

MAQ Catalog



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All about plug and play

Vibration in machining means damaged parts and surface, destroyed cutting inserts, and dramatically increased production costs. Machining operations using high length to diameter ratio tools (L/D) have the most prominent vibration issues, and let's not forgetting that short overhang tools also have the same problem but a bit less prominent. MAQ integrates a new approach to mass dampening in the tool body to extract the vibration energy from the cutting tool body to minimize the movement and neutralize the vibration problem.

The complex problem is the change of vibration frequency on cutting tools due to the cutting condition changes (tool wear, wearing joints, variation of work piece materials, changes of machining set up, etc.). For these reasons, leading competitor's products on the market require the optimized tuning of the cutting tools to ensure its performance. The out of tuning condition could make the vibration problem even worse, instead of improving.

What makes the MAQ products competitive is the self-tuning property. The spring elements adjust its stiffness according to the vibration frequency and overcome the problem of frequency changes. With its unique self-tuning property, MAQ tools outperform the solutions on the market and delivers the benefit to customers with better surface finish, better tolerance and higher process reliability. MAQ tools boost the productivity through simply machining, as you do not need any tuning, and it

It is truly 'Plug and Play'!

Qilin Fu

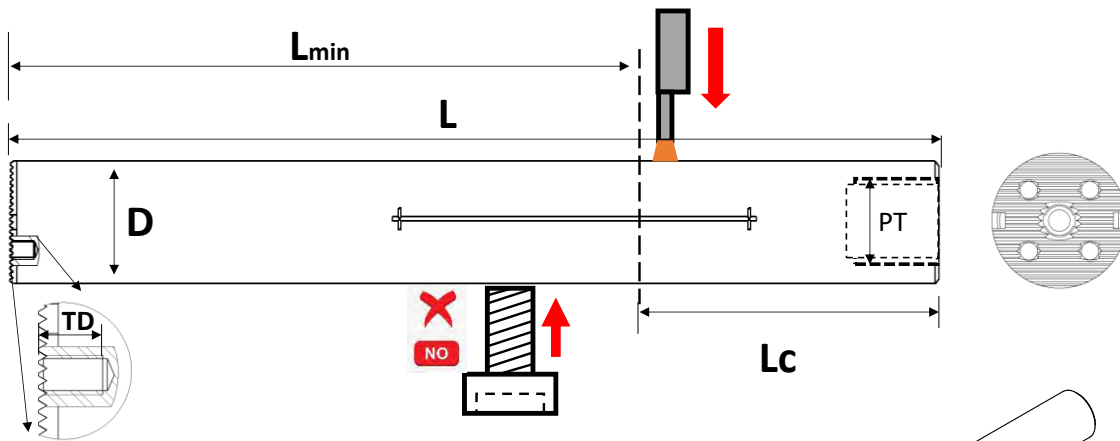
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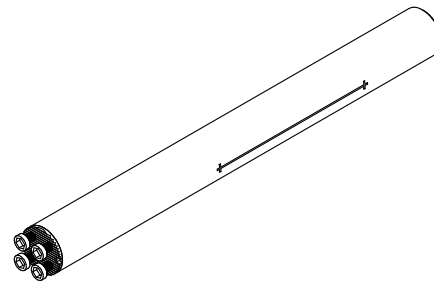
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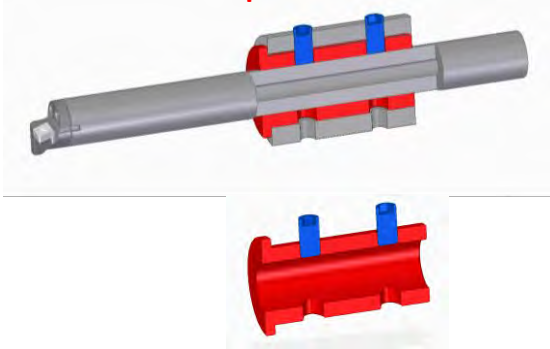
Turning tools:



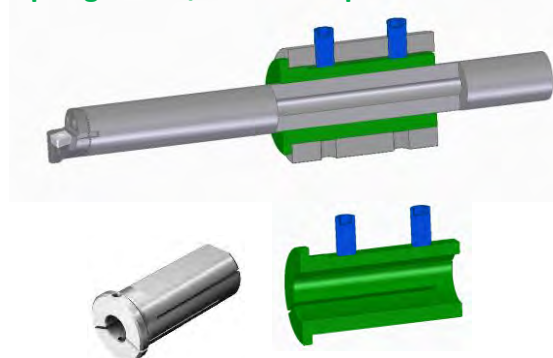
L – total length
L_{min} – minimum total length after cutting
L_c – recommended clamping length
D – diameter
PT – pipe thread
TD – thread depth



Direct screw clamp



Spring sleeve/collet clamp

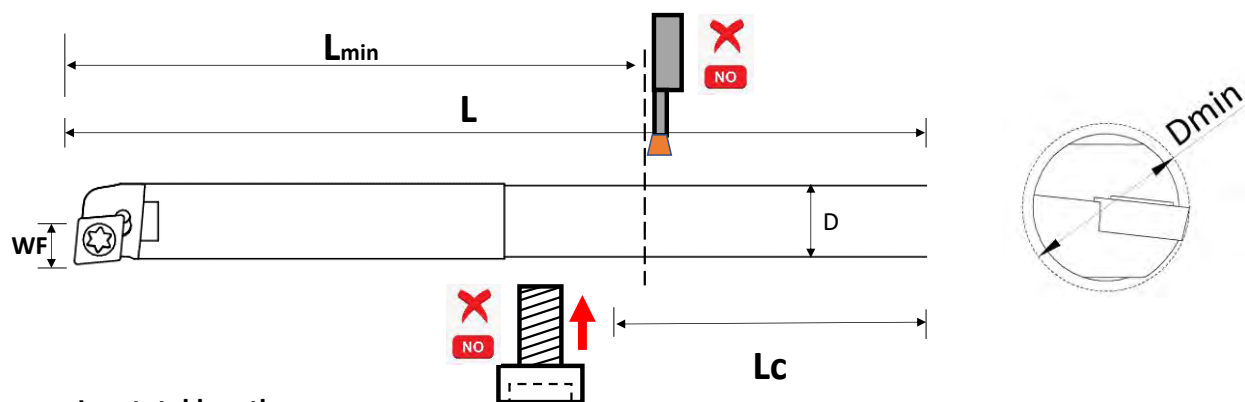


Straight holder in mm with SL interface:

Standard: Metric (with exchangeable heads)										
Art. Nr	D (mm)	L (mm)	Lmin (mm)	Lc (mm)	Screws	TD (mm)	PT	Adapter	Material	
STMD™ M12-144	12	144	144	36	M2X8 or 14	5.5	NA	SL12	Carbide ⁵	0.18
STMD™ M16-170	16	170	117	48	M3X8	5.5	G 1/4	SL16	Steel	0.25
STMD™ M16-204	16	204	204	48	M3X8	5.5	G 1/8 ¹	SL16	Carbide ⁵	0.50
STMD™ M16-268	16	268	268	48	M3X8	5.5	G 1/8 ¹	SL16	Carbide ⁵	0.75
STMD™ M20-200	20	200	137	60	M3X8	5.5	G 1/4	SL20	Steel	0.50
STMD™ M20-260	20	260	260	60	M3X8	5.5	G 1/4 ²	SL20	Carbide ⁵	1.00
STMD™ M20-340	20	340	340	60	M3X8	5.5	G 1/4 ²	SL20	Carbide ⁵	1.50
STMD™ M25-255	25	255	180	75	M4X9	6.5	G 1/4	SL25	Steel	1.10
STMD™ M25-330	25	330	255	75	M4X9	6.5	G 1/4	SL25	Steel	1.70
STMD™ M25-430	25	430	430	75	M4X9	6.5	G 1/4 ³	SL25	Carbide ⁵	3.20
STMD™ M32-320	32	320	213	96	M5X12	10	G 1/2	SL32	Steel	2.10
STMD™ M32-416	32	416	309	96	M5X12	10	G 1/2	SL32	Steel	3.50
STMD™ M32-544	32	544	544	96	M5X12	10	G 1/4 ⁴	SL32	Carbide ⁵	6.40
STMD™ M40-408 1C	40	408	260	120	M6X14	10	G 1/2	SL40	Steel	3,90
STMD™ M40-408 3C	40	408	260	120	M6X14	10	G 1/2	SL40	Steel	3,90
STMD™ M40-528 1C	40	528	312	120	M6X14	10	G 1/2	SL40	Steel	5.00
STMD™ M40-528 3C	40	528	312	120	M6X14	10	G 1/2	SL40	Steel	5.00
STMD™ M50-518-40	50	520	324	150	M6X14	10	G 3/4	SL40	Steel	8,00
STMD™ M50-518-50	50	518	322	150	M8X14	12	G 3/4	SL50	Steel	8,00
STMD™ M50-660-40	50	662	384	150	M6X14	10	G 3/4	SL40	Steel	9.40
STMD™ M50-660-50	50	660	382	150	M8X14	12	G 3/4	SL50	Steel	9.40
STMD™ M60-628-40	60	630	424	180	M6X14	10	G 3/4	SL40	Steel	13.6
STMD™ M60-628-60	60	628	422	180	M8X14	12	G 3/4	SL60	Steel	13.6
STMD™ M60-808-40	60	810	484	180	M6X14	10	G 3/4	SL40	Steel	16,4
STMD™ M60-808-60	60	808	482	180	M8X14	12	G 3/4	SL60	Steel	16,4
Delivery time: 2-3 days, all tools delivered with three clamping screws and an Allen wrench G 1/8 ¹ – with a coolant adapter M12x1- G 1/8 G 1/4 ² – with a coolant adapter M16x1- G 1/4 G 1/4 ³ – with a coolant adapter M20x1- G 1/4 G 1/4 ⁴ – with a coolant adapter M24x1- G 1/4 Carbide ⁵ – Carbide back end joined with steel										

Straight holder in inch with SL interface:

Standard: Inch (with exchangeable heads)										
Art. Nr	D (inch)	L (inch)	Lmin (inch)	Lc (inch)	Screws	PT	TD (mm)	Adapter	Material	 KG
STMD™ I 1/2-5.7	0.50	5.7	5.7	1.41	M2X8 or 14	NA	5.5	SL12	Carbide ⁴	0.10
STMD™ I 5/8-6.7	0.625	6.7	4.6	1.88	M3X8	G ¼	5.5	SL16	Steel	0.25
STMD™ I 5/8-8.0	0.625	8.0	8.0	1.88	M3X8	G ⅜ ¹	5.5	SL16	Carbide ⁴	0.50
STMD™ I 5/8-10.6	0.625	10.6	10.6	1.88	M3X8	G ⅜ ¹	5.5	SL16	Carbide ⁴	0.75
STMD™ I 3/4-7.9	0.75	7.9	5.4	2.25	M3X8	G ¼	5.5	SL20	Steel	0.50
STMD™ I 3/4-10.3	0.75	10.2	10.2	2.25	M3X8	G ¼ ²	5.5	SL20	Carbide ⁴	1.00
STMD™ I 3/4-13.4	0.75	13.4	13.4	2.25	M3X8	G ¼ ²	5.5	SL20	Carbide ⁴	1.50
STMD™ I 1-10	1.00	10.0	7.1	3.00	M4X9	G ¼	6.5	SL25	Steel	1.10
STMD™ I 1-13	1.00	13.0	8.1	3.00	M4X9	G ¼	6.5	SL25	Steel	1.70
STMD™ I 1-16.9	1.00	16.9	16.9	3.00	M4X9	G ¼ ³	6.5	SL25	Carbide ⁴	3.20
STMD™ I 1 1/4-12.6	1.25	12.6	8.4	3.75	M5X12	G ½	10	SL32	Steel	2.10
STMD™ I 1 1/4-16.4	1.25	16.4	12.2	3.75	M5X14	G ½	10	SL32	Steel	3.50
STMD™ I 1 1/2-16.0-1C	1.50	16.0	10.2	4,72	M6X14	G ½	10	SL40	Steel	3.90
STMD™ I 1 1/2-16.0-3C	1.50	16.0	10.2	4,72	M6X14	G ½	10	SL40	Steel	3.90
STMD™ I 1 1/2-20.8-1C	1.50	20.8	12.3	4,72	M6X14	G ½	10	SL40	Steel	5.00
STMD™ I 1 1/2-20.8-3C	1.50	20.8	12.3	4,72	M6X14	G ½	10	SL40	Steel	5.00
STMD™ I 2-20.4-SL40	2.00	20.4	12.7	5.90	M6X14	G ¾	10	SL40	Steel	8.00
STMD™ I 2-20.4-SL50	2.00	20.4	12.7	5.90	M8X14	G ¾	10	SL50	Steel	8.00
STMD™ I 2-26.0-SL40	2.00	26.0	15.0	5.90	M6X14	G ¾	10	SL40	Steel	9.40
STMD™ I 2-26.0-SL50	2.00	26.0	15.0	5.90	M8X14	G ¾	10	SL50	Steel	9.40
STMD™ I 2 1/2-24.7-SL40	2.50	24.7	16.7	7.10	M6X14	G ¾	12	SL40	Steel	13.60
STMD™ I 2 1/2-24.7-SL60	2.50	24.7	16.7	7.10	M8X14	G ¾	10	SL60	Steel	13.60
STMD™ I 2 1/2-31.8-SL40	2.50	31.8	19.1	7.10	M6X14	G ¾	12	SL40	Steel	16.40
STMD™ I 2 1/2-31.8-SL60	2.50	31.8	19.1	7.10	M8X14	G ¾	10	SL60	Steel	16.40
Delivery time: 2-3 days, all tools delivered with three clamping screws and an Allen wrench. G ⅜ ¹ – with a coolant adapter M12x1- G ⅜ G ¼ ² – with a coolant adapter M16x1- G ¼ G ¼ ³ – with a coolant adapter M20x1- G ¼ Carbide ⁴ – Carbide back end joined with steel										



L – total length

L_{min} – minimum total length after cutting

L_c – recommended clamping length

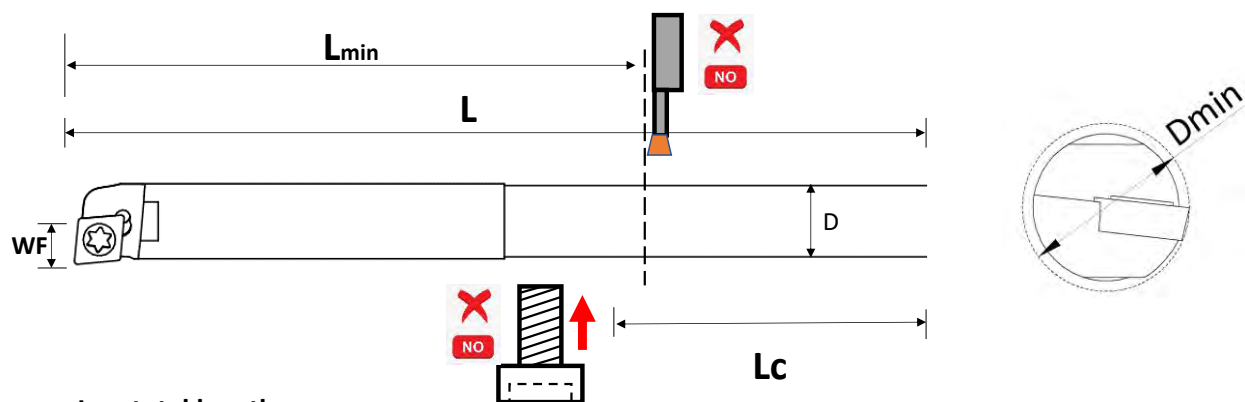
D – diameter

WF – distance from cutting point to centre with master insert

Art. Nr	D (mm)	L (mm)	L _{min} (mm)	L _c (mm)	WF (mm)	Coolant	DMIN1 (mm)	Master insert	Material	
STMD™ M10-150 SDUCR	10	160 ¹	160	30	9	No	15	DCMT 070204	Carbide ²	0.20
STMD™ M10-150 SCLCR	10	160 ¹	160	30	6,1	No	12	CCMT 060204	Carbide ²	0.20
STMD™ M10-150 STFCR	10	160 ¹	160	30	6,8	No	13	TCMT 090204	Carbide ²	0.20
STMD™ M12-180 SDUCR	12	192 ¹	192	36	8,9	Yes	16	DCMT 070204	Carbide ²	0.30
STMD™ M12-180 SCLCR	12	192 ¹	192	36	8,5	Yes	16	CCMT 060204	Carbide ²	0.30
STMD™ M12-180 STFCR	12	192 ¹	192	36	9	Yes	16	TCMT 090204	Carbide ²	0.30

160¹, 192¹ – total length to the cutting point

Carbide² – Carbide back end joined with steel



L – total length

L_{min} – minimum total length after cutting

L_c – recommended clamping length

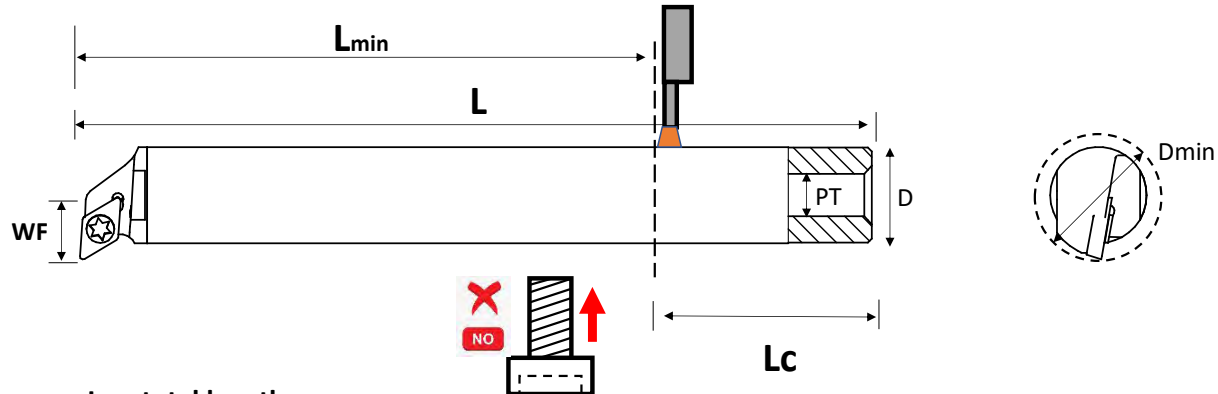
D – diameter

WF – distance from cutting point to centre with master insert

Art. Nr	D (mm)	L (mm)	L _{min} (mm)	L _c (mm)	WF (mm)	Coolant	DMIN1 (mm)	Master insert	Material	
STMD™ I 3/8-5.9 SDUCR	3/8	5.9 ¹	5.9 ¹	1.18	0.35	No	0.59	DCMT 070204	Carbide ²	0.20
STMD™ I 3/8-5.9 SCLCR	3/8	5.9 ¹	5.9 ¹	1.18	0.24	No	0.47	CCMT 060204	Carbide ²	0.20
STMD™ I 3/8-5.9 STFCR	3/8	5.9 ¹	5.9 ¹	1.18	0.27	No	0.51	TCMT 090204	Carbide ²	0.20
STMD™ I ½ -7.1 SDUCR	½	7.1 ¹	7.1 ¹	1.42	0.35	Yes	0.63	DCMT 070204	Carbide ²	0.30
STMD™ I ½ -7.1 SCLCR	½	7.1 ¹	7.1 ¹	1.42	0.33	Yes	0,63	CCMT 060204	Carbide ²	0.30
STMD™ I ½ -7.1 STFCR	½	7.1 ¹	7.1 ¹	1.42	0.35	Yes	0,63	TCMT 090204	Carbide ²	0.30

5.9¹, 7.1¹ – total length to the cutting point

Carbide² – Carbide back end joined with steel



L – total length

L_{min} – minimum total length after cutting

L_c – recommended clamping length

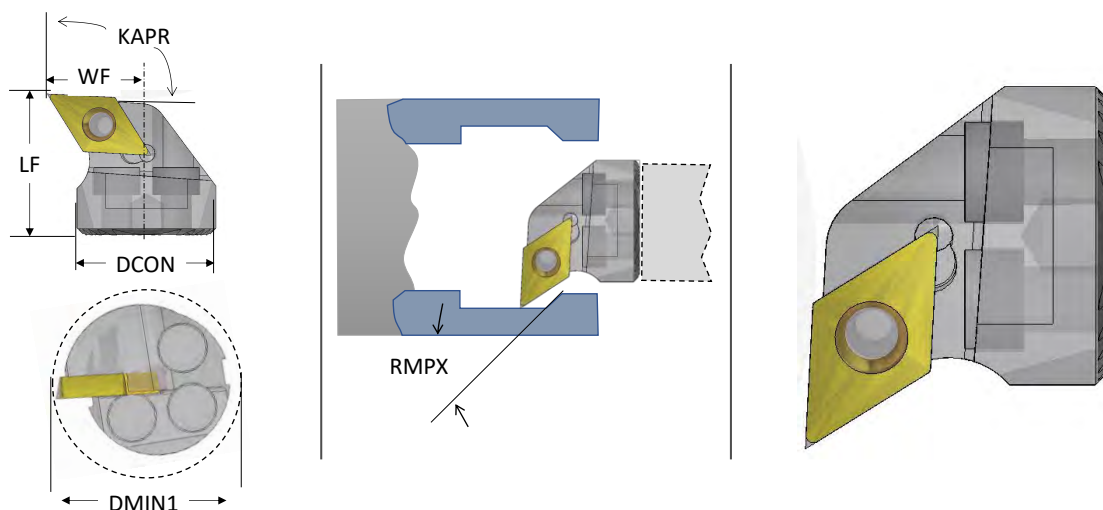
D – diameter

WF – distance from cutting point to centre with master insert

PT – coolant inlet

Art. Nr	D (mm)	L (mm)	L _{min} (mm)	L _c (mm)	WF (mm)	Coolant	DMIN1 (mm)	Master insert	PTI	
STMD™ M16-138 SDUCR	16	138	96	48	11	Yes	20	DCMT 070204	G ¼	0.2 kg
STMD™ M20-160 SDUCR	20	160	120	60	13	Yes	25	DCMT 11T304	G ¼	0.4 kg
STMD™ M25-205 SDUCR	25	205	155	75	17	Yes	32	DCMT 11T304	G ¼	0.6 kg
STMD™ M32-256 SDUCR	32	256	192	96	22	Yes	40	DCMT 11T304	G ½	1.2 kg
STMD™ M40-320 SDUCR	32	320	240	120	27	Yes	50	DCMT 11T304	G ½	2.4 kg
STMD™ M16-138 SCLCR¹	16	138	96	48	11	Yes	20	CCMT 060204	G ¼	0.2 kg
STMD™ M20-160 SCLCR¹	20	160	120	60	13	Yes	25	CCMT 09T304	G ¼	0.4 kg
STMD™ M25-205 SCLCR¹	25	205	155	75	17	Yes	32	CCMT 09T304	G ¼	0.6 kg
STMD™ M32-256 SCLCR¹	32	256	192	96	22	Yes	40	CCMT 09T304	G ½	1.2 kg
STMD™ M40-320 SCLCR¹	32	320	240	120	27	Yes	50	CCMT 09T304	G ½	2.4 kg
STMD™ M16-138 STFCR¹	16	138	96	48	11	Yes	20	TCMT 090204	G ¼	0.2 kg
STMD™ M20-160 STFCR¹	20	160	120	60	13	Yes	25	TCMT 110304	G ¼	0.4 kg
STMD™ M25-205 STFCR¹	25	205	155	75	17	Yes	32	TCMT 110304	G ¼	0.6 kg
STMD™ M32-256 STFCR¹	32	256	192	96	22	Yes	40	TCMT 16T304	G ½	1.2 kg
STMD™ M40-320 STFCR¹	32	320	240	120	27	Yes	50	TCMT 16T 304	G ½	2.4 kg
SCLCR¹, STFCR¹ – Available from April 2021										

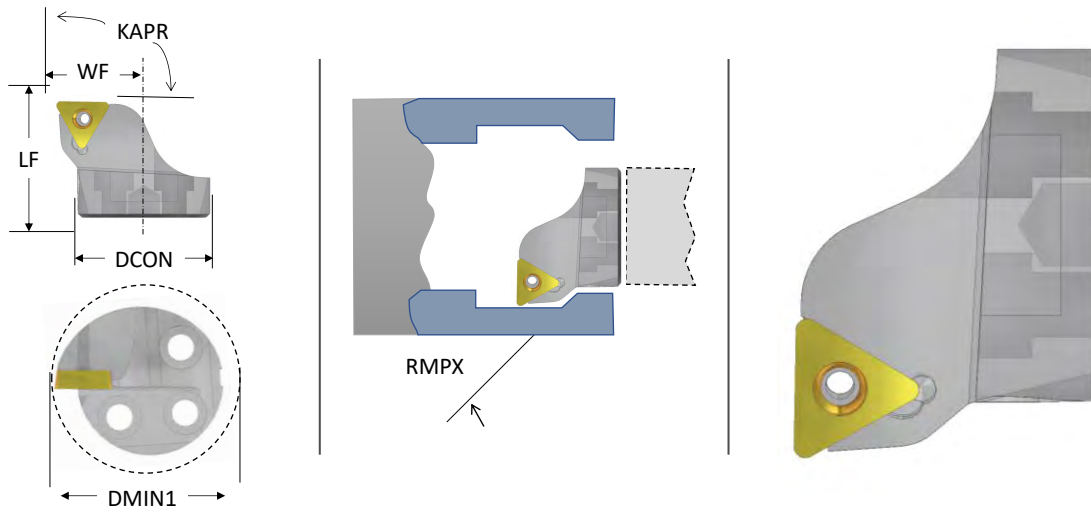
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Art. Nr	DCON (mm)	DMIN1 (mm)	LF (mm)	WF (mm)	KAPR (°)	RMPX (°)	Hand	Master insert	KG
SDUCL-12	SL 12	16	14	9	93	27	L	DCMT 070204	0.01
SDUCR-12	SL 12	16	14	9	93	27	R	DCMT 070204	0.01
SDUCL-16-5/8	SL 16	20	16	11	93	27	L	DCMT 070204	0.01
SDUCR-16-5/8	SL 16	20	16	11	93	27	R	DCMT 070204	0.01
SDUCL-20-3/4	SL 20	25	20	13	93	27	L	DCMT 11T304	0.02
SDUCR-20-3/4	SL 20	25	20	13	93	27	R	DCMT 11T304	0.02
SDUCL-25-1	SL 25	32	22	17	93	27	L	DCMT 11T304	0.04
SDUCR-25-1	SL 25	32	22	17	93	27	R	DCMT 11T304	0.04
SDUCL-32-1 1/4	SL 32	40	27	22	93	27	R	DCMT 11T304	0.07
SDUCR-32-1 1/4	SL 32	40	27	22	93	27	R	DCMT 11T304	0.07
SDUCR-40-1 1/2	SL 40	50	32	27	93	27	R	DCMT 11T304	0,14
SDUCL-40-1 1/2 3C¹	SL 40	50	32	27	93	27	L	DCMT 11T304	0,14
SDUCR-40-1 1/2 3C¹	SL 40	50	32	27	93	27	R	DCMT 11T304	0,14

Delivery time: 2-3 days, all cutter heads are delivered with the insert clamp screw.

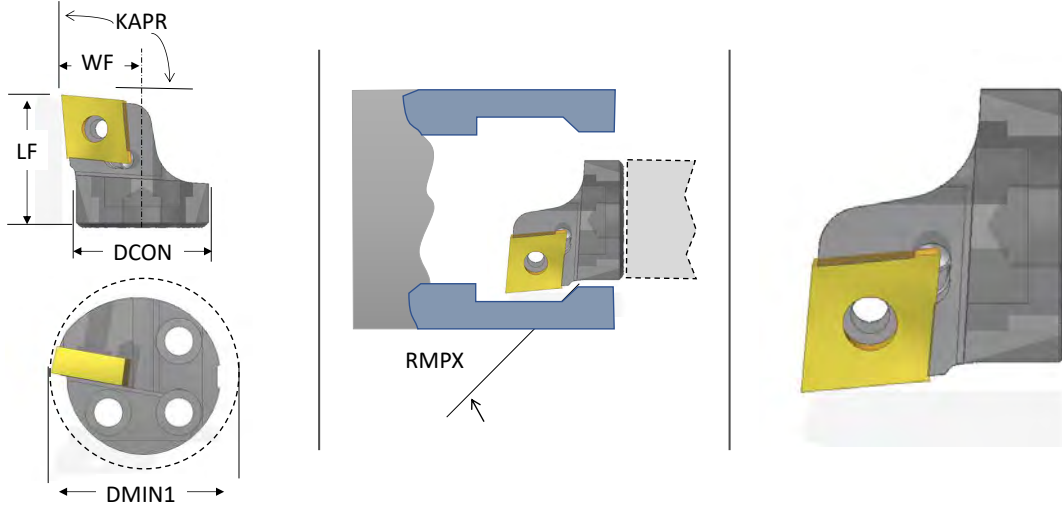
¹ available by the end of April 2021, had 3 channels of coolants that works for SL40 connection with 1C or 3C



Art. Nr	DCON (mm)	DMIN1 (mm)	LF (mm)	WF (mm)	KAPR (°)	RMPX (°)	Hand	Master Insert	 KG
STFCR-12	SL 12	16	14	9	91	NA	R	TCMT 090204	0.01
STFCL-16-5/8	SL 16	20	16	11	91	NA	L	TCMT 090204	0.01
STFCR-16-5/8	SL 16	20	16	11	91	NA	R	TCMT 090204	0.01
STFCL-20-3/4	SL 20	25	20	13	91	NA	L	TCMT 110304	0.02
STFCR-20-3/4	SL 20	25	20	13	91	NA	R	TCMT 110304	0.02
STFCL-25-1	SL 25	32	22	17	91	NA	L	TCMT 110304	0.04
STFCR-25-1	SL 25	32	22	17	91	NA	R	TCMT 110304	0.04
STFCL-32-1 ¼	SL 32	40	27	22	91	NA	L	TCMT 16T304	0.07
STFCR-32-1 ¼	SL 32	40	27	22	91	NA	R	TCMT 16T304	0.07
STFCR-40-1 ½	SL 40	50	32	27	91	NA	R	TCMT 16T304	0.14
STFCL-40-1 ½ 3C¹	SL 40	50	32	27	91	NA	L	TCMT 16T304	0.14
STFCR-40-1 ½ 3C¹	SL 40	50	32	27	91	NA	R	TCMT 16T304	0.14

Delivery time: 2-3 days, all cutter heads are delivered with the insert clamp screw.

¹ available by the end of April 2021, had 3 channels of coolants that works for SL40 connection with 1C or 3C

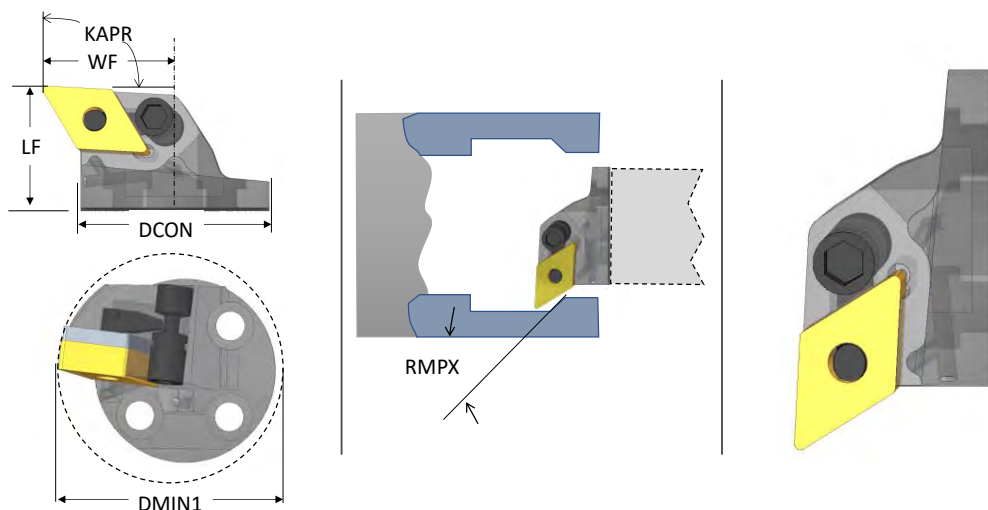


Art. Nr	DCON (mm)	DMIN1 (mm)	LF (mm)	WF (mm)	KAPR (°)	RMPX (°)	Hand	Master Insert	
SCLCL-12	SL 12	16	14.4	10	95	NA	L	CCMT 060204	0.01
SCLCR-12	SL 12	16	14.4	10	95	NA	R	CCMT 060204	0.01
SCLCL-16-5/8	SL 16	20	15.4	11	95	NA	L	CCMT 060204	0.01
SCLCR-16-5/8	SL 16	20	15.4	11	95	NA	R	CCMT 060204	0.01
SCLCL-20-3/4	SL 20	25	19.1	13	95	NA	L	CCMT 09T304	0.02
SCLCR-20-3/4	SL 20	25	19.1	13	95	NA	R	CCMT 09T304	0.02
SCLCL-25-1	SL 25	32	21.1	17	95	NA	L	CCMT 09T304	0.04
SCLCR-25-1	SL 25	32	21.1	17	95	NA	R	CCMT 09T304	0.04
SCLCL-32-1 ¼	SL 32	40	24.1	22	95	NA	L	CCMT 09T304	0.07
SCLCR-32-1 ¼	SL 32	40	24.1	22	95	NA	R	CCMT 09T304	0.07
SCLCR-40-1 ½	SL 40	50	25.1	27	95	NA	R	CCMT 09T304	0.14
SCLCL-40-1 ½ 3C¹	SL 40	50	25.1	27	95	NA	L	CCMT 120404	0.14
SCLCR-40-1 ½ 3C¹	SL 40	50	25.1	27	95	NA	R	CCMT 120404	0.14

Delivery time: 2-3 days, all cutter heads are delivered with the insert clamp screw.

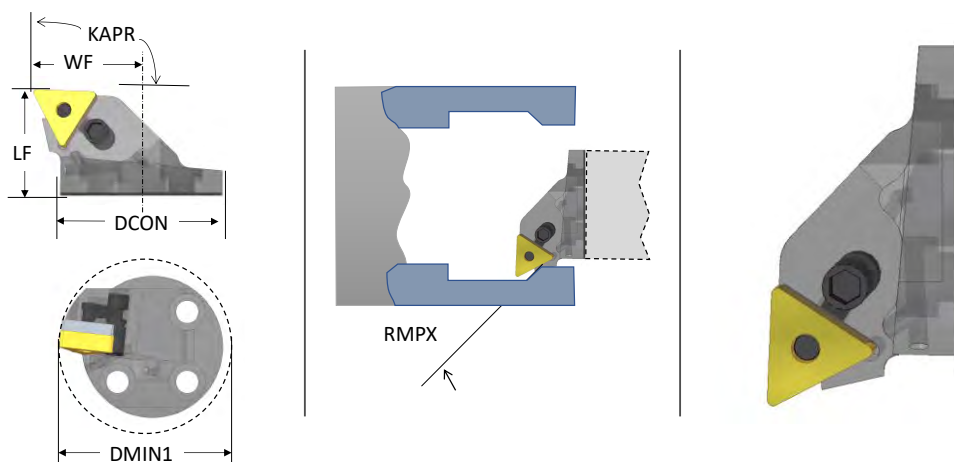
¹ available by the end of April 2021, had 3 channels of coolants that works for SL40 connection with 1C or 3C

End effect



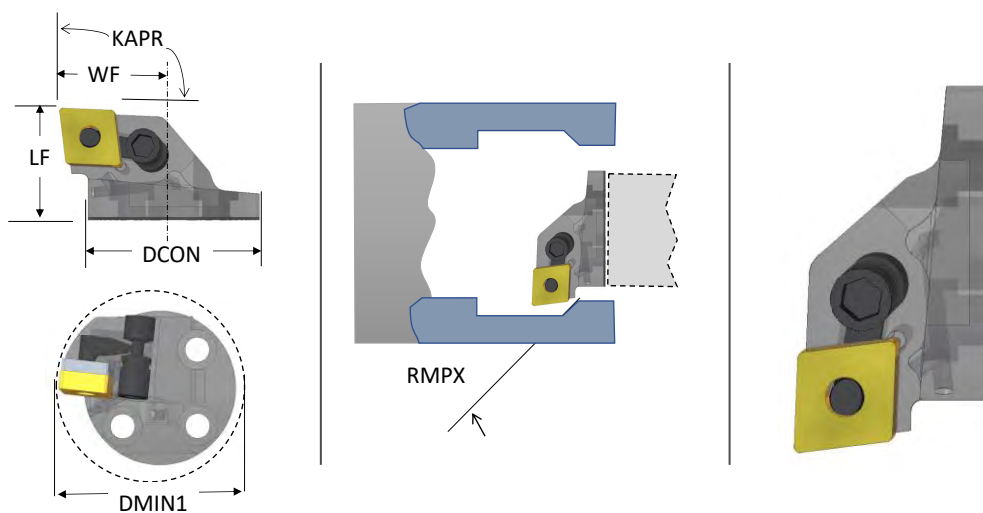
Art. Nr	DCO N (mm)	DMIN1 (mm)	LF (mm)	WF (mm)	KAPR (°)	RMP X (°)	Hand	Insert	KG
PDUNR-40-1 1/2	SL 40	50	26	27	93	27	R	DNMG 1506XX	0,14
Delivery time: 2-3 days, all cutter heads are delivered with the insert clamp screw.									

End eff



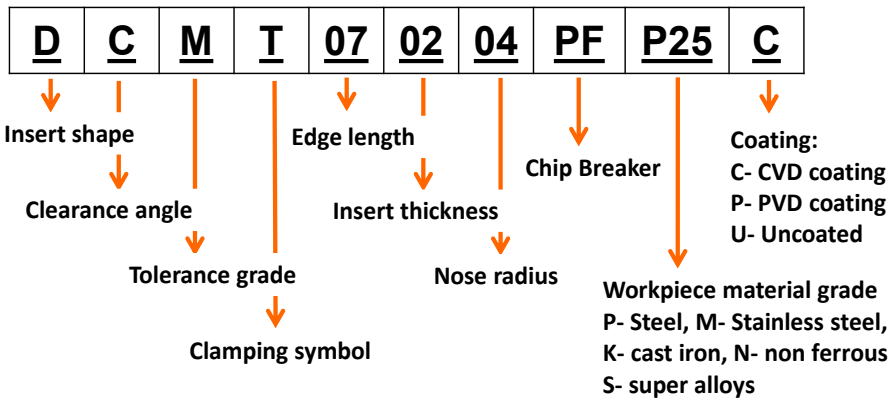
Art. Nr	DCO N (mm)	DMIN1 (mm)	LF (mm)	WF (mm)	KAPR (°)	RMPX (°)	Hand	Insert	KG
PTFNR-40-1 1/2	SL 40	50	26	27	91	NA	R	TNMG 1604XX	0.14
Delivery time: 2-3 days, all cutter heads are delivered with the insert clamp screw.									

End



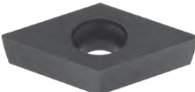
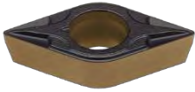
Art. Nr	DCON (mm)	DMIN1 (mm)	LF (mm)	WF (mm)	KAPR (°)	RMPX (°)	Hand	Insert	 KG
PCLNR-40-1 1/2	SL 40	50	26	27	95	NA	R	CNMG 1204XX	0.14
Delivery time: 2-3 days, all cutter heads are delivered with the insert clamp screw.									

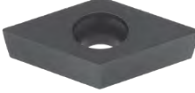
MAQ Certified Inserts



Positive insert

DCMT insert

DCMW Finishing	DCMT-FP Finishing	DCMT-FM Finishing	DCMT-FK Finishing	DCMT-FW Finishing wiper	DCMT-LM Medium to Finishing
					
DCMT-MP Medium	DCMT-MM Medium	DCMT-MK Medium	DCMT-MW Medium to Finishing wiper	DCGT-FS Finishing to Fine finishing	DCGT-LN Medium to Finishing
					

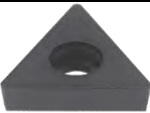
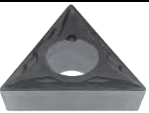
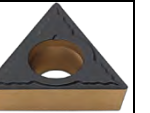
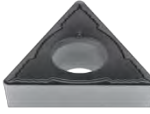
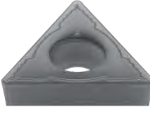
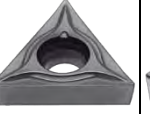
		P				M				K		N	S	
	Article	P10P	P15C	P20P	P25C	M10P	M15C	M20P	M25C	K05C	K20C	N10U	S10P	S20P
	DCMW 070202									●				
	DCMW 070204									●				
	DCMW 070208									●				
	DCMW 11T302									●				
	DCMW 11T304									●				
	DCMW 11T308									●				
	DCMW 150404									●				
	DCMW 150408									●				
	DCMT 070202-FP				●									
	DCMT 070204-FP		●		●◆									
	DCMT 11T302-FP			○	●									
	DCMT 11T304-FP		●		●◆									
	DCMT 11T308-FP		●		○									
	DCMT 070202-FM							●						●
	DCMT 070204-FM							○	●					●
	DCMT 11T302-FM					○		●	●				○	●
	DCMT 11T304-FM					○		○	●				○	●
	DCMT 11T308-FM					○		○	●				○	●
	DCMT 070202-FK									●				
	DCMT 070204-FK									●				
	DCMT 11T302-FK									●				
	DCMT 11T304-FK									●				

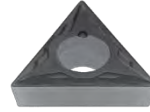
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	DCMT 070208-FW		●					●		●			●
	DCMT 11T304-FW		●					●		●			●
	DCMT 11T308-FW		●					●		●			●
	DCMT 11T304-LM					●		○				○	●
	DCMT 11T308-LM					●		○				○	●
	DCMT 070204-MP		○	○	●								
	DCMT 070208-MP		○		●								
	DCMT 11T304-MP		○	○	●								
	DCMT 11T308-MP		○	○	●								
	DCMT 11T312-MP	○	○		●								
	DCMT 070204-MM					○	●	○				○	●
	DCMT 070208-MM						●	○					●
	DCMT 11T304-MM					○	●	○				○	●
	DCMT 11T308-MM					○	●	○				○	●
	DCMT 11T312-MM					○	●	○					●
	DCMT 070204-MK									○	●		
	DCMT 070208-MK									○	●		
	DCMT 11T304-MK									○	●		
	DCMT 11T308-MK									○	●		
	DCMT 11T312-MK									○	●		
	DCMT 11T304-MW		●					●		●			●
	DCMT 11T308-MW		●					●		●			●
	DCGT 070201-FS	●		○		○		●				○	●
	DCGT 070202-FS	●		○		○		●				○	●
	DCGT 070204-FS	●		○		○		●				○	●
	DCGT 11T301-FS	●		○		○		●				○	●
	DCGT 11T302-FS	●		○		○		●				○	●
	DCGT 11T304-FS	●		○		○		●				○	●
	DCGT 11T308-FS	●		○		○		●				○	●
	DCGT 070202-LN										●		
	DCGT 070204-LN										●		
	DCGT 11T302-LN					●					●	●	
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	DCGT 11T308-LN										●		
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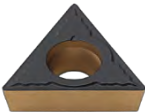
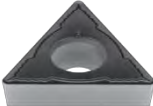
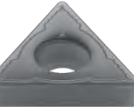
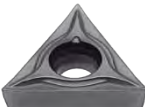
● in stock items ● minimum quantity 50 pcs ○ minimum order quantity 100 pcs

◆ Master insert for MAQ STMD tool holders

TCMT insert

TCMW Finishing	TCMT-FP Finishing	TCMT-FM Finishing	TCMT-FK Finishing	TCMT-FW Finishing wiper	TCMT-MP Medium
					
TCMT-MM Medium	TCMT-MK Medium	TCMT-MW Medium to Finishing wiper	TCGT-FS Finishing to Fine finishing	TCGT-LN Medium to Finishing	
					

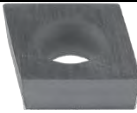
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	TCMW 110204									●				
	TCMW 16T304									●				
	TCMW 16T308									●				
	TCMT 06T102-FP				●									
	TCMT 06T104-FP		●		○									
	TCMT 06T108-FP	○	●		○									
	TCMT 090202-FP	○			●									
	TCMT 090204-FP		●	○	●◆									
	TCMT 110202-FP				●									
	TCMT 110204-FP		●		○									
	TCMT 110208-FP		●		○									
	TCMT 110302-FP	○			●									
	TCMT 110304-FP	○	●		●◆									
	TCMT 110308-FP	○	●	○	○									
	TCMT 16T304-FP		●		●◆									
	TCMT 06T102-FM							○	●					●
	TCMT 06T104-FM							○	●					●
	TCMT 06T108-FM							○	●					●
	TCMT 090202-FM							○	●					●
	TCMT 090204-FM							○	●					●
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	TCMT 110204-FM							○	●					●
	TCMT 110208-FM							○	●					●
	TCMT 110302-FM							○	●					●
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	TCMT 110308-FM							○	●					●
	TCMT 16T304-FM							○	●					●
	TCMT 06T102-FK									●				
	TCMT 06T104-FK									●				
	TCMT 06T108-FK									●				
	TCMT 090202-FK									●				
	TCMT 090204-FK									●				
	TCMT 110202-FK									●				
	TCMT 110204-FK									●				
	TCMT 110302-FK									●				
	TCMT 110304-FK									●				
	TCMT 16T304-FK									●				
	TCMT 090204-FW		●						●	●				●
	TCMT 090208-FW		●						●	●				●
	TCMT 110204-FW		●						●	●				●
	TCMT 110208-FW		●						●	●				●
	TCMT 110304-FW		●						●	●				●

	TCMT 110308-FW		●						●	●			●
	TCMT 16T304-FW		●						●	●			●
	TCMT 16T308-FW		●						●	●			●
	TCMT 090204-MP	○	○		●								
	TCMT 090208-MP	○	○	○	●								
	TCMT 110204-MP		○	○	●								
	TCMT 110208-MP	○	○		●								
	TCMT 110212-MP	○	○	○	●								
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	TCMT 110308-MP	○	○		●								
	TCMT 110312-MP	○	○	○	●								
	TCMT 16T304-MP		○		●								
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	TCMT 220408-MP		○		●								
	TCMT090204-MM					○		○	●				●
	TCMT090208-MM							○	●				●
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	TCMT220408-MM							○	●				●
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	TCMT 16T308-MK									○	●		
	TCMT 16T312-MK									○	●		
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	TCMT 110308-MW		●					●		●			●
	TCMT 16T308-MW		●					●		●			●
	TCMT 110208-MW		●					●		●			●
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	TCGT 090204-FS	●		○		●		○				○	●
	TCGT 110201-FS	●		○		●		○				○	●
	TCGT 110202-FS	●		○		●		○				○	●
	TCGT 110204-FS	●		○		●		○				○	●
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	TCGT 090202-LN											●	
	TCGT 090204-LN											●	
	TCGT 110202-LN											●	
	TCGT 110204-LN					●						●	
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	TCGT 16T302-LN											●	
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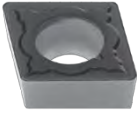
● in stock items ● minimum quantity 50 pcs ○ minimum order quantity 100 pcs

◆ Master insert for MAQ STMD tool holders

CCMT insert

CCMW Finishing	CCMT-FP Finishing	CCMT-BO Finishing	CCMT-FM Finishing	CCMT-FK Finishing	CCMT-FW Finishing wiper	CCMT-LM Medium to Finishing
						
CCMT-MP Medium	CCMT-MM Medium	CCMT-MK Medium	CCMT-MW Medium to Finishing wiper	CCGT-FS Finishing to Fine finishing	CCGT-LN Medium to Finishing	
						

	Article	P				M				K		N	S	
		P10P	P15C	P20P	P25C	M10P	M15C	M20P	M25C	K05C	K20C	N10U	S10P	S20P
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	CCMW 09T304									●				
	CCMT 060202-FP				●									
	CCMT 060204-FP		●	○	●◆									
	CCMT 09T302-FP				●									
	CCMT 09T304-FP		○	○	●◆									
	CCMT 09T308-FP		○	○	○									
	CCMT 120404-FP		○		●◆									
	CCMT 060202-BO		○	●		○		●					○	●
	CCMT 060204-BO		○	●		○		●					○	●
	CCMT 060208-BO			●				●						●
	CCMT 09T304-BO		○	●		○		●					○	●
	CCMT 09T308-BO		○	●		○		●					○	●
	CCMT 120404-BO		○	●		○		●					○	●
	CCMT 120408-BO		○	●		○		●					○	●
	CCMT 060202-FM							●						●
	CCMT 060204-FM					○		○	●				○	●
	CCMT 09T302-FM							●						●
	CCMT 09T304-FM					○		○	●				○	●
	CCMT 09T308-FM					○		○	●				○	●
	CCMT 120404-FM					○		○	●					●
	CCMT 060202-FK									●				
	CCMT 060204-FK									●				
	CCMT 09T302-FK									●				
	CCMT 09T304-FK									●				
	CCMT 120404-FK									●				
	CCMT 060204-FW		●	○				●		●				●
	CCMT 060208-FW		●	○				●		●				●
	CCMT 09T304-FW		●	○				●		●				●
	CCMT 09T308-FW		●	○				●		●				●
	CCMT 060204-LM					●		○					○	●
	CCMT 09T304-LM					●		○					○	●
	CCMT 120404-LM					●		○					○	●
	CCMT 060204-MP		○	○	●									
	CCMT 060208-MP		○		●									
	CCMT 09T304-MP		○	○	●									
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	CCMT 120404-MP		○		●									
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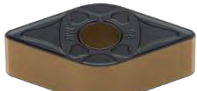
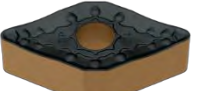
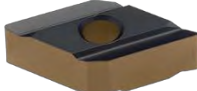
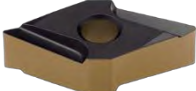
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	CCMT 120404-MM						●	○						●
	CCMT 120408-MM					○	●	○					○	●
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	CCMT 09T304-MK									○	●			
	CCMT 09T308-MK									○	●			
	CCMT 120404-MK									○	●			
	CCMT 120408-MK									○	●			
	CCMT 060208-MW		●	○				●			●			●
	CCMT 09T304-MW		●	○				●			●			●
	CCMT 09T308-MW		●	○				●			●			●
	CCMT 120404-MW		●	○				●			●			●
	CCMT 120408-MW		●	○				●			●			●
	CCGT 060201-FS	●		○		●		○					○	●
	CCGT 060202-FS	●		○		●		○					○	●
	CCGT 060204-FS	●		○		●		○					○	●
	CCGT 09T301-FS	●		○		●		○					○	●
	CCGT 09T302-FS	●		○		●		○					○	●
	CCGT 09T304-FS	●		○		●		○					○	●
	CCGT 060202-LN					●						●	●	
	CCGT 060204-LN					●						●	●	
	CCGT 09T302-LN											●		
	CCGT 09T304-LN					●						●	●	
	CCGT 09T308-LN											●		
	CCGT 120402-LN											●		
	CCGT 120404-LN											●		
	CCGT 120408-LN											●		
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● in stock items ● minimum quantity 50 pcs ○ minimum order quantity 100 pcs

◆ Master insert for MAQ STMD tool holders

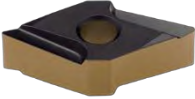
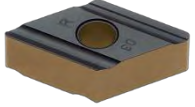
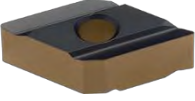
Negative insert

DNMG insert

DNMA Roughing	DNMG-MF Finishing	DNMG-SF Medium to Finishing	DNMG-LC Medium to Finishing	DNMG-MS Medium	DNMG-MR Medium
					
DNMG-PM Medium	DNMG-ST Medium	DNMG-MW Medium wiper	DNMG-SS Roughing to Medium	DNMG-HR Roughing	DNMM-RP Roughing
					
DNMX-01 Roughing to Medium	DNMX-02 Medium to Finishing	DNMX-03 Medium			
					

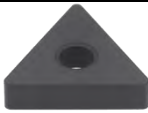
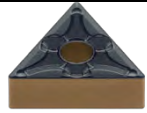
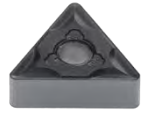
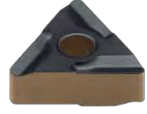
		P					M					K			N	S	
	Article	P05C	P10P	P15C	P25C	P40C	M10P	M15C	M20P	M25C	M40C	K05C	K20C	K40C	N10U	S10P	S20P
	DNMA 110404											●	○				
	DNMA 150404											●	○				
	DNMA 150408											●	○				
	DNMA 150412											●	○				
	DNMA 150416											●	○				
	DNMA 150604											●	○				
	DNMA 150608											●	○				
	DNMA 150612											●	○				
	DNMA 150616											●	○				
	DNMG 110404-MF			●	○												
	DNMG 110408-MF	○		●	○												
	DNMG 150404-MF		○	●	○		●										
	DNMG 150408-MF		○	●	○		●										
	DNMG 150412-MF			●	○												
	DNMG 150604-MF		○	●	○		●										
	DNMG 150608-MF		○	●	○		●										
	DNMG 150612-MF			●	○												
	DNMG 110404-SF						○	●	○	○						○	●
	DNMG 110408-SF						○	●	○	○						○	●
	DNMG 150404-SF						○	●	○	○						○	●
	DNMG 150408-SF						○	●	○	○						○	●
	DNMG 150412-SF						○	●	○	○						○	●
	DNMG 150604-SF						○	●	○	○						○	●
	DNMG 150608-SF						○	●	○	○						○	●
	DNMG 150612-SF						○	●	○	○						○	●
	DNMG 150404-LC			●	○												
	DNMG 150408-LC			●	○												
	DNMG 150412-LC			●	○												
	DNMG 150604-LC	○		●	○												
	DNMG 150608-LC	○		●	○												
	DNMG 150612-LC			●	○												

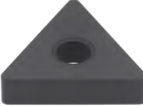
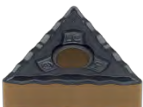
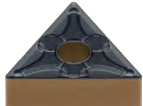
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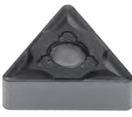
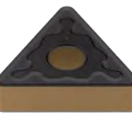
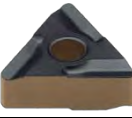
	DNMX 150608-R02			●	○												
	DNMX 150604-L03			●	○												
	DNMX 150604-R03			●	○												
	DNMX 150608-L03			●	○												
	DNMX 150608-R03			●	○												
	DNMX 150408-L01			○	●												
	DNMX 150408-R01			○	●												
	DNMX 150604-L01			○	●												
	DNMX 150604-R01			○	●												
	DNMX 150608-L01			○	●												
	DNMX 150608-R01			○	●												

● in stock items ● minimum quantity 50 pcs ○ minimum order quantity 100 pcs

TNMG insert

TNMA Roughing	TNMG-MF Finishing	TNMG-SF Medium to Finishing	TNMG-LC Medium to Finishing	TNMG-MS Medium	TNMG-MR Medium
					
TNMG-PM Medium	TNMG-ST Medium	TNMG-MW Medium wiper	TNMG-SS Roughing to Medium	TNMG-HR Roughing	TNMX-01 Medium to Finishing
					

		P					M					K			N	S	
	Article	P05C	P10P	P15C	P25C	P40C	M10P	M15C	M20P	M25C	M40C	K05C	K20C	K40C	N10U	S10P	S20P
	TNMA 110304											●	○				
	TNMA 110308											●	○				
	TNMA 160304											●	○				
	TNMA 160308											●	○				
	TNMA 160404											●	○				
	TNMA 160408											●	○				
	TNMA 160412											●	○				
	TNMA 160416											●	○				
	TNMA 220404											●	○				
	TNMA 220408											●	○				
	TNMA 220412											●	○				
	TNMA 220416											●	○				
	TNMA 270608											●	○				
	TNMA 270612											●	○				
	TNMA 270616											●	○				
	TNMA 330724											●	○				
	TNMG 160404-MF	○	○	●	○		●										
	TNMG 160408-MF	○	○	●	○		●	○									
	TNMG 160412-MF			●	○												
	TNMG 220408-MF			●													
	TNMG 160404-SF						○	●	○	○						○	●
	TNMG 160408-SF						○	●	○	○						○	●
	TNMG 160412-SF						○	●	○	○						○	●
	TNMG 220404-SF						○	●	○	○						○	●
	TNMG 220408-SF						○	●	○	○						○	●
	TNMG 220412-SF						○	●	○	○						○	●
	TNMG 160404-LC	○		●	○												
	TNMG 160408-LC			●	○												
	TNMG 160412-LC			●	○												
	TNMG 220408-LC			●	○												
	TNMG 220412-LC			●	○												
	TNMG 160404-MS								●						●		●
	TNMG 160408-MS								●						●		●
	TNMG 160412-MS								●						●		●
	TNMG 160308-MR			○	●												
	TNMG 160404-MR			○	●	○											
	TNMG 160408-MR			○	●	○											
	TNMG 160412-MR			○	●	○											
	TNMG 220404-MR			○	●	○											

	TNMG 220408-MR			○	●	○											
	TNMG 220412-MR			○	●	○											
	TNMG 220416-MR				●	○											
	TNMG 160404-PM	○		○	●												
	TNMG 160408-PM	○		○	●												
	TNMG 160412-PM	○		○	●												
	TNMG 160416-PM			○	●												
	TNMG 220404-PM			○	●												
	TNMG 220408-PM			○	●												
	TNMG 220412-PM			○	●												
	TNMG 220416-PM			○	●												
	TNMG 110308-ST												●				
	TNMG 160304-ST												●				
	TNMG 160308-ST												●				
	TNMG 160404-ST											○	●				
	TNMG 160408-ST											○	●				
	TNMG 160412-ST											○	●				
	TNMG 160416-ST											○	●				
	TNMG 220404-ST											○	●				
	TNMG 220408-ST											○	●				
	TNMG 220412-ST											○	●				
	TNMG 220416-ST											○	●				
	TNMG 160408-MW			●	○	○							●				
	TNMG 160412-MW			●	○	○							●				
	TNMG 160404-SS						○	○	○	●	○					○	●
	TNMG 160408-SS						○	○	○	●	○					○	●
	TNMG 160412-SS						○	○	○	●	○					○	●
	TNMG 220408-SS						○	○	○	●	○					○	●
	TNMG 220412-SS								○	●							●
	TNMG 160408-HR			○	●	○						○	●	○			
	TNMG 160412-HR			○	●	○						○	●	○			
	TNMG 220408-HR			○	●	○						○	●	○			
	TNMG 220412-HR			○	●	○						○	●	○			
	TNMG 220416-HR			○	●	○						○	●	○			
	TNMG 270612-HR				●	○								●			
	TNMG 270616-HR					○								●			
	TNMX 160404-L01			○	●												
	TNMX 160404-R01			○	●												
	TNMX 160408-L01			○	●												
	TNMX 160408-R01			○	●				●								

● in stock items ● minimum quantity 50 pcs ○ minimum order quantity 100 pcs

CNMG insert

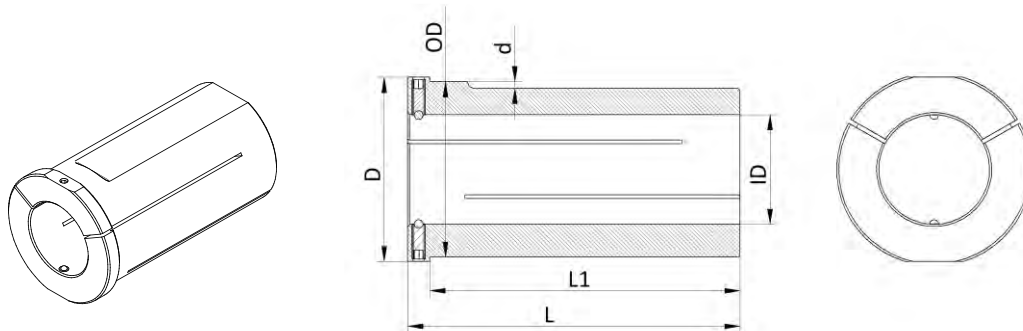
CNMA Roughing	CNMG-MF Finishing	CNMG-SF Medium to Finishing	CNMG-LC Medium to Finishing	CNMG-MS Medium	CNMG-MR Medium	CNMG-PM
						
CNMG-ST Medium	CNMG-MW Medium wiper	CNMG-SS Roughing to Medium	CNMG-HR Roughing	CNMM-RP Roughing	CNMM-HY Heavy to Roughing	CNMM-HZ Heavy to Roughing
						

		P					M					K			N	S	
	Article	P05C	P10P	P15C	P25C	P40C	M10P	M15C	M20P	M25C	M40C	K05C	K20C	K40C	N10U	S10P	S20P
	CNMA 120404											●	○				
	CNMA 120408											●	○				
	CNMA 120412											●	○				
	CNMA 120416											●	○				
	CNMA 160608											●	○				
	CNMA 160612											●	○				
	CNMA 160616											●	○				
	CNMA 190612											●	○				
	CNMA 190616											●	○				
	CNMA 190624												●				
	CNMG 090304 MF			●	○												
	CNMG 090304 MF			●	○												
	CNMG 09T304 MF			●													
	CNMG 09T308 MF			●													
	CNMG 120404 MF		○	●	○		●										
	CNMG 120408 MF		○	●	○		●										
	CNMG 120412 MF			●	○												
	CNMG 120404 SF						○	●	○	○						○	●
	CNMG 120408 SF						○	●	○	○						○	●
	CNMG 120412 SF						○	●	○	○						○	●
	CNMG 120404 LC			●	○												
	CNMG 120408 LC	○		●	○												
	CNMG 120412 LC			●	○												
	CNMG 120404 MS								●						●		●
	CNMG 120408 MS								●						●		●
	CNMG 120412 MS								●						●		●
	CNMG 120416 MS								●						○		●
	CNMG 090304 MR			○	●												
	CNMG 090308 MR			○	●												
	CNMG 120404 MR			○	●	○											
	CNMG 120408 MR			○	●	○											
	CNMG 120412 MR			○	●	○											
	CNMG 120416 MR			○	●	○											
	CNMG 160608 MR			○	●	○											
	CNMG 160612 MR			○	●	○											
	CNMG 160616 MR			○	●	○											
	CNMG 190612 MR			○	●	○											
	CNMG 190616 MR			○	●	○											

	CNMG 120404 PM	○		○	●												
	CNMG 120408 PM	○		○	●												
	CNMG 120412 PM	○		○	●												
	CNMG 120416 PM			○	●												
	CNMG 120404 ST											○	●				
	CNMG 120408 ST											○	●				
	CNMG 120412 ST											○	●				
	CNMG 120416 ST											○	●				
	CNMG 160608 ST											○	●				
	CNMG 160612 ST											○	●				
	CNMG 160616 ST											○	●				
	CNMG 190612 ST											○	●				
	CNMG 120408 MW			●	○	○							●				
	CNMG 120412 MW			●	○	○							●				
	CNMG 090304-SS						○		○	●						○	●
	CNMG 090308-SS						○		○	●						○	●
	CNMG 120404-SS						○	○	○	●	○					○	●
	CNMG 120408-SS						○	○	○	●	○					○	●
	CNMG 120412-SS						○	○	○	●	○					○	●
	CNMG 120416-SS								○	●							●
	CNMG 160608-SS								○	●							●
	CNMG 160612-SS								○	●							●
	CNMG 190612-SS								○	●							●
	CNMG 190616-SS								○	●							●
	CNMG 120408-HR	○		○	●	○						○	●	○			
	CNMG 120412-HR	○		○	●	○						○	●	○			
	CNMG 120416-HR			○	●	○						○	●	○			
	CNMG 160608-HR			○	●	○						○	●	○			
	CNMG 160612-HR			○	●	○						○	●	○			
	CNMG 160616-HR			○	●	○						○	●	○			
	CNMG 190612-HR			○	●	○						○	●	○			
	CNMG 190616-HR			○	●	○						○	●	○			
	CNMG 250924-HR			○	●	○						○	●	○			
	CNMM 160608-RP			○	●												
	CNMM 160612-RP			○	●												
	CNMM 160616-RP			○	●				●								
	CNMM 190612-RP			○	●												
	CNMM 190616-RP			○	●												
	CNMM 190624-RP			○	●												
	CNMM 190612-HY			○	●					●							
	CNMM 190616-HY			○	●					●							
	CNMM 190624-HY			○	●					●							
	CNMM 250924-HY			○	●					●							
	CNMM 190612-HZ			○	●	○							●	○			
	CNMM 190616-HZ			○	●	○							●	○			
	CNMM 190624-HZ			○	●	○							●	○			
	CNMM 250924-HZ			○	●	○							●	○			

● in stock items ● minimum quantity 50 pcs ○ minimum order quantity 100 pcs

Reduction sleeves



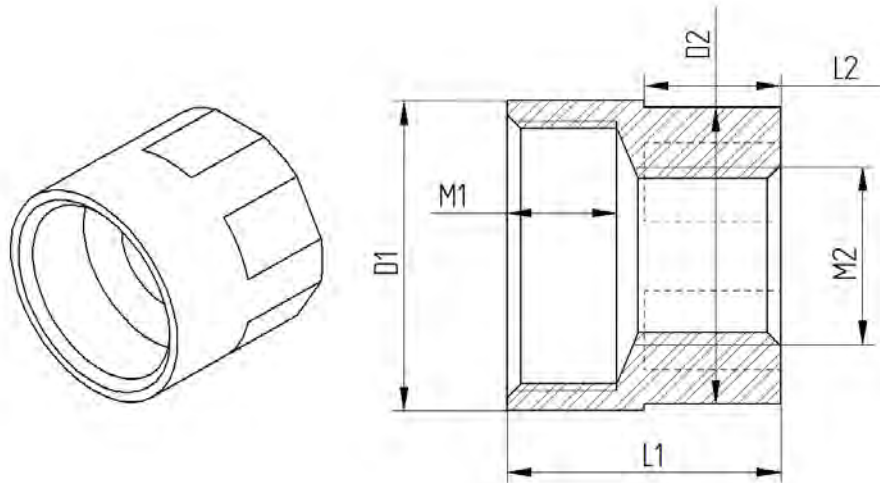
Art. Nr	OD g6 (mm)	ID H7 (mm)	L (mm)	D (mm)	L1 (mm)	D (mm)
RS 40-32	40	32	75	43	70	1.5
RS 40-25	40	25	75	42	70	1.5
RS 40-20	40	20	75	42	70	1.5
RS 40-16	40	16	75	42	70	1.5
RS 40-12	40	12	75	42	70	1.5
RS 40-10	40	10	75	42	70	1.5

Digital protractor (angle inclinometer)

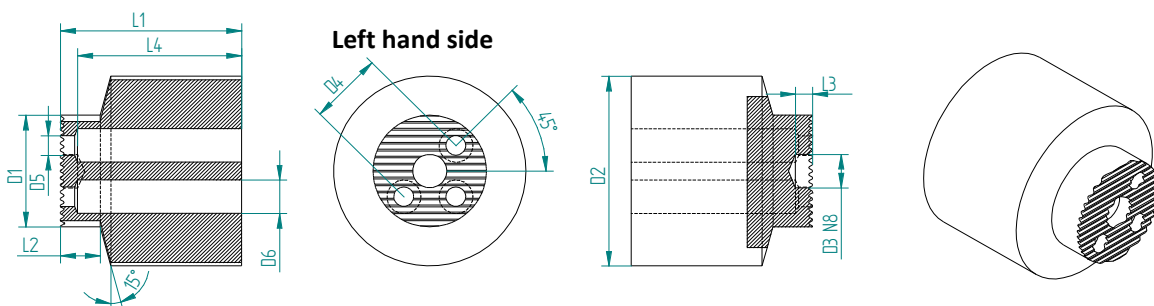


Art. Nr	Width (mm)	Length (mm)	Height (mm)	Weight (g)	Battery	Lightning
IP54/65 protractor*	26	57	55	85	AA, 2 pcs	Yes
* Depending on the stock situation, the shipped product is either IP54 or IP65. * Delivered with a magnet with power of 4.8 kg for easier alignment of machining tools. * Delivered without batteries						

Coolant adapters for carbide bars



Art. Nr	M1	M2	L1	L2	D1	D2	Works for
CA M12x1 G 1/8	M12x1	G 1/8	16	8	14	13	STMD M16-204, STMD M16-268 STMD™ I 5/8-8.0, STMD™ I 5/8-10.6
CA M16x1 G 1/4	M16x1	G 1/4	20	10	18	16	STMD M20-260, STMD M20-340 STMD™ I 3/4-10.3, STMD™ I 3/4-13.4
CA M20x1 G 1/4	M20x1	G 1/4	20	10	23	22	STMD M25-340 STMD™ I 1-16.9

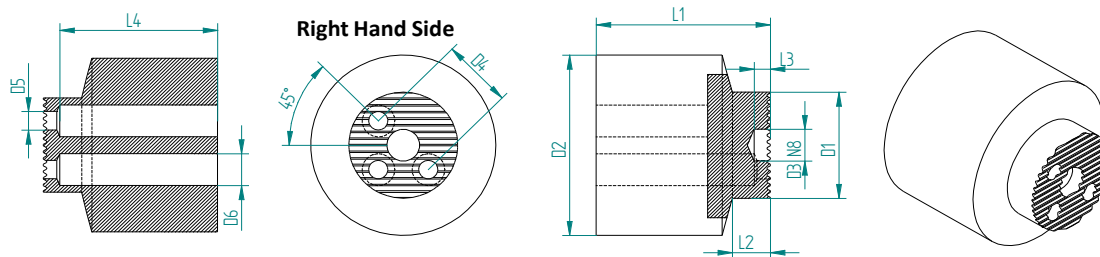


Art. Nr	D1 (mm)	D2 (mm)	D3 N8** (mm)	D4 (mm)	D5 (mm)	D6 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)
SL12-20-20 L	12	20	4	7.4	2.5	4	20	7	3	17
SL16-26-25 L	16	26	4	9.5	3.5	6	25	7	3	22
SL20-34-32 L	20	34	6	13	3.5	6	32	7	3	29
SL25-40-40 L	25	40	6	16	4.5	7.5	40	7	3	37

SL32-50-50 L	32	50	6	22	5.5	9	50	11	3	47
SL40-60-60 L	40	60	6	28	6.5	10.5	60	11	3	57
SL50-70-70 L	50	70	8	35	8.5	13.5	70	11	4	67

** : all SL blank parts will be supplied with a centering pin equivalent to the dimension

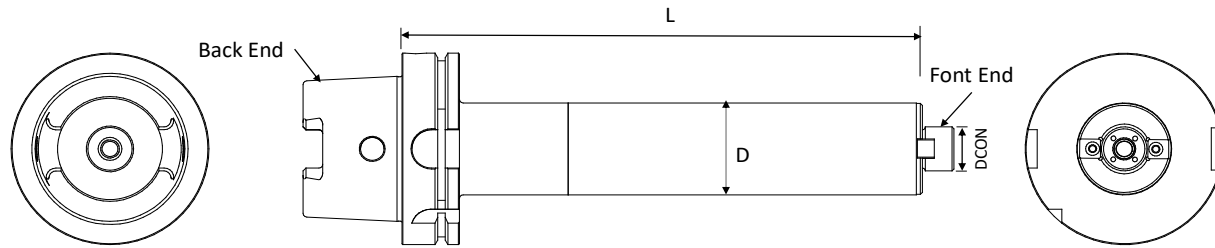
SL Bla



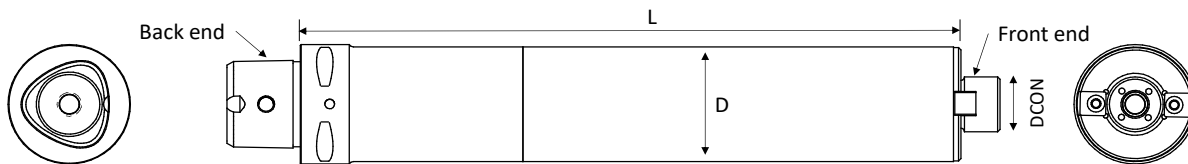
Art. Nr	D1 (mm)	D2 (mm)	D3 N8** (mm)	D4 (mm)	D5 (mm)	D6 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)
SL12-20-20 R	12	20	4	7.4	2.5	4	20	7	3	17
SL16-26-25 R	16	26	4	9.5	3.5	6	25	7	3	22
SL20-34-32 R	20	34	6	13	3.5	6	32	7	3	29
SL25-40-40 R	25	40	6	16	4.5	7.5	40	7	3	37
SL32-50-50 R	32	50	6	22	5.5	9	50	11	3	47
SL40-60-60 R	40	60	6	28	6.5	10.5	60	11	3	57
SL50-70-70 R	50	70	8	35	8.5	13.5	70	11	4	67

** : all SL blank parts will be supplied with a centering pin equivalent to the dimension

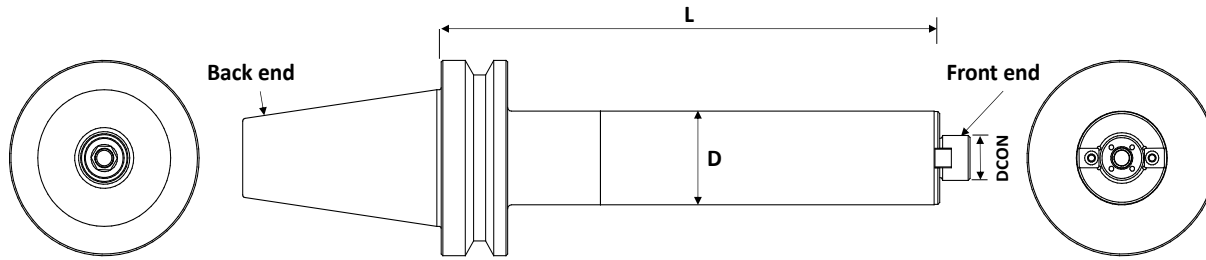
Millin Milling



Product code	Back End	D (mm)	L (mm)	Front End DCON	KG	Through Coolant
STMD HSK63A 48-213 M22	HSK63A	48	213	Arbor M22	3,5	Yes
STMD HSK63A 48-263 M22	HSK63A	48	263	Arbor M22	4	Yes
STMD HSK63A 48-313 M22	HSK63A	48	313	Arbor M22	5	Yes
STMD HSK63A 48-343 M22	HSK63A	48	343	Arbor M22	4	Yes
						Yes
						Yes
						Yes

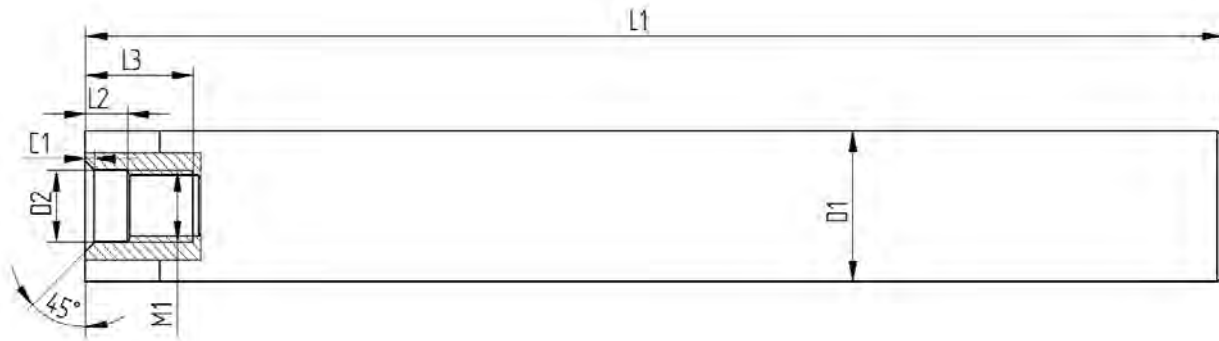


Product code	Back End	D (mm)	L (mm)	Front End DCON	KG	Through Coolant
STMD PSC50 48-213 M22	PSC50	48	213	Arbor M22	3,5	Yes
STMD PSC50 48-263 M22	PSC50	48	263	Arbor M22	4	Yes
STMD PSC50 48-313 M22	PSC50	48	313	Arbor M22	6	Yes



Product code	Back End	D (mm)	L (mm)	Front End DCON	 KG	Through Coolant
STMD BT40 48-213 M22	BT40	48	213	Arbor M22	4	Yes
STMD BT40 48-263 M22	BT40	48	263	Arbor M22	5	Yes
STMD BT40 48-313 M22	BT40	48	313	Arbor M22	6	Yes
STMD BT50 48-213 M22	BT50	48	213	Arbor M22	6	Yes
STMD BT50 48-263 M22	BT50	48	263	Arbor M22	7	Yes
STMD BT50 48-313 M22	BT50	48	313	Arbor M22	8	Yes

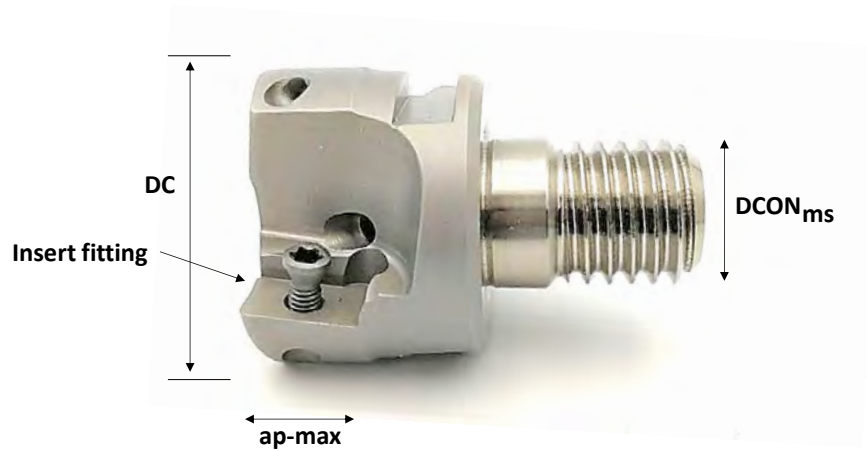
Milling tools – straight shank:



Product code	D1	L1	D2	M1	L2	L3	C1		Through Coolant
STMD M25-190 M12	25	190	12.5	M12X1.75	7	18	1.5	0.7	Yes
STMD M32-236 M16	32	236	17	M16X2	7	20	1.5	1	Yes

D

Milling



Product code	DC	DCON _{ms}	Inserts	Type of insert		Fit to	Wrench	Through Coolant
R390-26-M12-X3	26	M12	X3	R390 11T3	0.05	STMD M25-190 M12	W26	Yes
R390-33-M16-X4	33	M16	X4	R390 11T3	0.09	STMD M32-236 M16	W33	Yes