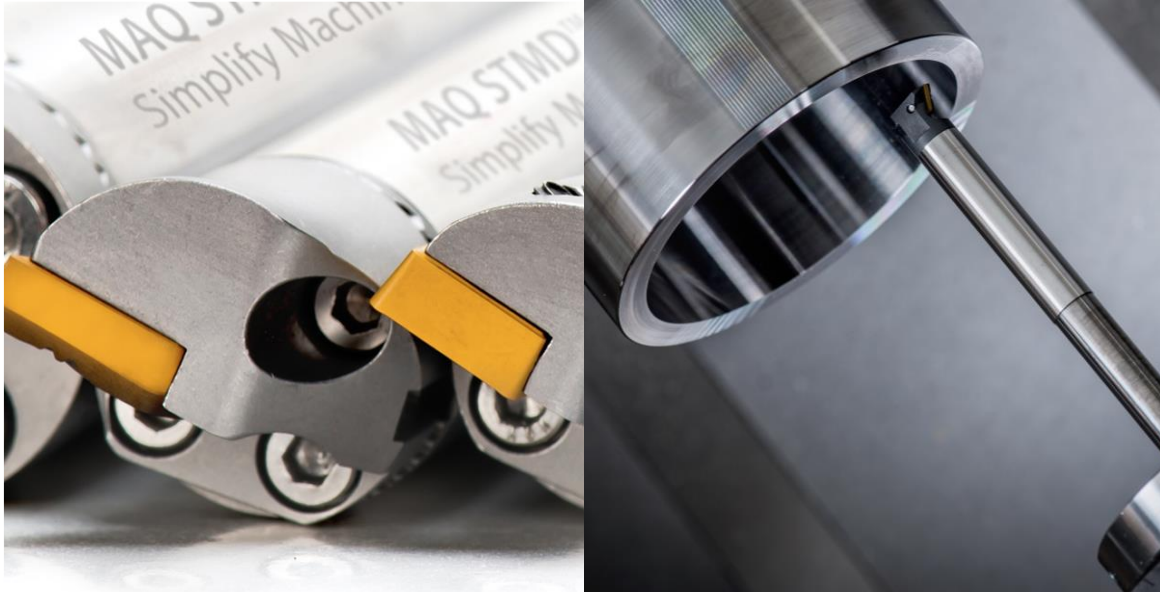


MAQ Catalog



MAQ AB
Stenhuggarvagen 1
132 38 Saltsjö-boo
Sweden

© all rights reserved, MAQ AB 2021

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 forget 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 productivity through simply machining, as you do not need any tuning, and it

It is truly 'Plug and Play'!

Qilin Fu

CTO @MAQ AB

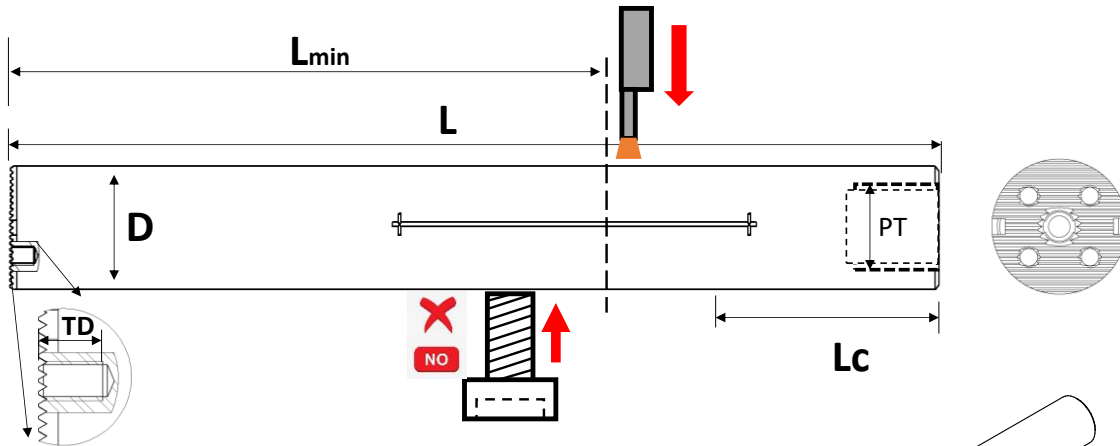
www.maqab.com

Contents

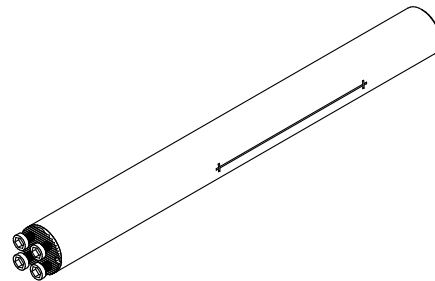
Turning tools:	4
Straight holder (without clamping feature) with SL (Serration Lock) interface:.....	4
Straight holder in mm with SL interface:	5
Straight holder in inch with SL interface:	6
Straight holder with cutter heads 10xD (Metric):.....	7
Straight holder with cutter heads 10xD (Inch):	8
Straight holder with cutter heads 3-6xD (Metric):	9
Straight holder with cutter heads 3-6xD (Inch):	10
End effecters for SL adapters SDUCR, SDUCL:	11
End effecters for SL adapters STFCR, STFCL:.....	12
End effecters for SL adapters SCLCR, SCLCL:	13
End effecters for SL adapters SVUCR, SVUCL:	14
End effecters for SL adapters PDUNR:	15
End effecters for SL adapters PTFNR:	15
End effecters for SL adapters PCLNR:	16
MAQ Certified Inserts.....	23
Positive insert	23
DCMT insert	23
TCMT insert.....	27
CCMT insert	32
Negative insert.....	36
DNMG insert	36
TNMG insert.....	43
CNMG insert	47
Modular fixtures	17
Reduction sleeves (Metric)	18
Reduction sleeves (Inch).....	18
Digital protractor (angle inclinometer).....	19
Screws and accessories	19
Insert screws.....	19
Cutter head screws	20
Coolant adapters for carbide bars.....	21
SL Blanks Left Hand Side:.....	22
SL Blanks Right Hand Side:.....	22
Milling tools:.....	23
Milling tools – with back-ends:	53
Milling tools – straight shank (on request):	55
Milling tools – cutting heads:.....	55

Turning tools:

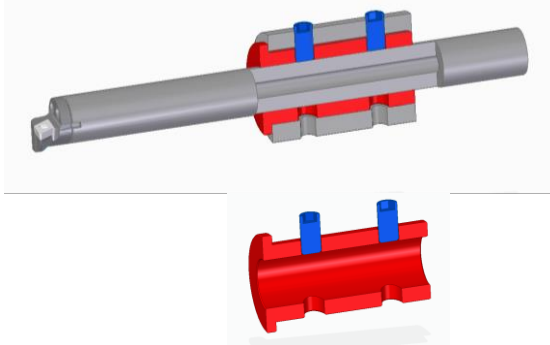
Straight holder (without clamping feature) with SL (Serration Lock) interface:



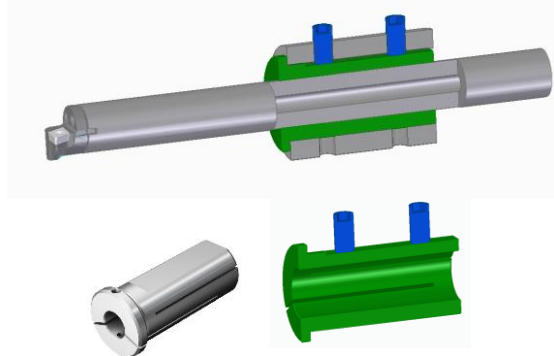
- L – total length
- L_{min} – minimum total length after cutting
- L_c – recommended clamping length
- D – diameter
- PT – pipe thread
- TD – thread depth




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)	Workable length ⁶ (mm)	Lmin (mm)	Lc (mm)	Screws	TD (mm)	PT	Adapter	Material	
STMD M12-144	12	144	72-96	144	36	M2X8 or 14	5.5	NA	SL12	Carbide ⁵	0.18
STMD M16-170	16	170	96-128	117	48	M3X8	5.5	G ¼	SL16	Steel	0.25
STMD M16-204	16	204	128-176	204	48	M3X8	5.5	G 1/8 ¹	SL16	Carbide ⁵	0.50
STMD M16-268	16	268	176-240	268	48	M3X8	5.5	G 1/8 ¹	SL16	Carbide ⁵	0.75
STMD M20-200	20	200	120-160	137	60	M3X8	5.5	G ¼	SL20	Steel	0.50
STMD M20-260	20	260	160-220	260	60	M3X8	5.5	G ¼ ²	SL20	Carbide ⁵	1.00
STMD M20-340	20	340	220-300	340	60	M3X8	5.5	G ¼ ²	SL20	Carbide ⁵	1.50
STMD M25-255	25	255	150-200	180	75	M4X9	6.5	G ¼	SL25	Steel	1.10
STMD M25-330	25	330	200-275	255	75	M4X9	6.5	G ¼	SL25	Steel	1.70
STMD M25-430	25	430	275-375	430	75	M4X9	6.5	G ¼ ³	SL25	Carbide ⁵	3.20
STMD M32-320	32	320	192-256	213	96	M5X12	10	G ½	SL32	Steel	2.10
STMD M32-416	32	416	256-352	309	96	M5X12	10	G ½	SL32	Steel	3.50
STMD M32-544	32	544	352-480	544	96	M5X12	10	G ¼ ⁴	SL32	Carbide ⁵	6.40
STMD M40-408 1C	40	408	240-320	260	120	M6X14	10	G ½	SL40	Steel	3,90
STMD M40-408 3C	40	408	240-320	260	120	M6X14	10	G ½	SL40	Steel	3,90
STMD M40-528 1C	40	528	320-440	312	120	M6X14	10	G ½	SL40	Steel	5.00
STMD M40-528 3C	40	528	320-440	312	120	M6X14	10	G ½	SL40	Steel	5.00
STMD M40-668 1C	40	668	440-600	668	120	M6x14	10	M36x1	SL40	Carbide ⁵	9.40
STMD M40-668 3C	40	668	440-600	668	120	M6x14	10	M36x1	SL40	Carbide ⁵	9.40
STMD M50-518-40	50	520	300-400	324	150	M6X14	10	G ¾	SL40	Steel	8,00
STMD M50-518-50	50	518	300-400	322	150	M8X14	12	G ¾	SL50	Steel	8,00
STMD M50-660-40	50	662	400-550	384	150	M6X14	10	G ¾	SL40	Steel	9.40
STMD M50-660-50	50	660	400-550	382	150	M8X14	12	G ¾	SL50	Steel	9.40
STMD M50-861-40	50	861	550-750	861	150	M6X14	10	M42x1	SL40	Carbide ⁵	18.6
STMD M60-628-40	60	630	360-480	424	180	M6X14	10	G ¾	SL40	Steel	13.6
STMD M60-628-60	60	628	360-480	422	180	M8X14	12	G ¾	SL60	Steel	13.6
STMD M60-808-40	60	810	480-660	484	180	M6X14	10	G ¾	SL40	Steel	16,4
STMD M60-808-60	60	808	480-660	482	180	M8X14	12	G ¾	SL60	Steel	16,4
STMD M60-1040-40	60	1040	660-900	1040	180	M6x14	10	M52x1	SL40	Carbide ⁵	34.4

Delivery time: 2-3 days, all tools delivered with three clamping screws and an Allen wrench

G ¼¹ – with a coolant adapter M12x1- G ¼

G ¼² – with a coolant adapter M16x1- G ¼


G ¼³ – with a coolant adapter M20x1- G ¼

G ¼⁴ – with a coolant adapter M24x1- G ¼

Carbide⁵ – Carbide back end joined with steel

Workable length⁶ – measured from the cutting edge to the clamping end.

Straight holder in inch with SL interface:

Standard: Inch (with exchangeable heads)											
Art. Nr	D (inch)	L (inch)	Workable length ⁶ (inch)	Lmin (inch)	Lc (inch)	Screws	PT	TD (mm)	Adapter	Material	
STMD I 1/2-5.7	0.50	5.7	3.000-4.000	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	3.750-5.000	4.6	1.88	M3X8	G ¼	5.5	SL16	Steel	0.25
STMD I 5/8-8.0	0.625	8.0	5.000-6.875	8.0	1.88	M3X8	G ⅝ ¹	5.5	SL16	Carbide ⁴	0.50
STMD I 5/8-10.6	0.625	10.6	6.875-9.375	10.6	1.88	M3X8	G ⅝ ¹	5.5	SL16	Carbide ⁴	0.75
STMD I 3/4-7.9	0.75	7.9	4.500-6.000	5.4	2.25	M3X8	G ¼	5.5	SL20	Steel	0.50
STMD I 3/4-10.3	0.75	10.2	6.000-8.250	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	8.250-11.250	13.4	2.25	M3X8	G ¼ ²	5.5	SL20	Carbide ⁴	1.50
STMD I 1-10	1.00	10.0	6.000-8.000	7.1	3.00	M4X9	G ¼	6.5	SL25	Steel	1.10
STMD I 1-13	1.00	13.0	8.000-11.000	8.1	3.00	M4X9	G ¼	6.5	SL25	Steel	1.70
STMD I 1-16.9	1.00	16.9	11.000-15.000	16.9	3.00	M4X9	G ⅜ ³	6.5	SL25	Carbide ⁴	3.20
STMD I 1 1/4-12.6	1.25	12.6	7.500-10.000	8.4	3.75	M5X12	G ½	10	SL32	Steel	2.10
STMD I 1 1/4-16.4	1.25	16.4	10.000-13.750	12.2	3.75	M5X14	G ½	10	SL32	Steel	3.50
STMD I 1 1/4-21.4	1.25	21.4	13.750-18.750	21.4	3.75	M5X14	G ¼ ⁴	10	SL32	Carbide ⁵	6.40
STMD I 1 1/2-16.0-1C	1.50	16.0	9.000-12.000	10.2	4.72	M6X14	G ½	10	SL40	Steel	3.90
STMD I 1 1/2-16.0-3C	1.50	16.0	9.000-12.000	10.2	4.72	M6X14	G ½	10	SL40	Steel	3.90
STMD I 1 1/2-20.8-1C	1.50	20.8	12.000-16.500	12.3	4.72	M6X14	G ½	10	SL40	Steel	5.00
STMD I 1 1/2-20.8-3C	1.50	20.8	12.000-16.500	12.3	4.72	M6X14	G ½	10	SL40	Steel	5.00
STMD I 2-20.4-SL40	2.00	20.4	12.000-16.000	12.7	5.90	M6X14	G ¾	10	SL40	Steel	8.00
STMD I 2-20.4-SL50	2.00	20.4	12.000-16.000	12.7	5.90	M8X14	G ¾	10	SL50	Steel	8.00
STMD I 2-26.0-SL40	2.00	26.0	16.000-22.000	15.0	5.90	M6X14	G ¾	10	SL40	Steel	9.40
STMD I 2-26.0-SL50	2.00	26.0	16.000-22.000	15.0	5.90	M8X14	G ¾	10	SL50	Steel	9.40
STMD I 2 1/2-24.7-SL40	2.50	24.7	15.000-20.000	16.7	7.10	M6X14	G ¾	12	SL40	Steel	13.60
STMD I 2 1/2-24.7-SL60	2.50	24.7	15.000-20.000	16.7	7.10	M8X14	G ¾	10	SL60	Steel	13.60
STMD I 2 1/2-31.8-SL40	2.50	31.8	20.000-27.500	19.1	7.10	M6X14	G ¾	12	SL40	Steel	16.40
STMD I 2 1/2-31.8-SL60	2.50	31.8	20.000-27.500	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 ⅝¹ – with a coolant adapter M12x1- G ⅝

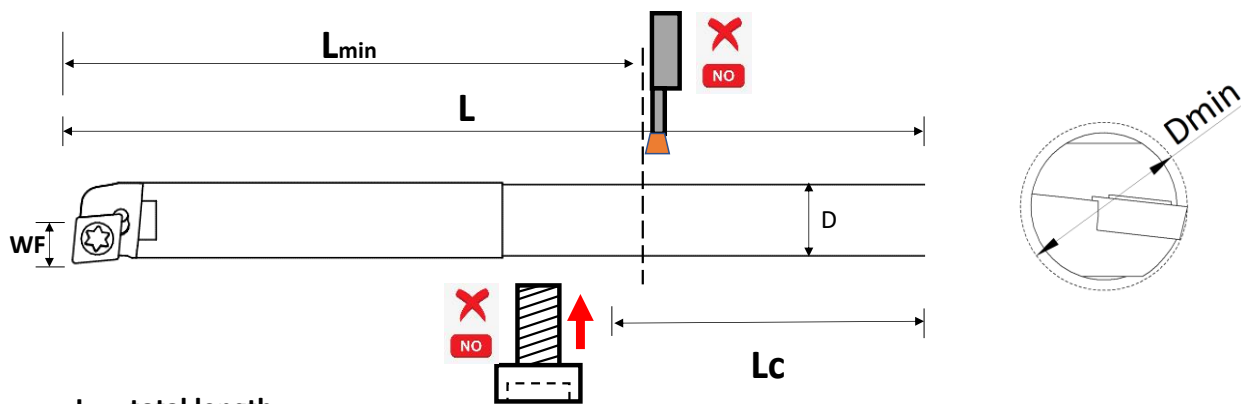
G ¼² – with a coolant adapter M16x1- G ¼

G ⅜³ – with a coolant adapter M20x1- G ⅜

Carbide⁴ – Carbide back end joined with steel

Workable length⁶ – measured from the cutting edge to the clamping end.

Straight holder with cutter heads 10xD (Metric):



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

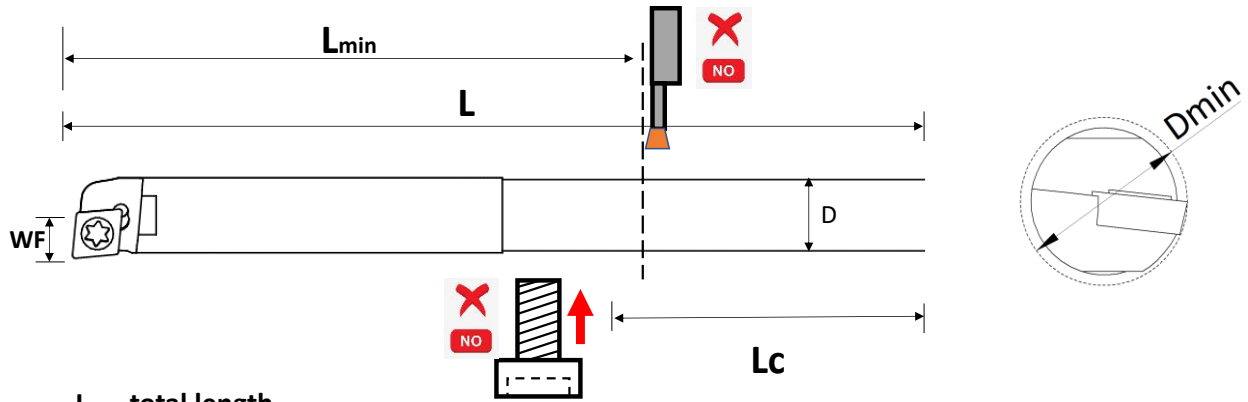
Art. Nr	D (mm)	L (mm)	Workable length ³ (mm)	L _{min} (mm)	L _c (mm)	WF (mm)	Coolant	DMIN1 (mm)	Master insert	Insert screw	Material	KG
STMD M10-150 SDUCR	10	160 ¹	70-110	160	30	9	No	15	DCMT 070204	IS M2.5x6.0	Carbide ²	0.20
STMD M10-150 SCLCR	10	160 ¹	70-110	160	30	6,1	No	12	CCMT 060204	IS M2.5x6.0	Carbide ²	0.20
STMD M10-150 STFCR	10	160 ¹	70-110	160	30	6,8	No	13	TCMT 090204	IS M2.2x5.0	Carbide ²	0.20
STMD M12-180 SDUCR	12	192 ¹	84-132	192	36	8,9	Yes	16	DCMT 070204	IS M2.5x6.0	Carbide ²	0.30
STMD M12-180 SCLCR	12	192 ¹	84-132	192	36	8,5	Yes	16	CCMT 060204	IS M2.5x6.0	Carbide ²	0.30
STMD M12-180 STFCR	12	192 ¹	84-132	192	36	9	Yes	16	TCMT 090204	IS M2.2x5.0	Carbide ²	0.30

160¹, 192¹ – total length to the cutting point

Carbide² – Carbide back end joined with steel

Workable length³ – measured from the cutting edge to the clamping end.

Straight holder with cutter heads 10xD (Inch):



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

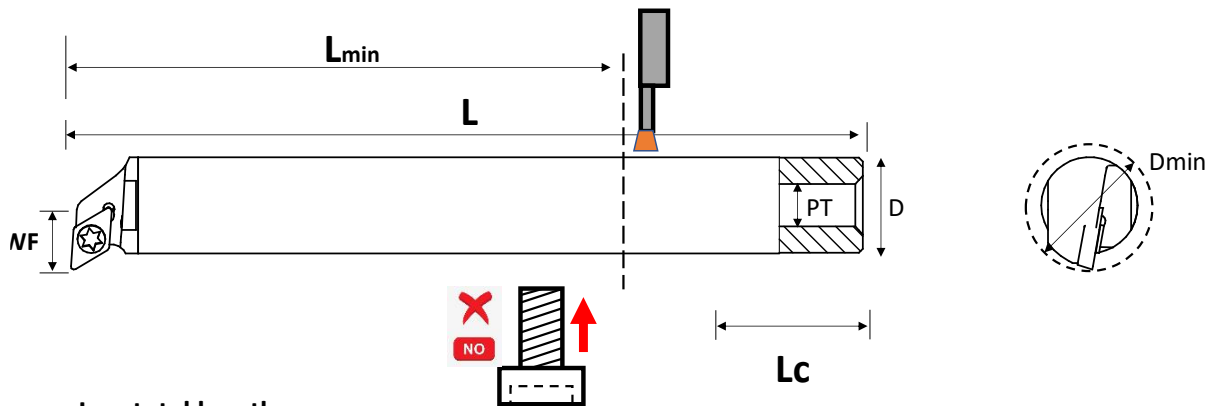
Art. Nr	D (inch)	L (inch)	Workable length ³ (inch)	L _{min} (inch)	L _c (inch)	WF (inch)	Coolant	DMIN1 (mm)	Master insert	Insert screw	Material	KG
STMD I 3/8-5.9 SDUCR	3/8	5.9 ¹	2.625-4.125	5.9 ¹	1.18	0.35	No	0.59	DCMT 070204	IS M2.5x6.0	Carbide ²	0.20
STMD I 3/8-5.9 SCLCR	3/8	5.9 ¹	2.625-4.125	5.9 ¹	1.18	0.24	No	0.47	CCMT 060204	IS M2.5x6.0	Carbide ²	0.20
STMD I 3/8-5.9 STFCR	3/8	5.9 ¹	2.625-4.125	5.9 ¹	1.18	0.27	No	0.51	TCMT 090204	IS M2.2x5.0	Carbide ²	0.20
STMD I ½ -7.1 SDUCR	½	7.1 ¹	3.500-5.500	7.1 ¹	1.42	0.35	Yes	0.63	DCMT 070204	IS M2.5x6.0	Carbide ²	0.30
STMD I ½ -7.1 SCLCR	½	7.1 ¹	3.500-5.500	7.1 ¹	1.42	0.33	Yes	0.63	CCMT 060204	IS M2.5x6.0	Carbide ²	0.30
STMD I ½ -7.1 STFCR	½	7.1 ¹	3.500-5.500	7.1 ¹	1.42	0.35	Yes	0.63	TCMT 090204	IS M2.2x5.0	Carbide ²	0.30

5.9¹, 7.1¹ – total length to the cutting point

Carbide² – Carbide back end joined with steel

Workable length³ – measured from the cutting edge to the clamping end.

Straight holder with cutter heads 3-6xD (Metric):



L – total length

L_{min} – minimum total length after cutting

L_c – recommended clamping length

D – diameter

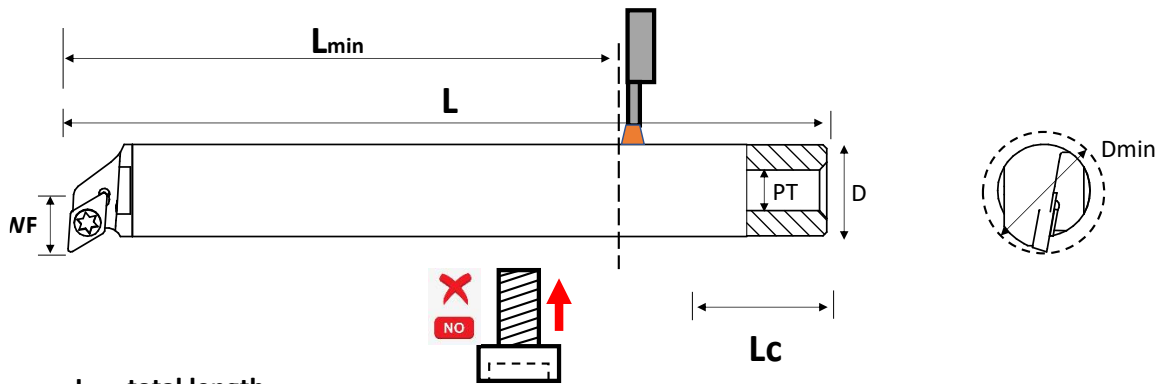
WF – distance from cutting point to centre with master insert

PT – coolant inlet

Art. Nr	D (mm)	L (mm)	Workable length ¹ (mm)	L _{min} (mm)	L _c (mm)	WF (mm)	Coolant	DMIN1 (mm)	Master insert	Insert screw	PTI	
STMD M12-108 SDUCR	12	120	36-72	72	36	9	Yes	16	DCMT 070204	IS M2.5x6.0	NA	0.1 kg
STMD M16-138 SDUCR	16	149	48-96	96	48	11	Yes	20	DCMT 070204	IS M2.5x6.0	G ¼	0.2 kg
STMD M20-160 SDUCR	20	174	60-120	120	60	13	Yes	25	DCMT 11T304	IS M3.5x10.0	G ¼	0.4 kg
STMD M25-205 SDUCR	25	205	75-150	155	75	17	Yes	32	DCMT 11T304	IS M3.5x10.0	G ¼	0.6 kg
STMD M32-256 SDUCR	32	277	96-192	192	96	22	Yes	40	DCMT 11T304	IS M3.5x10.0	G ½	1.2 kg
STMD M40-320 SDUCR	40	343	120-240	240	120	27	Yes	50	DCMT 11T304	IS M3.5x10.0	G ½	2.4 kg
STMD M12-108 SCLCR	12	120	36-72	72	36	8,5	Yes	16	CCMT 060204	IS M2.5x6.0	NA	0.1 kg
STMD M16-138 SCLCR	16	149	48-96	96	48	11	Yes	20	CCMT 060204	IS M2.5x6.0	G ¼	0.2 kg
STMD M20-160 SCLCR	20	174	60-120	120	60	13	Yes	25	CCMT 09T304	IS M3.5x10.0	G ¼	0.4 kg
STMD M25-205 SCLCR	25	205	75-150	155	75	17	Yes	32	CCMT 09T304	IS M3.5x10.0	G ¼	0.6 kg
STMD M32-256 SCLCR	32	277	96-192	192	96	22	Yes	40	CCMT 09T304	IS M3.5x10.0	G ½	1.2 kg
STMD M40-320 SCLCR	40	343	120-240	240	120	27	Yes	50	CCMT 09T304	IS M3.5x10.0	G ½	2.4 kg
STMD M12-108 STFCR	12	120	36-72	72	36	9	Yes	16	TCMT 090204	IS M2.2x5.0	NA	0.1 kg
STMD M16-138 STFCR	16	149	48-96	96	48	11	Yes	20	TCMT 090204	IS M2.2x5.0	G ¼	0.2 kg
STMD M20-160 STFCR	20	174	60-120	120	60	13	Yes	25	TCMT 110304	IS M2.5x8.0	G ¼	0.4 kg
STMD M25-205 STFCR	25	205	75-150	155	75	17	Yes	32	TCMT 110304	IS M2.5x8.0	G ¼	0.6 kg
STMD M32-256 STFCR	32	277	96-192	192	96	22	Yes	40	TCMT 16T304	IS M3.5x10.0	G ½	1.2 kg
STMD M40-320 STFCR	40	343	120-240	240	120	27	Yes	50	TCMT 16T 304	IS M3.5x10.0	G ½	2.4 kg

Workable length¹ – measured from the cutting edge to the clamping end.

Straight holder with cutter heads 3-6xD (Inch):



L – total length

L_{min} – minimum total length after cutting

L_c – recommended clamping length

D – diameter

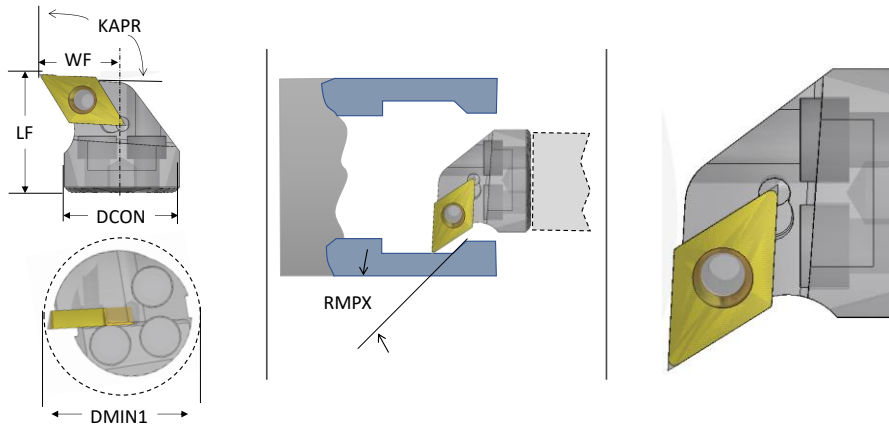
WF – distance from cutting point to centre with master insert


PT – coolant inlet

Art. Nr	D (inch)	L (inch)	Workable length ¹ (mm)	L _{min} (inch)	L _c (inch)	WF (inch)	Coolant	DMIN1 (inch)	Master insert	Insert screw	PTI	KG
STMD i ½ -4.3 SDUCR	½	4.7	1.500-3.000	2.8	1.4	0.35	Yes	0.63	DCMT 070204	IS M2.5x6.0	NA	0.1 kg
STMD i 5/8 – 5.4 SDUCR	5/8	5.9	1.875-3.750	3.8	1.9	0.43	Yes	0.78	DCMT 070204	IS M2.5x6.0	G ¼	0.2 kg
STMD i ¾ - 6.3 SDUCR	¾	6.8	2.250-4.500	4.7	2.4	0.51	Yes	0.98	DCMT 11T304	IS M3.5x10.0	G ¼	0.4 kg
STMD i 1-8.1 SDUCR	1	8.1	3.000-6.000	6.1	2.9	0.67	Yes	1.26	DCMT 11T304	IS M3.5x10.0	G ¼	0.6 kg
STMD i 1 ¼ -10.1 SDUCR	1 ¼	10.9	3.750-7.500	7.6	3.8	0.86	Yes	1.57	DCMT 11T304	IS M3.5x10.0	G ½	1.2 kg
STMD i 1 ½-12.6 SDUCR	1 ½	13.5	4.500-9.000	9.4	4.7	1.06	Yes	1.96	DCMT 11T304	IS M3.5x10.0	G ½	2.4 kg
STMD i ½ -4.3 SCLCR	½	4.7	1.500-3.000	2.8	1.4	0.33	Yes	0.63	CCMT 060204	IS M2.5x6.0	NA	0.1 kg
STMD i 5/8 – 5.4 SCLCR	5/8	5.9	1.875-3.750	3.8	1.9	0.43	Yes	0.78	CCMT 060204	IS M2.5x6.0	G ¼	0.2 kg
STMD i ¾ - 6.3 SCLCR	¾	6.8	2.250-4.500	4.7	2.4	0.51	Yes	0.98	CCMT 09T304	IS M3.5x10.0	G ¼	0.4 kg
STMD i 1-8.1 SCLCR	1	8.1	3.000-6.000	6.1	2.9	0.67	Yes	1.26	CCMT 09T304	IS M3.5x10.0	G ¼	0.6 kg
STMD i 1 ¼ -10.1 SCLCR	1 ¼	10.9	3.750-7.500	7.6	3.8	0.86	Yes	1.57	CCMT 09T304	IS M3.5x10.0	G ½	1.2 kg
STMD i 1 ½-12.6 SCLCR	1 ½	13.5	4.500-9.000	9.4	4.7	1.06	Yes	1.96	CCMT 09T304	IS M3.5x10.0	G ½	2.4 kg
STMD i ½ -4.3 STFCR	½	4.7	1.500-3.000	2.8	1.4	0.35	Yes	0.63	CCMT 060204	IS M2.2x5.0	NA	0.1 kg
STMD i 5/8 – 5.4 STFCR	5/8	5.9	1.875-3.750	3.8	1.9	0.43	Yes	0.78	TCMT 090204	IS M2.2x5.0	G ¼	0.2 kg
STMD i ¾ - 6.3 STFCR	¾	6.8	2.250-4.500	4.7	2.4	0.51	Yes	0.98	TCMT 110304	IS M2.5x8.0	G ¼	0.4 kg
STMD i 1-8.1 STFCR	1	8.1	3.000-6.000	6.1	2.9	0.67	Yes	1.26	TCMT 110304	IS M2.5x8.0	G ¼	0.6 kg
STMD i 1 ¼ -10.1 STFCR	1 ¼	10.9	3.750-7.500	7.6	3.8	0.86	Yes	1.57	TCMT 16T304	IS M3.5x10.0	G ½	1.2 kg
STMD i 1 ½-12.6 STFCR	1 ½	13.5	4.500-9.000	9.4	4.7	1.06	Yes	1.96	TCMT 16T 304	IS M3.5x10.0	G ½	2.4 kg

Workable length³ – measured from the cutting edge to the clamping end.

End effectors for SL adapters SDUCR, SDUCL:



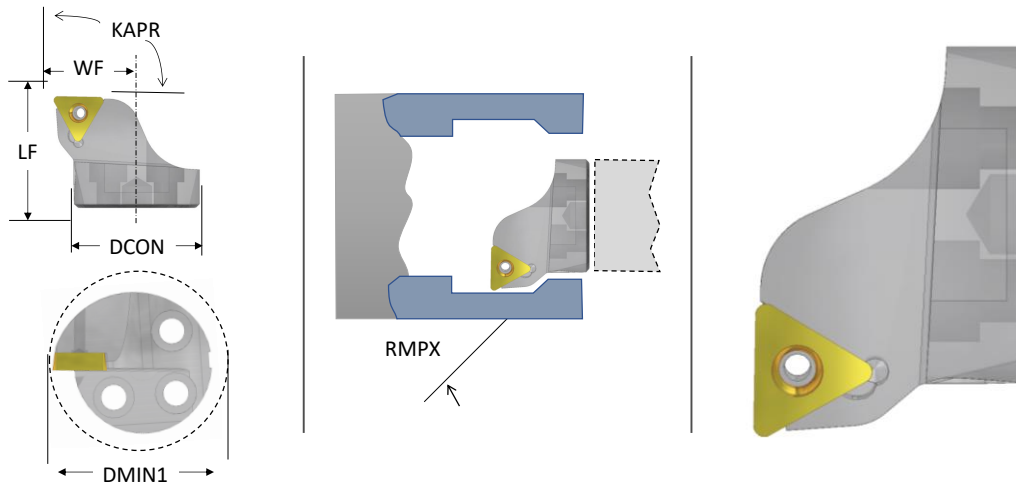
Art. Nr	DCON (mm)	DMIN1 (mm)	LF (mm)	WF (mm)	KAPR (°)	RMPX (°)	Master insert	Insert screw	
SDUCL-12	SL 12	16	14	9	93	27	DCMT 070204	IS M2.5x6.0	0.01
SDUCR-12	SL 12	16	14	9	93	27	DCMT 070204	IS M2.5x6.0	0.01
SDUCL-16-5/8	SL 16	20	16	11	93	27	DCMT 070204	IS M2.5x6.0	0.01
SDUCR-16-5/8	SL 16	20	16	11	93	27	DCMT 070204	IS M2.5x6.0	0.01
SDUCL-20-3/4	SL 20	25	20	13	93	27	DCMT 11T304	IS M3.5x10.0	0.02
SDUCR-20-3/4	SL 20	25	20	13	93	27	DCMT 11T304	IS M3.5x10.0	0.02
SDUCL-25-1	SL 25	32	22	17	93	27	DCMT 11T304	IS M3.5x10.0	0.04
SDUCR-25-1	SL 25	32	22	17	93	27	DCMT 11T304	IS M3.5x10.0	0.04
SDUCL-32-1 1/4	SL 32	40	27	22	93	27	DCMT 11T304	IS M3.5x10.0	0.07
SDUCR-32-1 1/4	SL 32	40	27	22	93	27	DCMT 11T304	IS M3.5x10.0	0.07
SDUCR-40-1 ½ P¹	SL 40	50	32	27	93	27	DCMT 11T304	IS M3.5x10.0	0,14
SDUCL-40-1 ½ CP²	SL 40	50	32	27	93	27	DCMT 11T304	IS M3.5x10.0	0,14
SDUCR-40-1 ½ CP²	SL 40	50	32	27	93	27	DCMT 11T304	IS M3.5x10.0	0,14

All cutter heads are delivered with the insert clamp screw.

¹ Peripheral coolant only, works for SL40 connection with 3C

² Central and Peripheral coolant exits, works with SL40 connection with both 1C and 3C

End effectors for SL adapters STFCL, STFCL:



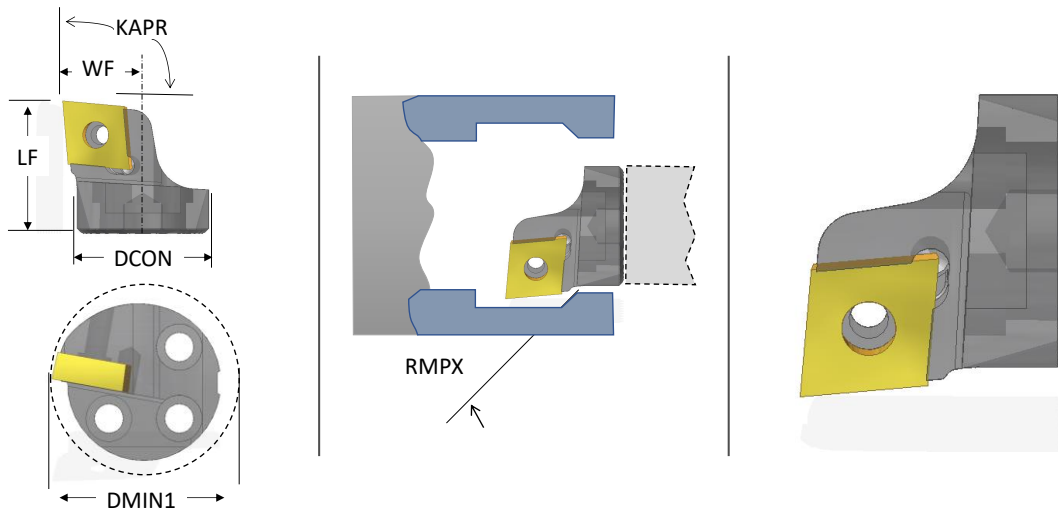
Art. Nr	DCON (mm)	DMIN1 (mm)	LF (mm)	WF (mm)	KAPR (°)	RMPX (°)	Master insert	Insert screw	KG
STFCL-12	SL 12	16	14	9	91	NA	TCMT 090204	IS M2.2x5.0	0.01
STFCR-12	SL 12	16	14	9	91	NA	TCMT 090204	IS M2.2x5.0	0.01
STFCL-16-5/8	SL 16	20	16	11	91	NA	TCMT 090204	IS M2.2x5.0	0.01
STFCR-16-5/8	SL 16	20	16	11	91	NA	TCMT 090204	IS M2.2x5.0	0.01
STFCL-20-3/4	SL 20	25	20	13	91	NA	TCMT 110304	IS M2.5x8.0	0.02
STFCR-20-3/4	SL 20	25	20	13	91	NA	TCMT 110304	IS M2.5x8.0	0.02
STFCL-25-1	SL 25	32	22	17	91	NA	TCMT 110304	IS M2.5x8.0	0.04
STFCR-25-1	SL 25	32	22	17	91	NA	TCMT 110304	IS M2.5x8.0	0.04
STFCL-32-1 1/4	SL 32	40	27	22	91	NA	TCMT 16T304	IS M3.5x10.0	0.07
STFCR-32-1 1/4	SL 32	40	27	22	91	NA	TCMT 16T304	IS M3.5x10.0	0.07
STFCR-40-1 1/2 P¹	SL 40	50	32	27	91	NA	TCMT 16T304	IS M3.5x10.0	0,14
STFCL-40-1 1/2 CP²	SL 40	50	32	27	91	NA	TCMT 16T304	IS M3.5x10.0	0,14
STFCR-40-1 1/2 CP²	SL 40	50	32	27	91	NA	TCMT 16T304	IS M3.5x10.0	0,14

All cutter heads are delivered with the insert clamp screw.

¹ Peripheral coolant only, works for SL40 connection with 3C

² Central and Peripheral coolant exits, works with SL40 connection with both 1C and 3C

End effectors for SL adapters SCLCR, SCLCL:



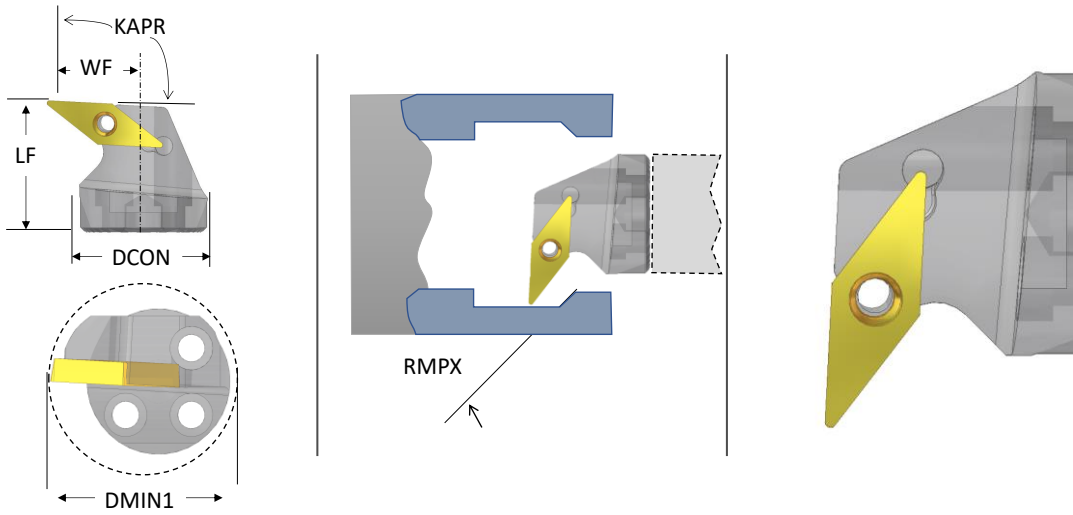
Art. Nr	DCON (mm)	DMIN1 (mm)	LF (mm)	WF (mm)	KAPR (°)	RMPX (°)	Master Insert	Insert screw	KG
SCLCL-12	SL 12	16	14.4	10	95	NA	CCMT 060204	IS M2.5x6.0	0.01
SCLCR-12	SL 12	16	14.4	10	95	NA	CCMT 060204	IS M2.5x6.0	0.01
SCLCL-16-5/8	SL 16	20	15.4	11	95	NA	CCMT 060204	IS M2.5x6.0	0.01
SCLCR-16-5/8	SL 16	20	15.4	11	95	NA	CCMT 060204	IS M2.5x6.0	0.01
SCLCL-20-3/4	SL 20	25	19.1	13	95	NA	CCMT 09T304	IS M3.5x10.0	0.02
SCLCR-20-3/4	SL 20	25	19.1	13	95	NA	CCMT 09T304	IS M3.5x10.0	0.02
SCLCL-25-1	SL 25	32	21.1	17	95	NA	CCMT 09T304	IS M3.5x10.0	0.04
SCLCR-25-1	SL 25	32	21.1	17	95	NA	CCMT 09T304	IS M3.5x10.0	0.04
SCLCL-32-1 ¼	SL 32	40	24.1	22	95	NA	CCMT 09T304	IS M3.5x10.0	0.07
SCLCR-32-1 ¼	SL 32	40	24.1	22	95	NA	CCMT 09T304	IS M3.5x10.0	0.07
SCLCR-40-1 ½ P¹	SL 40	50	25.1	27	95	NA	CCMT 09T304	IS M3.5x10.0	0.14
SCLCL-40-1 ½ CP¹	SL 40	50	25.1	27	95	NA	CCMT 120404	IS M4.0x15.0	0.14
SCLCR-40-1 ½ CP²	SL 40	50	25.1	27	95	NA	CCMT 120404	IS M4.0x15.0	0.14

All cutter heads are delivered with the insert clamp screw.

¹ Peripheral coolant only, works for SL40 connection with 3C

² Central and Peripheral coolant exits, works with SL40 connection with both 1C and 3C

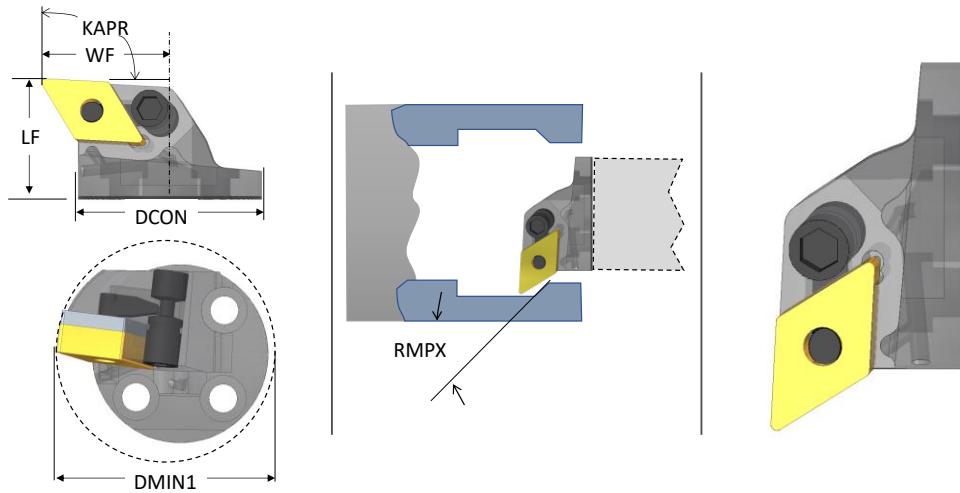
End effectors for SL adapters SVUCR, SVUCL:



Art. Nr	DCON (mm)	DMIN1 (mm)	LF (mm)	WF (mm)	KAPR (°)	RMPX (°)	Master Insert	Insert screw	KG
SVUCL-20-3/4	SL 20	27	20.5	15	93	45	VCMT 110304	IS M2.5x8.0	0.02
SVUCR-20-3/4	SL 20	27	20.5	15	93	45	VCMT 110304	IS M2.5x8.0	0.02
SVUCL-25-1	SL 25	33	20.5	18	93	45	VCMT 110304	IS M2.5x8.0	0.04
SVUCR-25-1	SL 25	33	20.5	18	93	45	VCMT 110304	IS M2.5x8.0	0.04

All cutter heads are delivered with the insert clamp screw.

End effectors for SL adapters PDUNR:

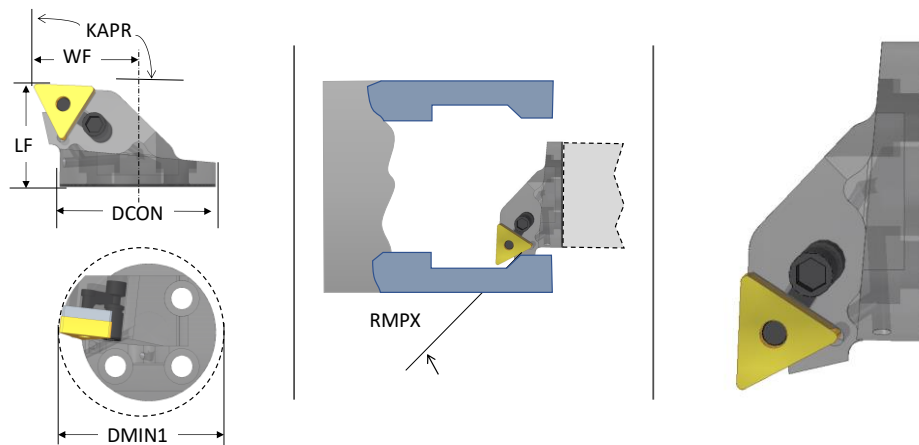


Art. Nr	DCON (mm)	DMIN1 (mm)	LF (mm)	WF (mm)	KAPR (°)	RMPX (°)	Insert	Slot screw	Level	Shim	KG
PDUNR 40-1 ½ CP¹	SL 40	50	26	27	93	27	DNMG 1506XX	M8x1x21	LV4	PS DNMG 1506	0.14

All cutter heads are delivered with the insert clamp screw.

¹ Central and Peripheral coolant exits, works with SL40 connection with both 1C and 3C

End effectors for SL adapters PTFNR:

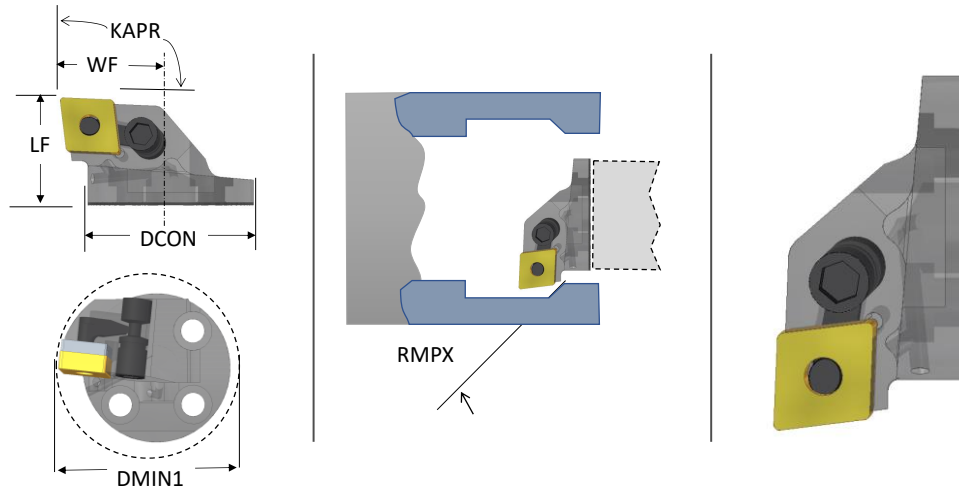


Art. Nr	DCON (mm)	DMIN1 (mm)	LF (mm)	WF (mm)	KAPR (°)	RMPX (°)	Insert	Slot screw	Level	Shim	KG
PTFNR 40-1 ½ CP¹	SL 40	50	26	27	91	NA	TNMG 1604XX	M6x1x17	LV3	PS TNMG 1604	0.14

All cutter heads are delivered with the insert clamp screw.

¹ Central and Peripheral coolant exits, works with SL40 connection with both 1C and 3C

End effectors for SL adapters PCLNR:

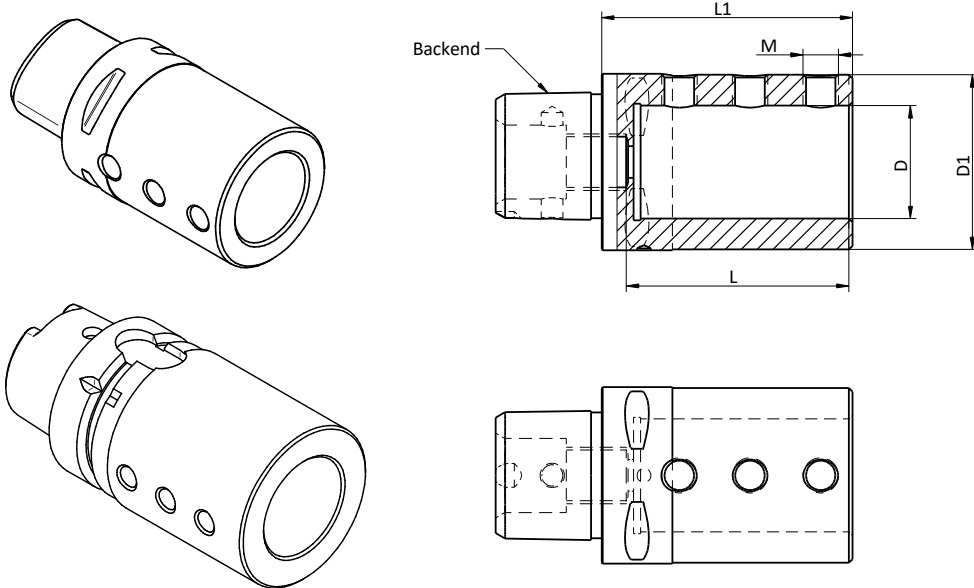


Art. Nr	DCON (mm)	DMIN1 (mm)	LF (mm)	WF (mm)	KAPR (°)	RMPX (°)	Insert	Slot screw	Level	Shim	KG
PCLNR 40-1 ½ CP¹	SL 40	50	26	27	95	NA	CNMG 1204XX	M8x1x21	LV4	PS CNMG 1204	0.14

All cutter heads are delivered with the insert clamp screw.

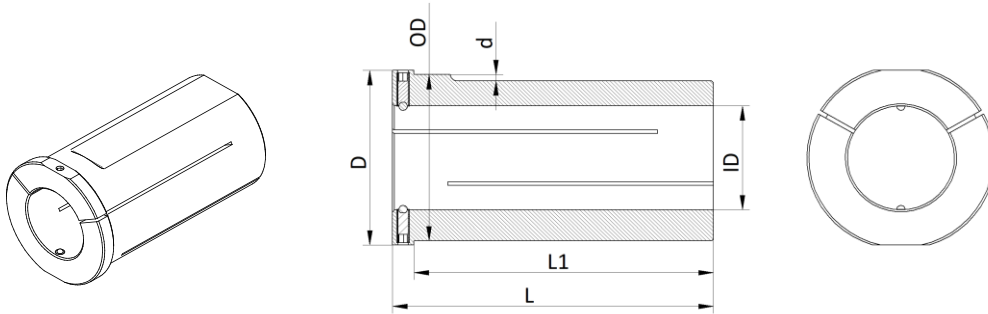
¹ Central and Peripheral coolant exits, works with SL40 connection with both 1C and 3C

Modular fixtures



Art. Nr	Backend	D (mm)	L (mm)	D1 (mm)	L1 (mm)	M thread
PSC50-SLT32x62-71	PSC50	32	62	49.5	71	M10x1.5
PSC63-SLT40x72-86	PSC63	40	72	62.5	86	M12x1.75
HSK63T-SLT32x62-90	HSK63T	32	62	50	80	M10x1.5

Reduction sleeves (Metric)



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
RS 32-25	32	25	65	37	60	1
RS 32-20	32	20	65	37	60	1
RS 32-16	32	16	65	37	60	1
RS 32-12	32	12	65	37	60	1
RS 32-10	32	10	65	37	60	1

Reduction sleeves (Inch)

Art. Nr	OD g6 (inch)	ID H7 (inch)	L (inch)	D (inch)	L1 (inch)	d (inch)
RS 1 ½ - 1 ¼ ¹	1 ½	1 ¼	2.95	1.69	2.76	0.06
RS 1 ½ - 1 ¹	1 ½	1	2.95	1.65	2.76	0.06
RS 1 ½ - ¾ ¹	1 ½	¾	2.95	1.65	2.76	0.06
RS 1 ½ - 5/8 ¹	1 ½	5/8	2.95	1.65	2.76	0.06
RS 1 ½ - ½ ¹	1 ½	½	2.95	1.65	2.76	0.06
RS 1 ½ - 3/8 ¹	1 ½	3/8	2.95	1.65	2.76	0.06
RS 1 ¼ - 1 ¹	1 ¼	1	2.56	1.46	2.36	0.04
RS 1 ¼ - ¾ ¹	1 ¼	¾	2.56	1.46	2.36	0.04
RS 1 ¼ - 5/8 ¹	1 ¼	5/8	2.56	1.46	2.36	0.04
RS 1 ¼ - ½ ¹	1 ¼	½	2.56	1.46	2.36	0.04
RS 1 ¼ - 3/8 ¹	1 ¼	3/8	2.56	1.46	2.36	0.04

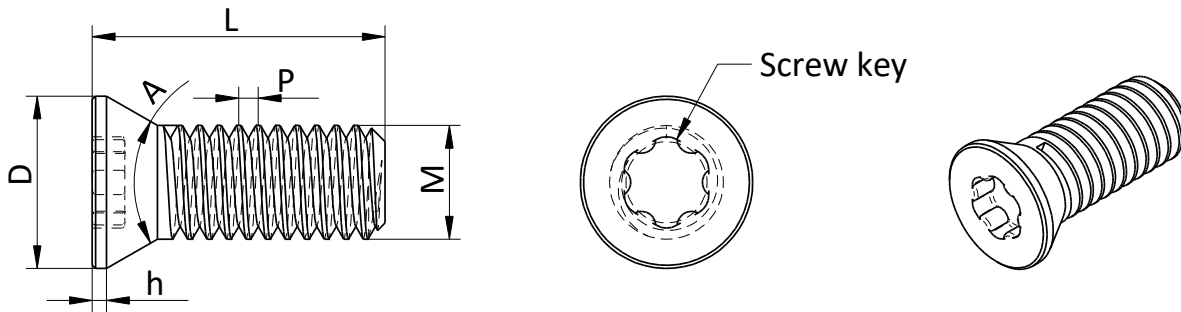
Digital protractor (angle inclinometer)



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						

Screws and accessories

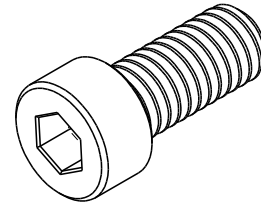
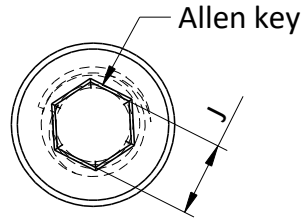
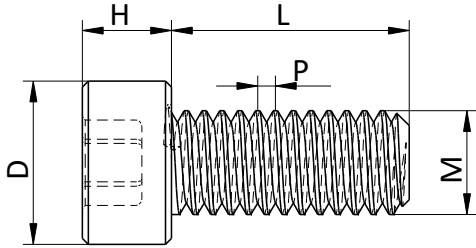
Insert screws



Art. Nr	Designation	Thread M	D (mm)	L (mm)	A (°)	P (mm)	h (mm)	Torx Key
IS M2.2x5.0	M2.2x5.0xD3.0xP0.45	M2.2	3.0	5.0	60	0.45	0.8	T7
IS M2.5x6.0	M2.5x6.0xD3.6xP0.45	M2.5	3.6	6.0	55	0.45	0.6	T8
IS M2.5x8.0	M2.5x8.0xD3.6xP0.45	M2.5	3.6	8.0	55	0.45	0.6	T8
IS M3.5x10.0	M3.5x10.0xD5.3xP0.60	M3.5	5.3	10.0	60	0.60	1.2	T15
IS M4.0x15.0	M4.0x15.0xD7.0xP0.70	M4.0	7.0	15.0	60	0.70	NA	T15

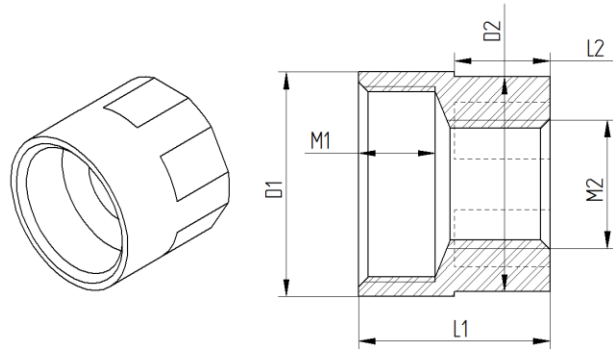
Cutter head screws

Standard: DIN 912



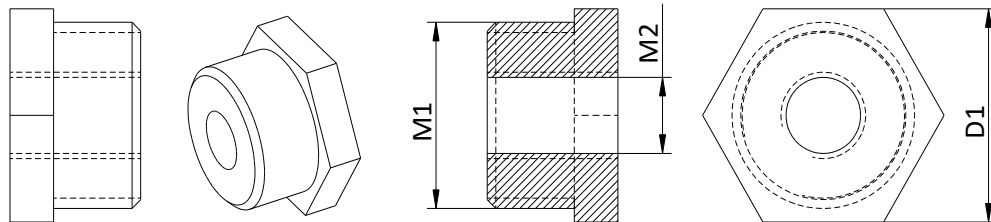
Art. Nr	Thread M	D (mm)	L (mm)	H (mm)	P (mm)	Key (mm)	Suitable for
HS M2x8	M2	3.8	8	2	0.4	Allen key A/F 1.5	SL12
HS M2x14	M2	3.8	14	2	0.4	Allen key A/F 1.5	SL12
HS M3x8	M3	5.5	8	3	0.5	Allen key A/F 2.5	SL16, SL20
HS M4x9	M4	7	9	4	0.7	Allen key A/F 3	SL25
HS M5x12	M5	8.5	12	5	0.8	Allen key A/F 4	SL32
HS M6x14	M6	10	14	6	1	Allen key A/F 5	SL40
HS M8x14	M8	13	14	8	1.25	Allen key A/F 6	SL50, SL50

Coolant adapters for carbide bars



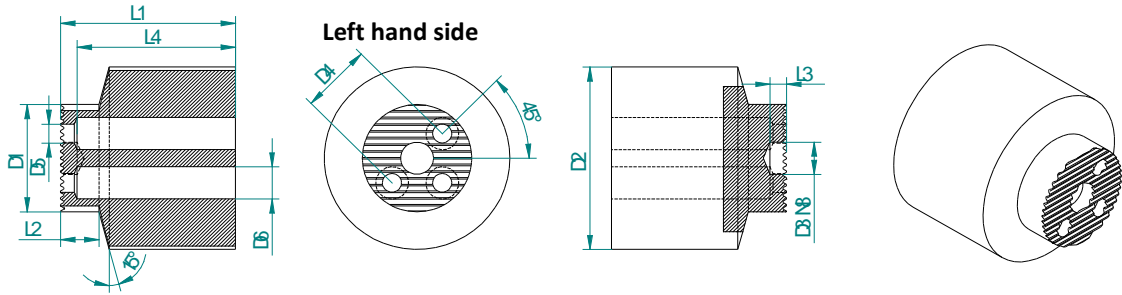
Art. Nr	M1	M2	L1	L2	D1	D2	Works for
CA M12x1 G 1/8	M12x1	G 1/8	16	8	14	13	STMD M16-204, STMD M16-268 STMD I 5/8-8.0, STMD™ I 5/8-10.6
CA M16x1 G 1/4	M16x1	G 1/4	20	10	18	16	STMD M20-260, STMD M20-340 STMD I 3/4-10.3, STMD I 3/4-13.4
CA M20x1 G 1/4	M20x1	G 1/4	20	10	23	22	STM M25-340, STMD I 1-16.9
CA M24x1 G 1/4	M24x1	G 1/4	30	15	30	28	STMD M32-544, STMD I 1 1/4 -21.4

Coolant adapters for steel bars



Art. Nr	M1	M2	D1
CA G 1/4 - G 1/8	G 1/4	G 1/8	17
CA G 1/2 - G 1/4	G 1/2	G 1/4	24
CA G 3/4 - G 1/4	G 3/4	G 1/4	30

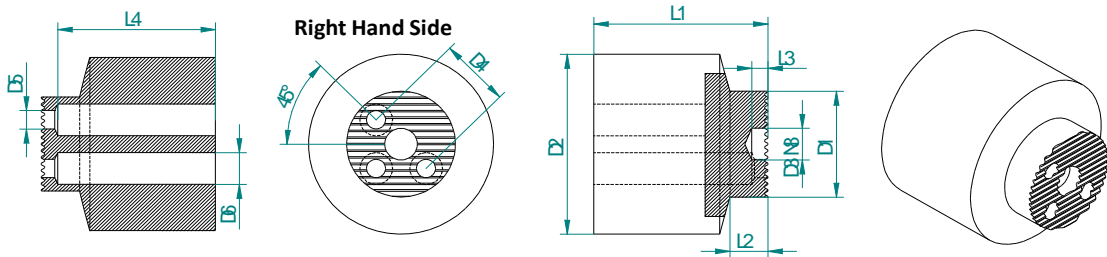
SL Blanks Left Hand Side:



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 equivalenting the dimension

SL Blanks Right Hand Side:

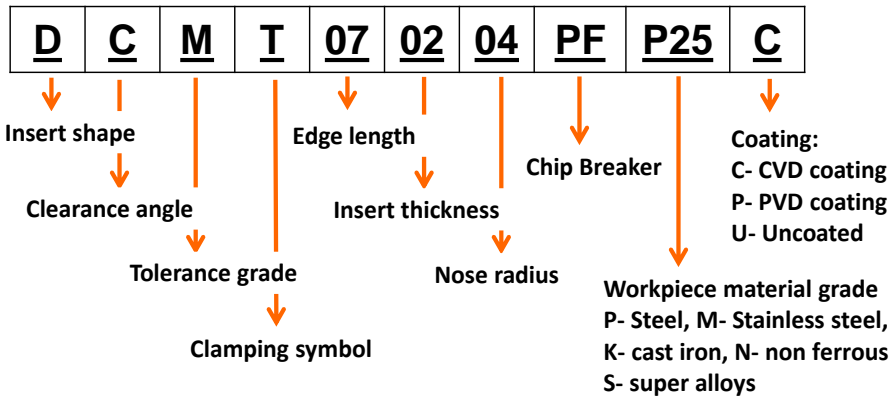


Art. Nr	D1 (mm)	D2 (mm)	D3 N8** (mm)	D4 (mm)	D5 (mm)	D6 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)
SL12-20-20 R	12	20	4	7.4	2.5	4	20	7	3	17
SL16-26-25 R	16	26	4	9.5	3.5	6	25	7	3	22
SL20-34-32 R	20	34	6	13	3.5	6	32	7	3	29
SL25-40-40 R	25	40	6	16	4.5	7.5	40	7	3	37
SL32-50-50 R	32	50	6	22	5.5	9	50	11	3	47
SL40-60-60 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 equivalenting the dimension

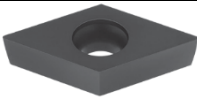



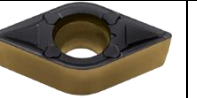

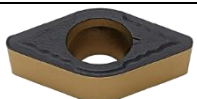

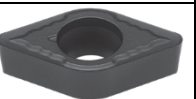



MAQ Certified Inserts

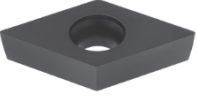
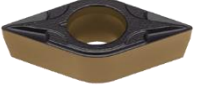
Order codes for inserts:













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		P10 P	P15 C	P20 P	P25 C	M10 P	M15 C	M20 P	M25 C	K05 C	K20 C	N10 U	S10 P	S20 P
	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			○	●									

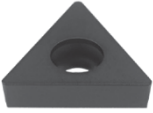
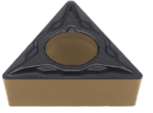
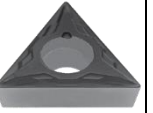

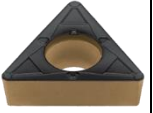
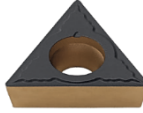
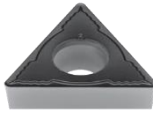
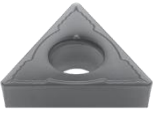
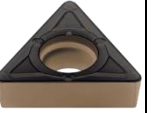
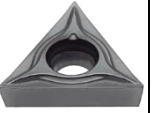

	DCMT 11T304- FP		●		●◆									
	DCMT 11T308- FP		●		○									
	DCMT 070202- FM							●						●
	DCMT 070204- FM							○	●					●
	DCMT 11T302- FM					○		●					○	●
	DCMT 11T304- FM					○		○	●				○	●
	DCMT 11T308- FM					○		○	●				○	●
	DCMT 070202- FK									●				
	DCMT 070204- FK									●				
	DCMT 11T302- FK									●				
	DCMT 11T304- FK									●				
	DCMT 070204- FW		●					●		●				●
	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	○	○		●									


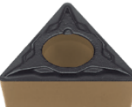
	DCMT 070204 -MM					○	●	○					○	●
	DCMT 070208 -MM						●	○						●
	DCMT 11T304- MM					○	●	○					○	●
	DCMT 11T308- MM					○	●	○					○	●
	DCMT 11T312- MM					○	●	○						●
	DCMT 070204 -MK									○	●			
	DCMT 070208 -MK									○	●			
	DCMT 11T304- MK									○	●			
	DCMT 11T308- MK									○	●			
	DCMT 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					●						●	●	

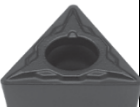
	DCGT 11T304- LN					●							○	●	
	DCGT 11T308- LN												○		
	DCGT 11T312- LN												○		

● in stock items ○ minimum quantity 50 pcs ○ minimum order quantity 100 pcs
 ◆ Master insert for MAQ STMD tool holders

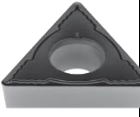
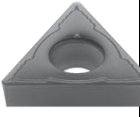

TCMT insert

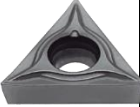

TCMW Finishing	TCMT-FP Finishing	TCMT-FM Finishing	TCMT-FK Finishing	TCMT-FW Finishing wiper	TCMT-MP Medium
					
TCMT-MM Medium	TCMT-MK Medium	TCMT-MW Medium to Finishing wiper	TCGT-FS Finishing to Fine finishing	TCGT-LN Medium to Finishing	
					

	Article	P				M				K		N	S	
		P10 P	P15 C	P20 P	P25 C	M10 P	M15 C	M20 P	M25 C	K05 C	K20 C	N10 U	S10 P	S20 P
	TCMW 11020 4									●				
	TCMW 16T30 4									●				
	TCMW 16T30 8									●				
	TCMT 06T10 2-FP				●									
	TCMT 06T10 4-FP		●		○									
	TCMT 06T10 8-FP	○	●		○									
	TCMT 09020 2-FP	○			●									
	TCMT 09020 4-FP		●	○	●◆									
	TCMT 11020 2-FP				●									
	TCMT 11020 4-FP		●		○									
	TCMT 11020 8-FP		●		○									
	TCMT 11030 2-FP	○			●									
	TCMT 11030 4-FP	○	●		●◆									
	TCMT 11030 8-FP	○	●	○	○									

	TCMT 16T30 4-FP		●		●◆										
	TCMT 06T10 2-FM							○	●					●	
	TCMT 06T10 4-FM							○	●					●	
	TCMT 06T10 8-FM							○	●					●	
	TCMT 09020 2-FM							○	●					●	
	TCMT 09020 4-FM							○	●					●	
	TCMT 11020 2-FM							○	●					●	
	TCMT 11020 4-FM							○	●					●	
	TCMT 11020 8-FM							○	●					●	
	TCMT 11030 2-FM							○	●					●	
	TCMT 11030 4-FM							○	●					●	
	TCMT 11030 8-FM							○	●					●	
	TCMT 16T30 4-FM							○	●					●	
		TCMT 06T10 2-FK									●				
		TCMT 06T10 4-FK									●				
TCMT 06T10 8-FK										●					
TCMT 09020 2-FK										●					
TCMT 09020 4-FK										●					
TCMT 11020 2-FK										●					
TCMT 11020 4-FK										●					
TCMT 11030 2-FK										●					
TCMT 11030 4-FK										●					

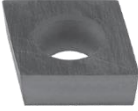












	TCMT 16T30 4-FK									●				
	TCMT 09020 4-FW		●						●	●				●
	TCMT 09020 8-FW		●						●	●				●
	TCMT 11020 4-FW		●						●	●				●
	TCMT 11020 8-FW		●						●	●				●
	TCMT 11030 4-FW		●						●	●				●
	TCMT 11030 8-FW		●						●	●				●
	TCMT 16T30 4-FW		●						●	●				●
	TCMT 16T30 8-FW		●						●	●				●
		TCMT 09020 4-MP	○	○		●								
TCMT 09020 8-MP		○	○	○	●									
TCMT 11020 4-MP			○	○	●									
TCMT 11020 8-MP		○	○		●									
TCMT 11021 2-MP		○	○	○	●									
TCMT 11030 4-MP		○	○		●									
TCMT 11030 8-MP		○	○		●									
TCMT 11031 2-MP		○	○	○	●									
TCMT 16T30 4-MP			○		●									
TCMT 16T30 8-MP			○	○	●									
TCMT 16T31 2-MP		○	○		●									
TCMT 22040 8-MP			○		●									
TCMT 09020 4-MM					○		○	●					●	

	TCMT 09020 8-MM							○	●					●
	TCMT 11020 4-MM						○		○	●			○	●
	TCMT 11020 8-MM						○		○	●				●
	TCMT 11030 4-MM						○		○	●				●
	TCMT 11030 8-MM						○		○	●				●
	TCMT 16T30 4-MM								○	●				●
	TCMT 16T30 8-MM						○		○	●			○	●
	TCMT 16T31 2-MM						○		○	●				●
	TCMT 22040 8-MM								○	●				●
		TCMT 09020 4-MK									○	●		
TCMT 09020 8-MK										○	●			
TCMT 11020 4-MK										○	●			
TCMT 11020 8-MK										○	●			
TCMT 11030 4-MK										○	●			
TCMT 11030 8-MK										○	●			
TCMT 16T30 4-MK										○	●			
TCMT 16T30 8-MK										○	●			
TCMT 16T31 2-MK										○	●			
TCMT 22040 8-MK										○	●			
	TCMT 11020 8-MW		●					●			●			●
	TCMT 11030 8-MW		●					●			●			●
	TCMT 16T30 8-MW		●					●			●			●






	TCGT 09020 2-FS	●		○		●		○					○	●
	TCGT 09020 4-FS	●		○		●		○					○	●
	TCGT 11020 1-FS	●		○		●		○					○	●
	TCGT 11020 2-FS	●		○		●		○					○	●
	TCGT 11020 4-FS	●		○		●		○					○	●
	TCGT 11030 1-FS	●		○		●		○					○	●
	TCGT 11030 2-FS	●		○		●		○					○	●
	TCGT 11030 4-FS	●		○		●		○					○	●
	TCGT 09020 2-LN											●		
	TCGT 09020 4-LN											●		
	TCGT 11020 2-LN											●		
	TCGT 11020 4-LN					●						●	●	
	TCGT 11020 8-LN											●		
	TCGT 16T30 2-LN											●		
	TCGT 16T30 4-LN					●						●	●	
	TCGT 16T30 8-LN											●		
	TCGT 16T31 2-LN											●		
	TCGT 16T31 6-LN											●		

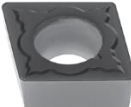


● in stock items ● minimum quantity 50 pcs ○ minimum order quantity 100 pcs
 ◆ Master insert for MAQ STMD tool holders



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	
		P10 P	P15 C	P20 P	P25 C	M10 P	M15 C	M20 P	M25 C	K05 C	K20 C	N10 U	S10 P	S20 P
	CCMW 06020 4									●				
	CCMW 09T30 4									●				
	CCMT 06020 2-FP				●									
	CCMT 06020 4-FP		●	○	●◆									
	CCMT 09T30 2-FP				●									
	CCMT 09T30 4-FP		○	○	●◆									
	CCMT 09T30 8-FP		○	○	○									
	CCMT 12040 4-FP		○		●◆									
	CCMT 06020 2-BO		○	●		○		●					○	●
	CCMT 06020 4-BO		○	●		○		●					○	●
	CCMT 06020 8-BO			●				●						●
	CCMT 09T30 4-BO		○	●		○		●					○	●
	CCMT 09T30 8-BO		○	●		○		●					○	●
	CCMT 12040 4-BO		○	●		○		●					○	●

	CCMT 12040 8-BO		○	●		○		●				○	●
	CCMT 06020 2-FM							●					●
	CCMT 06020 4-FM					○		○	●			○	●
	CCMT 09T30 2-FM							●					●
	CCMT 09T30 4-FM					○		○	●			○	●
	CCMT 09T30 8-FM					○		○	●			○	●
	CCMT 12040 4-FM					○		○	●				●
	CCMT 06020 2-FK									●			
	CCMT 06020 4-FK									●			
	CCMT 09T30 2-FK									●			
	CCMT 09T30 4-FK									●			
	CCMT 12040 4-FK									●			
	CCMT 06020 4-FW		●	○				●		●			●
	CCMT 06020 8-FW		●	○				●		●			●
	CCMT 09T30 4-FW		●	○				●		●			●
	CCMT 09T30 8-FW		●	○				●		●			●
	CCMT 06020 4-LM					●		○				○	●
	CCMT 09T30 4-LM					●		○				○	●
	CCMT 12040 4-LM					●		○				○	●
	CCMT 06020 4-MP		○	○	●								
	CCMT 06020 8-MP		○		●								
	CCMT 09T30 4-MP		○	○	●								

	CCMT 09T30 8-MP		○	○	●									
	CCMT 12040 4-MP		○		●									
	CCMT 12040 8-MP		○	○	●									
	CCMT 12041 2-MP	○	○		●									
	CCMT 06020 4-MM					○	●	○					○	●
	CCMT 06020 8-MM						●	○						●
	CCMT 09T30 4-MM					○	●	○					○	●
	CCMT 09T30 8-MM					○	●	○					○	●
	CCMT 12040 4-MM						●	○						●
	CCMT 12040 8-MM					○	●	○					○	●
	CCMT 12041 2-MM					○	●	○						●
	CCMT 06020 4-MK									○	●			
	CCMT 06020 8-MK									○	●			
	CCMT 09T30 4-MK									○	●			
	CCMT 09T30 8-MK									○	●			
	CCMT 12040 4-MK									○	●			
	CCMT 12040 8-MK									○	●			
	CCMT 06020 8-MW		●	○				●			●			●
	CCMT 09T30 4-MW		●	○				●			●			●
	CCMT 09T30 8-MW		●	○				●			●			●
	CCMT 12040 4-MW		●	○				●			●			●
	CCMT 12040 8-MW		●	○				●			●			●

	CCGT 06020 1-FS	●		○		●		○					○	●
	CCGT 06020 2-FS	●		○		●		○					○	●
	CCGT 06020 4-FS	●		○		●		○					○	●
	CCGT 09T30 1-FS	●		○		●		○					○	●
	CCGT 09T30 2-FS	●		○		●		○					○	●
	CCGT 09T30 4-FS	●		○		●		○					○	●
	CCGT 06020 2-LN					●						●	●	
	CCGT 06020 4-LN					●						●	●	
	CCGT 09T30 2-LN											●		
	CCGT 09T30 4-LN					●						●	●	
	CCGT 09T30 8-LN											●		
	CCGT 12040 2-LN											●		
	CCGT 12040 4-LN											●		
	CCGT 12040 8-LN											●		



● 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			

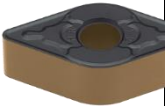
	Article	P					M					K			N	S	
		P05 C	P10 P	P15 C	P25 C	P40 C	M1 0P	M1 5C	M2 0P	M2 5C	M4 0C	K05 C	K20 C	K40 C	N10 U	S10 P	S20 P
	DNMA 1104 04											●	○				
	DNMA 1504 04											●	○				
	DNMA 1504 08											●	○				
	DNMA 1504 12											●	○				
	DNMA 1504 16											●	○				
	DNMA 1506 04											●	○				
	DNMA 1506 08											●	○				
	DNMA 1506 12											●	○				
	DNMA											●	○				

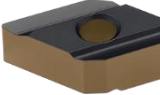
	1506 16																
	DNM G 11040 4-MF			●	○												
	DNM G 11040 8-MF	○		●	○												
	DNM G 15040 4-MF		○	●	○		●										
	DNM G 15040 8-MF		○	●	○		●										
	DNM G 15041 2-MF			●	○												
	DNM G 15060 4-MF		○	●	○		●										
	DNM G 15060 8-MF		○	●	○		●										
	DNM G 15061 2-MF			●	○												
	DNM G 11040 4-SF					○	●	○	○						○	●	
	DNM G 11040 8-SF					○	●	○	○						○	●	
	DNM G 15040 4-SF					○	●	○	○						○	●	
	DNM G 15040 8-SF					○	●	○	○						○	●	
	DNM G 15041 2-SF					○	●	○	○						○	●	
	DNM G 15060 4-SF					○	●	○	○						○	●	
	DNM G 15060 8-SF					○	●	○	○						○	●	
	DNM G 15061 2-SF					○	●	○	○						○	●	

	DNM G 15040 4-LC			●	○											
	DNM G 15040 8-LC			●	○											
	DNM G 15041 2-LC			●	○											
	DNM G 15060 4-LC	○		●	●											
	DNM G 15060 8-LC	○		●	○											
	DNM G 15061 2-LC			●	○											
	DNM G 15040 4-MS							●					●		●	
	DNM G 15040 8-MS							●					●		●	
	DNM G 15041 2-MS							●					●		●	
	DNM G 15041 6-MS							●							●	
	DNM G 15060 4-MS							●					●		●	
	DNM G 15060 8-MS							●					●		●	
	DNM G 15061 2-MS							●							●	
	DNM G 11040 4-MR			○	●											
	DNM G 11040 8-MR			○	●											
	DNM G 15040 4-MR			○	●	○										
	DNM G			○	●	○										

	15040 8-MR																
	DNM G 15041 2-MR			○	●	○											
	DNM G 15060 4-MR			○	●	○											
	DNM G 15060 8-MR			○	●	○											
	DNM G 15061 2-MR			○	●	○											
	DNM G 15061 6-MR				●												
	DNM G 15040 4-PM	○		○	●												
	DNM G 15040 8-PM	○		○	●												
	DNM G 15041 2-PM	○		○	●												
	DNM G 15041 6-PM			○	●												
	DNM G 15060 4-PM	○		○	●												
	DNM G 15060 8-PM	○		○	●												
	DNM G 15061 2-PM	○		○	●												
	DNM G 15061 6-PM			○	●												
	DNM G 11040 4-ST											○	●				
	DNM G 11040 8-ST											○	●				
	DNM G 15040 4-ST											○	●				

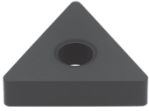
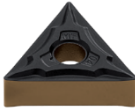



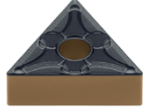


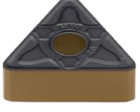
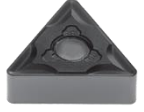
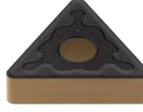

	DNM G 15040 8-ST											○	●				
	DNM G 15041 2-ST											○	●				
	DNM G 15041 6-ST											○	●				
	DNM G 15060 4-ST											○	●				
	DNM G 15060 8-ST											○	●				
	DNM G 15061 2-ST											○	●				
	DNM G 15061 6-ST											○	●				
	DNM G 15040 8-MW			●	○	○							●				
	DNM G 15041 2-MW			●	○	○							●				
	DNM G 15060 8-MW			●	○	○							●				
	DNM G 15061 2-MW			●	○	○							●				
	DNM G 11040 8-SS						○	○	●								○ ●
	DNM G 15040 4-SS						○	○	●	○							○ ●
	DNM G 15040 8-SS						○	○	●	○							○ ●
	DNM G 15041 2-SS						○	○	●	○							○ ●
	DNM G 15060 4-SS						○	○	●	○							○ ●
	DNM G						○	○	●	○							○ ●

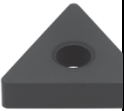
	15060 8-SS																
	DNM G 15061 2-SS							○		○	●	○				○	●
	DNM G 15061 6-SS									○	●						●
	DNM G 15040 8-HR			○	●	○							○	●	○		
	DNM G 15041 2-HR			○	●	○							○	●	○		
	DNM G 15060 8-HR			○	●	○							○	●	○		
	DNM G 15061 2-HR			○	●	○							○	●	○		
	DNM G 15061 6-HR			○	●	○							○	●	○		
	DNM M 15060 8-RP			○	●												
	DNM M 15061 2-RP			○	●												
	DNM M 15061 6-RP			○	●												
	DNMX 15060 4-L02			●	○												
	DNMX 15060 4-R02			●	○												
	DNMX 15060 8-L02			●	○												
	DNMX 15060 8-R02			●	○												
	DNMX 15060 4-L03			●	○												
	DNMX 15060 4-R03			●	○												
	DNMX 15060 8-L03			●	○												
	DNMX 15060 8-R03			●	○												


	DNMX 15040 8-L01			○	●												
	DNMX 15040 8-R01			○	●												
	DNMX 15060 4-L01			○	●												
	DNMX 15060 4-R01			○	●												
	DNMX 15060 8-L01			○	●												
	DNMX 15060 8-R01			○	●												



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



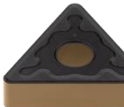

TNMG insert

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
					

Article	P					M					K			N	S	
	P05 C	P10 P	P15 C	P25 C	P40 C	M10 P	M15 C	M20 P	M25 C	M40 C	K05 C	K20 C	K40 C	N10 U	S10 P	S20 P
 TNMA 11030 4											●	○				
TNMA 11030 8											●	○				
TNMA 16030 4											●	○				
TNMA 16030 8											●	○				
TNMA 16040 4											●	○				
TNMA 16040 8											●	○				
TNMA 16041 2											●	○				
TNMA 16041 6											●	○				
TNMA 22040 4											●	○				
TNMA 22040 8											●	○				
TNMA 22041 2											●	○				
TNMA 22041 6											●	○				
TNMA 27060 8											●	○				
TNMA 27061 2											●	○				















	TNMA 27061 6											●	○				
	TNMA 33072 4											●	○				
	TNMG 16040 4-MF	○	○	●	○		●										
	TNMG 16040 8-MF	○	○	●	○		●	○									
	TNMG 16041 2-MF			●	○												
	TNMG 22040 8-MF			●													
	TNMG 16040 4-SF						○	●	○	○						○	●
	TNMG 16040 8-SF						○	●	○	○						○	●
	TNMG 16041 2-SF						○	●	○	○						○	●
	TNMG 22040 4-SF						○	●	○	○						○	●
	TNMG 22040 8-SF						○	●	○	○						○	●
	TNMG 22041 2-SF						○	●	○	○						○	●
	TNMG 16040 4-LC	○		●	●												
	TNMG 16040 8-LC			●	○												
	TNMG 16041 2-LC			●	○												
	TNMG 22040 8-LC			●	○												
	TNMG 22041 2-LC			●	○												
	TNMG 16040 4-MS							●							●		●
	TNMG 16040 8-MS							●							●		●
	TNMG 16041 2-MS							●							●		●
	TNMG 16030 8-MR			○	●												
	TNMG 16040 4-MR			○	●	○											



	TNMG 16040 8-MR			○	●	○											
	TNMG 16041 2-MR			○	●	○											
	TNMG 22040 4-MR			○	●	○											
	TNMG 22040 8-MR			○	●	○											
	TNMG 22041 2-MR			○	●	○											
	TNMG 22041 6-MR				●	○											
	TNMG 16040 4-PM	○		○	●												
	TNMG 16040 8-PM	○		○	●												
	TNMG 16041 2-PM	○		○	●												
	TNMG 16041 6-PM			○	●												
	TNMG 22040 4-PM			○	●												
	TNMG 22040 8-PM			○	●												
	TNMG 22041 2-PM			○	●												
	TNMG 22041 6-PM			○	●												
	TNMG 11030 8-ST												●				
	TNMG 16030 4-ST												●				
	TNMG 16030 8-ST												●				
	TNMG 16040 4-ST										○	●					
	TNMG 16040 8-ST										○	●					
	TNMG 16041 2-ST										○	●					
	TNMG 16041 6-ST										○	●					
	TNMG 22040 4-ST										○	●					

	TNMG 22040 8-ST											○	●				
	TNMG 22041 2-ST											○	●				
	TNMG 22041 6-ST											○	●				
	TNMG 16040 8-MW			●	○	○							●				
	TNMG 16041 2-MW			●	○	○							●				
	TNMG 16040 4-SS						○	○	○	●	○					○	●
	TNMG 16040 8-SS						○	○	○	●	○					○	●
	TNMG 16041 2-SS						○	○	○	●	○					○	●
	TNMG 22040 8-SS						○	○	○	●	○					○	●
	TNMG 22041 2-SS								○	●							●
	TNMG 16040 8-HR			○	●	○						○	●	○			
	TNMG 16041 2-HR			○	●	○						○	●	○			
	TNMG 22040 8-HR			○	●	○						○	●	○			
	TNMG 22041 2-HR			○	●	○						○	●	○			
	TNMG 22041 6-HR			○	●	○						○	●	○			
	TNMG 27061 2-HR				●	○								●			
	TNMG 27061 6-HR					○								●			
	TNMX 16040 4-L01			○	●												
	TNMX 16040 4-R01			○	●												
	TNMX 16040 8-L01			○	●												
	TNMX 16040 8-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
						



	Article	P					M					K			N	S	
		P05 C	P10 P	P15 C	P25 C	P40 C	M10 P	M15 C	M20 P	M25 C	M40 C	K05 C	K20 C	K40 C	N10 U	S10 P	S20 P
	CNMA 12040 4											●	○				
	CNMA 12040 8											●	○				
	CNMA 12041 2											●	○				
	CNMA 12041 6											●	○				
	CNMA 16060 8											●	○				
	CNMA 16061 2											●	○				
	CNMA 16061 6											●	○				
	CNMA 19061 2											●	○				
	CNMA 19061 6											●	○				
	CNMA 19062 4												●				
	CNMG 09030 4 MF			●	○												
	CNMG 09030 4 MF			●	○												

	CNM G 09T30 4 MF			●													
	CNM G 09T30 8 MF			●													
	CNM G 12040 4 MF		○	●	○		●										
	CNM G 12040 8 MF		○	●	○		●										
	CNM G 12041 2 MF			●	○												
	CNM G 12040 4 SF						○	●	○	○						○	●
	CNM G 12040 8 SF						○	●	○	○						○	●
	CNM G 12041 2 SF						○	●	○	○						○	●
	CNM G 12040 4 LC			●	●												
	CNM G 12040 8 LC		○	●	○												
	CNM G 12041 2 LC			●	○												
	CNM G 12040 4 MS								●					●			●
	CNM G 12040 8 MS								●					●			●
	CNM G 12041 2 MS								●					●			●
	CNM G								●					○			●

	12041 6 MS																
	CNM G 09030 4 MR			○	●												
	CNM G 09030 8 MR			○	●												
	CNM G 12040 4 MR			○	●	○											
	CNM G 12040 8 MR			○	●	○											
	CNM G 12041 2 MR			○	●	○											
	CNM G 12041 6 MR			○	●	○											
	CNM G 16060 8 MR			○	●	○											
	CNM G 16061 2 MR			○	●	○											
	CNM G 16061 6 MR			○	●	○											
	CNM G 19061 2 MR			○	●	○											
	CNM G 19061 6 MR			○	●	○											
		CNM G 12040 4 PM	○		○	●											
CNM G 12040 8 PM		○		○	●												
CNM G 12041 2 PM		○		○	●												

	CNM G 12041 6 PM			○	●													
	CNM G 12040 4 ST											○	●					
	CNM G 12040 8 ST											○	●					
	CNM G 12041 2 ST											○	●					
	CNM G 12041 6 ST											○	●					
	CNM G 16060 8 ST											○	●					
	CNM G 16061 2 ST											○	●					
	CNM G 16061 6 ST											○	●					
	CNM G 19061 2 ST												○	●				
	CNM G 19061 8 ST												○	●				
		CNM G 12040 8 MW			●	○	○							●				
CNM G 12041 2 MW				●	○	○							●					
	CNMG 09030 4-SS						○		○	●						○	●	
	CNMG 09030 8-SS						○		○	●						○	●	
	CNMG 12040 4-SS						○	○	○	●	○					○	●	

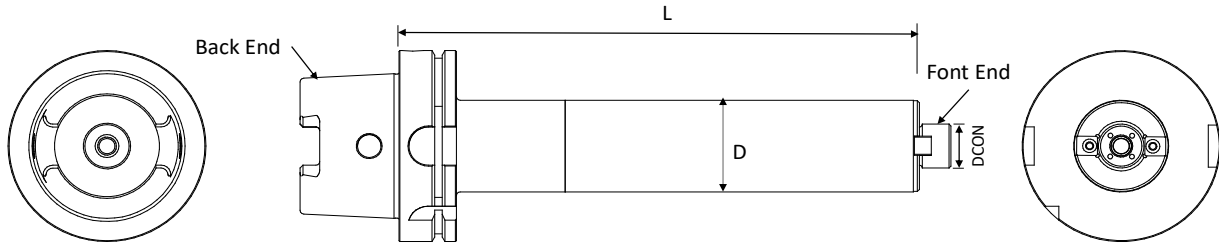
	CNMG 12040 8-SS						○	○	○	●	○					○	●
	CNMG 12041 2-SS						○	○	○	●	○					○	●
	CNMG 12041 6-SS								○	●							●
	CNMG 16060 8-SS								○	●							●
	CNMG 16061 2-SS								○	●							●
	CNMG 19061 2-SS								○	●							●
	CNMG 19061 6-SS								○	●							●
	CNMG 12040 8-HR	○		○	●	○						○	●	○			
	CNMG 12041 2-HR	○		○	●	○						○	●	○			
	CNMG 12041 6-HR			○	●	○						○	●	○			
	CNMG 16060 8-HR			○	●	○						○	●	○			
	CNMG 16061 2-HR			○	●	○						○	●	○			
	CNMG 16061 6-HR			○	●	○						○	●	○			
	CNMG 19061 2-HR			○	●	○						○	●	○			
	CNMG 19061 6-HR			○	●	○						○	●	○			
	CNMG 25092 4-HR			○	●	○						○	●	○			
	CNM M 16060 8-RP			○	●												
	CNM M 16061 2-RP			○	●												
	CNM M			○	●				●								

	16061 6-RP																
	CNM M 19061 2-RP			○	●												
	CNM M 19061 6-RP			○	●												
	CNM M 19062 4-RP			○	●												
	CNM M 19061 2-HY			○	●					●							
	CNM M 19061 6-HY			○	●					●							
	CNM M 19062 4-HY			○	●					●							
	CNM M 25092 4-HY			○	●					●							
	CNM M 19061 2-HZ			○	●	○						●	○				
	CNM M 19061 6-HZ			○	●	○						●	○				
	CNM M 19062 4-HZ			○	●	○						●	○				
	CNM M 25092 4-HZ			○	●	○						●	○				

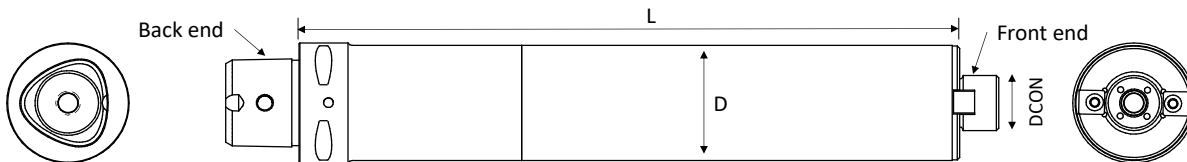
● in stock items ● minimum quantity 50 pcs ○ minimum order quantity 100 pcs

Milling tools:

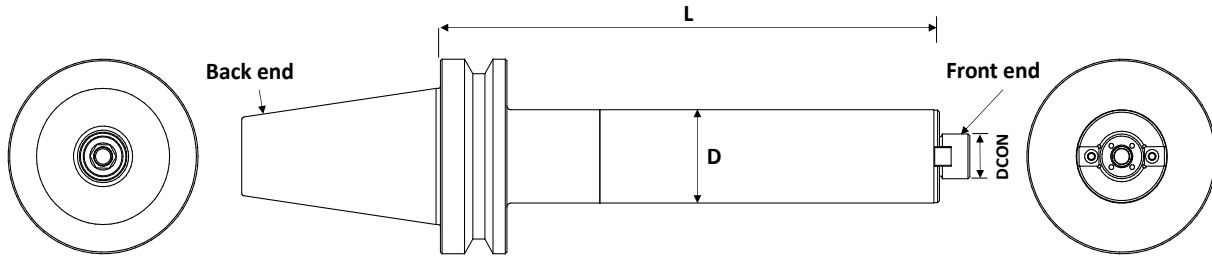
Milling tools – with back-ends:



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 HSK100A 48-213 M22	HSK100A	48	213	Arbor M22	4	Yes
STMD HSK100A 48-263 M22	HSK100A	48	263	Arbor M22	5	Yes
STMD HSK100A 48-313 M22	HSK100A	48	313	Arbor M22	6	Yes

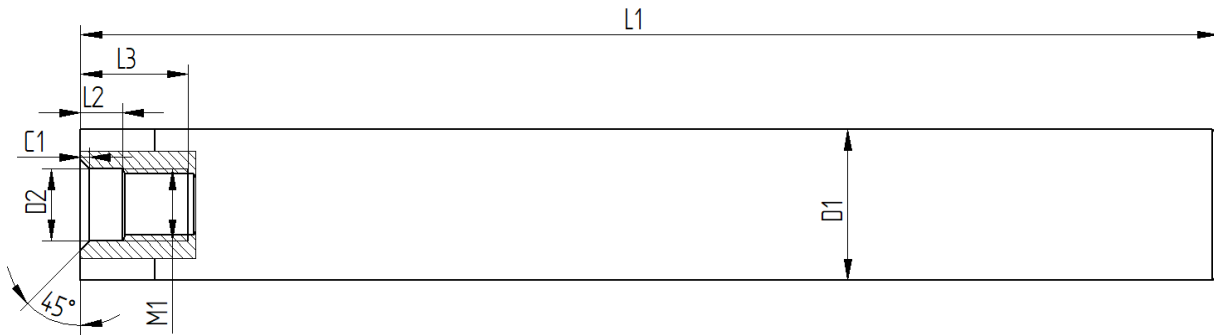


Product code	Back End	D (mm)	L (mm)	Front End DCON	KG	Through Coolant
STMD PSC50 48-213 M22	PSC50	48	213	Arbor M22	3, 5	Yes
STMD PSC50 48-263 M22	PSC50	48	263	Arbor M22	4	Yes
STMD PSC50 48-313 M22	PSC50	48	313	Arbor M22	6	Yes



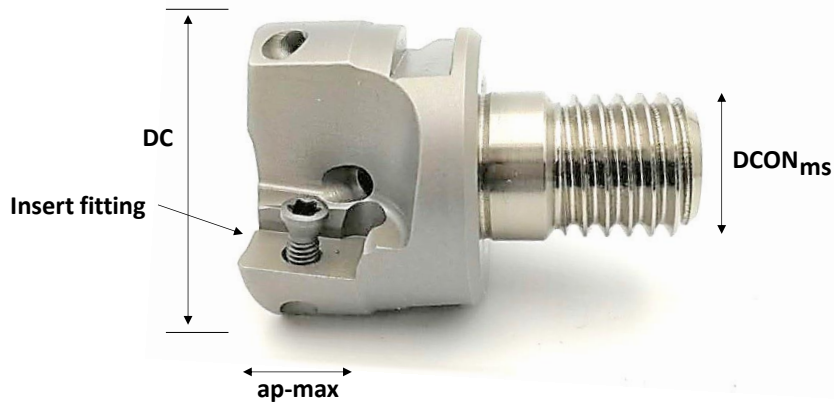
Product code	Back End	D (mm)	L (mm)	Front End DCON	 KG	Through Coolant
STMD BT40 48-213 M22	BT40	48	213	Arbor M22	4	Yes
STMD BT40 48-263 M22	BT40	48	263	Arbor M22	5	Yes
STMD BT40 48-313 M22	BT40	48	313	Arbor M22	6	Yes
STMD BT50 48-213 M22	BT50	48	213	Arbor M22	6	Yes
STMD BT50 48-263 M22	BT50	48	263	Arbor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

Milling tools – straight shank (on request):



Product code	D1	L1	D2	M1	L 2	L 3	C 1	KG	Through Coolant
STMD M25-190 M12	25	19 0	12 .5	M12X1.75	7	1 8	1. 5	0. 7	Yes
STMD M32-236 M16	32	23 6	17	M16X2	7	2 0	1. 5	1	Yes
Dimension in mm.									

Milling tools – cutting heads:



Product code	DC	DCON _{ms}	Inserts	Insert type	KG	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