

TENDO Slim 4ax „CoolFlow“ Sales Information



TENDO Slim4ax „CoolFlow“



TENDO Slim4ax HSK-A63



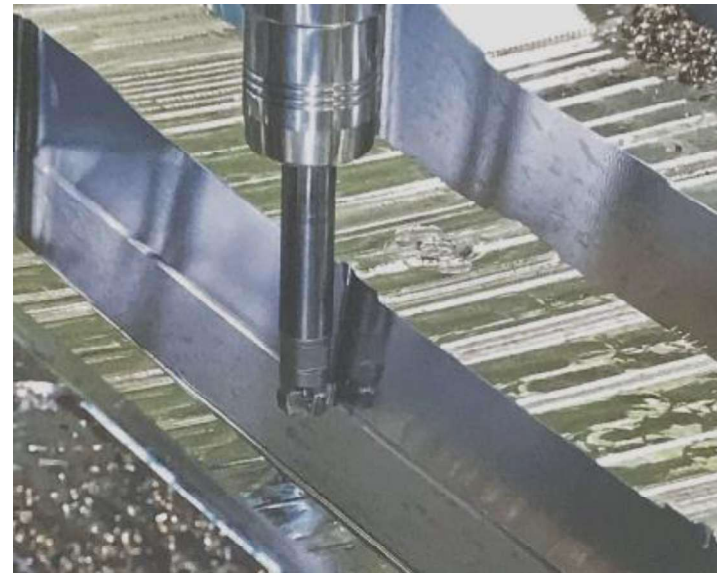
TENDO Slim4ax SK40

Fields of application of TENDO Slim4ax „CoolFlow“ (Examples)

- Applications with insufficient external cooling
- Use in processes with increased temperatures at the tool cutting edge
- Machining of deep cavities, ribs and pockets
- Pre-finishing and finishing for blisk components in turbine technology
- Machining processes of barrel milling cutters for e.g. trimming of mould surfaces in mould making



Ex. Blisk Component



Ex. Use of barrel milling cutters when trimming a bevel

Characteristics and advantages of TENDO Slim4ax „CoolFlow“

- Optimized cooling supply/jet steering directly to the tool cutting edge
- Ideal cooling and lubrication of the cutting edge during the entire machining process - No interruption of cooling
- Can also be used at high rotational speeds - Through four coolant channels mounted at 90° intervals on the clamping diameter
- With CoolFlow, targeted cooling is guaranteed even at low pressure and high speeds!
- Significant increase of tool life
- Improved workpiece surface quality
- Optimal chip removal – No Chip congestion
- Optimization of process safety – No chip development on the tool
- Durable concentricity and repeatability of $\leq 6\mu\text{m}$
- Torque/catalogue specifications are fulfilled 100%, one to one!
- HSK-A63 recordings can be converted to MMS/MQL technology!

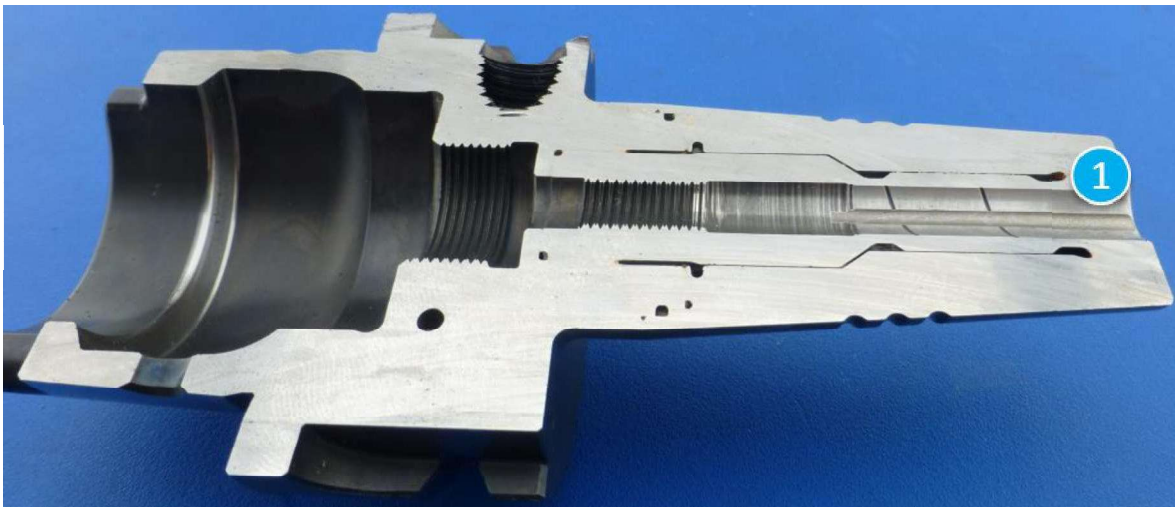
See also Information MMS installation parts for TENDO Slim4ax

TENDO Slim4ax „CoolFlow“

TENDO Slim 4ax



- 1 Coolant channel 4 x 90° attached to the clamping diameter



TENDO Slim4ax „CoolFlow“



TENDO Slim4ax „CoolFlow“ in use at Krieger Modellbau GmbH



TENDO Slim4ax „CoolFlow“

TENDO Slim4ax „CoolFlow“ HSK-A63 Standard/Catalog Portfolio

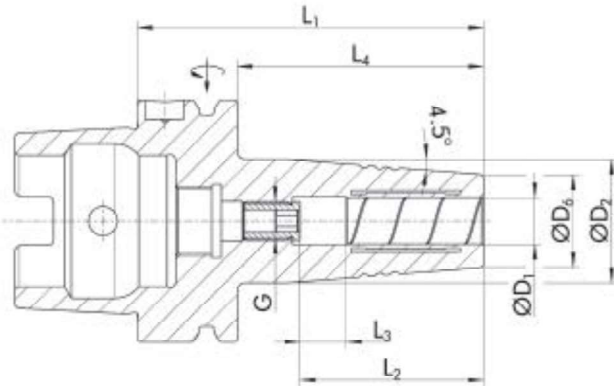


1318341	TENDO Slim HSK-A63 Ø6x80 /CF	358,00 €
1318343	TENDO Slim HSK-A63 Ø8x80 /CF	358,00 €
1318344	TENDO Slim HSK-A63 Ø10x85 /CF	358,00 €
1318345	TENDO Slim HSK-A63 Ø12x90 /CF	358,00 €
1318347	TENDO Slim HSK-A63 Ø14x90 /CF	358,00 €
1318348	TENDO Slim HSK-A63 Ø16x95 /CF	358,00 €
1318351	TENDO Slim HSK-A63 Ø20x100 /CF	358,00 €
1318352	TENDO Slim HSK-A63 Ø6x120 /CF	398,00 €
1318353	TENDO Slim HSK-A63 Ø8x120 /CF	398,00 €
1318354	TENDO Slim HSK-A63 Ø10x120 /CF	398,00 €
1318355	TENDO Slim HSK-A63 Ø12x120 /CF	398,00 €
1318356	TENDO Slim HSK-A63 Ø14x120 CF	398,00 €
1318357	TENDO Slim HSK-A63 Ø16x120 CF	398,00 €
1318359	TENDO Slim HSK-A63 Ø20x120 CF	398,00 €

SAP ZP1 Prices / fully discountable!

TENDO Slim4ax „CoolFlow“

TENDO Slim4ax „CoolFlow“ HSK-A63 Standard-/Catalog Portfolio

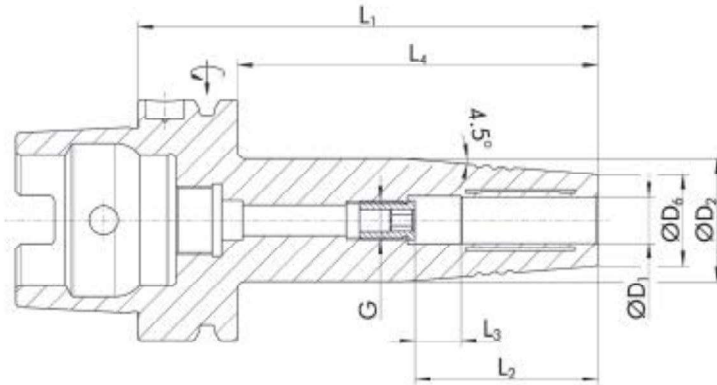


Technische Daten | Technical data

ID	D ₁ [mm]	D ₂ [mm]	D ₆ [mm]	L ₁ [mm]	L ₂ [mm]	L ₃ [mm]	L ₄ [mm]	G	M _{min} [Nm]	Gewicht Weight [kg]	
1318341	6	27	21	80	38.2	10	54	M10x1	16	0.9	9205650
1318343	8	27	21	80	38.2	10	54	M10x1	23	0.9	9205650
1318344	10	32	24	85	42.7	10	59	M10x1	45	0.9	9205650
1318345	12	32	24	90	47.7	10	64	M10x1	90	0.9	9205650
1318347	14	34	27	90	48.7	10	64	M10x1	110	1	9205650
1318348	16	34	27	95	53.2	10	69	M12x1	185	1	9205650
1318351	20	42	33	100	55.7	10	74	M16x1	330	1.2	9205650

TENDO Slim4ax „CoolFlow“

TENDO Slim4ax „CoolFlow“ HSK-A63 Standard-/Catalog Portfolio



Technische Daten | Technical data

ID	D ₁ [mm]	D ₂ [mm]	D ₆ [mm]	L ₁ [mm]	L ₂ [mm]	L ₃ [mm]	L ₄ [mm]	G	M _{min} [Nm]	Gewicht Weight [kg]	
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1318353	8	27	21	120	38.2	10	94	M7x1	23	1	9205650
1318354	10	32	24	120	43.2	10	94	M8x1	45	1.1	9205650
1318355	12	32	24	120	47.7	10	94	M10x1	90	1.1	9205650
1318356	14	34	27	120	48.7	10	94	M10x1	110	1.2	9205650
1318357	16	34	27	120	53.2	10	94	M12x1	185	1.2	9205650
1318359	20	42	33	120	55.7	10	94	M16x1	330	1.4	9205650

TENDO Slim4ax „CoolFlow“

TENDO Slim4ax „CoolFlow“ SK40 Standard/Catalog Portfolio

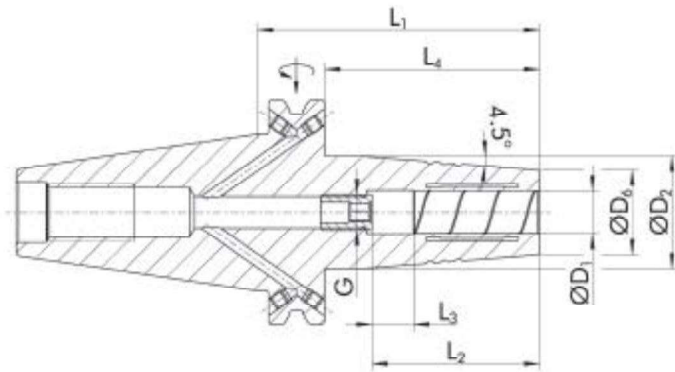


1379349	TENDO Slim SK40 Ø6x80 /CF	338,00 €
1379351	TENDO Slim SK40 Ø8x80 /CF	338,00 €
1379353	TENDO Slim SK40 Ø10x80 /CF	338,00 €
1379355	TENDO Slim SK40 Ø12x80 /CF	338,00 €
1379357	TENDO Slim SK40 Ø16x80 /CF	338,00 €
1379360	TENDO Slim SK40 Ø20x80 /CF	338,00 €
1378676	TENDO Slim SK40 Ø6x120 /CF	378,00 €
1378682	TENDO Slim SK40 Ø8x120 /CF	378,00 €
1378694	TENDO Slim SK40 Ø10x120 /CF	378,00 €
1379363	TENDO Slim SK40 Ø12x120 /CF	378,00 €
1379365	TENDO Slim SK40 Ø16x120 /CF	378,00 €
1379367	TENDO Slim SK40 Ø20x120 /CF	378,00 €

SAP ZP1 Prices / fully discountable!

TENDO Slim4ax „CoolFlow“

TENDO Slim4ax „CoolFlow“ SK40 Standard-/Catalog Portfolio

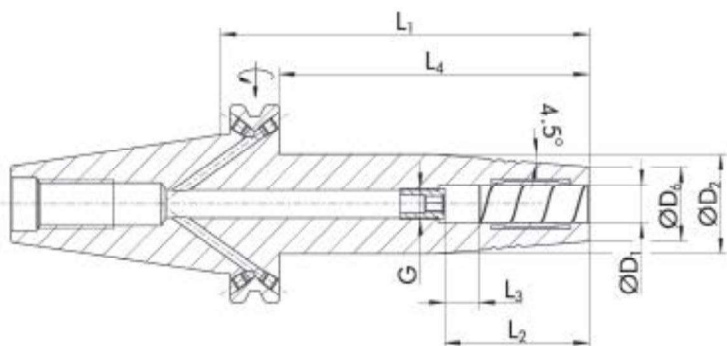


Technische Daten | Technical data

ID	D ₁ [mm]	D ₂ [mm]	D ₆ [mm]	L ₁ [mm]	L ₂ [mm]	L ₃ [mm]	L ₄ [mm]	G	M _{min} [Nm]	Gewicht Weight [kg]	
1379349	6	27	21	80	36	10	60.9	M5	16	1	9205650
1379351	8	27	21	80	36	10	60.9	M6	23	1	9205650
1379353	10	32	24	80	42	10	60.9	M8x1	45	1	9205650
1379355	12	32	24	80	47	10	60.9	M10x1	90	1	9205650
1379357	16	34	27	80	50	10	60.9	M12x1	185	1.1	9205650
1379360	20	42	33	80	52	10	60.9	M16x1	330	1.2	9205650

TENDO Slim4ax „CoolFlow“

TENDO Slim4ax „CoolFlow“ SK40 Standard-/Catalog Portfolio



Technische Daten | Technical data

ID	D ₁ [mm]	D ₂ [mm]	D ₆ [mm]	L ₁ [mm]	L ₂ [mm]	L ₃ [mm]	L ₄ [mm]	G	M _{min} [Nm]	Gewicht Weight [kg]	
1378676	6	27	21	120	36	10	100.9	M5	16	1.2	9205650
1378682	8	27	21	120	36	10	100.9	M6	23	1.2	9205650
1378694	10	32	24	120	42	10	100.9	M8x1	45	1.3	9205650
1379363	12	32	24	120	47	10	100.9	M10x1	90	1.31	9205650
1379365	16	34	27	120	50	10	100.9	M12x1	185	1.4	9205650
1379367	20	42	33	120	52	10	100.9	M16x1	330	1.6	9205650

TENDO Slim4ax „CoolFlow“

TENDO® Slim4ax

Market comparison
Version Cool Jet



Inclined non-reclosable coolant holes

Depending on the clamping diameter, two (€34 surcharge), three (€39 surcharge), or four (€50 surcharge) coolant holes can be applied! Not discountable!



Version Cool Flash



In contrast to the Cool Jet System, the cooling lubricant escapes through several slits

Cool Flash upgrade costs €184 per toolholder! Not discountable!

TENDO Slim4ax „CoolFlow“



Market comparison
Version Cool Tool



Two coolant holes in the wall of the shrink chuck lead the coolant directly to the cutting edge

If necessary, the cooling channel bores can be closed again with two M3 screws

The CoolTool versions have a surcharge on the conventional heat shrink toolholders of €29!



TENDO Slim4ax „CoolFlow“

TENDO Slim4ax

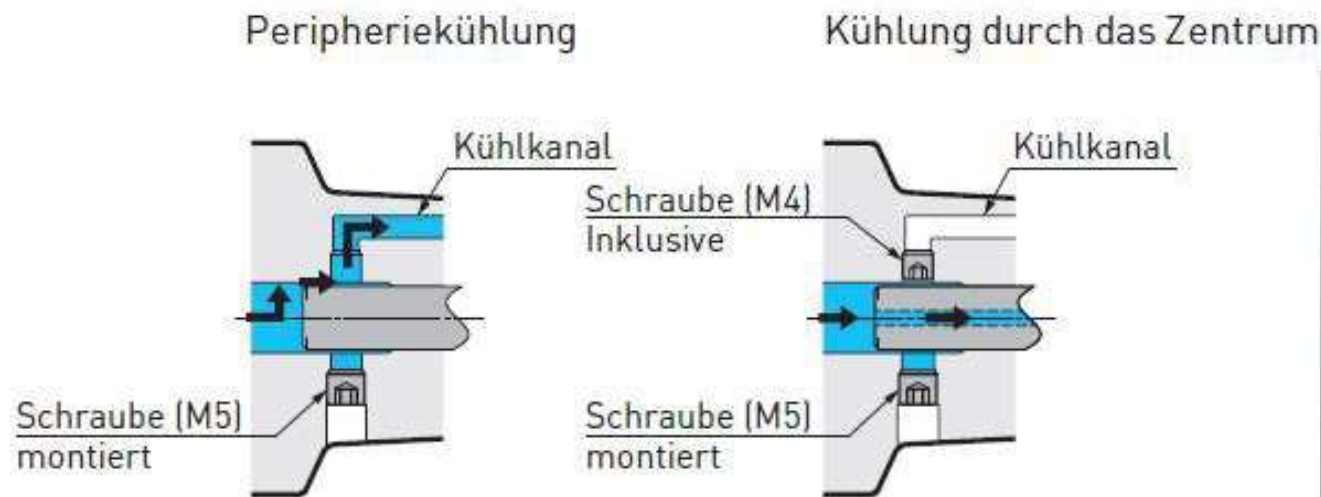
Market comparison
Version Jet Through

BIG KAISER



Two cooling channel bores allow radial adjustment via an M5 screw for peripheral cooling, or cooling through the centre!

The Jet Through versions have an additional price of €49 on the conventional hydraulic expansion toolholders!



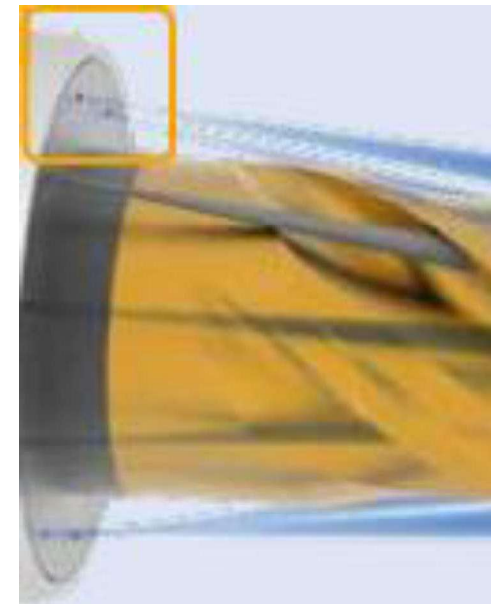
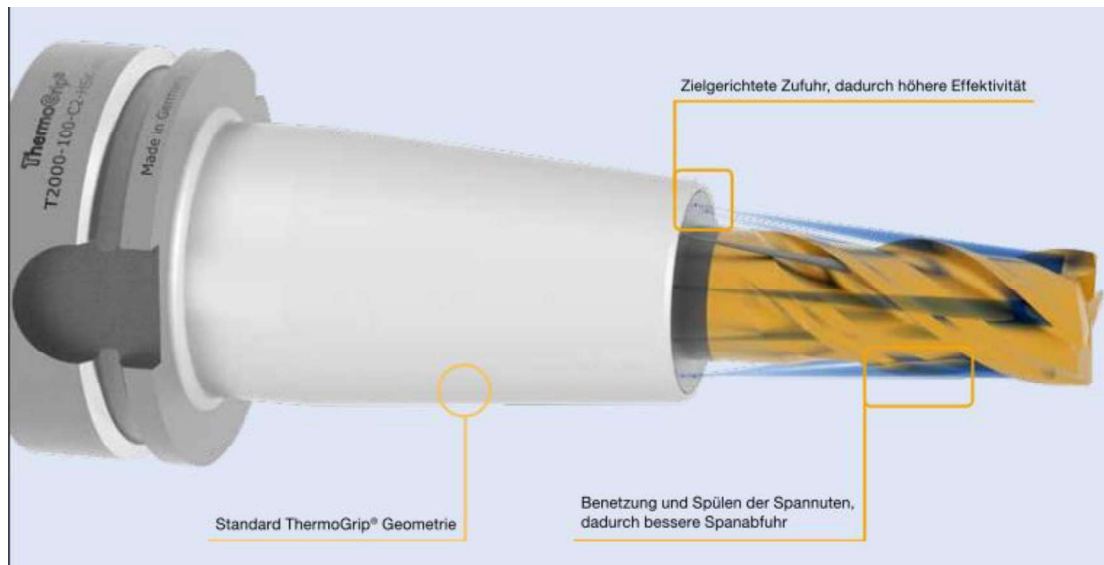
TENDO Slim4ax „CoolFlow“

Market comparison
Version „Corona Jet“



Identical with the standard shrink-fit holders - on the front side a "nozzle ring" with tiny holes for the coolant outlet is attached or can be seen!

The Corona Jet versions have a surcharge of €70 on the conventional heat-shrink toolholders!

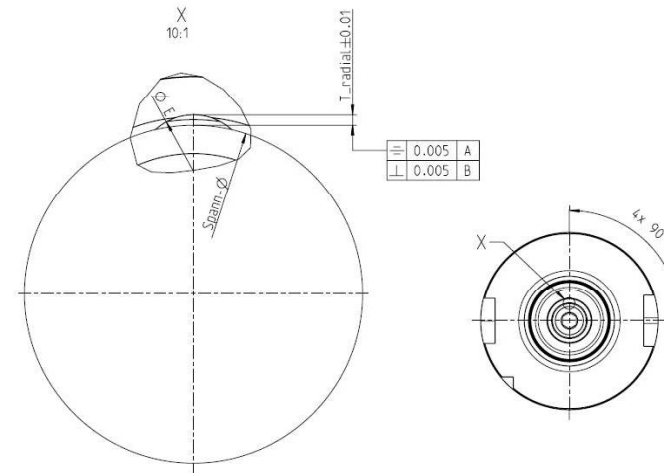


TENDO Slim4ax „CoolFlow“ summary!



Optimized cooling up to the cutting edge of the tool

- Targeted cooling even at high speeds over four x 90° in the clamping diameter mounted coolant channels
- Significant increase in tool service life
- Optimization of process safety
- Targeted cooling even with deep cavities!



TENDO Slim4ax „CoolFlow“



TENDO Slim4ax „CoolFlow“ further procedure

Offer/order processing via CMS!

TENDO Slim 4ax "CoolFlow" is planned on all other interfaces rolled out and implemented (HSK-A100, BT40 and CAT40)

TENDO Slim 4ax "CoolFlow" is added to the main catalogue and included on the homepage or webshop

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