

SA Series

## MODEL HA-M-OHC

■available shanks 対応シャンク

HSK

BT

DBT

STT

ST

MT

■available functions 対応機能

compression  
縮みtension  
伸びdepth control  
定寸radial float  
調芯self-reverse  
逆転coolant  
クーラント

## ◎With an internal coolant supply from the center of the spindle

- Model HA-M-OHC (with an internal coolant supply from the back of the flange of BT shank : ISO 7388-2 form JF) is also available.
- Coolant pressure is up to 2MPa with TC-MO collets.
- Coolant pressure is up to 5MPa with TC-MO-SB collets.
- Model HA-M-OHC tappers can function in mist specifications only when used with model TC-MO-MIST collets.

## ◎センタースルークーラント対応

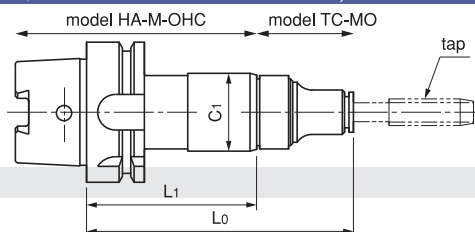
- フランジスルークーラント(-OHC)も製作可能
- TC-MO型使用でクーラント圧2MPaまで対応
- TC-MO-SB型使用でクーラント圧5MPaまで対応
- ミスト仕様にも対応可能

■combination chart  
組み合わせ表

matching collets P18 推奨コレット P18	
HA 412-M-OHC	TC 412-MO
HA1022-M-OHC	TC1022-MO
HA2035-M-OHC	TC2035-MO
HA3050-M-OHC	TC3050-MO

※TC collets can't be attached because they're not used for synchro tapping.  
※TCコレットは同期加工用でないため取り付けできません。

## model HSK-HA-M-OHC (HSK shank : ISO 12164-1, DIN 69893-1, JIS B 6064-1)



model	L0	L1	C1	capacity	weight (kg)
HSK-A 63-H-HA 412-M-OHC	120	76.5	35	M 3~M16	0.89
☆HSK-A 63-H-HA1022-M-OHC	165	100.0	50	M 8~M27	1.32
☆HSK-A 63-H-HA2035-M-OHC	210	125.0	72	M18~M38	1.98
☆HSK-A100-H-HA 412-M-OHC	135	91.5	35	M 3~M16	2.80
☆HSK-A100-H-HA1022-M-OHC	165	100.0	50	M 8~M27	3.14
☆HSK-A100-H-HA2035-M-OHC	210	125.0	72	M18~M38	4.33

※Models marked with ☆ may require a longer delivery term because they are based on per-order production.

※HSK shank with holes for manual clamping is available as a special order.

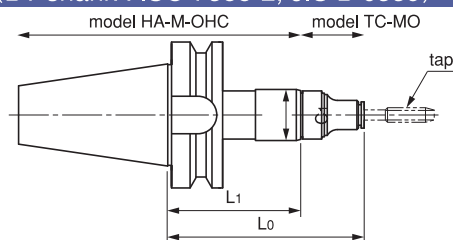
※☆の型は受注生産のため納期までに時間がかかる場合があります。ご了承下さい。

※HSKシャンクはマニュアルクランプ穴付が標準です。



HSK-A63-HA412-M-OHC  
+  
TC412-MO-SB

## model BT-HA-M-OHC (BT shank : ISO 7388-2, JIS B 6339)



model	L0	L1	C1	capacity	weight (kg)
BT30-HA 412-M-OHC	105.0	61.5	35	M 3~M16	0.53
☆BT30-HA1022-M-OHC	150.0	85.0	50	M 8~M22	1.05
BT40-HA 412-M-OHC	120.0	76.5	35	M 3~M16	1.19
BT40-HA1022-M-OHC	150.0	85.0	50	M 8~M27	1.46
BT40-HA2035-M-OHC	210.0	125.0	72	M18~M38	2.13
BT50-HA 412-M-OHC	135.0	91.5	35	M 3~M16	3.73
BT50-HA1022-M-OHC	165.0	100.0	50	M 8~M27	4.10
BT50-HA2035-M-OHC	210.0	125.0	72	M18~M38	4.92
☆BT50-HA3050-M-OHC	255.0	155.0	92	M27~M56	6.90

※Models marked with ☆ may require a longer delivery term because they are based on per-order production.

※☆の型は受注生産のため納期までに時間がかかる場合があります。ご了承下さい。

## model DBT-HA-M-OHC (DBT shank : BT shank with flange contact surface)

- Model DBT-HA-M-OHC is available with each size and based on per-order production.

●この型は受注生産にて各サイズ製作いたします。

※Model DBT-HA-M-OHC dimensions are the same as model BT-HA-M-OHC.

※DBT shanks can be combined with BBT spindles of machine tools.

※仕様寸法はBT-HA-M-OHC型と同じです。(シャンク寸法はP03を参照ください。)

※BBT仕様の工作機械主軸に使用できます。



BT40-HA412-M-OHC  
+  
TC412-MO