

internal thread machining for the **die and mold-making** industry and **difficult to machine** materials

HST SYNCHRO 40 - 025118 - KA



	AVANT H15	AVANT HVA15	AVANT TIH13	AVANT NI13
		The second se		
Model	TICN KA TICN	KA BT	TICN	TICN
Tool material	HSSE-PM	HSSE-PM	HSSE-PM	HSSE-PM
Chamfer	C / 2-3 E / 1.5-2	C / 2-3 E / 1.5-2	C / 2-3	C / 2-3
Thread type	M, MF	М	M, MF MJ, UNJC, UNJF	M MJ, UNJC, UNJF
Thread tolerance	ISO2/6H ISO3/6G	6HX	4HX, 6HX, 3BX	4HX, 6HX, 3BX
Shank tolerance	h9	h9	h6	h6

		vc m	ı/min	
Alloyed steel up to 1,250 N/mm²	10-20			
Alloyed steel from 1,000 N/mm <sup>2</sup> to 1,400 N/mm <sup>2</sup>	4-10		3-10	
Alloyed steel from 1,200 N/mm <sup>2</sup> to 1,550 N/mm <sup>2</sup>				2-4
Stainless steel		3-15		
Cast iron	10-25		15-25	
Copper alloy	15-35		10-20	
Magnesium & magnesium alloy	25-35	20-30	25-35	
Titanium and titanium alloy			2-10	
Nickel alloyed			2-3	2-3
Tungsten alloyed				2-3



	DOMINANT HZ38	DOMINANT MHST45	DOMINANT HVA45
			Canal Carlo
Model	TICN HL, KA HL	HL KA HL	BT
Tool material	HSSE-PM	HSSE-PM	HSSE-PM
Chamfer	C / 2-3 E / 1.5-2	C / 2-3 E / 1.5-2	C / 2-3 E / 1.5-2
Thread type	M, MF, UNC, UNF, G	Μ	Μ
Thread tolerance	ISO2/6H 2B	6HX	6HX
Shank tolerance	h9	h6	h9

		vc m/min	
Alloyed steel up to 1,250 N/mm <sup>2</sup>	4-10	8-12	
Alloyed steel from 1,000 N/mm <sup>2</sup> to 1,400 N/mm <sup>2</sup>	2-4	2-8	
Alloyed steel from 1,200 N/mm <sup>2</sup> to 1,550 N/mm <sup>2</sup>		2-8	
Stainless steel	6-12	8-15	3-15
Cast iron	10-15	15-25	
Copper alloy			
Magnesium & magnesium alloy			
Titanium and titanium alloy			5-12
Nickel alloyed			
Tungsten alloyed			



	VARIO SH	VARIO SH
		annum 11
Model	TICN SR	TICN SR
Tool material	HSSE-PM	VHM
Chamfer	C / 2-3	C / 2-3
Thread type	M, MF, G	М
Thread tolerance	6HX	6HX
Shank tolerance	h9	h6

	vc m/min		
Hardened steel 45-55 HRC	2-4		
Hardened steel 52-63 HRC		1-3	



	VARIANT H	VARIANT HVA	VARIANT TIH	VARIANT NI
	TARABALANA PARTY I	Internet		
Model	TICN	BT	TICN	TICN
Tool material	HSSE-PM	HSSE-PM	HSSE-PM	HSSE-PM
Chamfer	B/3-5.5	B/3-5.5	B/3-5.5	B/3-5.5
Thread type	M, MF	Μ	M, MF MJ, UNJC, UNJF	M MJ, UNJC, UNJF
Thread tolerance	ISO2/6H	6HX	4HX, 6HX, 3BX	4HX, 6HX, 3BX
Shank tolerance	h9	h9	h6	h6

	vc m/min			
Alloyed steel up to 1,250 N/mm <sup>2</sup>	10-20		10-25	
Alloyed steel from 1,000 N/mm <sup>2</sup> to 1,400 N/mm <sup>2</sup>	3-12		3-8	
Alloyed steel from 1,200 N/mm <sup>2</sup> to 1,550 N/mm <sup>2</sup>			3-10	2-4
Stainless steel		3-15		
Cast iron	10-25		15-25	
Copper alloy			10-25	
Magnesium & magnesium alloy				
Titanium and titanium alloy		5-12	2-12	
Nickel alloyed			4-8	2-3
Tungsten alloyed				2-3

For detailled information and cutting speed please refer to our application table.



	GFS N	GFD HZP	GFD SH	ZBGF SH
	The second second		100	
Model	KA KA TICN	BA KA BA	BA	LH BA
Tool material	VHM	VHM	VHM	VHM
Thread type	M, MF	M, UNC, UNF	М	M, MF
Advantage	for countersinking and thread milling of one thread size	for thread milling of one thread size up to 3×D	for thread milling of one thread size up to 3×D	for countersinking and thread milling of different thread sizes

Alloyed steel up to 1,250 N/mm <sup>2</sup>		
Alloyed steel from 1,000 N/mm <sup>2</sup> to 1,400 N/mm <sup>2</sup>		
Alloyed steel from 1,200 N/mm <sup>2</sup> to 1,550 N/mm <sup>2</sup>		
Hardened steel 48-63 HRC		
Stainless steel		
Cast iron		
Copper alloy		
Magnesium & magnesium alloy		
Titanium and titanium alloy		
Nickel alloyed		
Tungsten alloyed		

For detailled information and cutting speed please refer to our application table.

### THREAD MILLING SYSTEMS WITH INSERTS



Thread milling systems with inserts are the optimum choice for large thread dimensions.

#### BFW

- » holder with solid carbide thread milling inserts for fine threads starting with M20x1.5 and standard threads starting with M24
- » pitch 0.75 6.0 mm or 32-4 TPI
- » flank ≹ 60°/ 55°
- » applicable for all working materials, with internal coolant, with straight shank acc. DIN 1835 B

### GFK

- » thread milling head with solid carbide thread milling inserts for fine threads starting with M24x1.5 and standard threads starting with M27
- » pitch 1.5-6.0 mm or 32-4 TPI
- » applicable for all working materials, with internal coolant and tightening thread

#### AFK

- » shell milling head with solid carbide thread milling inserts for fine threads starting with M54x1.5 and standard threads starting with M60x5.5
- » pitch 0.75-6.0 mm or 16-4 TPI
- » flank & 60°/ 55°
- » applicable for all working materials, with internal coolant

### **TAP HOLDERS**

### **HST SYNCHRO**

This tap holder compensates synchronization errors between the machine and the feed spindle which in turn minimizes the high frictional forces that would otherwise have to be absorbed by the tap's thread flanks. The micro-compensation of  $\pm$  0.5 mm is ensured by a patented steel spring element which — in contrast to competitors' tap holders — guarantees a long tool life.

The HST SYNCHRO tap holder for standard applications is available with straight or HSK shank. The tapping chuck is available in different sizes and with compatible accessories.

#### The properties at one glance

- » reduction of axial forces by up to 96%
- » torque reduction before and after reversion of rotation by up to 78 %
- » tool life increase by min. 30 % through lower friction
- » better surface quality of the thread flanks
- » reduced risk of tool breakage
- » very good accuracy to gauge





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AUTOMOTIVE QUALITY

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9001

MANAGEMENT SYSTEMS

1400

MANAGEMENT SYSTEMS

50001

MANAGEMENT SYSTEMS

ENVIRONMENTAL

1

ENERGY

**6.4** 

QUALITY

VDA

ISO

IS

ISO