

# SERIES PS-TC / PS-TCV

## MILLING ELECTROSPINDLES



Electrospindles with automatic tool change for CNC. They are equipped with:


- Sensors to check the tool change operations.
- Hybrid ceramic bearings greased with permanent grease with no maintenance for average lifetime of approximately 6.000 hours of work or with minimal air-oil system for high speed.
- Motors HF with high performances, asynchronous and synchronous according to the applications, provided of thermal switch KTY 84 to protect them.
- Vector control to do the indexing shaft and the rigid tapping.
- Liquid passage through electrospindles to cool the tools.
- Internal liquid circuit to cool the motor HF and the bearings in order to guarantee stability and precision of the Electrospindle.
- Front pressurisation with air barrier and protection labyrinth.
- Arbor cleaning during tool change operations.
































### Product Technology
















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Cod	Diameter mm	Power S1 (100%) Kw	Tourque S1 (100%) Nm	Max speed- grase Rpm	Max speed- air oil Rpm	Tool Rpm Interface	Cooling	Download
TC-1-S	45	0.55	0.1	50.000	62.000	SCHAUBLIN COLLET	FORCED AIR	 <a href="#">DOWNLOAD</a> 

 [PS TC-1-S-ING  
B\\_W.pdf \(145.5](#)

Cod	Diameter mm	Power S1 (100%) Kw	Tourque S1 (100%) Nm	Max speed-grase Rpm	Max speed-oil Rpm	Tool Interface	Cooling	Download
<b>TC-1-SP</b>	60	0.93	0.2	40.000	60.000	ISO 10	LIQUID	<a href="#">KiB)</a>
								 <b>DOWNLOAD</b> 
								 <a href="#">PS TC-1-SP-ING B_W.pdf (208.1 KiB)</a>
<b>TC-1</b>	80	3	0,95	40.000	60.000	ISO 20 / HSK E-25	LIQUID	 <b>DOWNLOAD</b> 
								 <a href="#">PS TC-1-ING B_W.pdf (243.6 KiB)</a>
<b>TC-2</b>	100	7,5	2,4	30.000	46.000	ISO 25 / HSK E-32/40	LIQUID	 <b>DOWNLOAD</b> 
								 <a href="#">PS TC-2-ING B_W.pdf (231.6 KiB)</a>
<b>TC-3</b>	110	8	3,9	30.000	40.000	ISO 30 / HSK E-40	LIQUID	 <b>DOWNLOAD</b> 
								 <a href="#">PS TC-3-ING B_W.pdf (253.3 KiB)</a>
<b>TC-4</b>	120	12	5,7	30.000	40.000	ISO 30 / HSK E-40/50	LIQUID	 <b>DOWNLOAD</b> 
								

Cod	Diameter mm	Power S1 (100%) Kw	Tourque S1 (100%) Nm	Max speed- grase Rpm	Max speed- air oil Rpm	Tool Interface	Cooling	Download
<b>TCV-1</b>	140	15	15	24.000	30.000	HSK E- A/50	LIQUID	<a href="#">PS TC-4- ING B_W.pdf (297.0 KiB)</a>  <span>DOWNLOAD</span> 
								 <a href="#">PS TCV-1-ING B_W.pdf (237.1 KiB)</a>
<b>TCV-2</b>	160	10	8	30.000	40.000	HSK E-40	LIQUID	 <span>DOWNLOAD</span> 
								 <a href="#">PS TCV-2 -ING B_W.pdf (233.7 KiB)</a>
<b>TCV-3</b>	160	17	27	18.000	24.000	ISO 40 / HSK A-63	LIQUID	 <span>DOWNLOAD</span> 
								 <a href="#">PS TCV-3-ING B_W.pdf (234.9 KiB)</a>
<b>TCV-4</b>	180	22	57	15.000	18.000	ISO 40 / HSK A-63	LIQUID	 <span>DOWNLOAD</span> 
								 <a href="#">PS TCV-4 ING B_W.pdf (274.3 KiB)</a>
<b>TCV-5</b>	180	20	32	18.000	24.000	ISO 40 / HSK A-63	LIQUID	 <span>DOWNLOAD</span> 

Cod	Diameter mm	Power S1 (100%) Kw	Tourque S1 (100%) Nm	Max speed- grase Rpm	Max speed- air oil Rpm	Tool Interface	Cooling	Download
<b>TCV-6</b>	210	21	85	18.000	22.000	ISO 40 / HSK A-63	LIQUID	 <a href="#">PS-TCV-5 ING B_W.pdf (282.6 KiB)</a>  
<b>TCV-7</b>	220	26	125	14.000	18.000	ISO 40 / HSK A-63	LIQUID	 <a href="#">PS-TCV-6 ING B_W.pdf (281.3 KiB)</a>  
<b>TCV-8</b>	220	40	200	15.000	18.000	ISO 40-50 / HSK A-63/80	LIQUID	 <a href="#">PS TCV-7 ING B_W.pdf (282.7 KiB)</a>  
<b>TCV-9</b>	260	30	290	12.000	14.000	ISO 40-50 / HSK A-80/100	LIQUID	 <a href="#">PS TCV-8 ING B_W.pdf (290.5 KiB)</a>  
<b>TCV-10</b>	300	35	335	8.000	10.000	ISO 50 / HSK A-80/100	LIQUID	 <a href="#">PS TCV-9 ING B_W.pdf (286.7 KiB)</a>  

Cod	Diameter mm	Power S1 (100%) Kw	Tourque S1 (100%) Nm	Max speed- grase Rpm	Max speed- air oil Rpm	Tool Interface	Cooling	Download
<b>TCV-11</b>	380	72	1350	6.000	6.000	ISO 50 / HSK A-80/100	LIQUID	 <a href="#">PS TCV-10 ING B_W.pdf (282.7 KiB)</a>  <a href="#">PS TCV-11 ING B_W.pdf (265.1 KiB)</a>

