

apm-trade

UTENSILI ANTIVIBRANTI RULLATURA CON DIAMANTE

MAQ 

Simplify Machining™

Tecnologia per eliminare le vibrazioni nelle lavorazioni meccaniche.

Utensili brevettati:

- Autoregistranti
- Plug & Play
- Senza manutenzione



SISTEMA PLUG AND PLAY VIBRATION FREE

Durante le lavorazioni meccaniche, sia con sporgenze elevate (11-15xD), che ridotte (3-6xD) si generano delle vibrazioni con:

- danneggiamento di pezzi e superfici
- scheggiatura e rottura degli inserti da taglio
- aumento dei costi di produzione.

Il sistema **MAQ** NEUTRALIZZA LE VIBRAZIONI degli utensili.

La frequenza delle vibrazioni varia per il consumo degli inserti, per i diversi tipi di materiale lavorato ed i parametri macchina utilizzati.

Privo di regolazioni, Il sistema **MAQ** SI ADATTA AUTOMATICAMENTE a tutte le condizioni di lavoro garantendo:

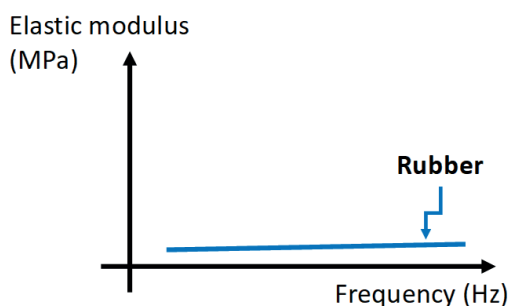
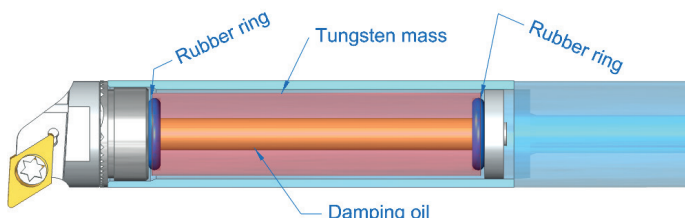
- riduzione dei tempi di lavoro
- miglioramento della qualità delle superfici
- diminuzione delle tolleranze
- elevata ripetibilità dei processi.



BARRE ANTIVIBRANTI

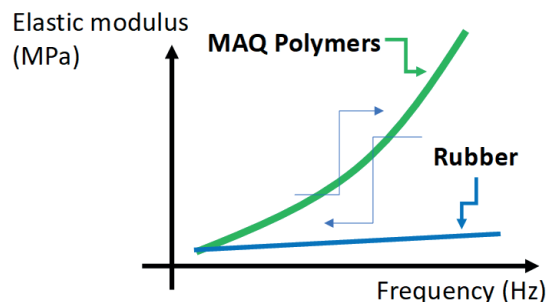
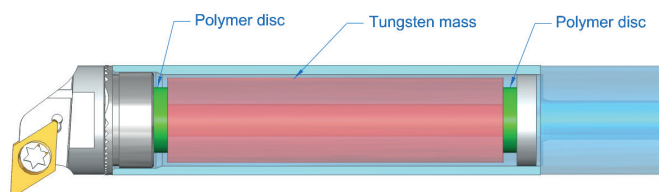
4a GENERAZIONE

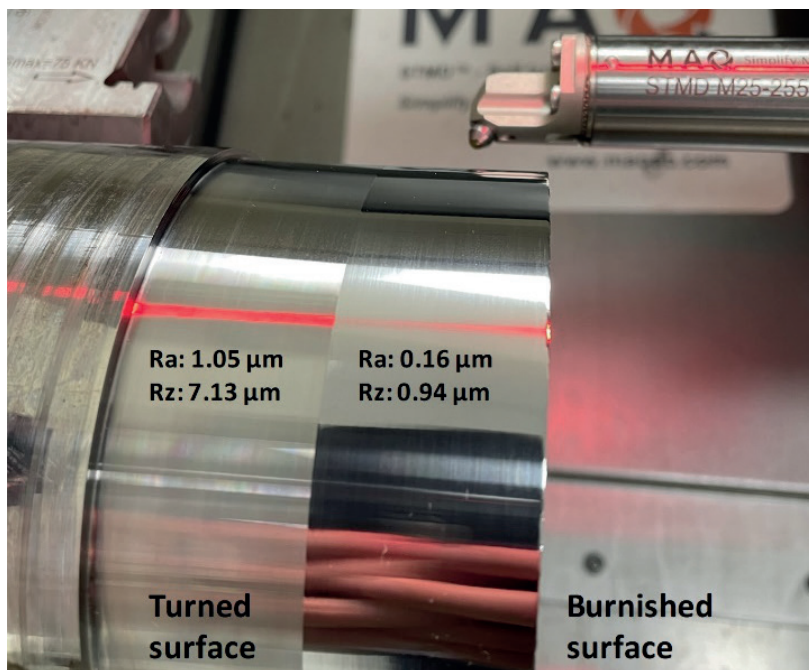
Anelli di gomma con olio smorzante



5a GENERAZIONE MAQ

Polimeri con rigidità dipendente dalla frequenza





RULLATURA/BRUNITURA DELLE SUPERFICI CON BARRE ANTIVIBRANTI MAQ

Le proprietà antivibranti delle barre MAQ insieme agli speciali utensili rullatori in diamante permettono di raggiungere rugosità bassissime (fino a $Ra < 1.6 \mu m$) e sbalzi che possono arrivare fino a 15XD.

Le testine da rullatura/brunitura MAQ si utilizzano su acciai al carbonio, acciai da utensili, ghisa, materiali ferrosi e non.

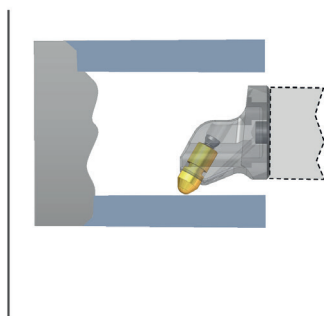
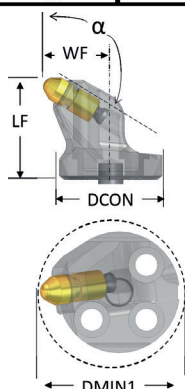
L'inserto in diamante è facilmente sostituibile.

PARAMETRI DI TAGLIO CONSIGLIATI

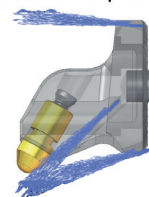
- interferenza con il pezzo 0,10 mm (0,05mm a 0,2mm); incrementare se non si sono raggiunte le finiture richieste
- velocità di taglio 60-230m/min
- avanzamento da 0,08 a 0,15mm/giro (almeno il 70% delle lavorazioni precedenti)

Normalmente la rullatura non modifica il diametro in modo significativo (-10µm a -15 µm).

Part Number	Type	D CON (mm)	D MIN1 (mm)	LF (mm)	WF (mm)	α (°)	Burnishing Nib	Nib screw	KG
300631	SL20 DB CP	SL 20	24	21	12	30	R 061402	IS M3x7	0.02
300632	SL25 DB CP	SL 25	30	25	16	30	R 061402	IS M3x7	0.04
300633	SL32 DB CP	SL 32	38	33	20	30	R 061402	IS M3x7	0.07
300634	SL40 DB CP	SL 40	43	34	24	30	R 061402	IS M3x7	0.14

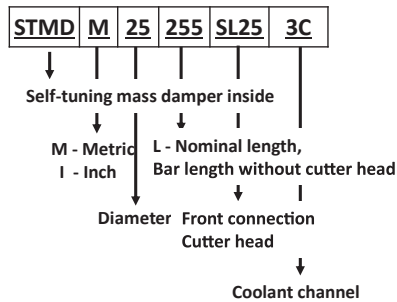
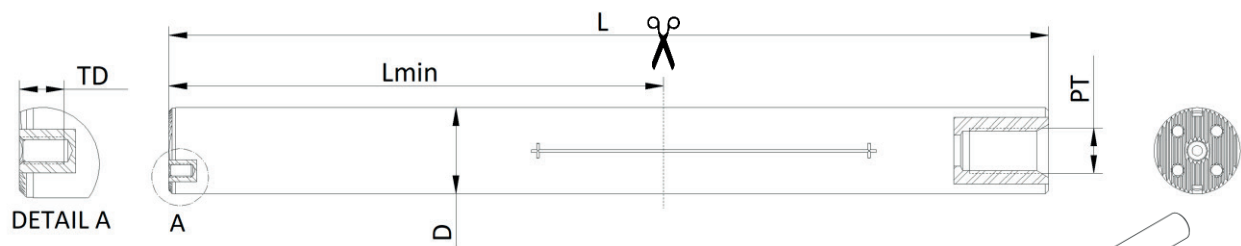


CP – Central and Peripheral coolant

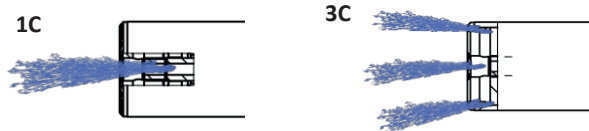


Turning 6-9xD

Straight holder (6-9xD) with SL (Serration Lock) interface (Metric)



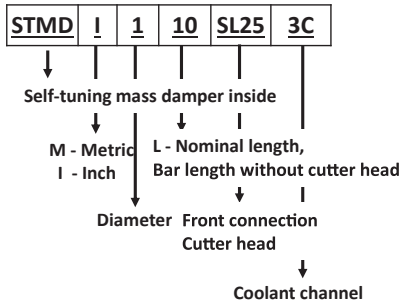
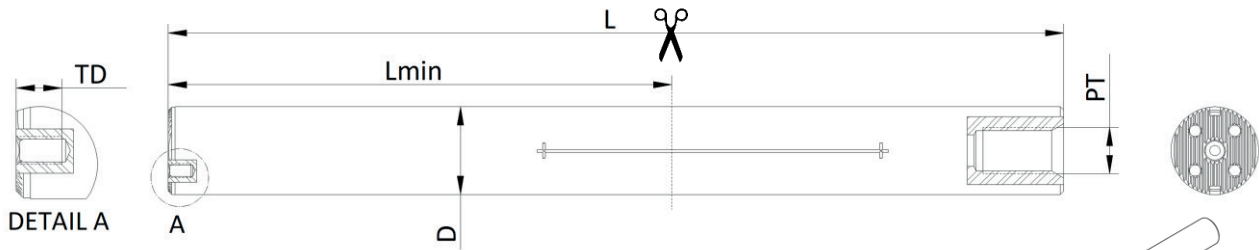
L – nominal length
 L_{min} – minimum total length after cutting
 L_c – recommended clamping length, 3 times diameter
 D – diameter
 PT – pipe thread
 TD – thread depth



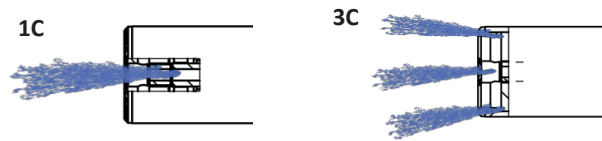
Standard: Metric (with SL interface and exchangeable heads)											
Part number	Type	Workable length ^b (mm)	D min (mm) ^g	Lmin (mm)	Lc (mm)	Screws	TD (mm)	PT	Material		
300001	STMD M12-144 SL12 3C	72-96	16	144	36	M2X8 or 14	5.5	G ½	S+C ^d	0.18	
300004	STMD M16-170 SL16 3C	96-128	20	117	48	M3X8	5.5	G ¾	Steel	0.25	
300005	STMD M20-200 SL20 3C	120-160	25	137	60	M3X8	5.5	G ¾	Steel	0.50	
300006	STMD M25-255 SL25 3C	150-200	32	180	75	M4X9	6.5	G ¾	Steel	1.10	
300008	STMD M32-320 SL32 3C	192-256	40	213	96	M5X12	10	G ½	Steel	2.10	
300010	STMD M40-408 SL40 1C ^e	240-320	50	260	120	M6X14	10	G ½	Steel	3.9	
300240	STMD M40-408 SL40 3C	240-320	50	260	120	M6X14	10	G ½	Steel	3.9	
300012	STMD M50-518-SL40 1C	300-400	60	324	150	M6X14	10	G ¾	Steel	8.0	
300013	STMD M50-518-SL50 1C ^e	300-400	NA	322	150	M8X14	12	G ¾	Steel	8.0	
300015	STMD M60-628-SL40 1C	360-480	70	424	180	M6X14	10	G ¾	Steel	13.6	
300016	STMD M60-628-SL60 1C ^e	360-480	NA	422	180	M8X14	12	G ¾	Steel	13.6	
300585	STMD M80-880-SL40 1C ^e	480-640	90	546	240	M6X14	10	G 1 ¼	Steel	33.0	

b – measured from the cutting edge to the clamping.
 d – Carbide back end joined with steel
 e – only on order and with a longer lead-time,
 g - estimated with using standard SDUCR cutter heads from MAQ.

Straight holder (6-9xD) with SL (Serration Lock) interface (Inch)



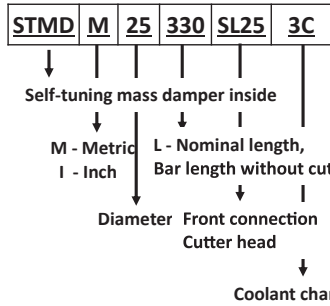
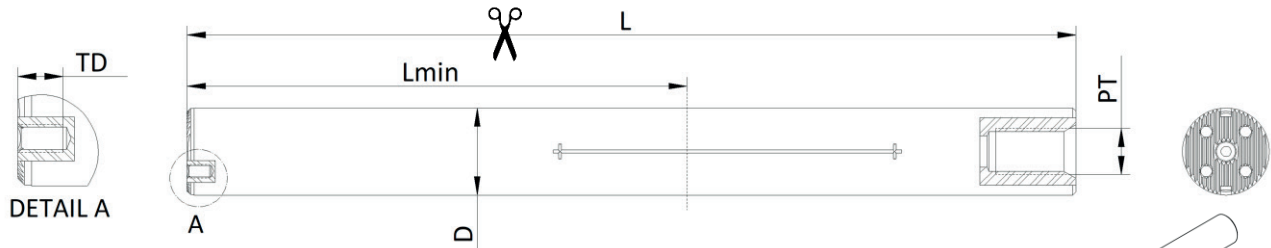
L – nominal length
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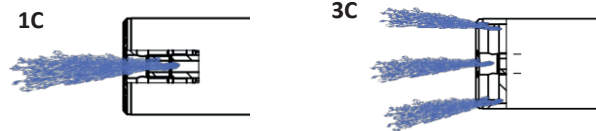
Standard: Inch (with SL interface and exchangeable heads)										
Part number	Type	Workable length ^b (inch)	D min (inch) ^g	Lmin (inch)	Lc (inch)	Screws	TD (mm)	PT	Material	KG
300040	STMD I 1/2-5.7 SL12 3C	3.000–4.000	0.630	5.7	1.41	M2X8 or 14	5.5	G 3/8	S+C ^d	0.18
300041	STMD I 5/8-6.7 SL16 3C	3.750–5.000	0.787	4.6	1.88	M3X8	5.5	G 3/8	Steel	0.25
300042	STMD I 3/4-7.9 SL20 3C	4.500–6.000	0.984	5.4	2.25	M3X8	5.5	G 3/8	Steel	0.50
300043	STMD I 1-10 SL25 3C	6.000–8.000	1.260	7.1	3.00	M4X9	6.5	G 3/8	Steel	1.10
300044	STMD I 1 1/4-12.6 SL32 3C	7.500–10.000	1.575	8.4	3.75	M5X12	10	G 1/2	Steel	2.10
300255	STMD I 1 1/2-16.0 SL40 1C ^e	9.000–12.000	1.969	10.2	4.72	M6X14	10	G 1/2	Steel	3.90
300045	STMD I 1 1/2-16.0-SL40 3C	9.000–12.000	1.969	10.2	4.72	M6X14	10	G 1/2	Steel	3.90
300046	STMD I 2-20.4-SL40 1C	12.000–16.000	2.362	12.7	5.90	M6X14	10	G 3/4	Steel	8.00
300047	STMD I 2-20.4-SL50 1C ^e	12.000–16.000	NA	12.7	5.90	M8X14	10	G 3/4	Steel	8.00
300048	STMD I 2 1/2-24.7-SL40 1C	15.000–20.000	2.756	16.7	7.10	M6X14	12	G 3/4	Steel	13.60
300049	STMD I 2 1/2-24.7-SL60 1C ^e	15.000–20.000	NA	16.7	7.10	M8X14	10	G 3/4	Steel	13.60
300586	STMD I 3-34.6-SL40 1C ^e	18.900–25.200	3.543	21.5	9.40	M6X14	12	G 1 1/4	Steel	30.0

b – measured from the cutting edge to the clamping.
d – Carbide back end joined with steel
e – only on order and with a longer lead-time,
g - estimated with using standard SDUCR cutter heads from MAQ.

Straight holder (8-12xD) with SL (Serration Lock) interface (Metric)



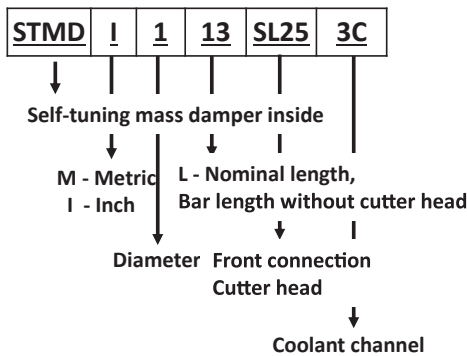
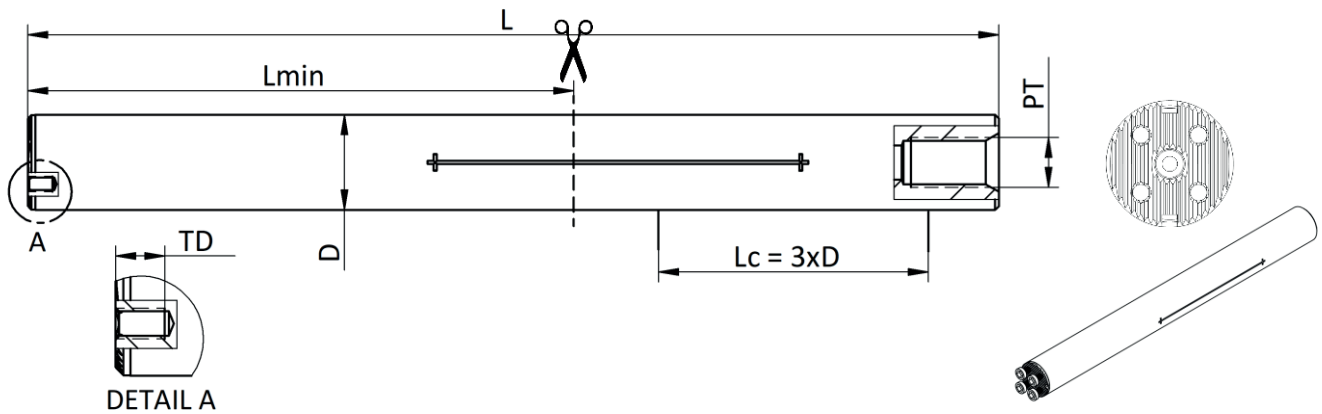
L – nominal length
 L_{min} – minimum total length after cutting
 L_c – recommended clamping length, 3 times diameter
 D – diameter
 PT – pipe thread
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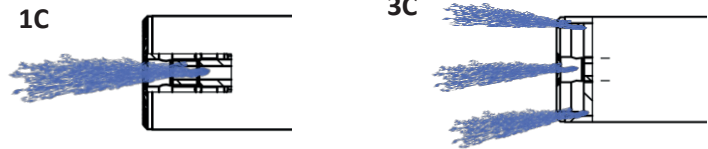
Standard: Metric (with SL interface and exchangeable heads)										
Part number	Type	Workable length ^b (mm)	D min (mm) ^g	Lmin (mm)	Lc (mm)	Screws	TD (mm)	PT	Material	KG
300017	STMD M16-204 SL16 3C	128-176	20	204	48	M3X8	5.5	G ½	S+C ^d	0.50
300018	STMD M20-260 SL20 3C	160-220	25	260	60	M3X8	5.5	G ¼	S+C ^d	1.00
300019	STMD M25-330 SL25 3C	200-275	32	255	75	M4X9	6.5	G ¼	Steel	1.70
300020	STMD M32-416 SL32 3C	256-352	40	309	96	M5X12	10	G ½	Steel	3.50
300241	STMD M40-528 SL40 1C ^e	320-440	50	312	120	M6X14	10	G ½	Steel	5.00
300021	STMD M40-528 SL40 3C	320-440	50	312	120	M6X14	10	G ½	Steel	5.00
300022	STMD M50-660-SL40 1C	400-550	60	384	150	M6X14	10	G ¾	Steel	9.40
300023	STMD M50-660-SL50 1C ^e	400-550	NA	382	150	M8X14	12	G ¾	Steel	9.40
300024	STMD M60-808-SL40 1C	480-660	70	484	180	M6X14	10	G ¾	Steel	16.4
300025	STMD M60-808-SL60 1C ^e	480-660	NA	482	180	M8X14	12	G ¾	Steel	16.4
300242	STMD M80-1200-SL40 1C ^e	640-880	90	645	240	M6X14	10	G 1 ¼	Steel	42.0

b – measured from the cutting edge to the clamping.
 d – Carbide back end joined with steel
 e – only on order and with a longer lead time
 g- estimated with using standard SDUCR cutter heads from MAQ.

Straight holder (8-12xD) with SL (Serration Lock) interface (Inch)



L – nominal length
L_{min} – minimum total length after cutting
L_c – recommended clamping length, 3 times diameter
D – diameter
PT – pipe thread
TD – thread depth

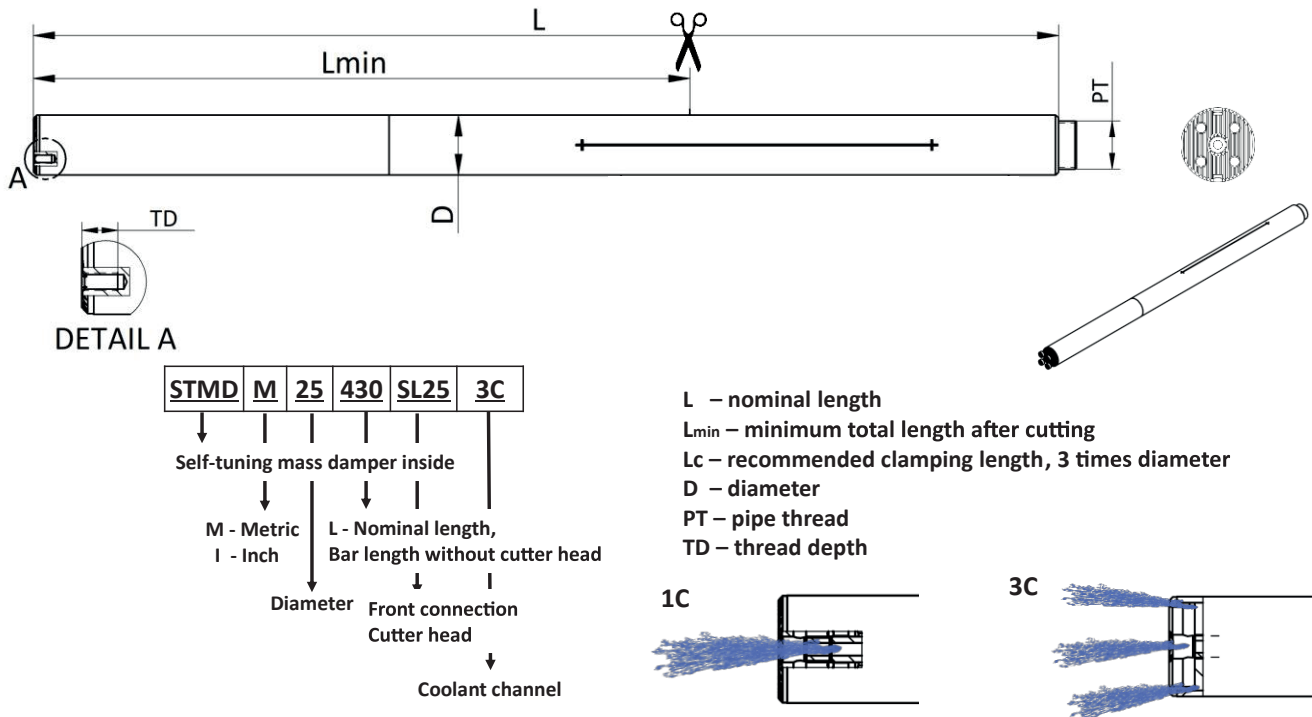


Standard: Inch (with exchangeable heads)										
Part number	Type	Workable length ^b (inch)	D _{min} (inch) ^g	L _{min} ^a (inch)	L _c (inch)	Screws	TD (mm)	PT	Material	KG
300050	STMD I 5/8-8.0 SL16 3C	5.000-6.875	0.787	8.0	1.88	M3X8	5.5	G 3/8	S+C ^d	0.50
300051	STMD I 3/4-10.3 SL20 3C	6.000-8.250	0.984	10.2	2.25	M3X8	5.5	G 1/2	S+C ^d	1.00
300052	STMD I 1-13 SL25 3C	8.000-11.000	1.260	8.1	3.00	M4X9	6.5	G 3/4	Steel	1.70
300053	STMD I 1 1/4-16.4 SL32 3C	10.000-13.750	1.575	12.2	3.75	M5X14	10	G 1/2	Steel	3.50
300256	STMD I 1 1/2-20.8 SL40 1C ^e	12.000-16.500	1.969	12.3	4.72	M6X14	10	G 3/2	Steel	5.00
300054	STMD I 1 1/2-20.8 SL40 3C	12.000-16.500	1.969	12.3	4.72	M6X14	10	G 3/2	Steel	5.00
300055	STMD I 2-26.0-SL40 1C	16.000-22.000	2.362	15.0	5.90	M6X14	10	G 3/4	Steel	9.40
300056	STMD I 2-26.0-SL50 1C ^e	16.000-22.000	NA	15.0	5.90	M8X14	10	G 3/4	Steel	9.40
300057	STMD I 2 1/2-31.8-SL40 1C	20.000-27.500	2.756	19.1	7.10	M6X14	12	G 3/4	Steel	16.40
300058	STMD I 2 1/2-31.8-SL60 1C ^e	20.000-27.500	NA	19.1	7.10	M8X14	10	G 3/4	Steel	16.40
300470	STMD I 3-47-SL40 1C ^e	25.000-34.600	3.543	25.4	9.40	M6X14	12	G 1 1/4	Steel	45.00

<p> ^b – measured from the cutting edge to the clamping. ^d – Carbide back end joined with steel ^e – only on order and with a longer lead-time, ^g - estimated with using standard SDUCR cutter heads from MAQ. </p>
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Turning 11-15xD

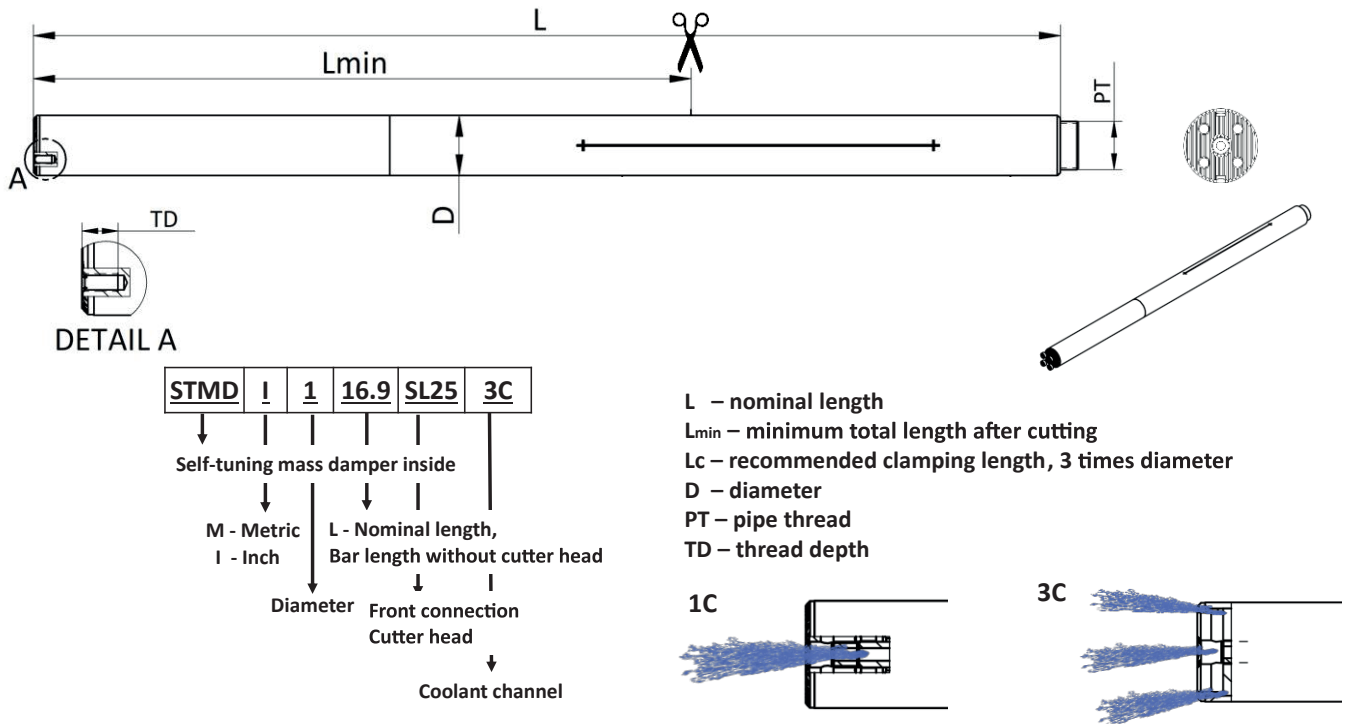
Straight holder (11-15xD) with SL (Serration Lock) interface (Metric)



Standard: Metric (with SL interface and exchangeable heads)										
Part number	Type	Workable length ^b (mm)	D min (mm) ^g	Lmin (mm)	Lc (mm)	Screws	TD (mm)	PT	Material	KG
300089	STMD M16-268 SL16 3C	176-240	20	268	48	M3X8	5.5	G ½	S+C ^d	0.75
300090	STMD M20-340 SL20 3C	220-300	25	340	60	M3X8	5.5	G ¼	S+C ^d	1.50
300091	STMD M25-430 SL25 3C	275-375	32	430	75	M4X9	6.5	G ¼	S+C ^d	3.20
300085	STMD M32-544 SL32 3C	352-480	40	544	96	M5X12	10	G ¼	S+C ^d	6.40
300309	STMD M40-688 SL40 1C	440-600	50	688	120	M6x14	10	M36x1	S+C ^d	9.40
300093	STMD M40-688 SL40 3C	440-600	50	688	120	M6x14	10	M36x1	S+C ^d	9.40
300094	STMD M50-861-SL40 1C	550-750	60	861	150	M6X14	10	M42x1	S+C ^d	18.6
300095	STMD M50-861-SL50 1C	550-750	NA	861	150	M6X14	10	M42x1	S+C ^d	18.6
300096	STMD M60-1040-SL40 1C ^e	660-900	70	1040	180	M6x14	10	M52x1	S+C ^d	34.4
300097	STMD M60-1040-SL60 1C ^e	660-900	NA	1040	180	M6x14	10	M52x1	S+C ^d	34.4

<p>b – measured from the cutting edge to the clamping. d – Carbide back end joined with steel e – only on order and with a longer lead-time, g - estimated with using standard SDUCR cutter heads from MAQ.</p>
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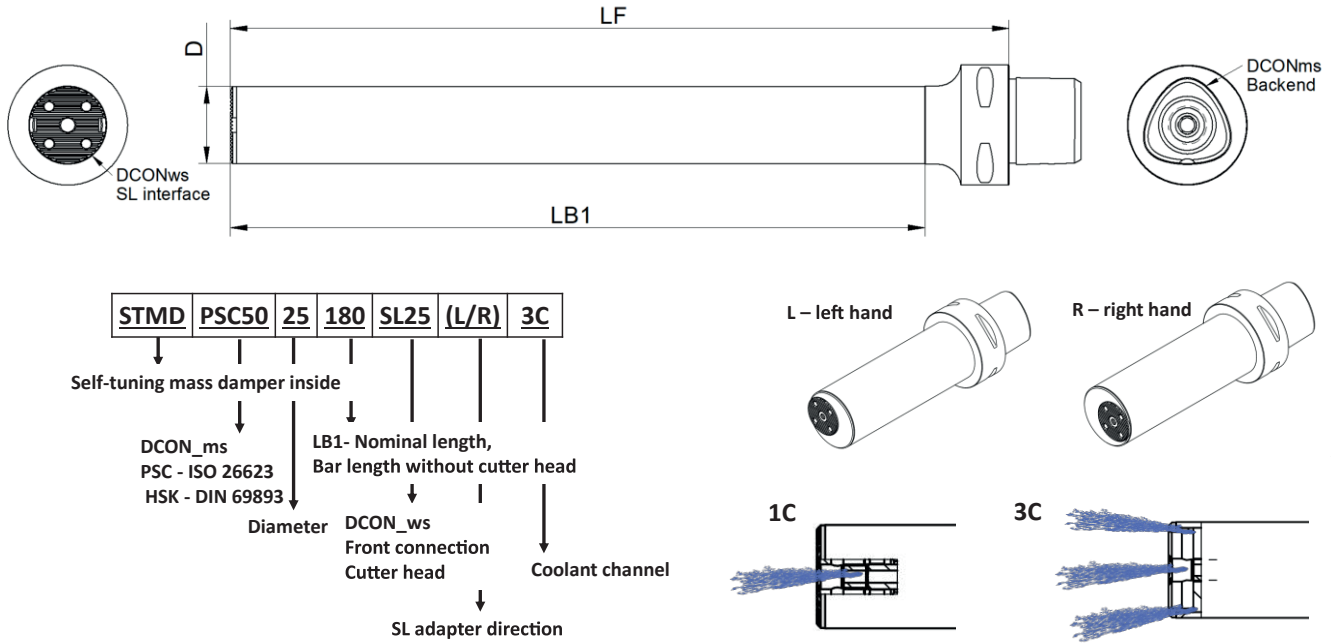
Straight holder (11-15xD) with SL (Serration Lock) interface (Inch)



Standard: Inch (with SL interface and exchangeable heads)										
Part number	Type	Workable length ^b (inch)	D _{min} (inch) ^g	L _{min} (inch)	L _c (inch)	Screws	PT	TD (mm)	Material	KG
300159	STMD I 5/8-10.6 SL16 3C	6.875-9.375	0.787	10.6	1.88	M3X8	G ½	5.5	S+C ^d	0.75
300160	STMD I 3/4-13.4 SL20 3C	8.250-11.250	0.984	13.4	2.25	M3X8	G ¼ ²	5.5	S+C ^d	1.50
300161	STMD I 1-16.9 SL25 3C	11.000-15.000	1.260	16.9	3.00	M4X9	G ¼ ³	6.5	S+C ^d	3.20
300162	STMD I 1 1/4-21.4 SL32 3C	13.750-18.750	1.575	21.4	3.75	M5X14	G ¼ ⁴	10	S+C ^d	6.40
300397	STMD I 1 1/2-27.1 SL40 1C ^e	16.500-22.500	1.969	27.1	4.50	M6x14	M36x1	10	S+C ^d	9.40
300396	STMD I 1 1/2-27.1 SL40 3C ^e	16.500-22.500	1.969	27.1	4.50	M6x14	M36x1	10	S+C ^d	9.40
300398	STMD I 2-33.9-SL40 1C ^e	22.000-30.000	2.362	33.9	6.00	M6X14	M42x1	10	S+C ^d	18.6
300400	STMD I 2-33.9-SL50 1C ^e	22.000-30.000	NA	33.9	6.00	M8X14	M42x1	10	S+C ^d	18.6
300399	STMD I 2 1/2-40.9-SL40 1C ^e	27.500- 37.500	2.756	40.9	7.50	M6x14	M52x1	10	S+C ^d	34.4
300401	STMD I 2 1/2-40.9-SL60 1C ^e	27.500- 37.500	NA	40.9	7.50	M8x14	M52x1	10	S+C ^d	34.4

b – measured from the cutting edge to the clamping.
 d – Carbide back end joined with steel
 e – only on order and with a longer lead-time,
 g - estimated with using standard SDUCR cutter heads from MAQ.

Turning – Multitask with modular backends.




Standard: PSC32 (with SL interface and exchangeable heads)

Standard: PSC32 (with SL interface and exchangeable heads)										
Part number	Type	Backend	D (mm)	Dmin (mm) ^d	LF (mm)	LB1 (mm)	Screws	Material		
300476	STMD PSC32 16-064 SL16 3C	PSC32	16	20	99	64	M3X8	Steel	0.3	
300477	STMD PSC32 16-096 SL16 3C	PSC32	16	20	131	96	M3X8	Steel	0.3	
300478	STMD PSC32 20-090 SL20 3C	PSC32	20	25	125	90	M3X8	Steel	0.3	
300479	STMD PSC32 20-130 SL20 3C	PSC32	20	25	165	130	M3X8	Steel	0.4	
300480	STMD PSC32 25-130 SL25 3C	PSC32	25	32	165	130	M4X9	Steel	0.6	
300481	STMD PSC32 25-180 SL25 3C	PSC32	25	32	215	180	M4X9	Steel	0.8	
300482	STMD PSC32 25-230 SL25 3C	PSC32	25	32	265	230	M4X9	Steel	1.0	
300483	STMD PSC32 32-170 SL32 3C	PSC32	32	40	205	170	M5X12	Steel	1.8	
300484	STMD PSC32 32-230 SL32 3C	PSC32	32	40	265	230	M5X12	Steel	2.4	


^d - estimated with using standard SDUCR cutter heads from MAQ.

Standard: PSC40 (with SL interface and exchangeable heads)

Standard: PSC40 (with SL interface and exchangeable heads)									
Part number	Type	Backend	D (mm)	Dmin (mm) ^d	LF (mm)	LB1 (mm)	Screws	Material	
300485	STMD PSC40 16-064 SL16 3C	PSC40	16	20	100	64	M3X8	Steel	0.4
300486	STMD PSC40 16-096 SL16 3C	PSC40	16	20	132	96	M3X8	Steel	0.5
300487	STMD PSC40 20-090 SL20 3C	PSC40	20	25	126	90	M3X8	Steel	0.5
300488	STMD PSC40 20-130 SL20 3C	PSC40	20	25	166	130	M3X8	Steel	0.7
300489	STMD PSC40 25-130 SL25 3C	PSC40	25	32	167	130	M4X9	Steel	0.8
300490	STMD PSC40 25-180 SL25 3C	PSC40	25	32	216	180	M4X9	Steel	0.9
300491	STMD PSC40 25-230 SL25 3C	PSC40	25	32	266	230	M4X9	Steel	1.2
300492	STMD PSC40 32-170 SL32 3C	PSC40	32	40	206	170	M5X12	Steel	1.5
300493	STMD PSC40 32-230 SL32 3C	PSC40	32	40	266	230	M5X12	Steel	2.0
300494	STMD PSC40 32-294 SL32 3C	PSC40	32	40	330	294	M5X12	Steel	2.6
300495	STMD PSC40 40-210 SL40 3C	PSC40	40	50	246	210	M6X14	Steel	1.7
300496	STMD PSC40 40-290 SL40 3C	PSC40	40	50	326	290	M6x14	Steel	3.4


d - estimated with using standard SDUCR cutter heads from MAQ.

Standard: PSC50 (with SL interface and exchangeable heads)

Standard: PSC50 (with SL interface and exchangeable heads)									
Part number	Type	Backend	D (mm)	Dmin (mm) ^d	LF (mm)	LB1 (mm)	Screws	Material	
300497	STMD PSC50 16-064 SL16 3C	PSC50	16	20	99	64	M3X8	Steel	0.5
300498	STMD PSC50 16-096 SL16 3C	PSC50	16	20	131	96	M3X8	Steel	0.7
300499	STMD PSC50 20-090 SL20 3C	PSC50	20	20	131	96	M3X8	Steel	0.7
300500	STMD PSC50 20-130 SL20 3C	PSC50	20	25	165	130	M3X8	Steel	0.9
300501	STMD PSC50 25-130 SL25 3C	PSC50	25	32	165	130	M4X9	Steel	1.0
300462	STMD PSC50 25-180 SL25 3C	PSC50	25	32	215	180	M4X9	Steel	1.2
300463	STMD PSC50 25-230 SL25 3C	PSC50	25	32	265	230	M4X9	Steel	1.4
300502	STMD PSC50 32-170 SL32 3C	PSC50	32	40	205	170	M5X12	Steel	1.4
300464	STMD PSC50 32-230 SL32 3C	PSC50	32	40	265	230	M5X12	Steel	1.8
300465	STMD PSC50 32-294 SL32 3C	PSC50	32	40	329	294	M5X12	Steel	2.4
300503	STMD PSC50 40-210 SL40 3C	PSC50	40	50	245	210	M6X14	Steel	2.2
300504	STMD PSC50 40-290 SL40 3C	PSC50	40	50	325	290	M6x14	Steel	3.6
300505	STMD PSC50 40-370 SL40 3C	PSC50	40	50	405	370	M6x14	Steel	4.2
301184	STMD PSC50 50-270 SL40 L 1C	PSC50	50	60	305	270	M6x14	Steel	5.2
301185	STMD PSC50 50-370 SL40 L 1C	PSC50	50	60	405	370	M6x14	Steel	7.1
301200	STMD PSC50 50-270 SL40 R 1C	PSC50	50	60	305	270	M6x14	Steel	5.2
301201	STMD PSC50 50-370 SL40 R 1C	PSC50	50	60	405	370	M6x14	Steel	7.1


d - estimated with using standard SDUCR cutter heads from MAQ.

Standard: PSC63 (with SL interface and exchangeable heads)

Standard: PSC63 (with SL interface and exchangeable heads)									
Part number	Type	Backend	D (mm)	Dmin (mm) ^d	LF (mm)	LB1 (mm)	Screws	Material	
300506	STMD PSC63 16-064 SL16 3C	PSC63	16	20	102	64	M3X8	Steel	1.0
300507	STMD PSC63 16-096 SL16 3C	PSC63	16	20	134	96	M3X8	Steel	1.2
300508	STMD PSC63 20-090 SL20 3C	PSC63	20	20	128	90	M3X8	Steel	1.0
300509	STMD PSC63 20-130 SL20 3C	PSC63	20	25	168	130	M3X8	Steel	1.2
300510	STMD PSC63 25-130 SL25 3C	PSC63	25	32	168	130	M4X9	Steel	1.5
300511	STMD PSC63 25-180 SL25 3C	PSC63	25	32	218	180	M4X9	Steel	1.6
300512	STMD PSC63 25-230 SL25 3C	PSC63	25	32	268	230	M4X9	Steel	1.7
300513	STMD PSC63 32-170 SL32 3C	PSC63	32	40	208	170	M5X12	Steel	1.8
300514	STMD PSC63 32-230 SL32 3C	PSC63	32	40	268	230	M5X12	Steel	2.2
300515	STMD PSC63 32-294 SL32 3C	PSC63	32	40	332	294	M5X12	Steel	2.7
300516	STMD PSC63 40-210 SL40 3C	PSC63	40	50	248	210	M6X14	Steel	2.6
300517	STMD PSC63 40-290 SL40 3C	PSC63	40	50	328	290	M6X14	Steel	3.9
300518	STMD PSC63 40-370 SL40 3C ^a	PSC63	40	50	408	370	M6x14	Steel	4.2
301186	STMD PSC63 50-270 SL40 L 1C	PSC63	50	60	308	270	M6x14	Steel	5.7
301187	STMD PSC63 50-370 SL40 L 1C	PSC63	50	60	408	370	M6x14	Steel	7.6
301188	STMD PSC63 50-470 SL40 L 1C	PSC63	50	60	508	470	M6x14	Steel	9.3
301192	STMD PSC63 60-330 SL40 L 1C	PSC63	60	70	368	330	M6x14	Steel	8.0
301193	STMD PSC63 60-450 SL40 L 1C	PSC63	60	70	488	450	M6x14	Steel	10.6
301202	STMD PSC63 50-270 SL40 R 1C	PSC63	50	60	308	270	M6x14	Steel	5.7
301203	STMD PSC63 50-370 SL40 R 1C	PSC63	50	60	408	370	M6x14	Steel	7.6
301204	STMD PSC63 50-470 SL40 R 1C	PSC63	50	60	508	470	M6x14	Steel	9.3
301205	STMD PSC63 60-330 SL40 R 1C	PSC63	60	70	368	330	M6x14	Steel	8.0
301206	STMD PSC63 60-450 SL40 R 1C	PSC63	60	70	488	450	M6x14	Steel	10.6


d - estimated with using standard SDUCR cutter heads from MAQ.

Standard: PSC80 (with SL interface and exchangeable heads)

Standard: PSC80 (with SL interface and exchangeable heads)									
Part number	Type	Backend	D (mm)	Dmin (mm) ^d	LF (mm)	LB1 (mm)	Screws	Material	
300519	STMD PSC80 16-064 SL16 3C	PSC80	16	20	94	64	M3X8	Steel	1.1
300520	STMD PSC80 16-096 SL16 3C	PSC80	16	20	126	96	M3X8	Steel	1.3
300521	STMD PSC80 20-090 SL20 3C	PSC80	20	25	120	90	M3X8	Steel	1.4
300522	STMD PSC80 20-130 SL20 3C	PSC80	20	25	160	130	M3X8	Steel	1.6
300523	STMD PSC80 25-130 SL25 3C	PSC80	25	32	160	130	M4X9	Steel	2.0
300524	STMD PSC80 25-180 SL25 3C	PSC80	25	32	210	180	M4X9	Steel	2.5
300525	STMD PSC80 25-230 SL25 3C	PSC80	25	32	260	230	M4X9	Steel	3.0
300526	STMD PSC80 32-170 SL32 3C	PSC80	32	40	200	170	M5X12	Steel	2.8
300527	STMD PSC80 32-230 SL32 3C	PSC80	32	40	260	230	M5X12	Steel	3.6
300528	STMD PSC80 32-294 SL32 3C	PSC80	32	40	324	294	M5X12	Steel	4.5
300529	STMD PSC80 40-210 SL40 3C	PSC80	40	50	240	210	M6X14	Steel	3.7
300530	STMD PSC80 40-290 SL40 3C	PSC80	40	50	320	290	M6x14	Steel	5.2
300531	STMD PSC80 40-370 SL40 3C ^a	PSC80	40	50	400	370	M6x14	Steel	5.4
301189	STMD PSC80 50-270 SL40 L 1C	PSC80	50	60	302	270	M6x14	Steel	6.4
301190	STMD PSC80 50-370 SL40 L 1C	PSC80	50	60	402	370	M6x14	Steel	8.3
301191	STMD PSC80 50-470 SL40 L 1C	PSC80	50	60	502	470	M6x14	Steel	10.0
301194	STMD PSC80 60-330 SL40 L 1C	PSC80	60	70	362	330	M6x14	Steel	8.7
301195	STMD PSC80 60-450 SL40 L 1C	PSC80	60	70	482	450	M6x14	Steel	11.3
301196	STMD PSC80 60-570 SL40 L 1C	PSC80	60	70	602	570	M6x14	Steel	13.2
301207	STMD PSC80 50-270 SL40 R 1C	PSC80	50	60	302	270	M6x14	Steel	6.4
301208	STMD PSC80 50-370 SL40 R 1C	PSC80	50	60	402	370	M6x14	Steel	8.3
301209	STMD PSC80 50-470 SL40 R 1C	PSC80	50	60	502	470	M6x14	Steel	10.0
301210	STMD PSC80 60-330 SL40 R 1C	PSC80	60	70	362	330	M6x14	Steel	8.7
301211	STMD PSC80 60-450 SL40 R 1C	PSC80	60	70	482	450	M6x14	Steel	11.3
301212	STMD PSC80 60-570 SL40 R 1C	PSC80	60	70	602	570	M6x14	Steel	13.2
301197	STMD PSC80 80-450 SL40 L 1C	PSC80	80	90	482	450	M6x14	Steel	12.1
301198	STMD PSC80 80-610 SL40 L 1C	PSC80	80	90	642	610	M6x14	Steel	18.2
301199	STMD PSC80 80-740 SL40 L 1C	PSC80	80	90	742	740	M6x14	Steel	20.6

d - estimated with using standard SDUCR cutter heads from MAQ.

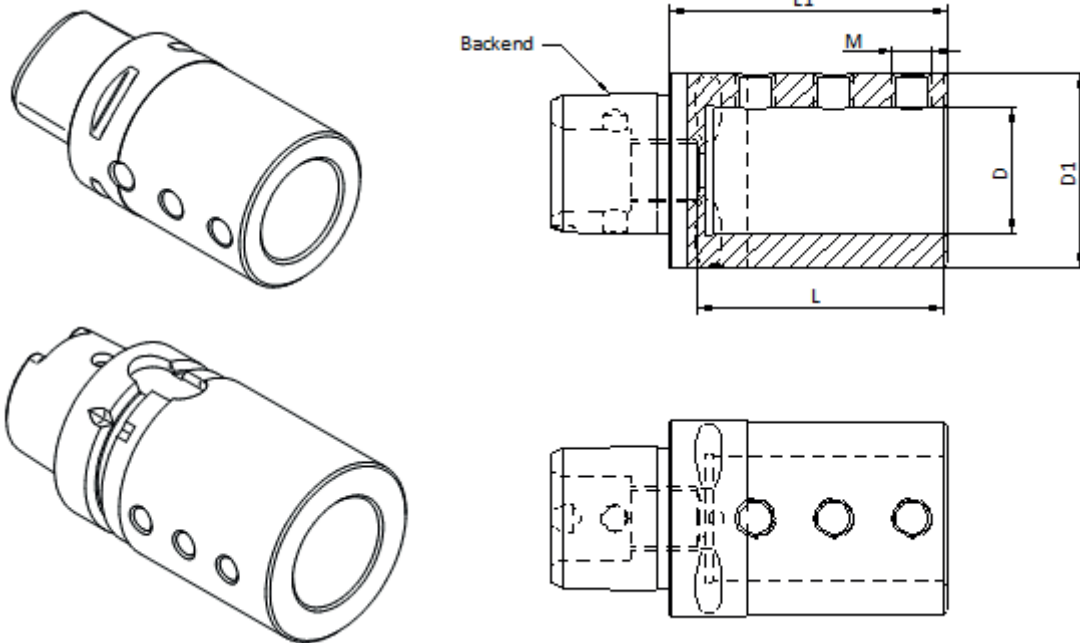
Standard: HSK63T (with SL interface and exchangeable heads)

Standard: HSK63T (with SL interface and exchangeable heads)									
Part number	Type	Backend	D (mm)	Dmin (mm) ^d	LF (mm)	LB1 (mm)	Screws	Material	
300532	STMD HSK63T 16-064 SL16 3C	HSK63	16	20	120	64	M3X8	Steel	1.0
300533	STMD HSK63T 16-096 SL16 3C	HSK63	16	20	152	96	M3X8	Steel	1.2
300534	STMD HSK63T 20-090 SL20 3C	HSK63	20	25	146	90	M3X8	Steel	1.0
300535	STMD HSK63T 20-130 SL20 3C	HSK63	20	25	186	130	M3X8	Steel	1.2
300536	STMD HSK63T 25-130 SL25 3C	HSK63	25	32	186	130	M4X9	Steel	1.5
300537	STMD HSK63T 25-180 SL25 3C	HSK63	25	32	236	180	M4X9	Steel	1.6
300538	STMD HSK63T 25-230 SL25 3C	HSK63	25	32	286	230	M4X9	Steel	1.7
300539	STMD HSK63T 32-170 SL32 3C	HSK63	32	40	226	170	M5X12	Steel	1.8
300540	STMD HSK63T 32-230 SL32 3C	HSK63	32	40	286	230	M5X12	Steel	2.2
300541	STMD HSK63T 32-294 SL32 3C	HSK63	32	40	350	294	M5X12	Steel	2.7
300542	STMD HSK63T 40-210 SL40 3C	HSK63	40	50	266	210	M6X14	Steel	2.6
300543	STMD HSK63T 40-290 SL40 3C	HSK63	40	50	346	290	M6x14	Steel	3.9
300544	STMD HSK63T 40-370 SL40 3C ^a	HSK63	40	50	426	370	M6x14	Steel	4.2

d - estimated with using standard SDUCR cutter heads from MAQ.

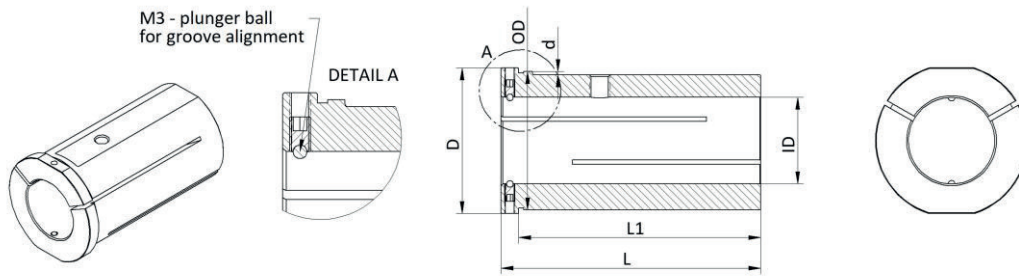
Accessories

Modular fixtures



Part Number	Type	Backend	D (mm)	L (mm)	D1 (mm)	L1 (mm)	M thread
300267	PSC50-SLT32x62-71	PSC50	32	62	49.5	71	M10x1.5
300292	PSC63-SLT40x72-86	PSC63	40	72	62.5	86	M12x1.75
300293	HSK63T-SLT32x62-90	HSK63T	32	62	50	80	M10x1.5

Reduction sleeves



Metric

Part Number	Type	OD h6 (mm)	ID H7 (mm)	L (mm)	D (mm)	L1 (mm)	d (mm)
301180	RS 16-06	16	6	48	20	43	0.75

300606	RS 20-16	20	16	55	37	50	1
300607	RS 20-12	20	12	55	37	50	1
300608	RS 20-10	20	10	55	37	50	1
300609	RS 20-08	20	8	55	37	50	1
301179	RS 20-06	20	6	55	37	50	1

300601	RS 25-20	25	20	61	30	56	1
300602	RS 25-16	25	16	61	30	56	1
300603	RS 25-12	25	12	61	30	56	1
300604	RS 25-10	25	10	61	30	56	1
300605	RS 25-08	25	8	61	30	56	1
301178	RS 25-06	25	6	61	30	56	1

300190	RS 32-25	32	25	65	37	60	1
300191	RS 32-20	32	20	65	37	60	1
300192	RS 32-16	32	16	65	37	60	1
300193	RS 32-12	32	12	65	37	60	1
300194	RS 32-10	32	10	65	37	60	1
300600	RS 32-08	32	8	65	37	60	1
300683	RS 32-06	32	6	65	37	60	1

300163	RS 40-32	40	32	75	44	70	1.5
300164	RS 40-25	40	25	75	44	70	1.5
300165	RS 40-20	40	20	75	44	70	1.5
300166	RS 40-16	40	16	75	44	70	1.5
300167	RS 40-12	40	12	75	44	70	1.5
300168	RS 40-10	40	10	75	44	70	1.5
300599	RS 40-08	40	8	75	44	70	1.5
300682	RS 40-06	40	6	75	44	70	1.5

300455	RS 50-40	50	40	95	58	90	1
300456	RS 50-32	50	32	95	58	90	1
300457	RS 50-25	50	25	95	58	90	1

300458	RS 60-50	60	50	110	68	105	1
300459	Rs 60-40	60	40	110	68	105	1

300460	RS 80-60	80	60	128	88	123	1
300461	RS 80-50	80	50	128	88	123	1

Inch

Part Number	Type	OD h6 (inch)	ID H7 (inch)	L (inch)	D (inch)	L1 (inch)	d (inch)
300229	RS i 1 ½ - 1 ¼	1.50	1.25	2.95	1.69	2.76	0.06
300230	RS i 1 ½ - 1	1.50	1.00	2.95	1.65	2.76	0.06
300231	RS i 1 ½ - ¾	1.50	0.75	2.95	1.65	2.76	0.06
300232	RS i 1 ½ - ⅝	1.50	0.625	2.95	1.65	2.76	0.06
300233	RS i 1 ½ - ½	1.50	0.50	2.95	1.65	2.76	0.06
300234	RS i 1 ½ - ⅜	1.50	0.375	2.95	1.65	2.76	0.06
300635	RS i 1 ½ - ⅕ ₁₆	1.50	0.3125	2.95	1.65	2.76	0.06

300235	RS i 1 ¼ - 1	1.25	1.00	2.56	1.46	2.36	0.04
300236	RS i 1 ¼ - ¾	1.25	0.75	2.56	1.46	2.36	0.04
300237	RS i 1 ¼ - ⅝	1.25	0.625	2.56	1.46	2.36	0.04
300238	RS i 1 ¼ - ½	1.25	0.50	2.56	1.46	2.36	0.04
300239	RS i 1 ¼ - ⅜	1.25	0.375	2.56	1.46	2.36	0.04
300636	RS i 1 ¼ - ⅕ ₁₆	1.25	0.3125	2.56	1.46	2.36	0.04

300639	RS i 2 - 1 ½	2.00	1.25	3.74	2.28	3.54	0.04
300640	RS i 2 - 1 ¼	2.00	1.50	3.74	2.28	3.54	0.04
300641	RS i 2 - 1	2.00	1.00	3.74	2.28	3.54	0.04

300642	RS i 2 ½ - 2	2.50	2.00	4.33	2.67	4.13	0.04
300643	RS i 2 ½ - 1 ½	2.50	1.50	4.33	2.67	4.13	0.04

300644	RS i 3 - 2 ½	3.00	2.50	5.04	3.46	4.84	0.04
300645	RS i 3 - 2	3.00	2.00	5.04	3.46	4.84	0.04

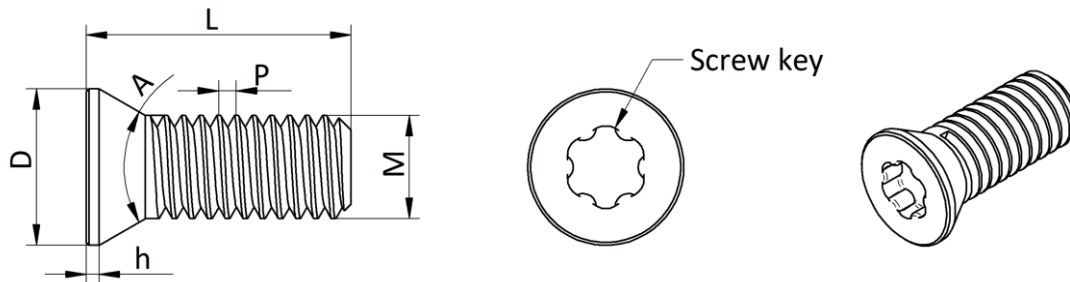
Level Indicator/Digital protractor (angle inclinometer)



Part Number	Product	Width (mm)	Length (mm)	Height (mm)	Weight (g)	Battery	Lightning
300175	Digital protractor - Level Indicator	26	57	55	85	AA. 2 pcs	Yes

Delivered with a magnet with power of 4.8 kg for easier alignment of machining tools.

Insert screws

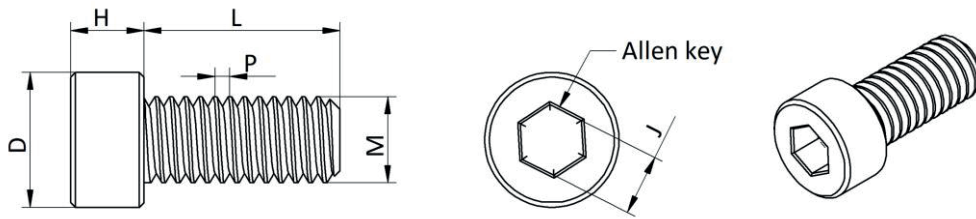


Insert screws

Part Number	Type - Torx	Quantity	Designation	Thread M	D (mm)	L (mm)	A (°)	P (mm)	h (mm)	Torx Key
300659	IS M2.0x4.0	10 pcs/bag	M2.0x4xD2.8xP0.4	M2.0	2.8	4	60	0.40	0.3	T6
300257	IS M2.2x5.0	10 pcs/bag	M2.2x5.0xD3.0xP0.45	M2.2	3.0	5.0	60	0.45	0.8	T7
300701	IS M2.5x4.5	10 pcs/bag	M2.5x4.5xD3.6xP0.45	M2.5	3.6	4.5	55	0.45	0.6	T8
300258	IS M2.5x6.0	10 pcs/bag	M2.5x6.0xD3.6xP0.45	M2.5	3.6	6.0	55	0.45	0.6	T8
300620	IS M2.5x8.0	10 pcs/bag	M2.5x8.0xD3.6xP0.45	M2.5	3.6	8.0	55	0.45	0.6	T8
300617	IS M3.5x11.0	10 pcs/bag	M3.5x11.0xD5.3xP0.60	M3.5	5.3	10.0	60	0.60	1.2	T15
300618	IS M4.0x15.0	10 pcs/bag	M4.0x15.0xD7.0xP0.70	M4.0	7.0	15.0	60	0.70	NA	T15
300619	IS M4.5x12.0	10 pcs/bag	M4.5x12.0xD6.8xP0.75	M4.5	6,8	12	60	0.75	NA	T20
300425	IS M5.0x18.0	10 pcs/bag	M5.0x18.0xD8.2xP0.8	M5.0	8,2	18	60	0.80	NA	T20

Cutter head screws

Standard: DIN 912



Cutter head screws

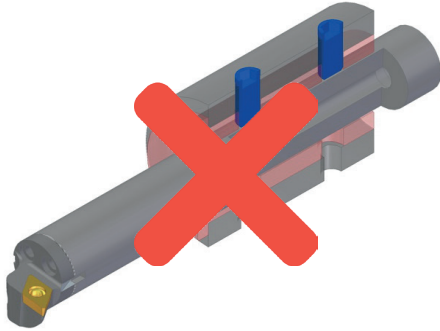
Part Number	Type (DIN912)	Quantity	Thread M	D (mm)	L (mm)	H (mm)	P (mm)	Key (mm)	Suitable for
300260	HS M2x8	10 pcs/bag	M2	3.8	8	2	0.4	Allen key A/F 1.5	SL12
300261	HS M2x14	10 pcs/bag	M2	3.8	14	2	0.4	Allen key A/F 1.5	SL12
300673	HS M3x6	10 pcs/bag	M3	5.5	6	3	0.5	Allen key A/F 2.5	EA16, IA16, EA22, IA22
300169	HS M3x8	10 pcs/bag	M3	5.5	8	3	0.5	Allen key A/F 2.5	SL16, SL20
300170	HS M4x9	10 pcs/bag	M4	7	9	4	0.7	Allen key A/F 3	SL25
300171	HS M5x12	10 pcs/bag	M5	8.5	12	5	0.8	Allen key A/F 4	SL32
300262	HS M6x14	10 pcs/bag	M6	10	14	6	1	Allen key A/F 5	SL40
300263	HS M8x14	10 pcs/bag	M8	13	14	8	1.25	Allen key A/F 6	SL50, SL60

Shims

Part Number	Type	Fits
300433	Shim CCMT 09T3	STMD M32-256 SCLCL/R C, STMD M40-320 SCLCL/R C
300430	Shim CCMT 1204	SL40 SCLCL/R CP
300431	Shim DCMT 11T3	SL40 SDUCL/R CP
300432	Shim TCMT 16T3	SL40 STFCL/R CP
300669	Shim VCMT 1604	SL40 SVUCL/R CP, SL32 SVUCL/R CP
300435	Shim EA16 - IL16	SL25 SXFNL P 16, SL32 SXFNL P 16, SL40 SXFNL CP 16
300436	Shim IA16 - IR16	SL25 SXFNR P 16, SL32 SXFNR P 16, SL40 SXFNR CP 16
300437	Shim EA22 - IL22	SL25 SXFNL P 22, SL32 SXFNL CP 22, SL40 SXFNL CP 22
300438	Shim IA22 - IR22	SL25 SXFNR P 22, SL32 SXFNR CP 22, SL40 SXFNR CP 22
300439	Shim EA27 - IL27	SL40 SXFNL CP 27
300440	Shim IA27 - IR27	SL40 SXFNR CP 27

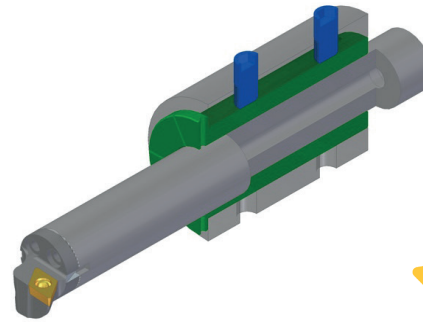
FISSAGGIO DELLE BARRE ANTIVIBRANTI

Un bloccaggio inadeguato con una bassa rigidità alla flessione avrà un impatto negativo sulle prestazioni.



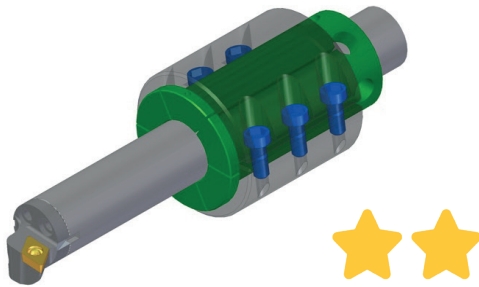
SERRAGGIO DIRETTO A VITE

- Rigidità finale inaccettabile
- Lunghezza di serraggio = NON APPLICABILE
- Non utilizzare su barre MAQ



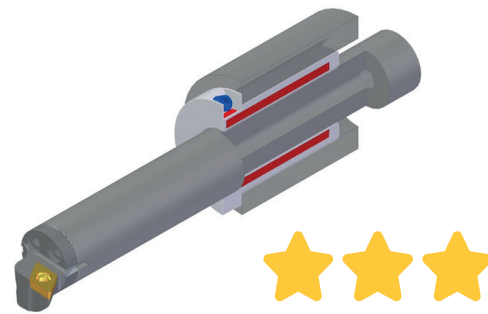
SERRAGGIO VITE + BUSSOLA

- Rigidità finale accettabile per basse sporgenze
- Lunghezza di serraggio consigliata minimo 3XD



SERRAGGIO ELASTICO+BUSSOLA

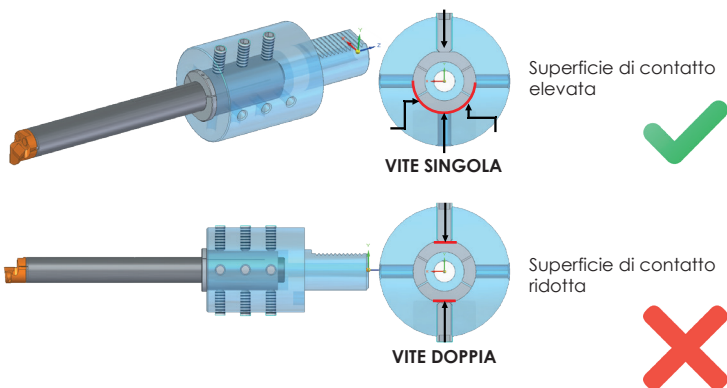
- Buona rigidità alla flessione
- Lunghezza di serraggio consigliata minimo 3XD



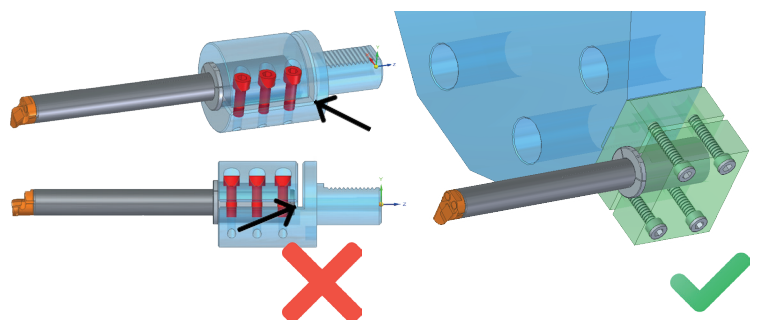
SERRAGGIO IDRAULICO

- Ottima rigidità alla flessione
- Consigliato per elevate sporgenze
- Lunghezza di serraggio consigliata minimo 2XD

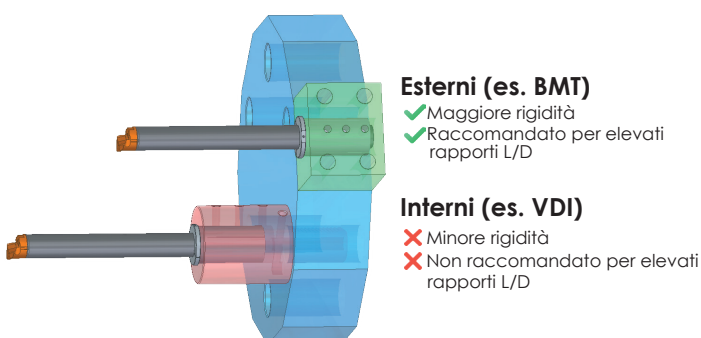
BUSSOLA DI RIDUZIONE



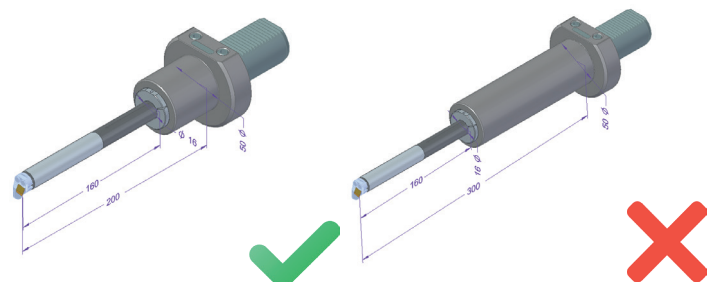
PREFERIRE PORTAUTENSILI CON SEZIONI ELEVATE



ATTACCHI MACCHINA



RIDURRE GLI SBALZI



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