCU09 Series

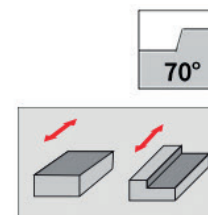
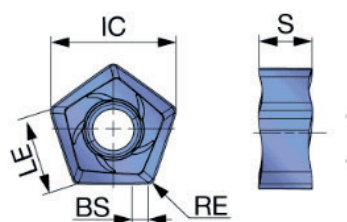


Designation	CICT	Dimension (mm)							Angel	INSERT
		APMX	DC	DCB	OAL	DCCB	KWW	Type		
TF70PN09-450-22	4	6.4	50	22	40	17	10.4	A	70°	PNCU09...
TF70PN09-563-22	5	6.4	63	22	40	17	10.4	A	70°	PNCU09...
TF70PN09-680-27	6	6.4	80	27	50	34	12.4	A	70°	PNCU09...
TF70PN09-7100-32	7	6.4	100	32	50	42	14.4	A	70°	PNCU09...
TF70PN09-8125-40	8	6.4	125	40	55	50	16.4	B	70°	PNCU09...
TF70PN09-10160-40	10	6.4	160	40	55	80	16.4	B	70°	PNCU09...

PNCU0905

Face Mill Inserts

PNCU09 Series



Designation	Dimension (mm)							Grade	
	IC	S	LE	APMX	BS	Screw	Wrench	TC3320	TC5520
PNCU090508ER-MJ	12.20	5.93	8.90	6.40	1.40	TSA-40100-1	TWA-T15	○	○

MILLING TOOLS SERIES

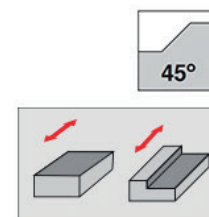
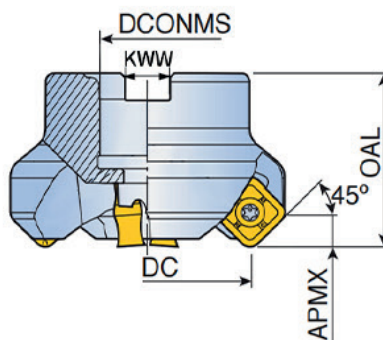
TF45/75/88SN13



TF45SN13

45° Face Mills

SN□X1306 Series

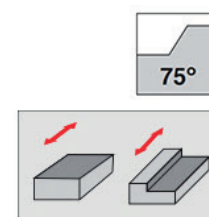
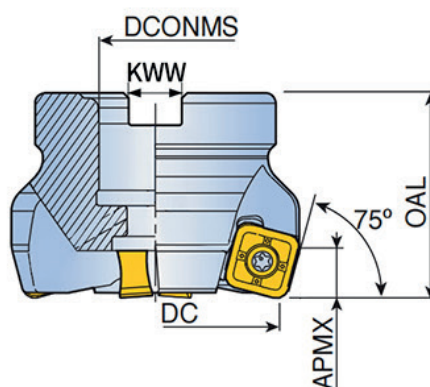


Designation	CICT	Dimension (mm)							Angel	INSERT
		APMX	DC	KWW	DCONMS	OAL	DCCB	Type		
TF45SN13-450-22	4	7.0	50	10.4	22	40	17	A	45°	SN□X1306...
TF45SN13-563-22	5	7.0	63	10.4	22	40	17	A	45°	SN□X1306...
TF45SN13-680-27	6	7.0	80	12.4	27	50	34	A	45°	SN□X1306...
TF45SN13-7100-32	7	7.0	100	14.4	32	50	42	A	45°	SN□X1306...
TF45SN13-8125-40	8	7.0	125	16.4	40	55	50	B	45°	SN□X1306...
TF45SN13-10160-40	10	7.0	160	16.4	40	55	80	B	45°	SN□X1306...
TF45SN13-12200-60	12	7.0	200	25.8	60	55	101.6	C	45°	SN□X1306...
TF45SN13-14250-60	14	7.0	250	25.8	60	55	101.6	C	45°	SN□X1306...

TF75SN13

75° Face Mills

SN□X1306 Series

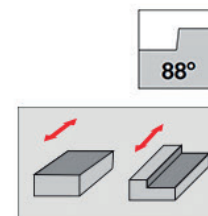
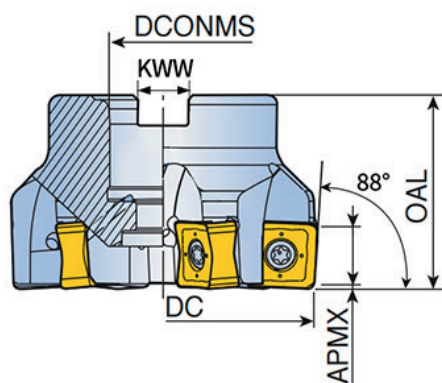


Designation	CICT	Dimension (mm)							Angel	INSERT
		APMX	DC	KWW	DCONMS	OAL	DCCB	Type		
TF45SN13-450-22	4	9.5	50	10.4	22	40	17	A	75°	SN□X1306...
TF45SN13-563-22	5	9.5	63	10.4	22	40	17	A	75°	SN□X1306...
TF45SN13-680-27	6	9.5	80	12.4	27	50	34	A	75°	SN□X1306...
TF45SN13-7100-32	7	9.5	100	14.4	32	50	42	A	75°	SN□X1306...
TF45SN13-8125-40	8	9.5	125	16.4	40	55	50	B	75°	SN□X1306...
TF45SN13-10160-40	10	9.5	160	16.4	40	55	80	B	75°	SN□X1306...
TF45SN13-12200-60	12	9.5	200	25.8	60	55	101.6	C	75°	SN□X1306...
TF45SN13-14250-60	14	9.5	250	25.8	60	55	101.6	C	75°	SN□X1306...

TF88SN13

88° Face Mills

SN□X1306 Series

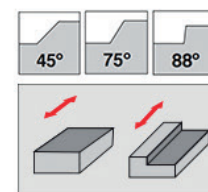
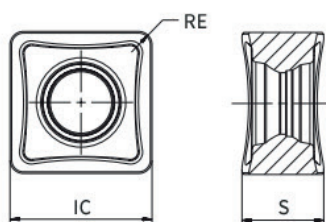


Designation	CICT	Dimension (mm)							Angel	INSERT
		APMX	DC	KWW	DCONMS	OAL	DCCB	Type		
TF88SN13-450-22	4	12	50	10.4	22	40	17	A	88°	SN□X1306...
TF88SN13-563-22	5	12	63	10.4	22	40	17	A	88°	SN□X1306...
TF88SN13-680-27	6	12	80	12.4	27	50	34	A	88°	SN□X1306...
TF88SN13-7100-32	7	12	100	14.4	32	50	42	A	88°	SN□X1306...
TF88SN13-8125-40	8	12	125	16.4	40	55	50	B	88°	SN□X1306...
TF88SN13-10160-40	10	12	160	16.4	40	55	80	B	88°	SN□X1306...
TF88SN13-12200-60	12	12	200	25.8	60	55	101.6	C	88°	SN□X1306...
TF88SN13-14250-60	14	12	250	25.8	60	55	101.6	C	88°	SN□X1306...

SN□X1306

Face Mill Inserts

SN□X1306 Series



Designation	Dimension (mm)						Grade	
	IC	S	RE	APMX	Screw	Wrench	TC3320	TC5520
SNMX1306ZN-M	13.5	6.8	0.4	12	TSA-40003-2	TWA-T15	○	○
SNMX1306ANTN-M	13.5	6.8	0.4	7.0	TSA-40003-2	TWA-T15	○	○
SNMX1306ENTN-M	13.5	7.0	0.4	9.5	TSA-40003-2	TWA-T15	○	○
SNMX1306XTN	13.5	6.8	0.4	6.35-9.6	TSA-40003-2	TWA-T15	○	○
SNGX1306ZN-M	13.5	6.8	0.4	12	TSA-40003-2	TWA-T15	○	○
SNGX1306ANTN-M	13.5	6.8	0.4	7.0	TSA-40003-2	TWA-T15	○	○
SNGX1306ENTN-M	13.5	7.0	0.4	9.5	TSA-40003-2	TWA-T15	○	○

○

MILLING TOOLS SERIES

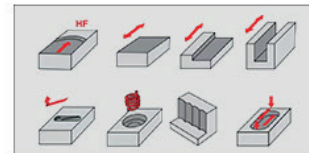
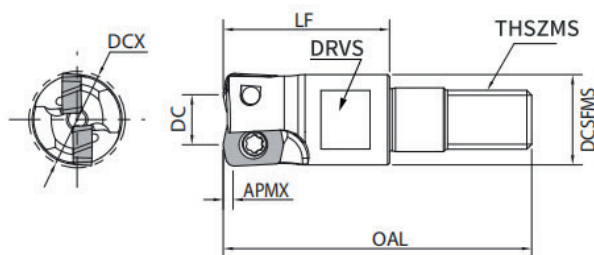
LPGT01 / LOGU03
SOMT10 / SOMT14



TMHLP01

High Feed Modular Heads

LPGT01 Series

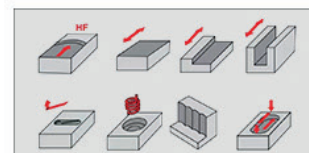
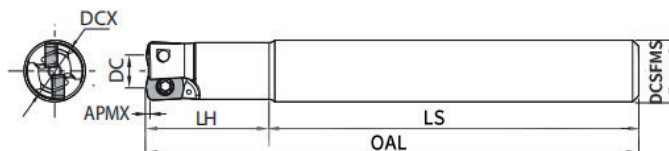


Designation	CICT	Dimension (mm)							THSZMS	INSERT
		APMX	DCX	DC	DCSFMS	OAL	LF	DRVS		
TMHLP01-210-M05	2	0.5	10	6.2	9	29	17	7	M5xP0.8	LPGT01...
TMHLP01-211-M05	2	0.5	11	7.2	9	29	17	7	M5xP0.8	LPGT01...
TMHLP01-312-M06	3	0.5	12	8.2	11	32	17	9	M6xP1.0	LPGT01...
TMHLP01-313-M06	3	0.5	13	9.2	11	32	17	9	M6xP1.0	LPGT01...
TMHLP01-314-M06	3	0.5	14	10.2	13	32	17	10	M6xP1.0	LPGT01...
TMHLP01-415-M06	4	0.5	15	11.2	13	32	17	10	M6xP1.0	LPGT01...
TMHLP01-314-M08	3	0.5	14	10.2	13	34.5	17	10	M8xP1.25	LPGT01...
TMHLP01-415-M08	4	0.5	15	11.2	13	34.5	17	10	M8xP1.25	LPGT01...
TMHLP01-416-M08	4	0.5	16	12.2	15	43	25	12	M8xP1.25	LPGT01...
TMHLP01-417-M08	4	0.5	17	13.2	15	43	25	12	M8xP1.25	LPGT01...

TEHLP01

High Feed End Mills

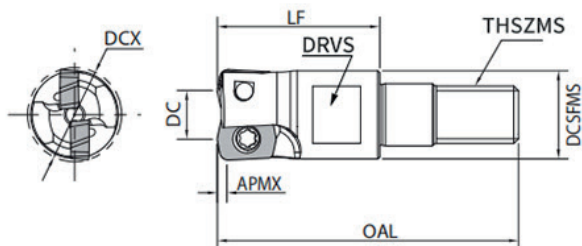
LPGT01 Series



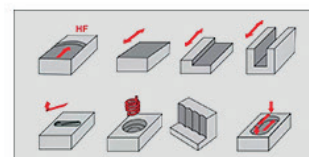
Designation	CICT	Dimension (mm)							INSERT
		APMX	DCX	DC	DCSFMS	OAL	LH	LS	
TEHLP01-108-10-75	1	0.5	8	4.2	10	75	17	58	LPGT01...
TEHLP01-108-10-100	1	0.5	8	4.2	10	100	17	83	LPGT01...
TEHLP01-109-10-100	1	0.5	9	5.2	10	100	19	81	LPGT01...
TEHLP01-210-10-80	2	0.5	10	6.2	10	80	22	58	LPGT01...
TEHLP01-210-10-100	2	0.5	10	6.2	10	100	22	78	LPGT01...
TEHLP01-211-10-100	2	0.5	11	7.2	10	100	11	89	LPGT01...
TEHLP01-312-12-80	3	0.5	12	8.2	12	80	26	54	LPGT01...
TEHLP01-312-12-100	3	0.5	12	8.2	12	100	26	74	LPGT01...
TEHLP01-313-12-100	3	0.5	13	9.2	12	100	13	87	LPGT01...
TEHLP01-314-16-120	3	0.5	14	10.2	16	120	30	90	LPGT01...
TEHLP01-415-16-120	4	0.5	15	11.2	14	120	15	105	LPGT01...
TEHLP01-416-16-120	4	0.5	16	12.2	10	120	35	85	LPGT01...

TMHLO03

High Feed Modular Heads



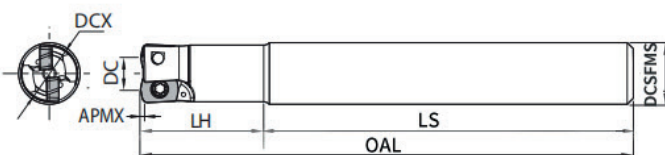
LOGU03 Series



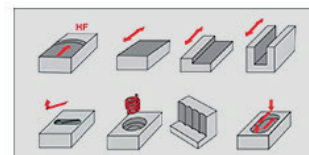
Designation	CICT	Dimension (mm)							THSZMS	INSERT
		APMX	DCX	DC	DCSFMS	OAL	LF	DRVS		
TMHLO03-216-M08	2	1	16	8	15	43	25	12	M8xP1.25	LOGU03...
TMHLO03-217-M08	2	1	17	9	15	43	25	12	M8xP1.25	LOGU03...
TMHLO03-218-M08	2	1	18	10	15	43	25	12	M8xP1.25	LOGU03...
TMHLO03-320-M10	3	1	20	12	19	49	29	15	M10xP1.5	LOGU03...
TMHLO03-321-M10	3	1	21	13	19	49	29	15	M10xP1.5	LOGU03...
TMHLO03-425-M12	4	1	25	17	24	57	35	19	M12xP1.75	LOGU03...
TMHLO03-426-M12	4	1	26	18	24	57	35	19	M12xP1.75	LOGU03...
TMHLO03-428-M12	4	1	28	20	24	57	35	19	M12xP1.75	LOGU03...
TMHLO03-532-M16	5	1	32	24	31	63	38	24	M16xP2.0	LOGU03...
TMHLO03-535-M16	5	1	35	27	31	63	38	24	M16xP2.0	LOGU03...

TEHLO03

High Feed End Mills



LOGU03 Series

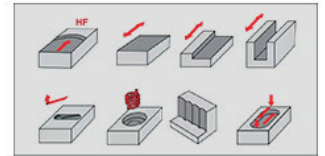
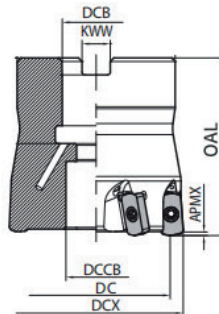


Designation	CICT	Dimension (mm)							INSERT
		APMX	DCX	DC	DCSFMS	OAL	LH	LS	
TEHLO03-216-16-100	2	1	16	8	16	100	35	65	LOGU03...
TEHLO03-216-16-160	2	1	16	8	16	160	35	125	LOGU03...
TEHLO03-217-16-100	2	1	17	9	16	100	35	65	LOGU03...
TEHLO03-217-16-120	2	1	17	9	16	120	17	103	LOGU03...
TEHLO03-217-16-160	2	1	17	9	16	160	17	143	LOGU03...
TEHLO03-320-20-120	3	1	20	12	20	120	17	103	LOGU03...
TEHLO03-320-20-160	3	1	20	12	20	160	44	116	LOGU03...
TEHLO03-320-20-200	3	1	20	12	20	200	44	156	LOGU03...
TEHLO03-321-20-120	3	1	21	13	20	120	21	99	LOGU03...
TEHLO03-321-20-160	3	1	21	13	20	160	21	139	LOGU03...
TEHLO03-321-20-200	3	1	21	13	20	200	21	179	LOGU03...
TEHLO03-425-25-120	4	1	25	17	25	120	55	65	LOGU03...
TEHLO03-425-25-160	4	1	25	17	25	160	55	105	LOGU03...
TEHLO03-425-25-180	4	1	25	17	25	180	55	125	LOGU03...
TEHLO03-425-25-200	4	1	25	17	25	200	55	145	LOGU03...
TEHLO03-426-25-120	4	1	26	18	25	120	26	94	LOGU03...
TEHLO03-426-25-160	4	1	26	18	25	160	26	134	LOGU03...
TEHLO03-426-25-200	4	1	26	18	25	200	26	174	LOGU03...
TEHLO03-528-25-160	5	1	28	20	25	160	28	132	LOGU03...
TEHLO03-530-25-160	5	1	30	22	25	160	30	130	LOGU03...
TEHLO03-532-32-120	5	1	32	24	32	120	64	56	LOGU03...
TEHLO03-532-32-160	5	1	32	24	32	160	70	90	LOGU03...
TEHLO03-532-32-200	5	1	32	24	32	200	70	130	LOGU03...
TEHLO03-533-32-160	5	1	33	25	32	160	33	127	LOGU03...
TEHLO03-533-32-200	5	1	33	25	32	200	33	167	LOGU03...

TFHLO03

High Feed Face Mills

LOGU03 Series

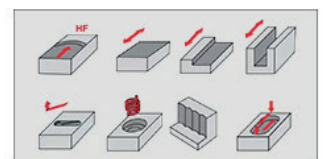
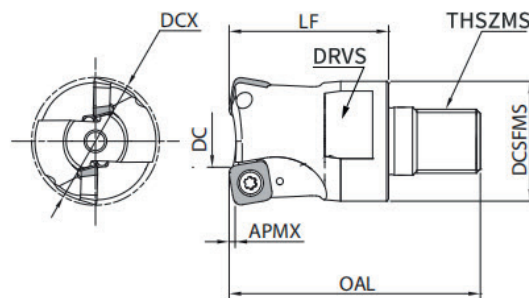


Designation	CICT	Dimension (mm)							A.R.	INSERT
		APMX	DCX	DC	DCB	OAL	DCCB	KWW		
TFHLO03-535-16	5	1	35	27	16	40	14	8.4	-10°	LOGU03...
TFHLO03-640-16	6	1	40	32	16	40	14	8.4	-10°	LOGU03...
TFHLO03-850-22	8	1	50	42	22	40	17	10.4	-10°	LOGU03...
TFHLO03-863-22	8	1	63	55	22	40	17	10.4	-10°	LOGU03...
TFHLO03-1080-27	10	1	80	72	27	50	34	12.4	-10°	LOGU03...
TFHLO03-12100-32	12	1	100	92	32	50	42	14.4	-10°	LOGU03...

TMHSO10

High Feed Modular Heads

SOMT10 Series

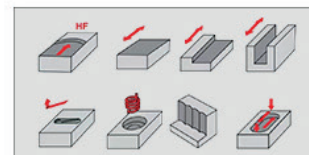
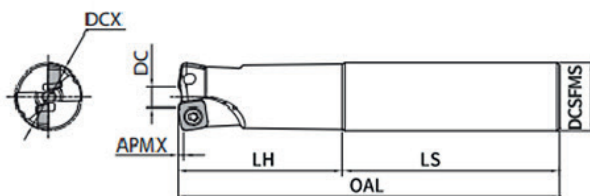


Designation	CICT	Dimension (mm)/尺寸							THSZMS	INSERT
		APMX	DCX	DC	DCSFMS	OAL	LF	DRVS		
TMHSO10-120-M10	1	1.5	20	3	19	29	49	15	M10xP1.5	SOMT10...
TMHSO10-121-M10	1	1.5	21	4	19	29	49	15	M10xP1.5	SOMT10...
TMHSO10-225-M12	2	1.5	25	8	24	35	57	19	M12xP1.75	SOMT10...
TMHSO10-226-M12	2	1.5	26	9	24	35	57	19	M12xP1.75	SOMT10...
TMHSO10-332-M16	3	1.5	32	15	31	38	63	24	M16xP2.0	SOMT10...
TMHSO10-333-M16	3	1.5	33	16	31	38	63	24	M16xP2.0	SOMT10...
TMHSO10-335-M16	3	1.5	35	18	31	38	63	24	M16xP2.0	SOMT10...

TEHSO10

High Feed End Mills

SOMT10 Series

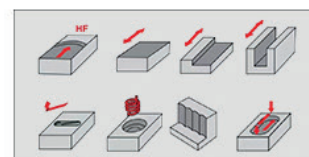
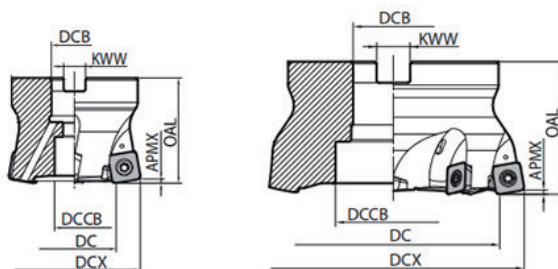


Designation	CICT	Dimension (mm)							A.R.	INSERT
		APMX	DCX	DC	DCONMS	OAL	LH	LS		
TEHSO10-225-25-120	2	1.5	25	8	25	120	55	65	+10°	SOMT10...
TEHSO10-225-25-160	2	1.5	25	8	25	160	55	105	+10°	SOMT10...
TEHSO10-225-25-200	2	1.5	25	8	25	200	55	145	+10°	SOMT10...
TEHSO10-226-25-160	2	1.5	26	9	25	160	26	134	+10°	SOMT10...
TEHSO10-226-25-200	2	1.5	26	9	25	200	26	174	+10°	SOMT10...
TEHSO10-332-32-120	3	1.5	32	15	32	120	60	60	+10°	SOMT10...
TEHSO10-332-32-160	3	1.5	32	15	32	160	70	90	+10°	SOMT10...
TEHSO10-332-32-200	3	1.5	32	15	32	200	70	130	+10°	SOMT10...
TEHSO10-333-32-160	3	1.5	33	16	32	160	33	127	+10°	SOMT10...
TEHSO10-333-32-200	3	1.5	33	16	32	200	33	167	+10°	SOMT10...

TFHSO10/14

High Feed Face Mills

SOMT10/14 Series

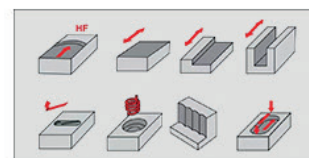
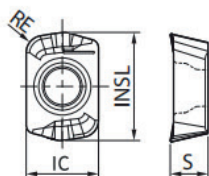


Designation	CICT	Dimension (mm)							A.R.	INSERT
		APMX	DCX	DC	DCB	OAL	DCCB	KWW		
TFHSO10-440-16	4	1.5	40	23	16	40	9	8.4	+10°	SOMT10...
TFHSO10-550-22	5	1.5	50	33	22	40	11	10.4	+10°	SOMT10...
TFHSO10-663-22	6	1.5	63	46	22	40	11	10.4	+10°	SOMT10...
TFHSO10-780-27	7	1.5	80	63	27	50	13	12.4	+10°	SOMT10...
TFHSO14-450-22	4	2	50	27	22	40	11	10.4	+10°	SOMT14...
TFHSO14-563-22	5	2	63	40	22	40	11	10.4	+10°	SOMT14...
TFHSO14-680-27	6	2	80	57	27	50	13	12.4	+10°	SOMT14...
TFHSO14-7100-32	7	2	100	77	32	50	17	14.4	+10°	SOMT14...
TFHSO14-8125-40	8	2	125	102	40	55	55	16.4	+10°	SOMT14...
TFHSO14-10160-40	10	2	160	137	40	55	90	16.4	+10°	SOMT14...

LPGT010210

High Feed Face Mill Inserts

LPGT01 Series

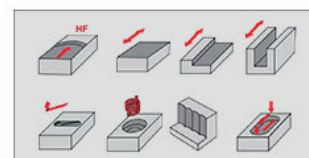
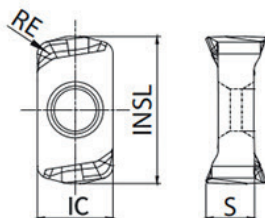


Designation	Dimension (mm)							Grade	
	IC	S	RE	APMX	INSL	Screw	Wrench	TC3320	TC5520
LPGT010210-GM	4.19	2.19	1.0	0.5	6.26	TSA-18040-1	TWA-T6	○	○

LOGU030310

High Feed Face Mill Inserts

LOGU03 Series

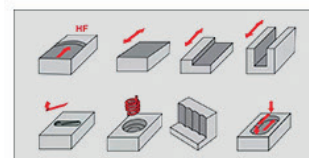
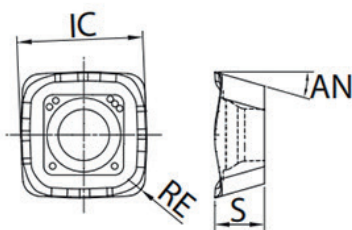


Designation	Dimension (mm)							Grade	
	IC	S	RE	APMX	INSL	Screw	Wrench	TC3320	TC5520
LOGU030310-GM	6.2	3.96	1.0	1	11.9	TSA-30064-1	TWA-T8	○	○

SOMT10/14

High Feed Face Mill Inserts

SOMT10/14 Series



Designation	Dimension (mm)						Grade		
	IC	S	RE	APMX	AN	Screw	Wrench	TC3320	TC5520
SOMT100420-GM	10.30	4.58	2.0	1.5	16°	TSA-40100-1	TWA-T15	○	○
SOMT140520-GM	14.14	5.56	2.0	2.0	16°	TSA-50120-1	TWA-T20	○	○

MILLING TOOLS SERIES

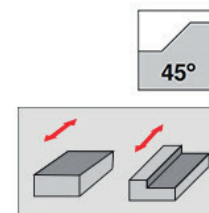
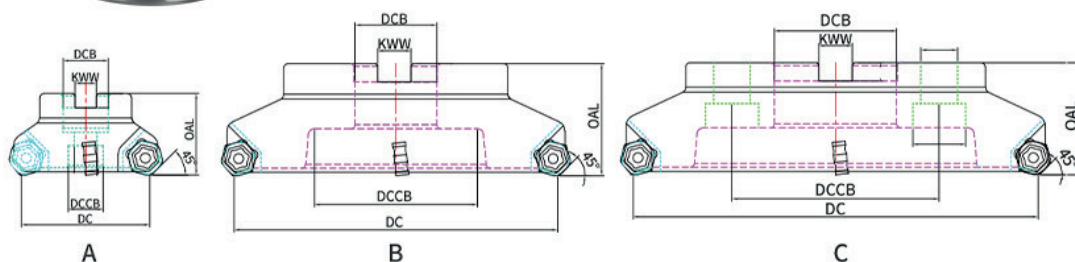
HNPJ07 / HNGU09



TF45HN07/09

Face Mill Cutter

HNPJ07/HNGU09 Series

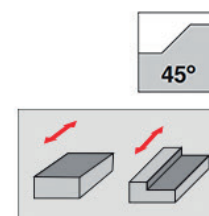
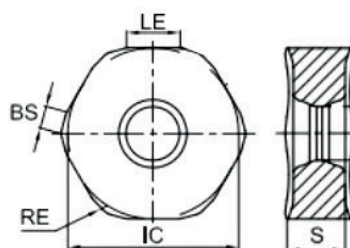


Designation	CIC	Dimension (mm)							Angel	INSERT
		APMX	DC	DCB	OAL	DCCB	KWW	Type		
TF45HN07-450-22	4	3.5	50	22	40	14	8.4	A	45°	HNPJ07...
TF45HN07-563-22	5	3.5	63	22	40	14	8.4	A	45°	HNPJ07...
TF45HN07-680-27	6	3.5	80	27	40	17	10.4	A	45°	HNPJ07...
TF45HN07-7100-32	7	3.5	100	32	40	17	10.4	A	45°	HNPJ07...
TF45HN07-8125-40	8	3.5	125	40	50	34	12.4	B	45°	HNPJ07...
TF45HN07-10160-40	10	3.5	160	40	40	14	8.4	B	45°	HNPJ07...
TF45HN09-450-22	4	4.5	50	22	40	17	10.4	A	45°	HNGU09...
TF45HN09-563-22	5	4.5	63	22	40	17	10.4	A	45°	HNGU09...
TF45HN09-680-27	6	4.5	80	27	50	34	12.4	A	45°	HNGU09...
TF45HN09-7100-32	7	4.5	100	32	50	42	14.4	A	45°	HNGU09...
TF45HN09-8125-40	8	4.5	125	40	55	50	16.4	B	45°	HNGU09...
TF45HN09-10160-40	10	4.5	160	40	55	80	16.4	B	45°	HNGU09...
TF45HN09-12200-60	12	4.5	200	60	55	101.6	25.8	C	45°	HNGU09...
TF45HN09-14250-60	14	4.5	250	60	55	101.6	25.8	C	45°	HNGU09...

HNPJ07/HNGU09

Face Mill Inserts

HNPJ07/HNGU09 Series



Designation	Dimension (mm)						Grade			
	IC	S	RE	LE	BS	Screw	Wrench	TC3320	TC5520	
HNPJ0704AN-GD	12.7	4.45	1.2	1.5	1.45	TSA-40100-1	TWA-T15	○	○	
HNGU0905AN-GM	15.88	5.56	1.2	1.2	1.35	TSA-40100-1	TWA-T15	○	○	

Milling Tool

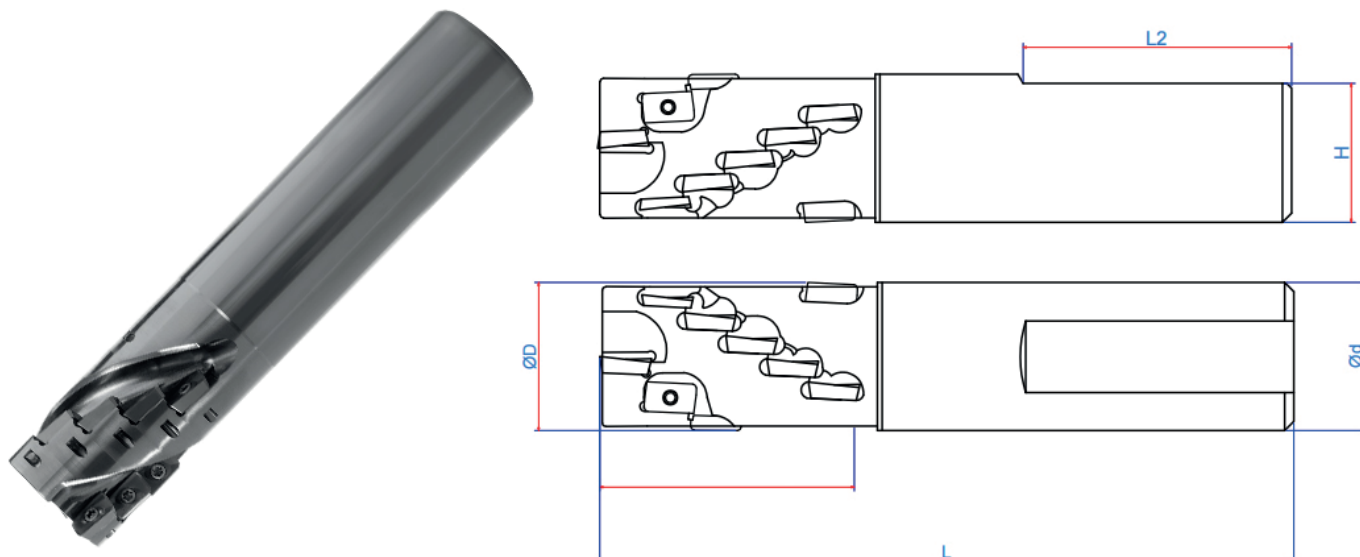
TSM300/400



TSM300/400

Helical Shell Mill

TSM300/400 Series

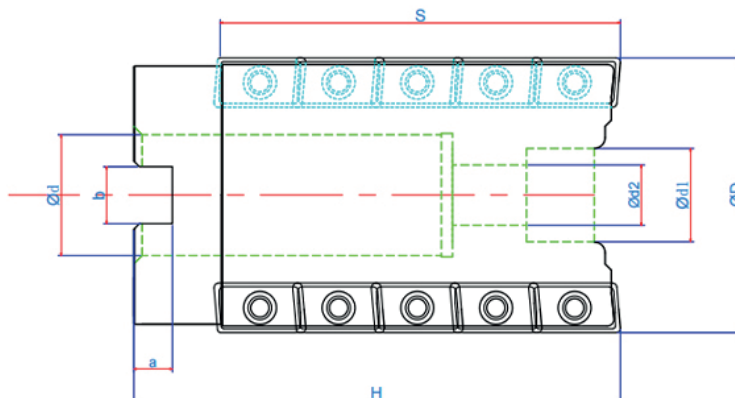


Designation	CICT	INSERT	Dimension (mm)/尺寸						Screw	Wrench
			ØD	Ød	L	L1	L2	H		
TSM300-219-20-26M-6-120	6	AP□□1135	19	20	120	26	58	23	TSA-25002-2	TWA-T8
TSM300-220-20-26M-6-120	6		20	20	120	26	58	23		
TSM300-219-20-44M-10-130	10		19	20	130	44	58	23		
TSM300-220-20-44M-10-130	10		20	20	130	44	58	23		
TSM300-219-20-70M-16-150	16		19	20	150	70	58	23		
TSM300-220-20-70M-16-150	16		20	20	150	70	58	23		
TSM300-224-25-35M-8-130	8		24	25	130	35	58	23		
TSM300-225-25-35M-8-130	8		25	25	130	35	58	23		
TSM300-224-25-44M-10-130	10		24	25	130	44	58	23		
TSM300-225-25-44M-10-130	10		25	25	130	44	58	23		
TSM300-224-25-70M-16-150	16		24	25	150	70	58	23		
TSM300-225-25-44M-16-150	16		25	25	150	70	58	23		
TSM300-331-32-44M-15-150	15		31	32	150	44	58	30		
TSM300-332-32-44M-15-150	15		32	32	150	44	58	30		
TSM400-231-32-41M-6-150	6	AP□□1604	31	32	150	41	58	30	TSA-40001-2	TWA-T15
TSM400-232-32-41M-6-150	6		32	32	150	41	58	30		
TSM400-231-32-69M-10-150	10		31	32	150	69	58	30		
TSM400-232-32-69M-10-150	10		32	32	150	69	58	30		
TSM400-234-32-55M-8-150	8		34	32	150	55	58	30		
TSM400-235-32-55M-8-150	8		35	32	150	55	58	30		
TSM400-234-32-69M-10-150	10		34	32	150	69	58	30		
TSM400-235-32-69M-10-150	10		35	32	150	69	58	30		
TSM400-339-32-69M-15-150	15		39	32	150	69	58	37		
TSM400-340-32-69M-15-150	15		40	32	150	69	58	37		
TSM400-339-32-97M-21-200	21		39	32	200	97	108	37		
TSM400-340-32-97M-21-200	21		40	32	200	97	108	37		

TSM400

Long Helical Shell Mill

TSM400 Series

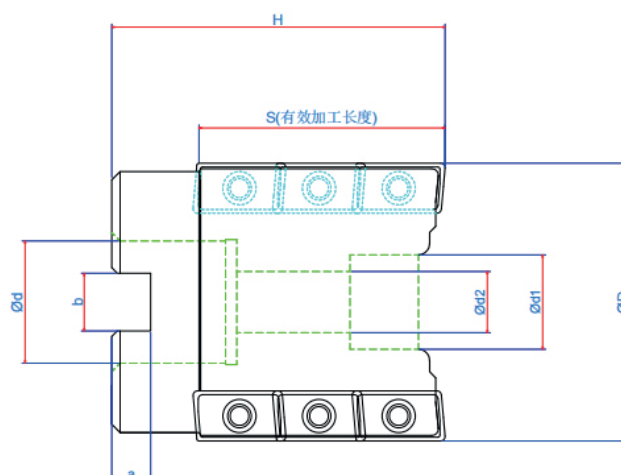


Designation	CICT	INSERT	Dimension (mm)								Screw	Wrench
			ØD	Ød	Ød1	Ød2	H	S	b	a		
TSM400-450-69M-20-22	20	AP□□1604	50	22	17	11	90	69	10.4	7	TSA-40001-2	TWA-T15
TSM400-450-97M-28-22	28		50	22	17	11	120	97	10.4	7		
TSM400-463-69M-20-27	20		63	27	20	14	90	69	12.4	7		
TSM400-463-97M-28-27	28		63	27	20	14	120	97	12.4	7		
TSM400-580-80M-30-32	30		80	32	27	18	110	80	14.4	9		
TSM400-580-120M-45-32	45		80	32	27	18	150	120	14.4	9		
TSM400-6100-80M-36-40	36		100	40	32	22	110	80	16.4	9		
TSM400-6100-120M-54-40	54		100	40	32	22	150	120	16.4	9		

TSM400

Helical Shell Mill

TSM400 Series



Designation	CICT	INSERT	Dimension (mm)								Screw	Wrench
			ØD	Ød	Ød1	Ød2	H	S	b	a		
TSM400-450-41M-12-22	12	AP□□1604	50	22	17	11	60	41	10.4	7	TSA-40001-2	TWA-T15
TSM400-450-55M-16-22	16		50	22	17	11	75	55	10.4	7		
TSM400-463-41M-12-27	12		63	27	20	14	60	41	12.4	7		
TSM400-463-55M-16-27	16		63	27	20	14	75	55	12.4	7		
TSM400-580-69M-25-32	25		80	32	27	18	95	69	14.4	9		
TSM400-6100-72M-36-40	36		100	40	32	22	110	72	16.4	9		

MILLING TOOLS SERIES

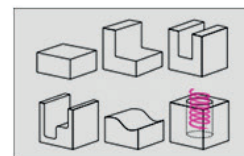
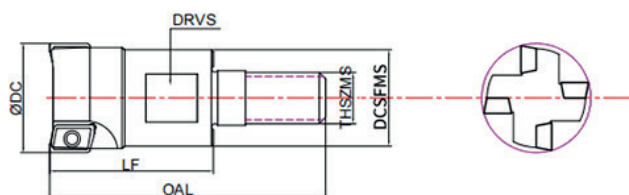
JDMT070204



TM90JD07

Modular heads

JDMT07 Series

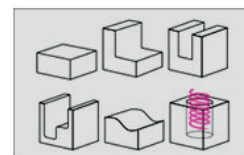
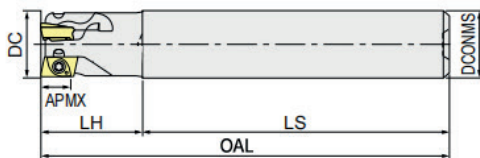


Designation 型号	CICT 齿数	Dimension (mm)/尺寸							THSZMS 螺纹规格	Angel 角度	INSERT 刀片
		APMX	DCX	DC	DCSFMS	OAL	LF	DRVS			
TM90JD07-108-M4	1	5	8	8	7.8	28	17	7	M4xP0.7	90°	JDMT07...
TM90JD07-109-M4	1	5	9	9	7.8	28	17	7	M4xP0.7	90°	JDMT07...
TM90JD07-210-M5	2	5	10	10	9	29	17	7	M5xP0.8	90°	JDMT07...
TM90JD07-311-M5	3	5	11	11	9	29	17	7	M5xP0.8	90°	JDMT07...
TM90JD07-312-M6	3	5	12	12	11	32	17	9	M6xP1.0	90°	JDMT07...
TM90JD07-313-M6	3	5	13	13	11	32	17	9	M6xP1.0	90°	JDMT07...
TM90JD07-314-M6	3	5	14	14	13	32	17	10	M6xP1.0	90°	JDMT07...
TM90JD07-416-M8	4	5	16	16	15	43	25	12	M8xP1.25	90°	JDMT07...
TM90JD07-417-M8	4	5	17	17	15	43	25	12	M8xP1.25	90°	JDMT07...

TE90JD07

End Mill Cutter

JDMT07 Series

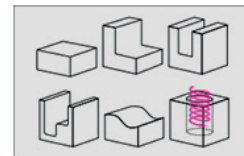
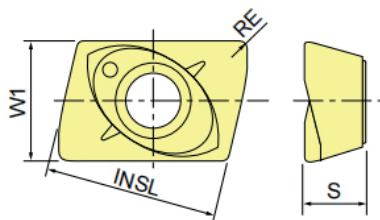


Designation 型号	CICT 齿数	Dimension (mm)/尺寸							Angel 角度	INSERT 刀片
		APMX	DCX	DC	DCONMS	OAL	LH	LS		
TE90JD07-108-10-100	1	5	8	8	10	100	17	83	90°	JDMT07...
TE90JD07-109-10-100	1	5	9	9	10	100	19	81	90°	JDMT07...
TE90JD07-210-10-100	2	5	10	10	10	100	22	78	90°	JDMT07...
TE90JD07-210-10-120	2	5	10	10	10	120	22	98	90°	JDMT07...
TE90JD07-211-10-100	2	5	11	11	10	100	11	89	90°	JDMT07...
TE90JD07-211-10-120	2	5	11	11	10	120	11	109	90°	JDMT07...
TE90JD07-312-12-80	3	5	12	12	12	80	26	54	90°	JDMT07...
TE90JD07-312-12-100	3	5	12	12	12	100	26	74	90°	JDMT07...
TE90JD07-312-12-120	3	5	12	12	12	120	26	94	90°	JDMT07...
TE90JD07-313-12-120	3	5	13	13	12	120	13	107	90°	JDMT07...
TE90JD07-314-14-100	3	5	14	14	14	100	30	70	90°	JDMT07...
TE90JD07-314-14-120	3	5	14	14	14	120	30	90	90°	JDMT07...
TE90JD07-314-14-160	3	5	14	14	14	160	30	130	90°	JDMT07...
TE90JD07-415-14-120	4	5	15	15	14	120	15	105	90°	JDMT07...
TE90JD07-415-14-160	4	5	15	15	14	160	15	145	90°	JDMT07...
TE90JD07-416-16-100	4	5	16	16	16	100	35	65	90°	JDMT07...
TE90JD07-416-16-120	4	5	16	16	16	120	35	85	90°	JDMT07...
TE90JD07-416-16-160	4	5	16	16	16	160	35	125	90°	JDMT07...
TE90JD07-417-16-120	4	5	17	17	16	120	17	103	90°	JDMT07...
TE90JD07-417-16-160	4	5	17	17	16	160	17	143	90°	JDMT07...

JDMT070204

Shoulder Mill Inserts

JDMT07 Series



Designation	Dimension (mm)/尺寸							Grade	
	INSL	S	RE	APMX	W1	Screw	Wrench	TC3320	TC5520
JDMT070204R	6.4	2.45	0.4	5	4.3	TSA-18040-1	TWA-T6	○	○

Milling Tool

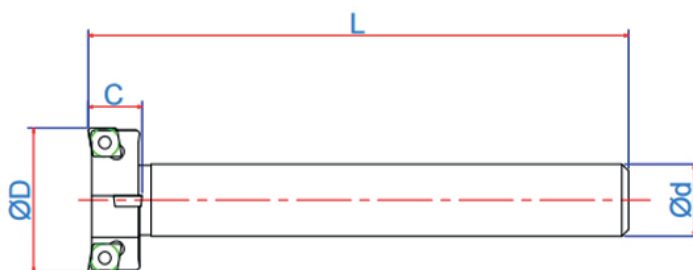
TMC/SMC/TMR



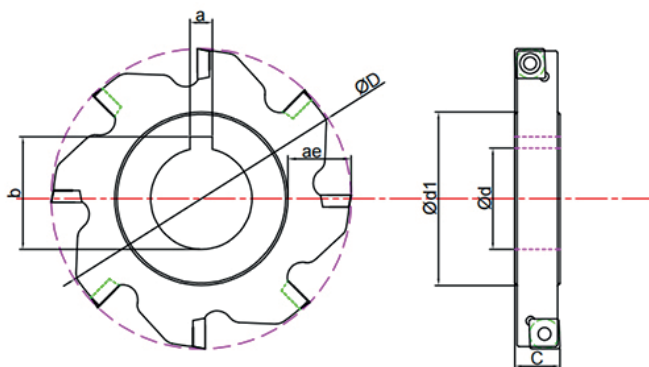
TMC

Slot Milling Cutters

TMC-CC06 Series



Designation	CICT	INSERT	Dimension (mm)				Screw	Wrench
			D	C	L	d		
TMC-20-H08-C14-T2-80-CC06	2		20	8	80	14		
TMC-20-H08-C14-T2-120-CC06	2		20	8	120	14		
TMC-20-H08-C14-T2-150-CC06	2		20	8	150	14		
TMC-20-H10-C14-T2-80-CC06	2		20	10	80	14		
TMC-20-H10-C14-T2-120-CC06	2		20	10	120	14		
TMC-20-H10-C14-T2-150-CC06	2		20	10	150	14		
TMC-25-H08-C16-T4-80-CC06	4		25	8	80	16		
TMC-25-H08-C16-T4-120-CC06	4		25	8	120	16		
TMC-25-H08-C16-T4-150-CC06	4		25	8	150	16		
TMC-25-H10-C16-T4-80-CC06	4		25	10	80	16		
TMC-25-H10-C16-T4-120-CC06	4		25	10	120	16		
TMC-25-H10-C16-T4-150-CC06	4		25	10	150	16		
TMC-30-H08-C16-T4-80-CC06	4		30	8	80	16		
TMC-30-H08-C16-T4-120-CC06	4		30	8	120	16		
TMC-30-H08-C16-T4-150-CC06	4		30	8	150	16		
TMC-30-H10-C16-T4-80-CC06	4		30	10	80	16		
TMC-30-H10-C16-T4-120-CC06	4		30	10	120	16		
TMC-30-H10-C16-T4-150-CC06	4		30	10	150	16		
TMC-35-H08-C20-T4-80-CC06	4		35	8	80	20		
TMC-35-H08-C20-T4-120-CC06	4		35	8	120	20		
TMC-35-H08-C20-T4-150-CC06	4		35	8	150	20		
TMC-35-H10-C20-T4-80-CC06	4	CC□T0602	35	10	80	20	TSA-25002-2	TWA-T8
TMC-35-H10-C20-T4-120-CC06	4		35	10	120	20		
TMC-35-H10-C20-T4-150-CC06	4		35	10	150	20		
TMC-40-H08-C20-T6-80-CC06	6		40	8	80	20		
TMC-40-H08-C20-T6-120-CC06	6		40	8	120	20		
TMC-40-H08-C20-T6-150-CC06	6		40	8	150	20		
TMC-40-H10-C20-T6-80-CC06	6		40	10	80	20		
TMC-40-H10-C20-T6-120-CC06	6		40	10	120	20		
TMC-40-H10-C20-T6-150-CC06	6		40	10	150	20		
TMC-50-H08-C25-T6-80-CC06	6		50	8	80	25		
TMC-50-H08-C25-T6-120-CC06	6		50	8	120	25		
TMC-50-H08-C25-T6-150-CC06	6		50	8	150	25		
TMC-50-H10-C25-T6-80-CC06	6		50	10	80	25		
TMC-50-H10-C25-T6-120-CC06	6		50	10	120	25		
TMC-50-H10-C25-T6-150-CC06	6		50	10	150	25		
TMC-63-H10-C32-T8-80-CC06	8		63	10	80	32		
TMC-63-H10-C32-T8-120-CC06	8		63	10	120	32		
TMC-63-H10-C32-T8-150-CC06	8		63	10	150	32		
TMC-80-H10-C32-T8-80-CC06	8		80	10	80	32		
TMC-80-H10-C32-T8-120-CC06	8		80	10	120	32		
TMC-80-H10-C32-T8-150-CC06	8		80	10	150	32		



Designation	CICT	INSERT	Dimension (mm)							Screw	Wrench
			ØD	Ød	Ød1	ae	C	b	a		
SMC-63-8-22-8T	8	MPHT06	63	22	35.2	13	8	25	7	TSA-25002-2	TWA-T8
SMC-63-10-22-8T	8		63	22	35.2	13	10	25	7	TSA-30002-2	TWA-T8
SMC-63-12-22-8T	8	MPHT08	63	22	35.2	13	12	25	7	TSA-50002-2	TWA-T20
SMC-63-16-22-6T	6	MPHT12	63	22	35.8	13	16	25	7	TSA-25002-2	TWA-T8
SMC-80-8-27-10T	10	MPHT06	80	27	46.2	16	8	31	7	TSA-30002-2	TWA-T8
SMC-80-10-27-10T	10		80	27	46.2	16	10	31	7	TSA-50002-2	TWA-T20
SMC-80-12-27-10T	10	MPHT08	80	27	46.2	16	12	31	7	TSA-25002-2	TWA-T8
SMC-80-16-27-6T	6	MPHT12	80	27	46.8	16	16	31	7	TSA-30002-2	TWA-T8
SMC-100-8-27-12T	12	MPHT06	100	27	46.2	26	8	31	7	TSA-50002-2	TWA-T20
SMC-100-10-27-12T	12		100	27	46.2	26	10	31	7	TSA-25002-2	TWA-T8
SMC-100-12-27-10T	10	MPHT08	100	27	46.2	26	12	31	7	TSA-30002-2	TWA-T8
SMC-100-16-27-8T	8	MPHT12	100	27	46.8	26	16	31	7	TSA-50002-2	TWA-T20
SMC-100-8-32-12T	12	MPHT06	100	32	50.2	24	8	36	8	TSA-25002-2	TWA-T8
SMC-100-10-32-12T	12		100	32	50.2	24	10	36	8	TSA-30002-2	TWA-T8
SMC-100-12-32-10T	10	MPHT08	100	32	50.2	24	12	36	8	TSA-50002-2	TWA-T20
SMC-100-16-32-8T	8	MPHT12	100	32	50.8	24	16	36	8	TSA-25002-2	TWA-T8
SMC-100-20-32-8T	8		100	32	50.8	24	20	36	8	TSA-30002-2	TWA-T8
SMC-125-8-40-14T	14	MPHT06	125	40	59.2	32	8	45	10	TSA-50002-2	TWA-T20
SMC-125-10-40-14T	14		125	40	59.2	32	10	45	10	TSA-25002-2	TWA-T8
SMC-125-12-40-12T	12	MPHT08	125	40	59.2	32	12	45	10	TSA-30002-2	TWA-T8
SMC-125-16-40-8T	8	MPHT12	125	40	59.8	32	16	45	10	TSA-50002-2	TWA-T20
SMC-125-20-40-8T	8		125	40	59.8	32	20	45	10	TSA-25002-2	TWA-T8
SMC-160-10-40-16T	16	MPHT06	160	40	59.2	49	10	45	10	TSA-30002-2	TWA-T8
SMC-160-12-40-12T	12		160	40	59.2	49	12	45	10	TSA-50002-2	TWA-T20
SMC-160-16-40-10T	10	MPHT12	160	40	59.8	49	16	45	10	TSA-25002-2	TWA-T8
SMC-160-20-40-10T	10		160	40	59.8	49	20	45	10	TSA-30002-2	TWA-T8
SMC-200-10-50-16T	16	MPHT06	200	50	71.2	63	10	55.2	14	TSA-50002-2	TWA-T20
SMC-200-12-50-16T	16		200	50	71.2	63	12	55.2	14	TSA-25002-2	TWA-T8
SMC-200-16-50-16T	16	MPHT12	200	50	71.8	63	16	55.2	14	TSA-30002-2	TWA-T8
SMC-200-20-50-16T	16		200	50	71.8	63	20	55.2	14	TSA-50002-2	TWA-T20
SMC-250-10-50-16T	16	MPHT06	250	50	71.2	88	10	55.2	14	TSA-25002-2	TWA-T8
SMC-250-12-50-16T	16		250	50	71.2	88	12	55.2	14	TSA-30002-2	TWA-T8
SMC-250-16-50-16T	16	MPHT12	250	50	71.8	88	16	55.2	14	TSA-50002-2	TWA-T20
SMC-250-20-50-16T	16		250	50	71.8	88	20	55.2	14	TSA-25002-2	TWA-T8

TMR

Slot Milling Cutters

TMR-RC/RP Series

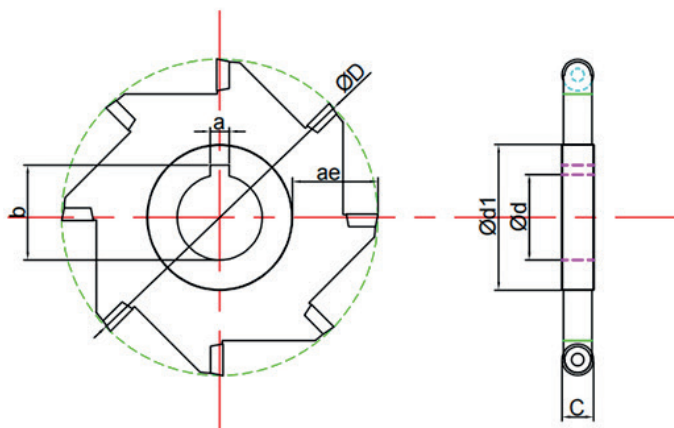


Designation	CICT	INSERT	Dimension (mm)				Screw	Wrench
			D	C	L	d		
TMR-20-R3-C14-T3-120	3	RC□T0602	20	6	120	14	TSA-25002-2	TWA-T8
TMR-20-R4-C14-T2-120	2	RP□T08T2	20	8	120	14	TSA-25002-2	TWA-T8
TMR-25-R3-C14-T4-120	4	RC□T0602	25	6	120	14	TSA-25002-2	TWA-T8
TMR-25-R4-C14-T3-120	3	RP□T08T2	25	8	120	14	TSA-25002-2	TWA-T8
TMR-25-R5-C14-T2-120	2	RP□T10T3	25	10	120	14	TSA-35003-2	TWA-T15
TMR-30-R3-C16-T5-120	5	RC□T0602	30	6	120	16	TSA-25002-2	TWA-T8
TMR-30-R4-C16-T4-120	4	RP□T08T2	30	8	120	16	TSA-25002-2	TWA-T8
TMR-30-R5-C16-T3-120	3	RP□T10T3	30	10	120	16	TSA-35003-2	TWA-T15
TMR-30-R6-C16-T2-120	2	RP□T1204	30	12	120	16	TSA-40001-2	TWA-T15
TMR-35-R3-C16-T5-120	5	RC□T0602	35	6	120	16	TSA-25002-2	TWA-T8
TMR-35-R4-C16-T5-120	5	RP□T08T2	35	8	120	16	TSA-25002-2	TWA-T8
TMR-35-R5-C16-T3-120	3	RP□T10T3	35	10	120	16	TSA-35003-2	TWA-T15
TMR-35-R6-C16-T2-120	2	RP□T1204	35	12	120	16	TSA-40001-2	TWA-T15
TMR-40-R3-C20-T6-120	6	RC□T0602	40	6	120	20	TSA-25002-2	TWA-T8
TMR-40-R4-C20-T5-120	5	RP□T08T2	40	8	120	20	TSA-25002-2	TWA-T8
TMR-40-R5-C20-T4-120	4	RP□T10T3	40	10	120	20	TSA-35003-2	TWA-T15
TMR-40-R6-C20-T3-120	3	RP□T1204	40	12	120	20	TSA-40001-2	TWA-T15
TMR-45-R3-C20-T6-120	6	RC□T0602	45	6	120	20	TSA-25002-2	TWA-T8
TMR-45-R4-C20-T5-120	5	RP□T08T2	45	8	120	20	TSA-25002-2	TWA-T8
TMR-45-R5-C20-T4-120	4	RP□T10T3	45	10	120	20	TSA-35003-2	TWA-T15
TMR-45-R6-C20-T4-120	4	RP□T1204	45	12	120	20	TSA-40001-2	TWA-T15
TMR-50-R3-C25-T6-120	6	RC□T0602	50	6	120	25	TSA-25002-2	TWA-T8
TMR-50-R4-C25-T6-120	6	RP□T08T2	50	8	120	25	TSA-25002-2	TWA-T8
TMR-50-R5-C25-T4-120	4	RP□T10T3	50	10	120	25	TSA-35003-2	TWA-T15
TMR-50-R6-C25-T4-120	4	RP□T1204	50	12	120	25	TSA-40001-2	TWA-T15

TMR

Slot Milling Cutters

TMR-RC/RP Series



Designation	CICT	INSERT	Dimension (mm)							Screw	Wrench
			ØD	Ød	Ød1	ae	C	b	a		
TMR-63-R3-8-M22	8	RC□□0602	63	22	34.4	14.3	6	25	7	TSA-25002-2	TWA-T8
TMR-63-R4-6-M22	6	RP□□08T2	63	22	34.4	14.3	8	25	7	TSA-25002-2	TWA-T8
TMR-63-R5-6-M22	6	RP□□10T3	63	22	34.4	14.3	10	25	7	TSA-35003-2	TWA-T10
TMR-63-R6-5-M22	5	RP□□1204	63	22	34.4	14.3	12	25	7	TSA-40001-2	TWA-T15
TMR-80-R3-8-M27	8	RC□□0602	80	27	46	17	6	31	7	TSA-25002-2	TWA-T8
TMR-80-R4-7-M27	7	RP□□08T2	80	27	46	17	8	31	7	TSA-25002-2	TWA-T8
TMR-80-R5-6-M27	6	RP□□10T3	80	27	46	17	10	31	7	TSA-35003-2	TWA-T10
TMR-80-R6-6-M27	6	RP□□1204	80	27	46	17	12	31	7	TSA-40001-2	TWA-T15
TMR-100-R3-10-M27	10	RC□□0602	100	27	46	27	6	31	7	TSA-25002-2	TWA-T8
TMR-100-R4-8-M27	8	RP□□08T2	100	27	46	27	8	31	7	TSA-25002-2	TWA-T8
TMR-100-R5-8-M27	8	RP□□10T3	100	27	46	27	10	31	7	TSA-35003-2	TWA-T10
TMR-100-R6-6-M27	6	RP□□1204	100	27	46	27	12	31	7	TSA-40001-2	TWA-T15
TMR-125-R4-10-M32	10	RP□□08T2	125	32	49.3	37.5	8	36	8	TSA-25002-2	TWA-T8
TMR-125-R5-8-M32	8	RP□□10T3	125	32	49.3	37.5	10	36	8	TSA-35003-2	TWA-T10
TMR-125-R6-8-M32	8	RP□□1204	125	32	49.3	37.5	12	36	8	TSA-40001-2	TWA-T15
TMR-125-R8-6-M32	6	RD□□1604	125	32	49.3	37.5	16	36	8		
TMR-160-R4-12-M40	12	RP□□08T2	160	40	58.3	50.5	8	45	10	TSA-25002-2	TWA-T8
TMR-160-R5-10-M40	10	RP□□10T3	160	40	58.3	50.5	10	45	10	TSA-35003-2	TWA-T10
TMR-160-R6-8-M40	8	RP□□1204	160	40	58.3	50.5	12	45	10	TSA-40001-2	TWA-T15
TMR-160-R8-8-M40	8	RD□□1604	160	40	58.3	50.5	16	45	10		
TMR-200-R5-12-M50	12	RP□□10T3	200	50	70.3	64.5	10	55.2	14	TSA-35003-2	TWA-T10
TMR-200-R6-10-M50	10	RP□□1204	200	50	70.3	64.5	12	55.2	14	TSA-40001-2	TWA-T15
TMR-200-R8-8-M50	8	RD□□1604	200	50	70.3	64.5	16	55.2	14		
TMR-200-R10-8-M50	8	RD□□2006	200	50	70.3	64.5	20	55.2	14		
TMR-250-R5-12-M50	12	RP□□10T3	250	50	70.3	89.5	10	55.2	14	TSA-35003-2	TWA-T10
TMR-250-R6-12-M50	12	RP□□1204	250	50	70.3	89.5	12	55.2	14	TSA-40001-2	TWA-T15
TMR-250-R8-10-M50	10	RD□□1604	250	50	70.3	89.5	16	55.2	14		
TMR-250-R10-8-M50	8	RD□□2006	250	50	70.3	89.5	20	55.2	14		

Milling Tool

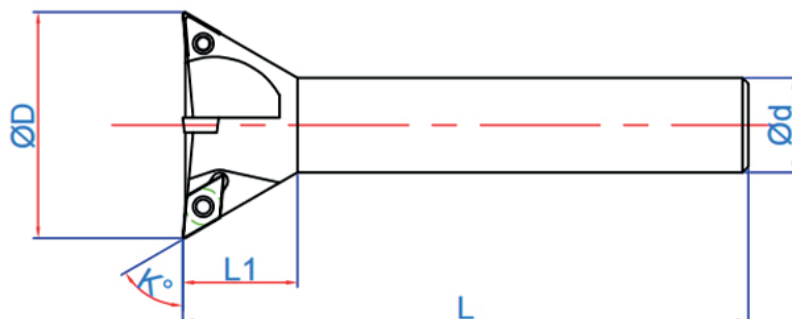
TAM



TAM

Slot Milling Cutters

TAM-45/55/60 Series

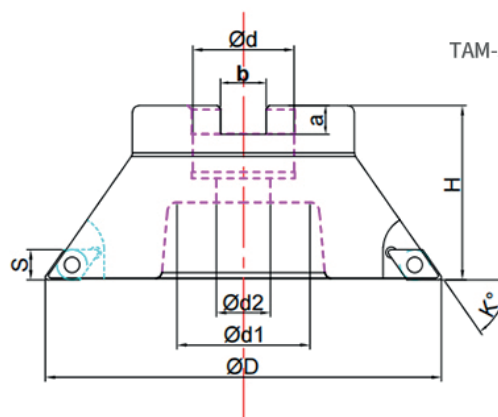


Designation	CICT	INSERT	Dimension (mm)					Screw	Wrench
			D	Ød	L	L1	K°		
TAM45-30-C20-120-2T-VC08	2	VC□T08	30	20	120	25	45	TSA-20002-2	TWA-T6
TAM45-40-C20-160-2T-VC11	2	VC□T11	40	20	160	25	45	TSA-25002-2	TWA-T8
TAM45-50-C25-160-3T-VC11	3	VC□T11	50	25	160	30	45	TSA-40001-2	TWA-T15
TAM45-60-C32-160-3T-VC16	3	VC□T16	60	32	160	40	45		
TAM45-80-C32-160-4T-VC16	4	VC□T16	80	32	160	40	45	TSA-25002-2	TWA-T8
TAM55-25-C20-120-2T-DC07	2	DC□T07	25	20	120	25	55		
TAM55-30-C20-120-3T-DC07	3	DC□T07	30	20	120	25	55	TSA-40001-2	TWA-T15
TAM55-40-C25-160-3T-DC11	3	DC□T11	40	25	160	30	55		
TAM55-50-C32-160-3T-DC11	3	DC□T11	50	32	160	40	55	TSA-40001-2	TWA-T15
TAM55-60-C32-160-4T-DC11	4	DC□T11	60	32	160	40	55		
TAM55-80-C32-160-5T-DC11	5	DC□T11	80	32	160	40	55	TSA-25002-2	TWA-T8
TAM60-25-C20-120-2T-DC07	2	DC□T07	25	20	120	25	60		
TAM60-30-C20-120-3T-DC07	3	DC□T07	30	20	120	25	60	TSA-40001-2	TWA-T15
TAM60-40-C25-160-3T-DC11	3	DC□T11	40	25	160	30	60		
TAM60-50-C32-160-3T-DC11	3	DC□T11	50	32	160	40	60	TSA-40001-2	TWA-T15
TAM60-60-C32-160-4T-DC11	4	DC□T11	60	32	160	40	60		
TAM60-80-C32-160-4T-DC11	4	DC□T11	80	32	160	45	60		

TAM

Slot Milling Cutters

TAM-55/60 Series



Designation	CICT	INSERT	Dimension (mm)									Screw	Wrench
			D	Ød	Ød1	Ød2	H	S	b	K°	a		
TAM55DC11-6100-27	6	DC□T11	100	27	34	13	50	8	12.4	55	7	TSA-40001-2	TWA-T15
TAM55DC11-7125-32	7		125	32	42	17	55	8	14.4	55	9		
TAM60DC11-6100-27	6		100	27	34	13	50	8	12.4	60	7		
TAM60DC11-7125-32	7		125	32	42	17	55	8	14.4	60	9		

MULTI-FUNCTION TOOL

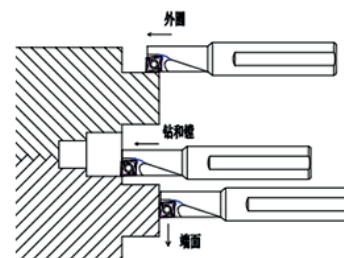
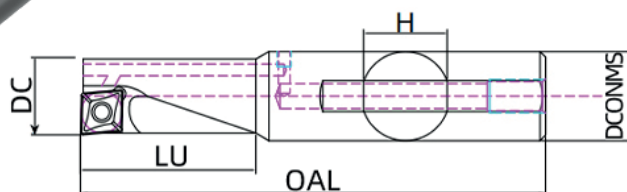
TCAP2.25D/TCAP3.25D



TCAP...-2.25D/3.25D

Multi-function Drill

TCAP Series

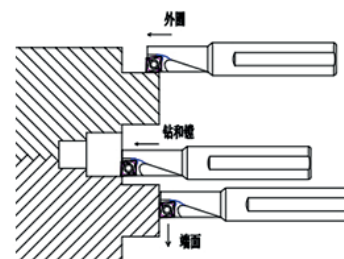
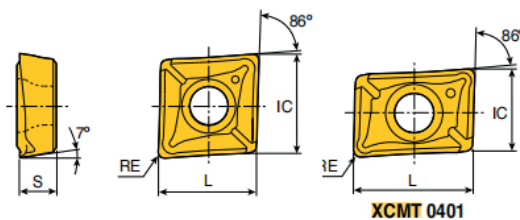


Designation	Dimension (mm)					INSERT
	DC	LU	OAL	H	DCONMS	
TCAP 08R/L-2.25D-ST	8	18.0	60.0	9	10	XCMT040104-TC
TCAP 10R/L-2.25D-ST	10	22.5	69.5	11	12	XCMT050204-TC
TCAP 12R/L-2.25D-ST	12	27.0	78.0	15	16	XCMT060204-TC
TCAP 14R/L-2.25D-ST	14	31.5	83.5	15	16	XCMT070304-TC
TCAP 16R/L-2.25D-ST	16	36.0	94.0	15	16	XCMT080304-TC
TCAP 20R/L-2.25D-ST	20	45.0	111.0	18	20	XCMT10T304-TC
TCAP 08R/L-3.25D-ST	8	26.0	68.0	9	10	XCMT040104-TC
TCAP 10R/L-3.25D-ST	10	32.5	79.5	11	12	XCMT050204-TC
TCAP 12R/L-3.25D-ST	12	39.0	90.0	15	16	XCMT060204-TC
TCAP 14R/L-3.25D-ST	14	45.5	97.5	15	16	XCMT070304-TC
TCAP 16R/L-3.25D-ST	16	52.0	110.0	15	16	XCMT080304-TC
TCAP 20R/L-3.25D-ST	20	65.0	131.0	18	20	XCMT10T304-TC

XCMT 04-10

Multi-function Drill Inserts

XCMT Series



Designation	Dimension (mm)						Grade	
	IC	S	L	RE	Screw	Wrench	TC3320	TC5520
XCMT040104-TC	4.4	1.70	6.4	0.4	TSA-18040-1	TWA-T6	○	○
XCMT050204-TC	5.6	2.10	5.6	0.4	TSA-20040-1	TWA-T6	○	○
XCMT060204-TC	6.4	2.38	6.4	0.4	TSA-22040-1	TWA-T6	○	○
XCMT070304-TC	7.5	3.18	7.5	0.4	TSA-25060-1	TWA-T8	○	○
XCMT080304-TC	8.4	3.18	8.4	0.4	TSA-30064-1	TWA-T10	○	○
XCMT10T304-TC	10.5	3.97	10.5	0.4	TSA-35010-1	TWA-T15	○	○

AP16
SP

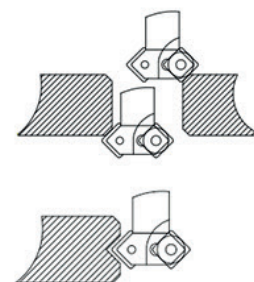
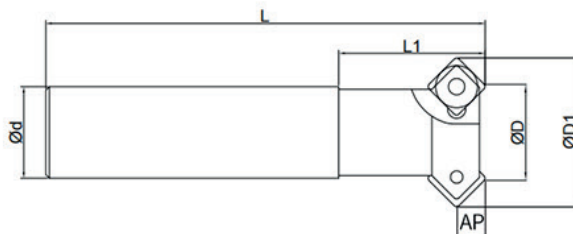
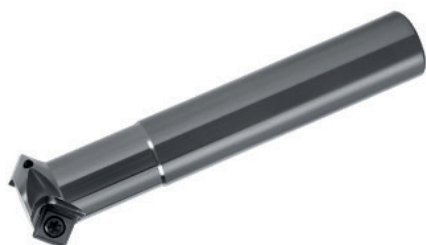
MULTI-FUNCTION TOOL



SP

Indexable Chamfer Cutter

MF2-1 Series

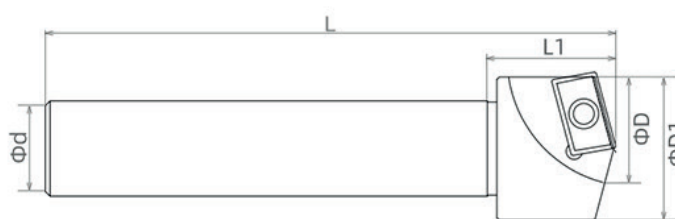


Designation	Inserts	Blade	Dimension (mm)					Angel	AP	Screw	Wrench
			D	D1	d	L	L1				
CC45-SP05-4-1T10-100	SP□□0502	1	3.9	10	10	100	20	45°	3.14	TSA-M2.2003	TWA-T6
CC45-SP06-5-1T12-100	SP□□0602	1	4.4	12	12	100	20	45°	4.04	TSA-M2.5003	TWA-T8
CC45-SP05-8-1T14-120	SP□□0502	1	7.9	14	14	120	28	45°	3.14	TSA-M2.2003	TWA-T6
CC45-SP05-10-2T16-120	SP□□0502	2	9.9	16	16	120	32	45°	3.14	TSA-M2.2003	TWA-T6
CC45-SP06-11-2T16-120	SP□□0602	2	10.4	18	16	120	36	45°	4.04	TSA-M2.5003	TWA-T8
CC45-SP06-13-2T16-120	SP□□0602	2	12.2	20	16	120	40	45°	4.04	TSA-M2.5003	TWA-T8
CC45-SP07-16-2T16-120	SP□□07T3	2	15.6	25	16	120	50	45°	5.17	TSA-M3.0003	TWA-T8
CC45-SP09-19-2T20-120	SP□□0904	2	18.9	31	20	120	40	45°	6.29	TSA-M3.5003	TWA-T15
CC45-SP11-26-2T25-120	SP□□1104	2	25.6	40	25	120	50	45°	8.53	TSA-M4.0003	TWA-T15

AP16

Indexable Chamfer Cutter

MF2-2 Series



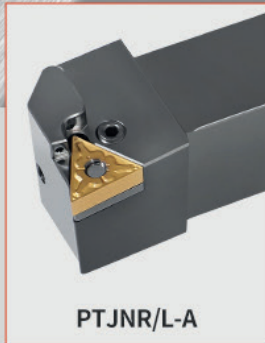
Designation	Inserts	Blade	Dimension (mm)					Angel	AP	Screw	Wrench
			D	D1	d	L	L1				
CC75-AP16-1T-S20-120	AP□T1604	1	1.2	32	20	120	25	75°	15.4	TSA-M4.0-006	TWA-T15
CC60-AP16-1T-S20-120	AP□T1604	1	4.5	32	20	120	25	60°	13.8	TSA-M4.0-006	TWA-T15
CC45-AP16-1T-S20-120	AP□T1604	1	9.6	32	20	120	25	45°	11.2	TSA-M4.0-006	TWA-T15
CC30-AP16-1T-S20-120	AP□T1604	1	16.2	32	20	120	25	30°	7.9	TSA-M4.0-006	TWA-T15

TURNING TOOL

PWLNR/L-A / PCLNR/L-A / PTJNR/L-A
MGNVR/L-A / MGEHR/L-A



PWLNR/L-A



PTJNR/L-A



PCLNR/L-A



MGNVR/L-A

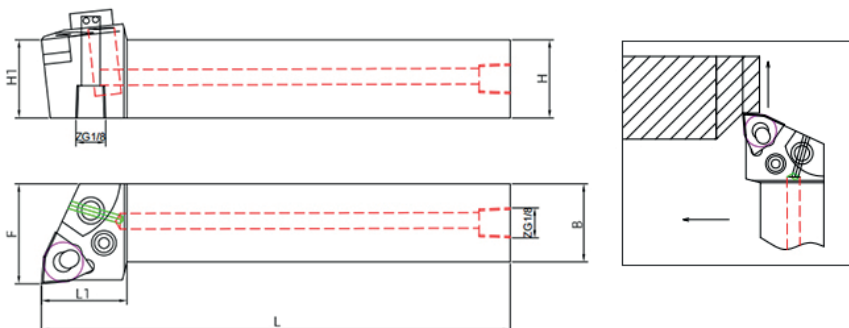
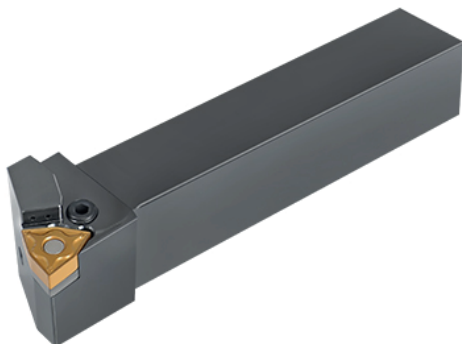









MGEHR/L-A

PWLNR/L-A

Jetstream Turning Holder

PWLNR/L-A Series

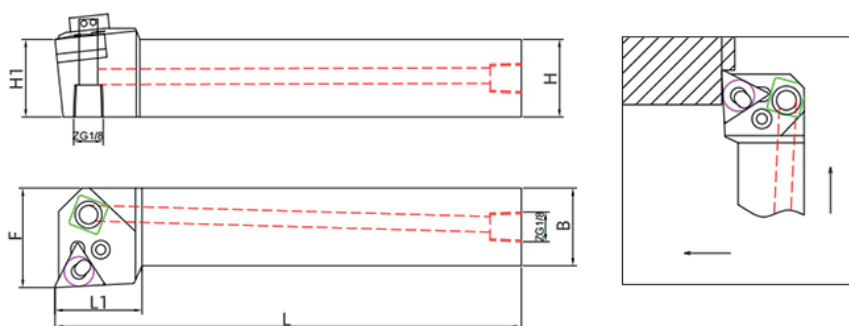
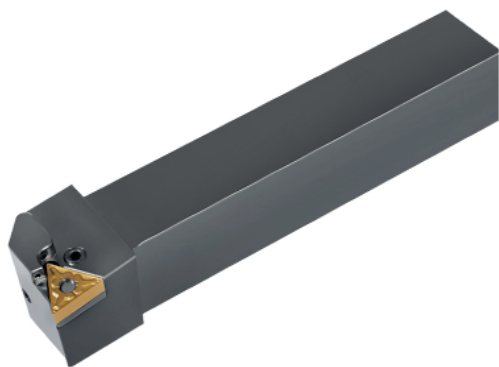









Designation	Inserts 	Dimension (mm)						Parts						
		H	B	L	L1	H1	F							
PWLNR/L2020K08-A	WN□□0804□□	20	20	125	29	20	25	0516	0812	0803	0606	0607	L3	ZG1/8
PWLNR/L2525M08-A		25	25	150	28	25	32					0608		
PWLNR/L3232P08-A		32	32	170	30	32	40							

PTJNR/L-A

Jetstream Turning Holder

PTJNR/L-A Series

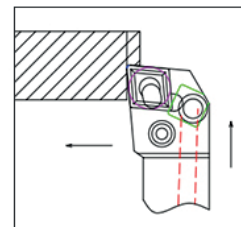
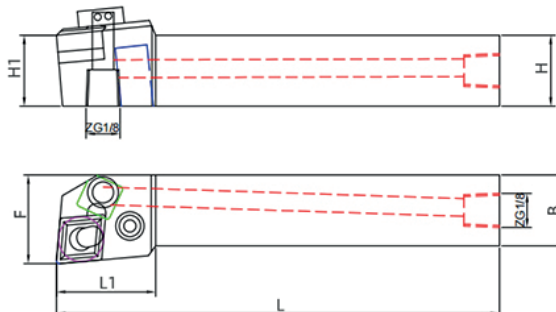









Designation	Inserts 	Dimension (mm)						Parts						
		H	B	L	L1	H1	F							
PTJNR/L2020K16-A	TN□□1604□□	20	20	125	22	20	25	0313	0610	1602	0505	0409	L2.5	ZG1/8
PTJNR/L2525M16-A		25	25	150	28	25	32					0411		
PTJNR/L3232P16-A		32	32	170	28	32	40							

PCLNR/L-A

Jetstream Turning Holder

PCLNR/L-A Series

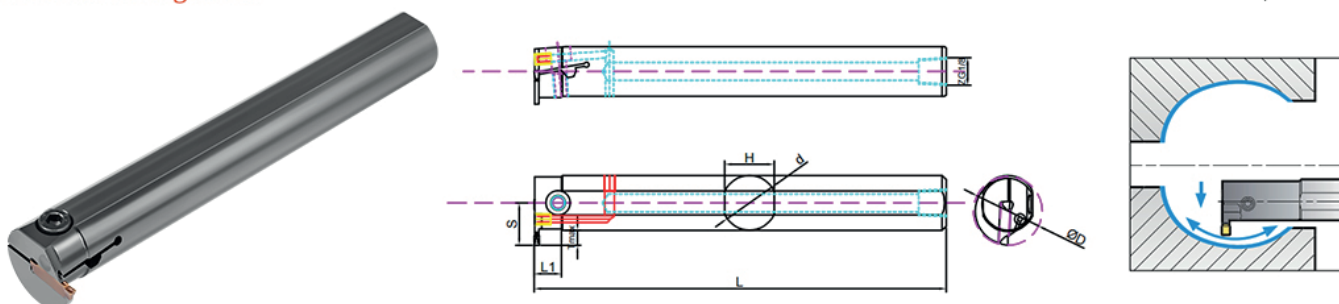


Designation	Inserts 	Dimension (mm)						Parts						
		H	B	L	L1	H1	F							
PCLNR/L2020K12-A	CN□□1204□□	20	20	125	22	20	25	GGX	NLJ-P	CN-P	DPX	0607	L3	ZG1/8
PCLNR/L2525M12-A		25	25	150	28	25	32					0608		
PCLNR/L3232P12-A		32	32	170	28	32	40							

MGNVR/L-A

Jetstream Grooving Holder

MGNVR/L-A Series

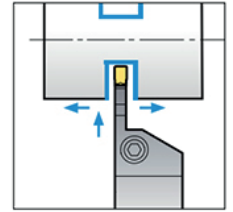
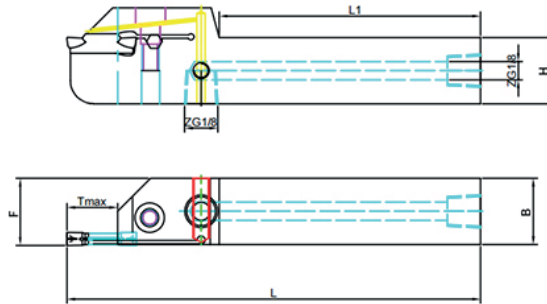
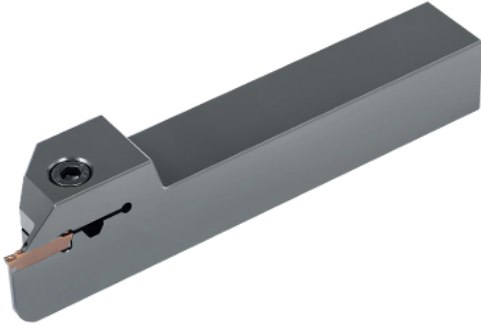


Designation		Dimension (mm)							Inserts	Parts		
		DMIN	D	L	L1	H	Tmax	S		NLJ	TSA	
MGNVR/L	1620M-2-T3-A	20	16	150	10	15	3	11.4	MGMN200	NLJ0416	L3	ZG1/8
	1622M-2-T5-A	22	16	150	10	15	5	13.4				
	1624M-2-T7-A	24	16	150	10	15	7	15.4				
	2026M-2-T5-A	26	20	150	10	18	5	15.4				
	2028M-2-T7-A	28	20	150	10	18	7	17.4	MGMN250	NLJ0520	L4	
	2030M-2-T9-A	30	20	150	10	18	9	19.4				
	1622M-2.5-T5-A	22	16	150	10	15	5	13.4				
	1624M-2.5-T7-A	24	16	150	10	15	7	15.4				
	1626M-2.5-T9-A	26	16	150	10	15	9	17.4	MGMN300	NLJ0416	L3	
	2027M-2.5-T6-A	27	20	150	10	18	6	16.4				
	2029M-2.5-T8-A	29	20	150	10	18	8	18.4				
	2031M-2.5-T10-A	31	20	150	10	18	10	20.4				
	1622M-3-T5-A	22	16	150	10	15	5	13.4	MGMN400	NLJ0520	L4	
	1624M-3-T7-A	24	16	150	10	15	7	15.4				
	1626M-3-T9-A	26	16	150	10	15	9	17.4				
	2027M-3-T6-A	27	20	150	10	18	6	16.4				
	2029M-3-T8-A	29	20	150	10	18	8	18.4	MGMN500	NLJ0520	L4	
	2031M-3-T10-A	31	20	150	10	18	10	20.4				
	2532R-3-T6-A	32	25	200	10	23	6	18.9				
	2534R-3-T8-A	34	25	200	10	23	8	20.9				
	2536R-3-T10-A	36	25	200	10	23	10	22.9	MGMN400	NLJ0520	L4	
	2538R-3-T12-A	38	25	200	10	23	12	24.9				
	3239S-3-T6-A	39	32	250	10	29	6	22.4				
	3241S-3-T8-A	41	32	250	10	29	8	24.4				
	3243S-3-T10-A	43	32	250	10	29	10	26.4	MGMN500	NLJ0520	L4	
	3245S-3-T12-A	45	32	250	10	29	12	28.4				
	2532R-4-T6-A	32	25	200	10	23	6	18.9				
	2534R-4-T8-A	34	25	200	10	23	8	20.9				
	2536R-4-T10-A	36	25	200	10	23	10	22.9	MGMN500	NLJ0520	L4	
	2538R-4-T12-A	38	25	200	10	23	12	24.9				
	3239S-4-T6-A	39	32	250	10	29	6	22.4				
	3241S-4-T8-A	41	32	250	10	29	8	24.4				
	3243S-4-T10-A	43	32	250	10	29	10	26.4	MGMN500	NLJ0520	L4	
	3245S-4-T12-A	45	32	250	10	29	12	28.4				
	2532R-5-T6-A	32	25	200	10	23	6	18.9				
	2534R-5-T8-A	34	25	200	10	23	8	20.9				
	2536R-5-T10-A	36	25	200	10	23	10	22.9	MGMN500	NLJ0520	L4	
	2538R-5-T12-A	38	25	200	10	23	12	24.9				
	3241S-5-T8-A	41	32	250	10	29	8	24.4				
	3243S-5-T10-A	43	32	250	10	29	10	26.4				
3245S-5-T12-A	45	32	250	10	29	12	28.4	MGMN500	NLJ0520	L4		
3249S-5-T16-A	49	32	250	10	29	16	32.4					

MGEHR/L-A

Jetstream Grooving Holder

MGEHR/L-A Series



Designation		Dimension (mm)						Inserts	Parts	
		H	B	L 全长	L1	F	Tmax		NLJ	TSA
MGEHR/L	2020K-2T8-A	20	20	125	84	20.20	8	MGMN200	NLJ0520	L4
	2020K-2T13-A	20	20	125	84	20.20	13			
	2020K-3T10-A	20	20	125	84	20.32	10	MGMN300		
	2020K-3T15-A	20	20	125	79	20.32	15			
	2020K-3T20-A	20	20	125	74	20.32	20	MGMN400		
	2020K-4T10-A	20	20	125	84	20.30	10			
	2020K-4T15-A	20	20	125	79	20.30	15	MGMN500		
	2020K-4T20-A	20	20	125	74	20.30	20			
	2020K-5T10-A	20	20	125	84	20.50	10	MGMN200		
	2020K-5T15-A	20	20	125	79	20.50	15			
	2020K-5T20-A	20	20	125	74	20.50	20	NLJ0625	L5	
	2525K-2T8-A	25	25	150	110	25.20	8			
	2525K-2T13-A	25	25	150	110	25.20	13			
	2525K-3T10-A	25	25	150	110	25.33	10			MGMN300
	2525K-3T15-A	25	25	150	110	25.33	15			
	2525K-3T20-A	25	25	150	105	25.33	20			MGMN400
	2525K-4T10-A	25	25	150	110	25.33	10			
	2525K-4T15-A	25	25	150	110	25.33	15			MGMN500
	2525K-4T20-A	25	25	150	105	25.33	20			
	2525K-5T10-A	25	25	150	110	25.50	10			MGMN200
2525K-5T15-A	25	25	150	110	25.50	15				
2525K-5T20-A	25	25	150	105	25.50	20	NLJ0625	L5		

ZG1/8

DWLNR/L DCLNR/L DTJNR/L
DDJNR/L DVJNR/L DVQNR/L
PWLNR/L PCLNR/L PTJNR/L

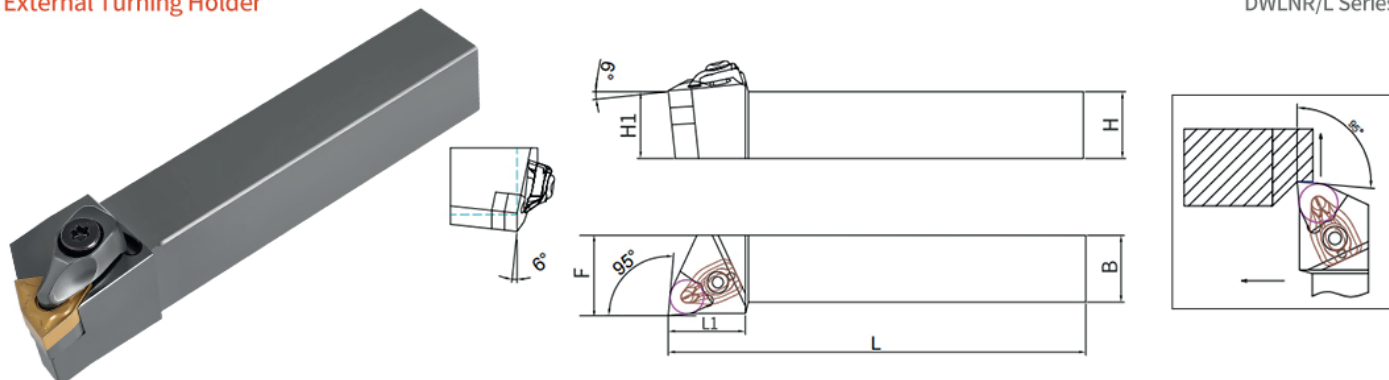
TURNING TOOL










DWLNR/L

External Turning Holder

DWLNR/L Series

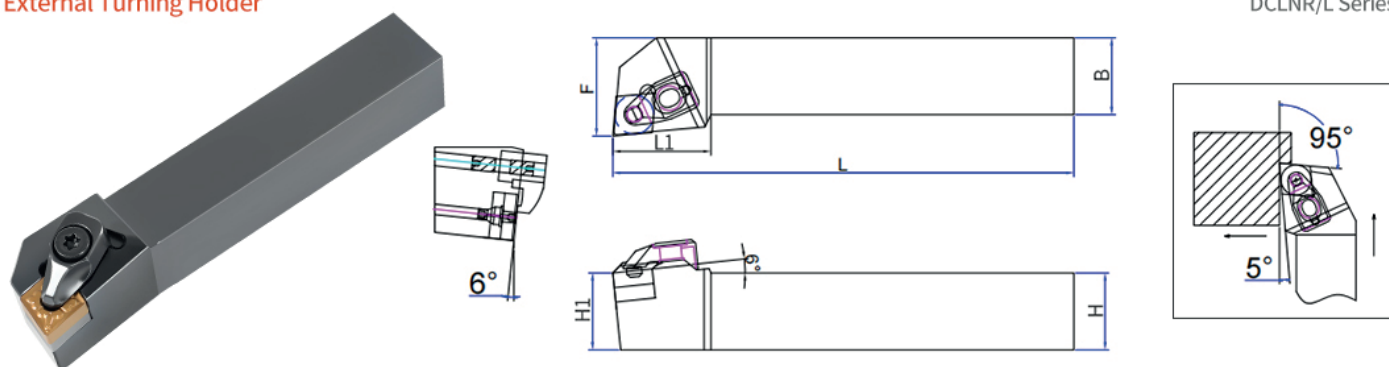









Designation	Inserts 	Dimension (mm)						Parts					
		H	B	L	L1	H1	F						
	WN□□0604□□							WN	DXD	DYB	MHGD	TH	TSA
DWLNR/L1616H06	WN□□0604□□	16	16	100	28	16	20	0603	0512	2412-A	0520	0814	T20
DWLNR/L2020K06		20	20	125	28	20	25						
DWLNR/L2525M06		25	25	150	30	25	32						
DWLNR/L1616H08	WN□□0804□□	16	16	100	32	16	20	0804	0614	2412-B			
DWLNR/L2020K08		20	20	125	32	20	25						
DWLNR/L2525M08		25	25	150	32	25	32						
DWLNR/L3232P08		32	32	170	35	32	40						

DCLNR/L

External Turning Holder

DCLNR/L Series

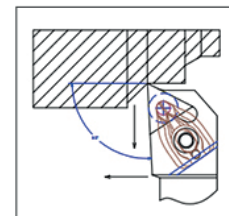
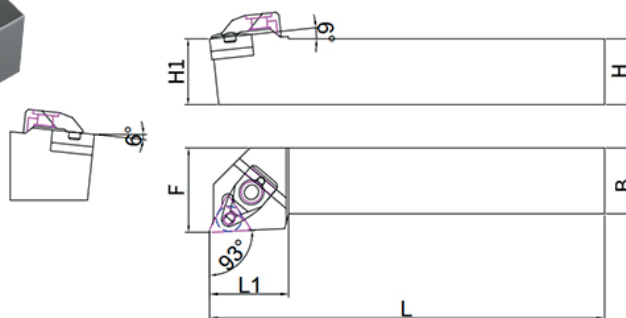









Designation	Inserts 	Dimension (mm)						Parts								
		H	B	L	L1	H1	F									
	CN□□1204□□							CN	DXD	DYB	MHGD	TH	TSA			
DCLNR/L1616H12	CN□□1204□□	16	16	100	35	16	20	1204	0614	2412-B	0525	0814	T20			
DCLNR/L2020K12		20	20	125	35	20	25									
DCLNR/L2525M12		25	25	150	32	25	32									
DCLNR/L3232P12	CN□□1606□□	32	32	170	32	32	40	1604-D	0614	3014				0625	0913	T20
DCLNR/L3232P16		32	32	170	40	32	40									
DCLNR/L3232P19		32	32	170	48	32	40									
DCLNR/L4040S19		40	40	250	48	40	50									
DCLNR/L4040S25	CN□□1906□□	40	40	250	56	40	50	1906-D	0614	3515	0625	0913	T20			
DCLNR/L5050T25		50	50	300	56	50	60									
DCLNR/L5050T25	CN□□2509□□	40	40	250	56	40	50	2506-D	0614	4319	0830	1118	T25			
DCLNR/L5050T25		50	50	300	56	50	60									

DTJNR/L

External Turning Holder

DTJNR/L Series

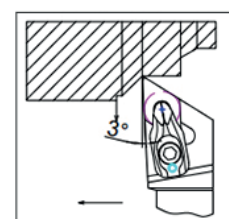
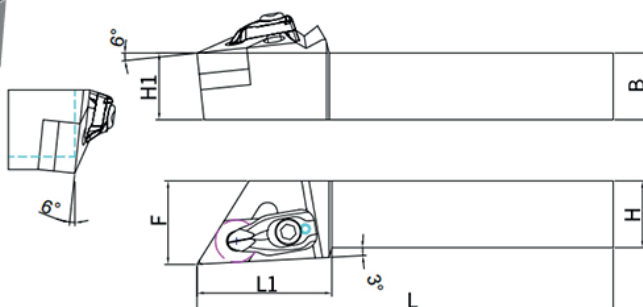









Designation	Inserts	Dimension (mm)						Parts					
		H	B	L	L1	H1	F						
	TN□□1604□□							TN	DXD	DYB	MHGD	TH	TSA
DTJNR/L1616H16		16	16	100	30	16	20						
DTJNR/L2020K16		20	20	125	30	20	25						
DTJNR/L2525M16		25	25	150	30	25	32	1603	0512	2412-A	0520	0814	T20
DTJNR/L3232P16		32	32	170	32	32	40						

DDJNR/L

External Turning Holder

DDJNR/L Series

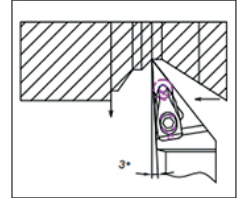
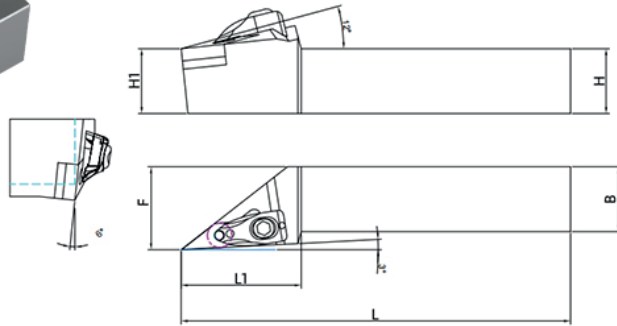









Designation	Inserts	Dimension (mm)						Parts					
		H	B	L	L1	H1	F						
	DN□□1504□□ DN□□1506□□							DN	DXD	DYB	MHGD	TH	TSA
DDJNR/L2020K15		20	20	125	39	20	25						
DDJNR/L2525M15		25	25	150	39	25	32	1504	0614	2712	0520	0814	T20
DDJNR/L3232P15		32	32	170	39	32	40	1506					

DVJNR/L

External Turning Holder

DVJNR/L Series

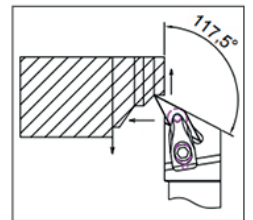
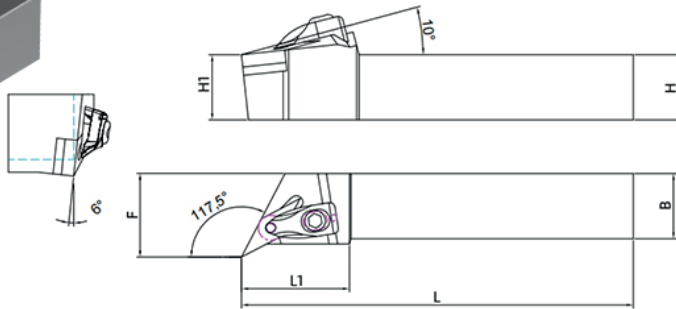









Designation	Inserts 	Dimension (mm)						Parts					
		H	B	L	L1	H1	F						
	VN□□1604□□							VN	DXD	DYB	MHGD	TH	TSA
DVJNR/L1616H16		16	16	100	47	16	20						
DVJNR/L2020K16		20	20	125	47	20	25						
DVJNR/L2525M16		25	25	150	47	25	32	1603	0512	3012	0525	0814	T20
DVJNR/L3232P16		32	32	125	50	32	40						

DVQNR/L

External Turning Holder

DVQNR/L Series

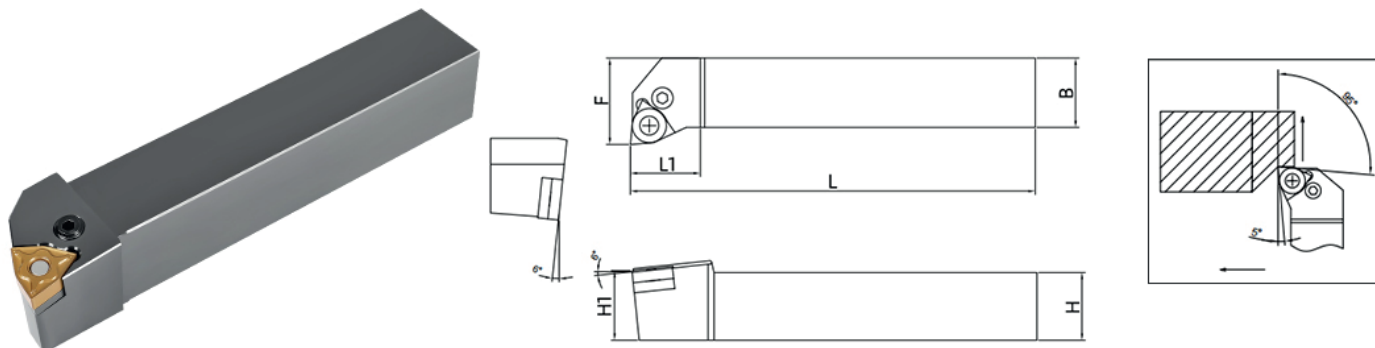









Designation	Inserts 	Dimension (mm)						Parts					
		H	B	L	L1	H1	F						
	VN□□1604□□							VN	DXD	DYB	MHGD	TH	TSA
DVQNR/L2020K16		20	20	125	44	20	25						
DVQNR/L2525M16		25	25	150	44	25	32	1603	0512	2412-A	0525	0814	T20
DVQNR/L3232P16		32	32	170	44	32	40						

PWLNR/L

Turning Holder

PWLNR/L Series

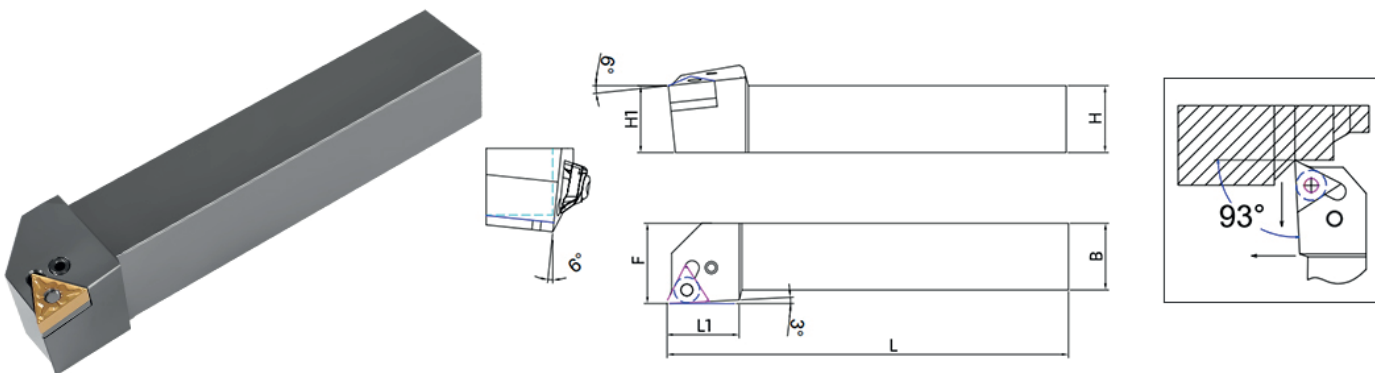









Designation	Inserts 	Dimension (mm)						Parts						
		H	B	L	L1	H1	F							
PWLNR/L1616H08	WN□□0804□□	16	16	100	26	16	20	GGX	NLJ-P	WN-P	DX	TH	TSA	
PWLNR/L2020K08		20	20	125	26	20	25							
PWLNR/L2525M08		25	25	150	26	25	32							
PWLNR/L3232P08		32	32	170	30	32	40							

PTJNR/L

Turning Holder

PTJNR/L Series

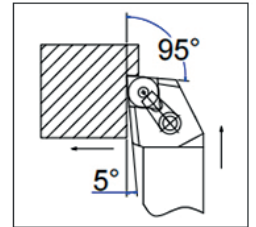
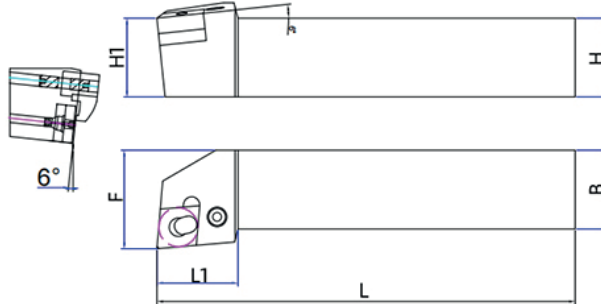
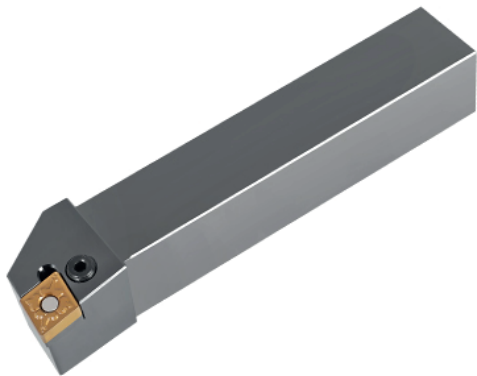









Designation	Inserts 	Dimension (mm)						Parts						
		H	B	L	L1	H1	F							
PTJNR/L1616H16	TN□□1604□□	16	16	100	22	16	20	GGX	NLJ-P	TN-P	DX	TH	TSA	
PTJNR/L2020K16		20	20	125	22	20	25							
PTJNR/L2525M16		25	25	150	28	25	32							
PTJNR/L3232P16		32	32	170	28	32	40							

PCLNR/L

Turning Holder

PCLNR/L Series



Designation	Inserts 	Dimension (mm)						Parts					
		H	B	L	L1	H1	F						
								GGX	NLJ-P	CN-P	DX	TH	TSA
PCLNR/L1616H12	CN□□1204□□	16	16	100	28	16	20	0516	0812	1203	0606	0607	L3
PCLNR/L2020K12		20	20	125	28	20	25					0608	
PCLNR/L2525M12		25	25	150	28	25	32						
PCLNR/L3232P12	CN□□1606□□	32	32	170	28	32	40	0619	0815	1604	0808	0608	L3
PCLNR/L2525M16		25	25	150	33	25	32						
PCLNR/L3232P16	CN□□1906□□	32	32	170	33	32	40	0823	1018	1904	0909	0911	L5
PCLNR/L3232P19		32	32	170	40	32	40						
PCLNR/L4040S19	CN□□2509□□	40	40	250	40	40	50	0927	1220	2506	1312	1012	L6
PCLNR/L4040S25		40	40	250	47	40	50						
PCLNR/L5050T25		50	50	300	47	50	60						

TURNING TOOL

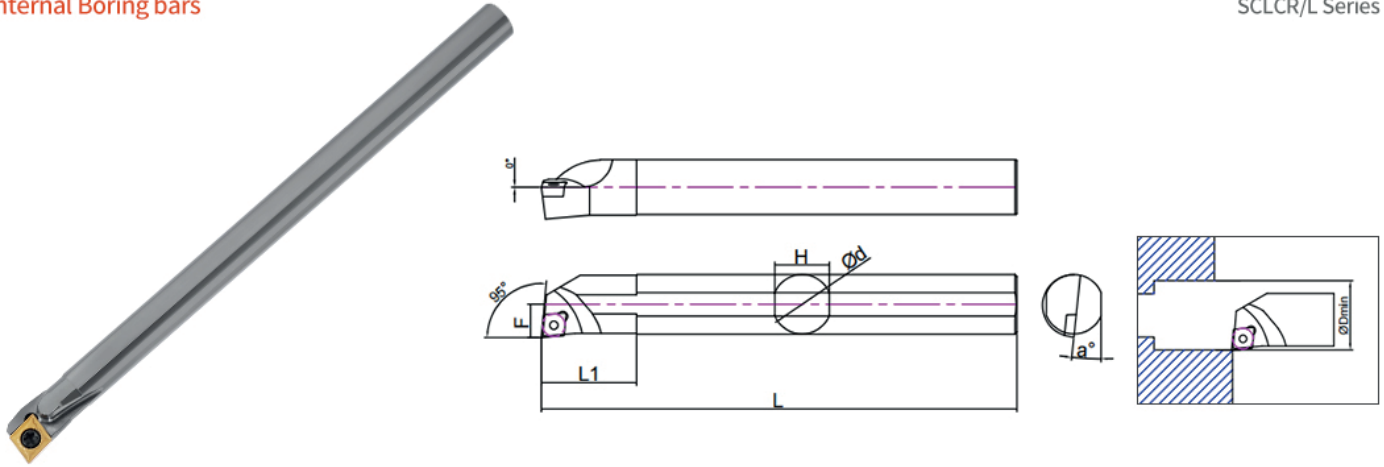
SCLCR/L SCLCR/L
SDQCR/L SDUCR/L SDWCR/L
STFCR/L STUCR/L STUPR/L STWCR/L



SCLCR/L

Internal Boring bars

SCLCR/L Series

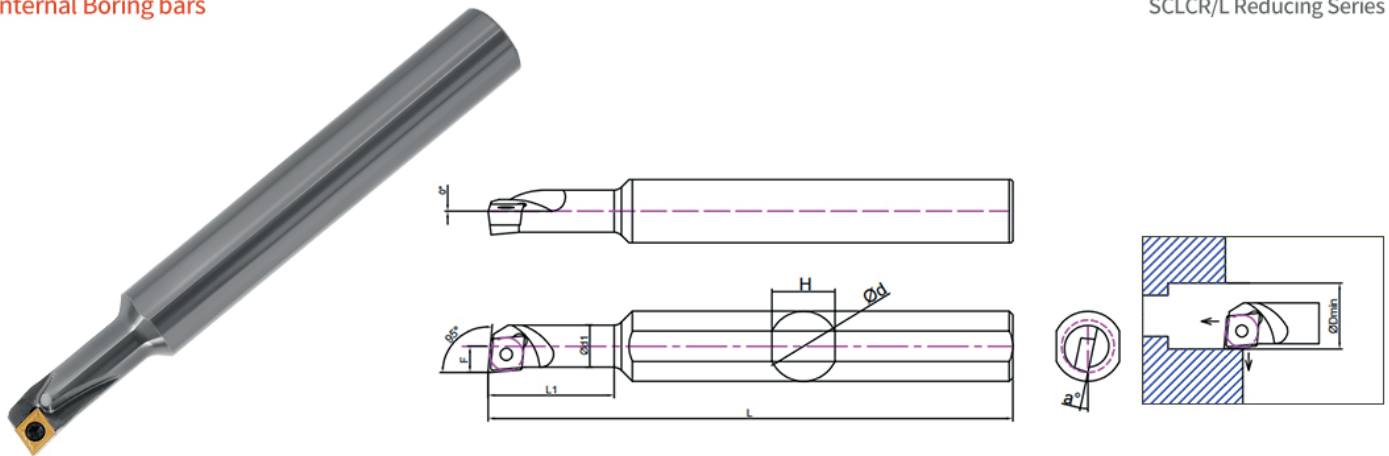


Designation	Dimension (mm)							Inserts	Parts	
	D	d	L	L1	F	H	a°		Screw	Wrench
S06H-SCLCR/L04	7	6	100	12	3.5	5.4	15	CC□□0402	TSA-M2.0-003	T6
S07K-SCLCR/L06	9	7	125	14	4.5	6	15	CC□□0602	TSA-M2.5-003	T8
S08K-SCLCR/L06	10	8	125	16	5	7	13			
S10K-SCLCR/L06	13	10	125	16	6	9	12			
S12M-SCLCR/L06	16	12	150	16	7	11	10			
S12M-SCLCR/L09	16	12	150	16	7.5	11	12	CC□□09T3	TSA-M3.5-003	T15
S14N-SCLCR/L09	18	14	160	16	8.5	13	12			
S14Q-SCLCR/L09	18	14	180	16	8.5	13	12			
S16N-SCLCR/L09	20	16	160	16	9.5	15	10			
S16Q-SCLCR/L09	20	16	180	16	9.5	15	10			
S18Q-SCLCR/L09	22	18	180	20	10.5	17	10			
S20Q-SCLCR/L09	25	20	180	20	11.5	18	8			
S20R-SCLCR/L09	25	20	200	25	11.5	18	8			
S25R-SCLCR/L09	31	25	200	20	14	23	6			
S25S-SCLCR/L09	31	25	250	20	14	23	6			
S20Q-SCLCR/L12	25	20	180	25	12	18	8	CC□□1204	TSA-M5.0-003	T20
S20R-SCLCR/L12	25	20	200	25	12	18	8			
S25R-SCLCR/L12	31	25	200	25	14.5	23	6			
S25S-SCLCR/L12	31	25	250	25	14.5	23	6			
S32S-SCLCR/L12	39	32	250	32	16	29	4			
S32T-SCLCR/L12	39	32	300	32	16	29	4			

SCLCR/L

Internal Boring bars

SCLCR/L Reducing Series

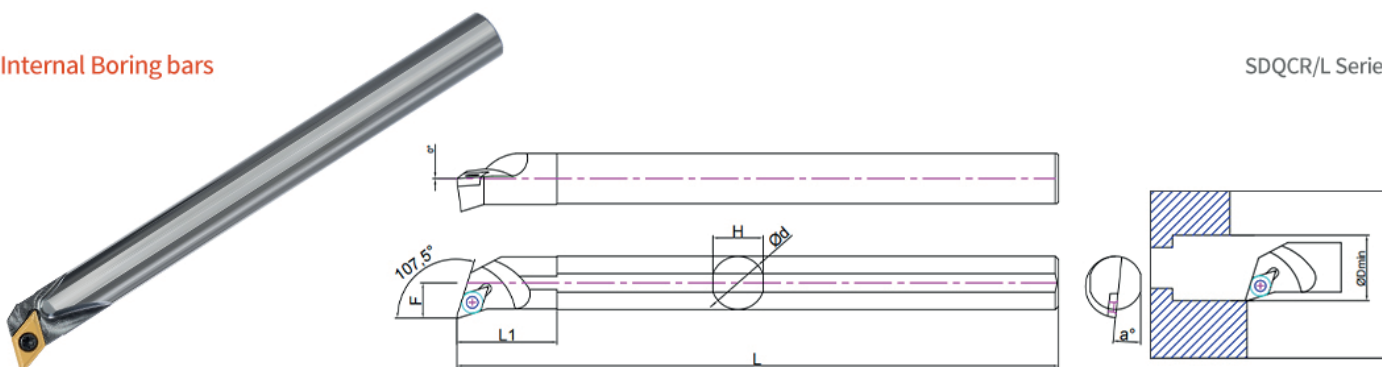


Designation	Dimension (mm)								Inserts	Parts	
	D	d	d1	L	L1	H	F	a°		Screw	Wrench
S0610K-SCLCR/L04	7	10	6	125	18	9	3.5	15	CC□□0402	TSA-M2.0-003	T6
S0710K-SCLCR/L06	9	10	7	125	24	9	4.5	15	CC□□0602	TSA-M2.5-003	T8
S0810K-SCLCR/L06	10	10	8	125	24	9	5	13			
S0910K-SCLCR/L06	11	10	9	125	30	9	5.5	12	CC□□0402	TSA-M2.0-003	T6
S0612K-SCLCR/L04	7	12	6	125	18	11	3.5	15			
S0712K-SCLCR/L06	9	12	7	125	24	11	4.5	15	CC□□0602	TSA-M2.5-003	T8
S0812K-SCLCR/L06	10	12	8	125	24	11	5	13			
S0912K-SCLCR/L06	11	12	9	125	30	11	5.5	12	CC□□0402	TSA-M2.0-003	T6
S1012K-SCLCR/L06	12	12	10	125	30	11	6	12			
S0616K-SCLCR/L04	7	16	6	125	18	15	3.5	15	CC□□0602	TSA-M2.5-003	T8
S0716K-SCLCR/L06	9	16	7	125	24	15	4.5	15			
S0816K-SCLCR/L06	10	16	8	125	24	15	5	13	CC□□0402	TSA-M2.0-003	T6
S0916K-SCLCR/L06	11	16	9	125	30	15	5.5	12			
S1016K-SCLCR/L06	12	16	10	125	30	15	6	12	CC□□0602	TSA-M2.5-003	T8
S1216K-SCLCR/L06	14	16	12	125	36	15	7	12			
S1216K-SCLCR/L09	15	16	12	125	36	15	7.5	12	CC□□09T3	TSA-M3.5-003	T15
S1416K-SCLCR/L09	17	16	14	125	36	15	8.5	12			
S0820M-SCLCR/L06	10	20	8	150	24	18	5	13	CC□□0602	TSA-M2.5-003	T8
S1020M-SCLCR/L06	12	20	10	150	30	18	6	12			
S1220M-SCLCR/L06	14	20	12	150	36	18	7	12	CC□□09T3	TSA-M3.5-003	T15
S1220M-SCLCR/L09	15	20	12	150	36	18	7.5	12			
S1420M-SCLCR/L09	17	20	14	150	36	18	8.5	12	CC□□0602	TSA-M2.5-003	T8
S1620M-SCLCR/L09	19	20	16	150	36	18	9.5	10			
S1820M-SCLCR/L09	21	20	18	150	36	18	10.5	10	CC□□09T3	TSA-M3.5-003	T15

SDQCR/L

Internal Boring bars

SDQCR/L Series

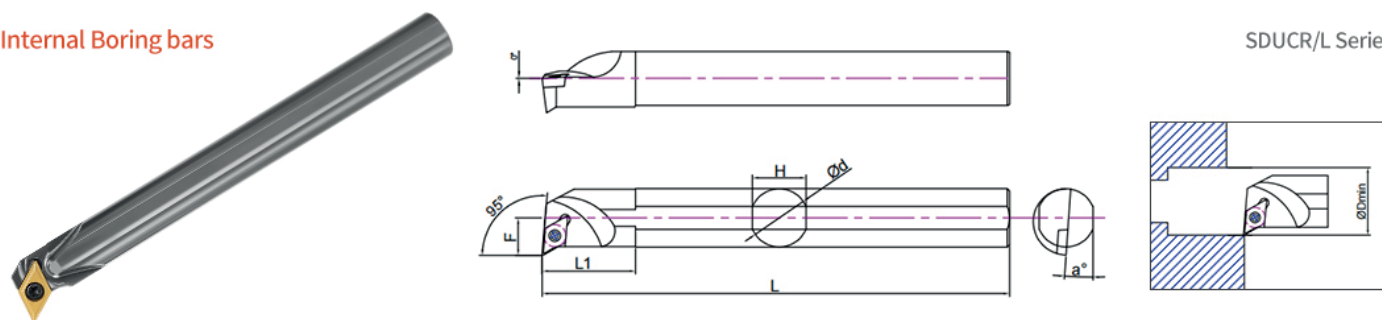


Designation	Dimension (mm)							Inserts	Parts	
	D	d	F	L	L1	H	a°		Screw	Wrench
S08K-SDQCR/L07	13	8	6	125	16	7	12	DC□□0702	TSA-M2.5-003	T8
S10K-SDQCR/L07	16	10	7	125	16	9	10			
S12M-SDQCR/L07	20	12	9	150	16	11	8			
S16N-SDQCR/L07	25	16	11	160	16	15	6			
S16Q-SDQCR/L07	25	16	11	180	16	15	6			
S16N-SDQCR/L11	25	16	11	160	16	15	6	DC□□11T3	TSA-M3.5-003	T15
S16Q-SDQCR/L11	25	16	11	180	16	15	6			
S20Q-SDQCR/L11	28	20	13	180	20	18	6			
S20R-SDQCR/L11	28	20	13	200	25	18	6			
S25R-SDQCR/L11	33	25	16	200	25	23	4			
S25S-SDQCR/L11	33	25	16	250	25	23	4			
S32S-SDQCR/L11	41	32	20	250	32	29	4			
S32T-SDQCR/L11	41	32	20	300	32	29	4			

SDUCR/L

Internal Boring bars

SDUCR/L Series

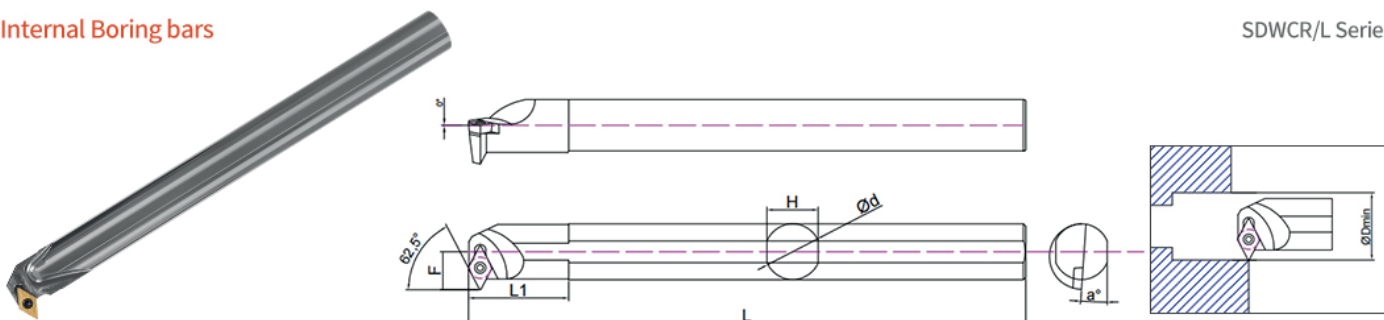


Designation	Dimension (mm)							Inserts	Parts	
	D	d	F	L	L1	H	a°		Screw	Wrench
S08K-SDUCR/L07	13	8	7	125	16	7	12	DC□□0702	TSA-M2.5-003	T8
S10K-SDUCR/L07	15	10	8	125	16	9	10			
S12M-SDUCR/L07	17	12	9	150	16	11	8			
S14N-SDUCR/L07	20	14	10	160	16	13	8			
S16N-SDUCR/L07	22	16	11	160	16	15	6			
S16Q-SDUCR/L07	22	16	11	180	16	15	6	DC□□11T3	TSA-M3.5-003	T15
S16N-SDUCR/L11	23	16	12	160	16	15	8			
S16Q-SDUCR/L11	23	16	12	180	16	15	8			
S20Q-SDUCR/L11	25	20	13	180	20	18	6			
S20R-SDUCR/L11	25	20	13	200	25	18	6			
S25R-SDUCR/L11	32	25	16	200	25	23	4			
S25S-SDUCR/L11	32	25	16	250	25	23	4			
S32S-SDUCR/L11	39	32	20	250	32	29	4			
S32T-SDUCR/L11	39	32	20	300	32	29	4			

SDWCR/L

Internal Boring bars

SDWCR/L Series

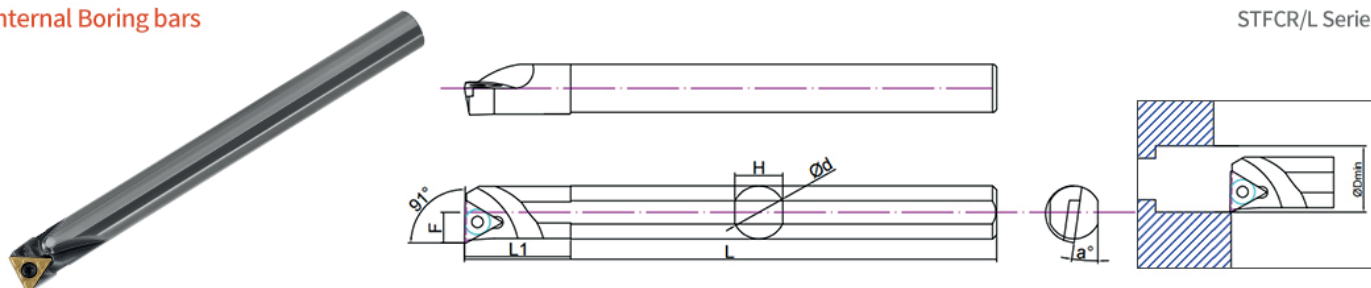


Designation	Dimension (mm)							Inserts	Parts	
	D	d	F	L	L1	H	a°		Screw	Wrench
S10K-SDWCR/L07	16	10	9.5	125	16	9	12	DC□□0702	TSA-M2.5-003	T8
S12M-SDWCR/L07	19	12	10.5	150	16	11	10			
S16Q-SDWCR/L07	23	16	12.5	180	16	15	8			
S16N-SDWCR/L11	23	16	14	160	16	15	8	DC□□11T3	TSA-M3.5-003	T15
S16Q-SDWCR/L11	23	16	14	180	16	15	8			
S20R-SDWCR/L11	25.5	20	14.5	200	25	19	6			
S25S-SDWCR/L11	32	25	17	250	25	23	4			
S32T-SDWCR/L11	40	32	20.5	300	32	29	4			

STFCR/L

Internal Boring bars

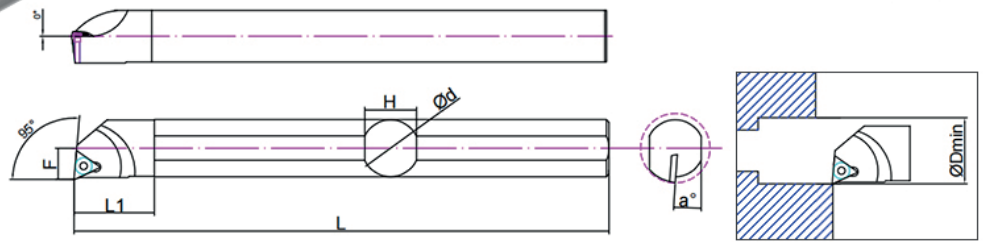
STFCR/L Series



Designation	Dimension (mm)							Inserts	Parts				
	D	d	L	L1	F	H	a°		Screw	Wrench			
S08K-STFCR/L09	11	8	125	16	5	7	15	TC□□0902	TSA-M2.2-003	T6			
S10K-STFCR/L09	13	10	125	16	6	9	13						
S12M-STFCR/L09	16	12	150	16	7	11	10						
S10K-STFCR/L11	13	10	125	16	6	9	12	TC□□1102	TSA-M2.5-003	T8			
S12M-STFCR/L11	16	12	150	16	7	11	10						
S14N-STFCR/L11	18	14	160	16	8	13	10						
S14Q-STFCR/L11	18	14	180	16	8	13	10						
S16N-STFCR/L11	20	16	160	16	9	15	8						
S16Q-STFCR/L11	20	16	180	16	9	15	8						
S20Q-STFCR/L11	25	20	180	25	11	18	6						
S20R-STFCR/L11	25	20	200	25	11	18	6						
S16Q-STFCR/L16	20	16	180	16	9	15	8				TC□□16T3	TSA-M3.5-003	T15
S20Q-STFCR/L16	25	20	180	25	11.5	18	8						
S20R-STFCR/L16	25	20	200	25	11.5	18	8						
S25R-STFCR/L16	31	25	200	25	14	23	6						
S25S-STFCR/L16	31	25	250	25	14	23	6						
S32S-STFCR/L16	39	32	250	32	17.5	29	4						
S32T-STFCR/L16	39	32	250	32	17.5	29	4						

STUCR/L

Internal Boring bars

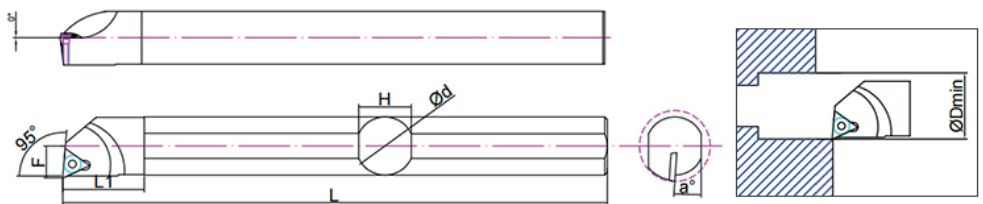
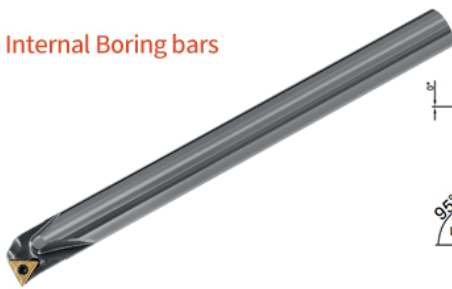


STUCR/L Series

Designation	Dimension (mm)							Inserts	Parts	
	D	d	L	L1	F	H	a°		Screw	Wrench
S06H-STUBR/L06	7	6	100	15	3.5	5.4	15	TB□□0602	TSA-M2.0-003	T6
S08K-STUCR/L09	10	8	125	16	5	7	15	TC□□0902	TSA-M2.2-003	T6
S10K-STUCR/L09	13	10	125	16	6	9	13			
S12K-STUCR/L09	16	12	125	16	7	11	13			
S10K-STUCR/L11	13	10	125	16	6	9	12			
S12M-STUCR/L11	16	12	150	16	7	11	10	TC□□1102	TSA-M2.5-003	T8
S14N-STUCR/L11	18	14	160	16	8	13	10			
S16N-STUCR/L11	20	16	160	16	9	15	8			
S16Q-STWCR/L11	20	16	180	16	9	15	8			
S20Q-STUCR/L11	25	20	180	25	11	19	6			
S20R-STUCR/L11	25	20	200	25	11	19	6			
S16N-STUCR/L16	20	16	160	16	9.5	15	8			
S16Q-STUCR/L16	20	16	180	16	9.5	15	8			
S20Q-STUCR/L16	25	20	180	25	11.5	18	8			
S20R-STUCR/L16	25	20	200	25	11.5	18	8			
S25R-STUCR/L16	31	25	200	25	14	23	6			
S25S-STUCR/L16	31	25	250	25	14	23	6			
S32S-STUCR/L16	39	32	250	32	17.5	29	4			
S32T-STUCR/L16	39	32	300	32	17.5	29	4			

STUPR/L

Internal Boring bars



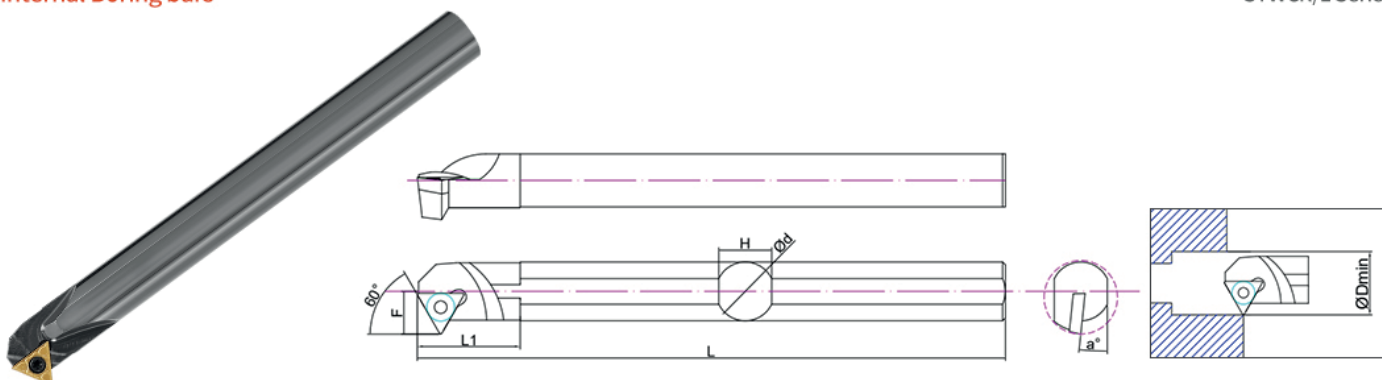
STUPR/L Series

Designation	Dimension (mm)							Inserts	Parts	
	D	d	L	L1	F	H	a°		Screw	Wrench
S08K-STUPR/L09	10	8	125	16	5	7	15	TP□□0902	TSA-M2.5-003	T8
S10K-STUPR/L09	13	10	125	16	6	9	13			
S12M-STUPR/L09	16	12	125	16	7	11	13			
S10K-STUPR/L11	13	10	125	16	6	9	12	TP□□1103	TSA-M2.2-003	T6
S12M-STUPR/L11	16	12	150	16	7	11	10			
S16Q-STUPR/L11	20	16	180	16	9	15	8			
S12M-STUPR/L11	25	20	200	25	11	18	6			
S16Q-STUPR/L16	20	16	180	16	9.5	15	8			
S20R-STUPR/L16	25	20	200	25	11.5	18	8			
S25S-STUPR/L16	31	25	250	25	14	23	6			
S32T-STUPR/L16	39	32	300	32	17.5	29	4			

STWCR/L

Internal Boring bars

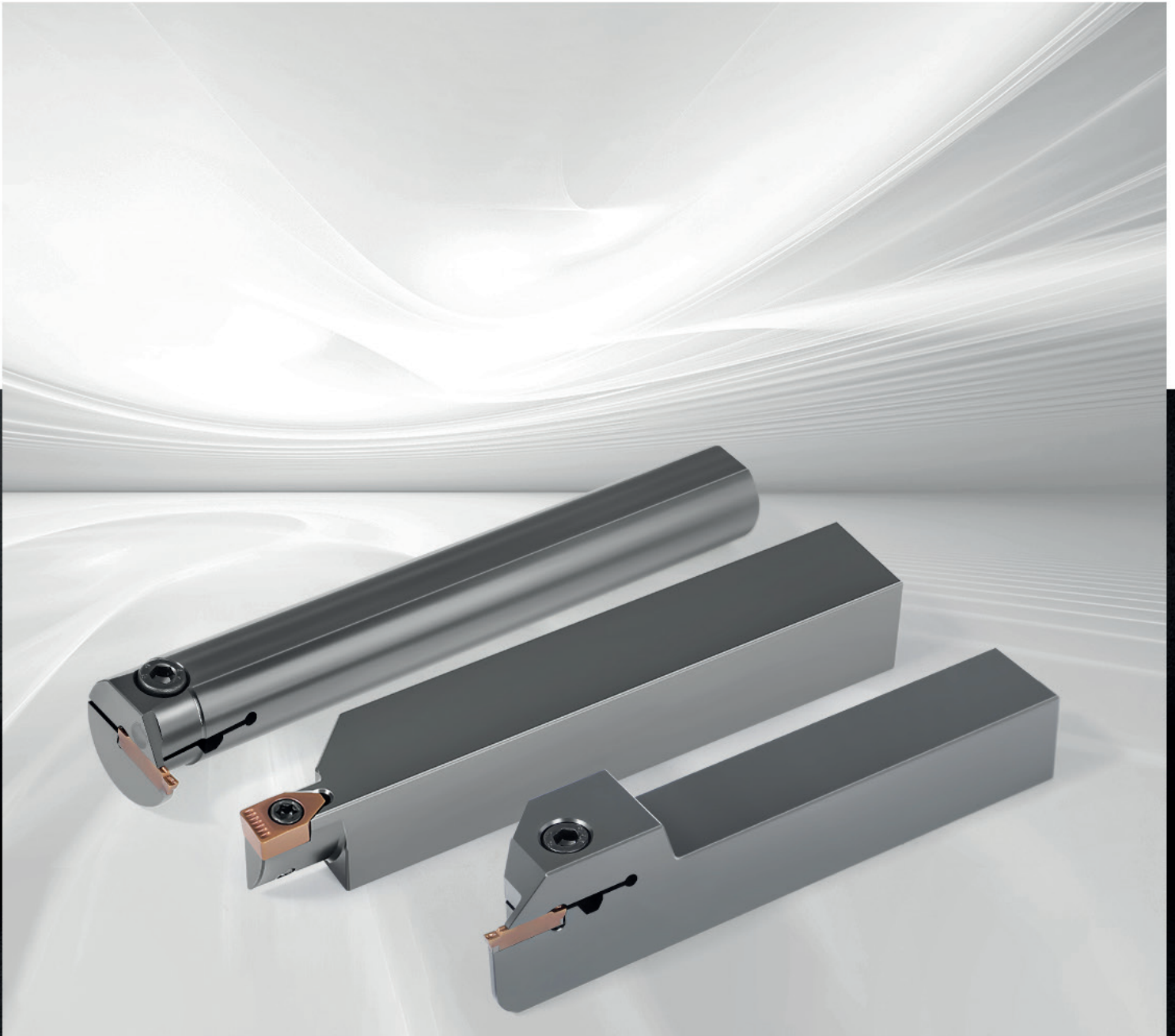
STWCR/L Series



Designation	Dimension (mm)							Inserts	Parts	
	D	d	L	L1	F	H	a°		Screw	Wrench
S08K-STWCR/L09	11	8	125	16	5.5	7	12	TC□□0902	TSA-M2.0-003	T6
S10K-STWCR/L09	13	10	125	16	6.5	9	10			
S10K-STVCRL11	14	10	125	16	8	9	10	TC□□1102	TSA-M2.2-003	T6
S12M-STVCRL11	16	12	150	16	9	11	8			
S14N-STWCR/L11	18	14	160	16	10	13	8			
S16Q-STWCR/L11	20	16	180	16	11	15	6	TC□□16T3	TSA-M2.5-003	T8
S16Q-STWCR/L16	21	16	180	16	12	15	6			
S20R-STWCR/L16	25	20	200	25	14.5	18	6			
S25S-STWCR/L16	32	25	250	25	17	23	4			

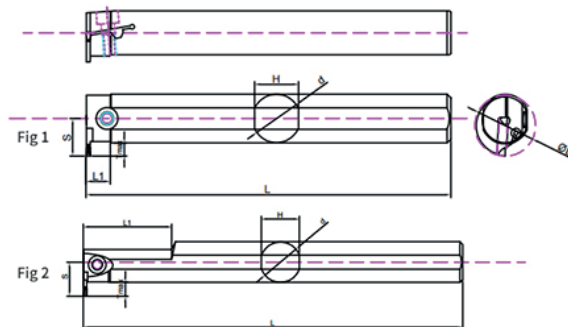
TURNING TOOL

MGNVR/L / MGEHR/L / STEHR/L

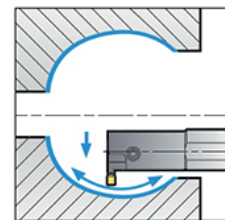


MGNVR/L

Internal Grooving Holder



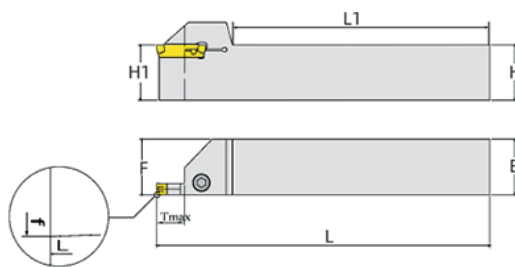
MGNVR/L Series



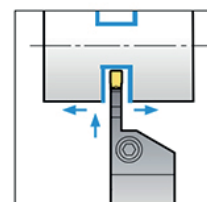
Designation		Dimension (mm)								Inserts	Parts			
		DMIN	D	L	L1	H	Tmax	S	DGD		TSA			
MGNVR/L	1617M-1.5-T3-B	17	16	150	35	15	3	11.4	Fig 2	MGMN150	0416	L3		
	1618M-1.5-T4-B	18	16	150	35	15	4	12.4	Fig 2					
	1619M-1.5-T5-B	19	16	150	35	15	5	13.4	Fig 2					
	1620M-1.5-T6-B	20	16	150	35	15	6	14.4	Fig 2					
	1615M-2-T3-B	15	16	150	30	15	3	11.4	Fig 2	MGMN200				
	1616M-2-T4-B	16	16	150	30	15	4	12.4	Fig 2					
	1617M-2-T5-B	17	16	150	30	15	5	13.4	Fig 2					
	1618M-2-T4-B	18	16	150	35	15	4	12.4	Fig 2					
	1619M-2-T5-B	19	16	150	35	15	5	13.4	Fig 2	MGMN300				
	1620M-2-T6-B	20	16	150	35	15	6	14.4	Fig 2					
	1617M-3-T3-B	17	16	150	35	15	3	11.4	Fig 2					
	1618M-3-T4-B	18	16	150	35	15	4	12.4	Fig 2					
	1619M-3-T5-B	19	16	150	35	15	5	13.4	Fig 2	MGMN200			0520	L4
	1620M-3-T6-B	20	16	150	35	15	6	14.4	Fig 2					
	2025M-2-T7-B	25	20	150	45	18	7	17.4	Fig 2					
	2025M-2-T9-B	25	20	150	40	18	7	19.4	Fig 2					
	1620M-2-T3	20	16	150	10	15	3	11.4	Fig 1	MGMN200			0416	L3
	1622M-2-T5	21	16	150	10	15	5	13.4	Fig 1					
	1624M-2-T7	24	16	150	10	15	7	15.4	Fig 1					
	1624M-3-T7	24	16	150	10	15	7	15.4	Fig 1					
	1626M-3-T9	26	16	150	10	15	9	17.4	Fig 1	MGMN300				
	2026M-2-T5	26	20	150	10	18	5	15.4	Fig 1					
	2027M-3-T6	27	20	150	10	18	6	16.4	Fig 1					
	2029M-3-T8	29	20	150	10	18	8	18.4	Fig 1					
	2031M-3-T10	31	20	150	10	18	10	20.4	Fig 1	MGMN300				
	2027M-4-T6	27	20	150	10	18	6	16.4	Fig 1					
	2029M-4-T8	29	20	150	10	18	8	18.4	Fig 1					
	2031M-4-T10	31	20	150	10	18	10	20.4	Fig 1					
	2532R-3-T6	32	25	200	10	23	5	18.9	Fig 1	MGMN300			0520	L4
	2534R-3-T8	34	25	200	10	23	8	20.9	Fig 1					
	2536R-3-T10	35	25	200	10	23	10	22.9	Fig 1					
	2538R-3-T12	38	25	200	10	23	12	24.9	Fig 1					
	2532R-4-T6	32	25	200	10	23	6	18.9	Fig 1	MGMN400				
	2534R-4-T8	34	25	200	10	23	8	20.9	Fig 1					
	2536R-4-T10	36	25	200	10	23	10	22.9	Fig 1					
	2538R-4-T12	38	25	200	10	23	12	24.9	Fig 1					
	2532R-5-T6	32	25	200	10	23	6	18.9	Fig 1	MGMN500				
	2534R-5-T8	34	25	200	10	23	8	20.9	Fig 1					
	2536R-5-T10	36	25	200	10	23	10	22.9	Fig 1					
	2538R-5-T12	38	25	200	10	23	12	24.9	Fig 1					
3239S-3-T6	39	32	250	10	29	6	22.4	Fig 1	MGMN300					
3241S-3-T8	41	32	250	10	29	8	24.4	Fig 1						
3243S-3-T10	43	32	250	10	29	10	26.4	Fig 1						
3245S-3-T12	45	32	250	10	29	12	28.4	Fig 1						
3239S-4-T6	39	32	250	10	29	6	22.4	Fig 1	MGMN400					
3241S-4-T8	41	32	250	10	29	8	24.4	Fig 1						
3243S-4-T10	43	32	250	10	29	10	26.4	Fig 1						
3245S-4-T12	45	32	250	10	29	12	28.4	Fig 1						
3241S-5-T8	41	32	250	10	29	8	24.4	Fig 1	MGMN400					
3243S-5-T10	43	32	250	10	29	10	26.4	Fig 1						
3245S-5-T12	45	32	250	10	29	12	28.4	Fig 1						
3245S-5-T12	45	32	250	10	29	12	28.4	Fig 1						

MGEHR/L

Internal Grooving Holder



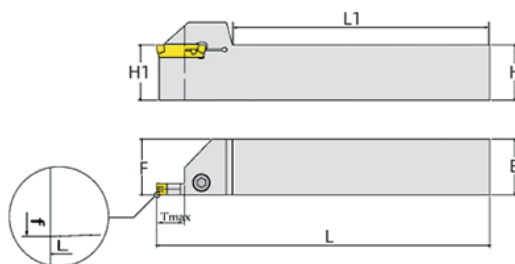
MGEHR/L Series



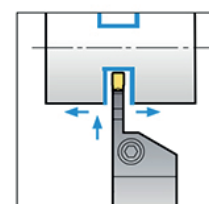
Designation		Dimension (mm)							Inserts	Parts		
		H	B	L	L1	H1	F	TMAX		NLJ	TSA	
MGEHR/L	1616H-1.5T8	16	16	100	68	16	16.2	8	MGMN150	0520	T20	
	1616H-1.5T12	16	16	100	68	16	16.2	12				
	1616H-2T8	16	16	100	68	16	16.2	8	MGMN200			
	1616H-2T12	16	16	100	68	16	16.2	12				
	1616H-2T16	16	16	100	65	16	16.2	16	MGMN250			
	1616H-2.5T8	16	16	100	68	16	16.25	8				
	1616H-2.5T12	16	16	100	68	16	16.25	12	MGMN300			
	1616H-2.5T16	16	16	100	65	16	16.25	16				
	1616H-3T10	16	16	100	68	16	16.32	10	MGMN300			
	1616H-3T14	16	16	100	68	16	16.32	14				
	1616H-3T18	16	16	100	65	16	16.32	18				
	1616H-4T10	16	16	100	68	16	16.32	10	MGMN400			
	1616H-4T14	16	16	100	68	16	16.32	14				
	1616H-4T18	16	16	100	65	16	16.32	18				
	2020K-1.5T8	20	20	125	92	20	20.2	8	MGMN150	0520	T20	
	2020K-1.5T12	20	20	125	90	20	20.2	12				
	2020K-2T8	20	20	125	92	20	20.2	8	MGMN200			
	2020K-2T12	20	20	125	90	20	20.2	12				
	2020K-2T16	20	20	125	90	20	20.2	16	MGMN250			
	2020K-2.5T8	20	20	125	90	20	20.25	8				
	2020K-2.5T12	20	20	125	90	20	20.25	12	MGMN300			
	2020K-2.5T16	20	20	125	90	20	20.25	16				
	2020K-3T10	20	20	125	90	20	20.32	10				
	2020K-3T14	20	20	125	90	20	20.32	14	MGMN300			
	2020K-3T18	20	20	125	86	20	20.32	18				
	2020K-3T25	20	20	125	79	20	20.32	25				
	2020K-3T30	20	20	125	70	20	20.32	30	MGMN400			
	2020K-3T35	20	20	125	65	20	20.32	35				
	2020K-3T40	20	20	125	60	20	20.32	40				
	2020K-4T10	20	20	125	88	20	20.32	10	MGMN400			
	2020K-4T14	20	20	125	88	20	20.32	14				
	2020K-4T18	20	20	125	88	20	20.32	18				
	2020K-4T25	20	20	125	79	20	20.32	25	MGMN500			
	2020K-4T30	20	20	125	70	20	20.32	30				
	2020K-4T35	20	20	125	65	20	20.32	35				
	2020K-4T40	20	20	125	60	20	20.32	40	MGMN500			
	2020K-5T10	20	20	125	88	20	20.5	10				
	2020K-5T14	20	20	125	88	20	20.5	14				
	2020K-5T18	20	20	125	83	20	20.5	18				
	2020K-5T23	20	20	125	80	20	20.5	23				
	2020K-5T25	20	20	125	80	20	20.5	25				
	2020K-5T30	20	20	125	75	20	20.5	30				
	2525M-2T6	25	25	150	115	25	25.2	6		MGMN200	0625	T20
	2525M-2T8	25	25	150	115	25	25.2	8				
	2525M-2T12	25	25	150	115	25	25.2	12		MGMN250		
	2525M-2T16	25	25	150	115	25	25.2	16				
	2525M-2.5T8	25	25	150	115	25	25.25	8				
	2525M-2.5T12	25	25	150	115	25	25.25	12	MGMN300			
	2525M-2.5T16	25	25	150	115	25	25.25	16				
	2525M-3T10	25	25	150	110	25	25.32	10				
2525M-3T14	25	25	150	110	25	25.32	14	MGMN300				
2525M-3T18	25	25	150	110	25	25.32	18					
2525M-3T25	25	25	150	100	25	25.32	25					
2525M-3T30	25	25	150	95	25	25.32	30	MGMN400				
2525M-3T35	25	25	150	90	25	25.32	35					
2525M-3T40	25	25	150	85	25	25.32	40					
2525M-3T50	25	25	150	75	25	25.32	50	MGMN400				
2525M-4T10	25	25	150	110	25	25.32	10					
2525M-4T14	25	25	150	110	25	25.32	14					
2525M-4T18	25	25	150	110	25	25.32	18					
2525M-4T23	25	25	150	105	25	25.32	23					
2525M-4T25	25	25	150	103	25	25.32	25					
2525M-4T30	25	25	150	98	25	25.32	30					
2525M-4T35	25	25	150	93	25	25.32	35					
2525M-4T40	25	25	150	88	25	25.32	40					
2525M-4T50	25	25	150	78	25	25.32	50					
2525M-5T10	25	25	150	110	25	25.5	10	MGMN500				
2525M-5T14	25	25	150	110	25	25.5	14					
2525M-5T18	25	25	150	105	25	25.5	18					
2525M-5T23	25	25	150	105	25	25.5	23					
2525M-5T25	25	25	150	103	25	25.5	25					
2525M-5T30	25	25	150	98	25	25.5	30					
2525M-5T35	25	25	150	93	25	25.5	35					
2525M-5T40	25	25	150	88	25	25.5	40					
2525M-5T40	25	25	150	88	25	25.5	40					
2525M-5T50	25	25	150	78	25	25.5	50					

MGEHR/L

Internal Grooving Holder



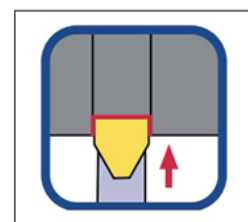
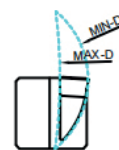
MGEHR/L Series



Designation		Dimension (mm)							Inserts	Parts	
		H	B	L	L1	H1	F	TMAX		NLJ	TSA
MGEHR/L	3232P-3T10	32	32	170	128	32	32.25	10	MGMN300	0605	T20
	3232P-3T14	32	32	170	128	32	32.25	10			
	3232P-3T18	32	32	170	128	32	32.25	10			
	3232P-3T25	32	32	170	120	32	32.25	10	MGMN400		
	3232P-3T30	32	32	170	115	32	32.25	10			
	3232P-4T10	32	32	170	128	32	32.25	10			
	3232P-4T14	32	32	170	128	32	32.25	10			
	3232P-4T18	32	32	170	128	32	32.25	10			
	3232P-4T25	32	32	170	120	32	32.25	10	MGMN500		
	3232P-4T30	32	32	170	115	32	32.25	10			
	3232P-4T35	32	32	170	110	32	32.25	10			
	3232P-4T40	32	32	170	105	32	32.25	10	MGMN600		
	3232P-5T10	32	32	170	128	32	32.25	10			
	3232P-5T14	32	32	170	128	32	32.25	10			
	3232P-5T18	32	32	170	128	32	32.25	10	MGMN300	0520	T20
	3232P-5T25	32	32	170	120	32	32.25	10			
	3232P-5T30	32	32	170	115	32	32.25	10			
	3232P-5T35	32	32	170	110	32	32.25	10	MGMN400		
	3232P-5T40	32	32	170	105	32	32.25	10			
	3232P-5T50	32	32	170	95	32	32.25	10			
	3232P-6T20	32	32	170	125	32	32.25	10	MGMN500	0605	T20
	3232P-6T30	32	32	170	115	32	32.25	10			
	3232P-6T40	32	32	170	105	32	32.25	10			
	3232P-6T50	32	32	170	95	32	32.25	10	MGMN300		
	2020K-3R25	20	20	125	80	20	20.32	25			
	2020K-3R30	20	20	125	75	20	20.32	30			
	2020K-4R25	20	20	125	80	20	20.32	25	MGMN400	0520	T20
	2020K-4R30	20	20	125	75	20	20.32	30			
2020K-4R35	20	20	125	70	20	20.32	35				
2020K-5R25	20	20	125	80	20	20.5	25	MGMN500			
2020K-5R30	20	20	125	75	20	20.5	30				
2525M-3R25	25	25	150	105	25	25.32	25		MGMN300		
2525M-3R30	25	25	150	100	25	25.32	30				
2525M-4R25	25	25	150	105	25	25.32	25				
2525M-4R30	25	25	150	100	25	25.32	30	MGMN400			
2525M-4R35	25	25	150	95	25	25.32	35				
2525M-5R25	25	25	150	105	25	25.5	25		MGMN500		
2525M-5R30	25	25	150	100	25	25.5	30				
2525M-5R35	25	25	150	95	25	25.5	35				

STEHR/L

Large width Grooving Holder



STEHR Series

Designation/型号	Dimension (mm)									Inserts	Parts			
	H	B	L	F	H1	Tmax	Dmin	Dmax	螺丝 SCREW		扳手 WRENCH			
2020K08-50-∞-T15	20	20	125	20.4	20	15	50	∞	TIGER 080508	TSB-3580-1	T15			
2020K08-50-∞-T30	20	20	125	20.4	20	30	50	∞	TIGER 080508	TSB-3580-1	T15			
2020K10-50-∞-T15	20	20	125	20.4	20	15	50	∞	TIGER 100508	TSB-4010-1	T15			
2020K10-50-∞-T30	20	20	125	20.4	20	30	50	∞	TIGER 100508	TSB-4010-1	T15			
2020K12-50-∞-T15	20	20	125	20.4	20	15	50	∞	TIGER 120508	TSB-5012-1	T20			
2020K12-50-∞-T30	20	20	125	20.4	20	30	50	∞	TIGER 120508	TSB-5012-1	T20			
2525M08-50-∞-T15	25	25	150	25.4	25	15	50	∞	TIGER 080508	TSB-3580-1	T15			
2525M08-50-∞-T30	25	25	150	25.4	25	30	50	∞						
2525M08-50-∞-T45	25	25	150	25.4	25	45	50	∞						
2525M08-80-200-T15	25	25	150	25.4	25	15	80	200						
2525M08-80-200-T30	25	25	150	25.4	25	30	80	200						
2525M08-80-200-T45	25	25	150	25.4	25	45	80	200						
2525M08-200-800-T15	25	25	150	25.4	25	15	200	800						
2525M08-200-800-T30	25	25	150	25.4	25	30	200	800						
2525M08-200-800-T45	25	25	150	25.4	25	45	200	800						
2525M08-200-800-T60	25	25	150	25.4	25	60	200	800						
2525M10-50-∞-T15	25	25	150	25.4	25	15	50	∞				TIGER 100508	TSB-4010-1	T15
2525M10-50-∞-T30	25	25	150	25.4	25	30	50	∞						
2525M10-50-∞-T45	25	25	150	25.4	25	45	50	∞						
2525M10-80-200-T15	25	25	150	25.4	25	15	80	200						
2525M10-80-200-T30	25	25	150	25.4	25	30	80	200						
2525M10-80-200-T45	25	25	150	25.4	25	45	80	200						
2525M10-200-800-T15	25	25	150	25.4	25	15	200	800						
2525M10-200-800-T30	25	25	150	25.4	25	30	200	800						
2525M10-200-800-T45	25	25	150	25.4	25	45	200	800						
2525M10-200-800-T60	25	25	150	25.4	25	60	200	800						
2525M12-50-∞-T15	25	25	150	25.4	25	15	50	∞	TIGER 120508	TSB-5012-1	T20			
2525M12-50-∞-T30	25	25	150	25.4	25	30	50	∞						
2525M12-50-∞-T45	25	25	150	25.4	25	45	50	∞						
2525M12-80-200-T15	25	25	150	25.4	25	15	80	200						
2525M12-80-200-T30	25	25	150	25.4	25	30	80	200						
2525M12-80-200-T45	25	25	150	25.4	25	45	80	200						
2525M12-200-800-T15	25	25	150	25.4	25	15	200	800						
2525M12-200-800-T30	25	25	150	25.4	25	30	200	800						
2525M12-200-800-T45	25	25	150	25.4	25	45	200	800						
2525M12-200-800-T60	25	25	150	25.4	25	60	200	800						
3232P08-80-200-T15	32	32	170	32.4	32	15	80	200				TIGER 080508	TSB-3580-1	T15
3232P08-80-200-T30	32	32	170	32.4	32	30	80	200						
3232P08-80-200-T45	32	32	170	32.4	32	45	80	200						
3232P08-200-1000-T20	32	32	170	32.4	32	20	200	1000						
3232P08-200-1000-T40	32	32	170	32.4	32	40	200	1000						
3232P08-200-1000-T60	32	32	170	32.4	32	60	200	1000						
3232P10-80-200-T15	32	32	170	32.4	32	15	80	200	TIGER 100508	TSB-4010-1	T15			
3232P10-80-200-T30	32	32	170	32.4	32	30	80	200						
3232P10-80-200-T45	32	32	170	32.4	32	45	80	200						
3232P10-200-1000-T20	32	32	170	32.4	32	20	200	1000						
3232P10-200-1000-T40	32	32	170	32.4	32	40	200	1000						
3232P10-200-1000-T60	32	32	170	32.4	32	60	200	1000						
3232P12-80-200-T15	32	32	170	32.4	32	15	80	200	TIGER 120508	TSB-5012-1	T20			
3232P12-80-200-T30	32	32	170	32.4	32	30	80	200						
3232P12-80-200-T45	32	32	170	32.4	32	45	80	200						
3232P12-200-1000-T20	32	32	170	32.4	32	20	200	1000						
3232P12-200-1000-T40	32	32	170	32.4	32	40	200	1000						
3232P12-200-1000-T60	32	32	170	32.4	32	60	200	1000						
4040R08-200-1000-T30	40	40	200	40.4	40	30	200	1000	TIGER 080508	TSB-3580-1	T15			
4040R08-200-1000-T50	40	40	200	40.4	40	50	200	1000						
4040R08-200-1000-T70	40	40	200	40.4	40	70	200	1000						
4040R10-200-1000-T30	40	40	200	40.4	40	30	200	1000	TIGER 100508	TSB-4010-1	T15			
4040R10-200-1000-T50	40	40	200	40.4	40	50	200	1000						
4040R10-200-1000-T70	40	40	200	40.4	40	70	200	1000						
4040R12-200-1000-T30	40	40	200	40.4	40	30	200	1000	TIGER 120508	TSB-5012-1	T20			
4040R12-200-1000-T50	40	40	200	40.4	40	50	200	1000						
4040R12-200-1000-T70	40	40	200	40.4	40	70	200	1000						

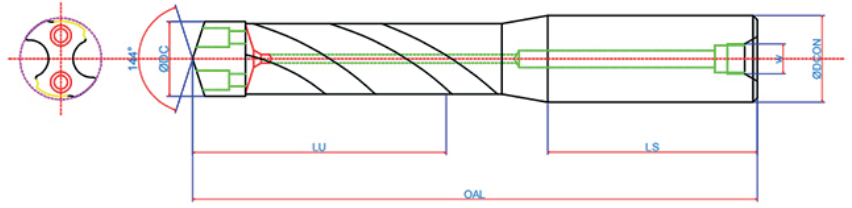
DRILLING TOOL

TWCD



TWCD

Indexable Head Type Drill



TWCD Series


Dia	D	Specifications	LU	LS	OAL	DCON	W	Screw	Wrench
10.0-10.5	1.5D	TWCD-100-105-1.5D-12S0	21		83				
	3.0D	TWCD-100-105-3.0D-12S0	37		99				
	5.0D	TWCD-100-105-5.0D-12S0	58		120				
10.6-11.2	1.5D	TWCD-106-112-1.5D-12S0	22		85	12	M6	HG-M2.0x7.5	TWA-IP6
	3.0D	TWCD-106-112-3.0D-12S0	39		102				
	5.0D	TWCD-106-112-5.0D-12S0	62		124				
11.3-11.9	1.5D	TWCD-113-119-1.5D-12S0	24		87				
	3.0D	TWCD-113-119-3.0D-12S0	42		105				
	5.0D	TWCD-113-119-5.0D-12S0	65		129				
12.0-12.4	1.5D	TWCD-120-124-1.5D-16S0	25		79				
	3.0D	TWCD-120-124-3.0D-16S0	43		107				
	5.0D	TWCD-120-124-5.0D-16S0	68		132				
12.5-12.9	1.5D	TWCD-125-129-1.5D-16S0	26	48	90			HG-M2.2x7.5	
	3.0D	TWCD-125-129-3.0D-16S0	45		109				
	5.0D	TWCD-125-129-5.0D-16S0	71		135				
13.0-13.4	1.5D	TWCD-130-134-1.5D-16S0	27		91	16	ZG1/8		TWA-IP8
	3.0D	TWCD-130-134-3.0D-16S0	47		111				
	5.0D	TWCD-130-134-5.0D-16S0	74		138				
13.5-14.5	1.5D	TWCD-135-145-1.5D-16S0	29		95				
	3.0D	TWCD-135-145-3.0D-16S0	51		116				
	5.0D	TWCD-135-145-5.0D-16S0	80		145				
14.6-15.5	1.5D	TWCD-146-155-1.5D-16S0	31		98			HG-M2.2x9.0	
	3.0D	TWCD-146-155-3.0D-16S0	54		121				
	5.0D	TWCD-146-155-5.0D-16S0	85		152				
15.6-16.5	1.5D	TWCD-156-165-1.5D-16S0	33		101				
	3.0D	TWCD-156-165-3.0D-16S0	58		126				
	5.0D	TWCD-156-165-5.0D-16S0	91		159				
16.6-17.5	1.5D	TWCD-166-175-1.5D-20S0	35		106			HG-M2.5x9.0	TWA-IP10
	3.0D	TWCD-166-175-3.0D-20S0	61		132				
	5.0D	TWCD-166-175-5.0D-20S0	96		167				
17.6-18.5	1.5D	TWCD-176-185-1.5D-20S0	37		109	20	ZG1/8		
	3.0D	TWCD-176-185-3.0D-20S0	65		137				
	5.0D	TWCD-176-185-5.0D-20S0	102		174				
18.6-19.5	1.5D	TWCD-186-195-1.5D-20S0	39	50	112				
	3.0D	TWCD-186-195-3.0D-20S0	68		142				
	5.0D	TWCD-186-195-5.0D-20S0	107		181				
19.6-20.5	1.5D	TWCD-196-205-1.5D-20S0	41		115			HG-M3.0x10.5	
	3.0D	TWCD-196-205-3.0D-20S0	72		146				
	5.0D	TWCD-196-205-5.0D-20S0	113		187				
20.6-21.5	1.5D	TWCD-206-215-1.5D-25S0	43		129				TWA-IP15
	3.0D	TWCD-206-215-3.0D-25S0	75		161				
	5.0D	TWCD-206-215-5.0D-25S0	118		204				
21.6-22.8	1.5D	TWCD-216-228-1.5D-25S0	46		132				
	3.0D	TWCD-216-228-3.0D-25S0	80		166				
	5.0D	TWCD-216-228-5.0D-25S0	125		212				
22.9-23.8	1.5D	TWCD-229-238-1.5D-25S0	48	60	135	25	ZG1/8	HG-M3.5x11.5	
	3.0D	TWCD-229-238-3.0D-25S0	83		171				
	5.0D	TWCD-229-238-5.0D-25S0	131		218				
23.9-24.8	1.5D	TWCD-239-248-1.5D-25S0	50		138				
	3.0D	TWCD-239-248-3.0D-25S0	87		175				
	5.0D	TWCD-239-248-5.0D-25S0	136		224				
24.9-25.8	1.5D	TWCD-249-258-1.5D-25S0	52		141			HG-M4.0x12.4	TWA-IP20
	3.0D	TWCD-249-258-3.0D-25S0	90		179				
	5.0D	TWCD-249-258-5.0D-25S0	142		231				



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