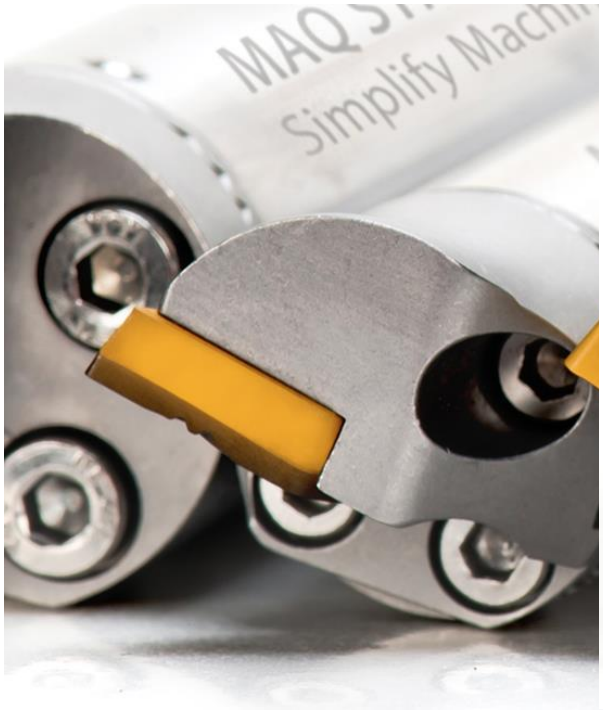
MAQ Catalog



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All about plug and play

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

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

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

It is truly 'Plug and Play'!

Qilin Fu

CTO @MAQ AB

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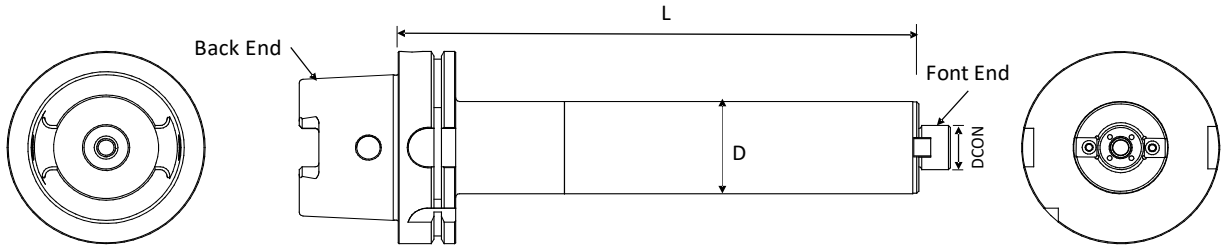
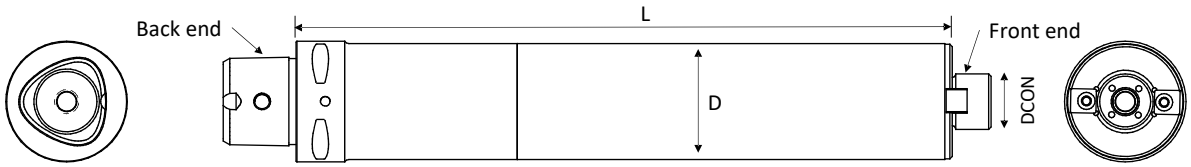
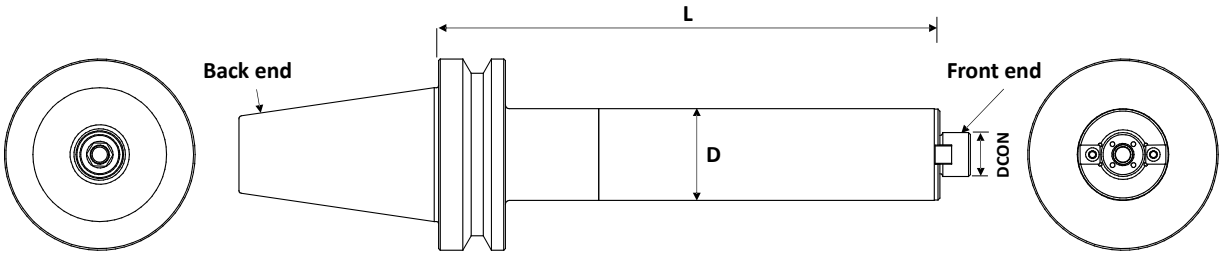
Milling tools – with back-ends:



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

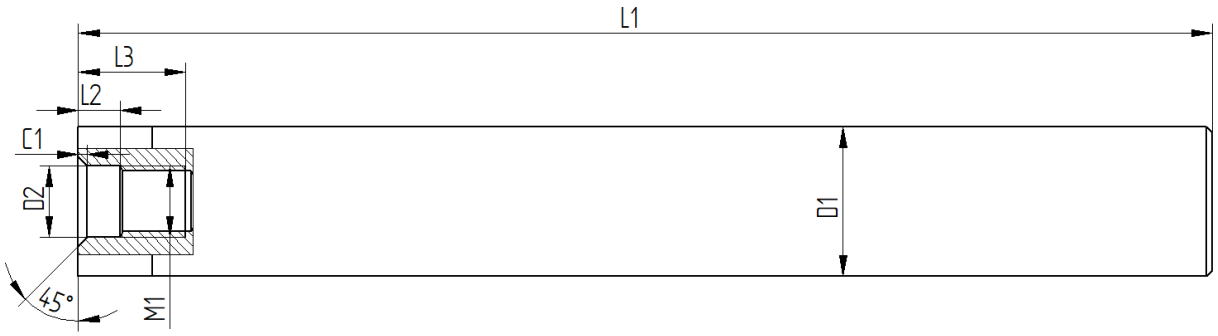


Product code	Back End	D (mm)	L (mm)	Front End | DCON	KG	Through Coolant
STMD PSC50 48-213 M22	PSC50	48	213	Arbor | M22	3,5	Yes
STMD PSC50 48-263 M22	PSC50	48	263	Arbor | M22	4	Yes
STMD PSC50 48-313 M22	PSC50	48	313	Arbor | M22	6	Yes



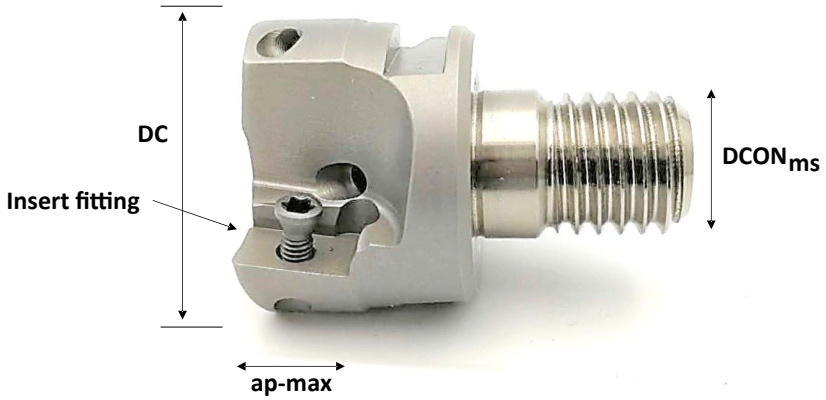
Product code	Back End	D (mm)	L (mm)	Front End | DCON	KG	Through Coolant
STMD BT40 48-213 M22	BT40	48	213	Arbor | M22	4	Yes
STMD BT40 48-263 M22	BT40	48	263	Arbor | M22	5	Yes
STMD BT40 48-313 M22	BT40	48	313	Arbor | M22	6	Yes
STMD BT50 48-213 M22	BT50	48	213	Arbor | M22	6	Yes
STMD BT50 48-263 M22	BT50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

Milling tools – straight shank:



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

Milling tools – cutting heads:



Product code	DC	$DCON_{ms}$	Inserts	Type of insert	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