

Electrospindles TC-TCV Series

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Milling electrospindles with automatic tool change and integrated cooling circuit

TC series

Milling and tapping electrospindles (if equipped with encoder) with automatic air tool change

TCV series

Milling and tapping electrospindles with automatic hydraulic tool change. They are all equipped with vector control encoders. Max power of 120 Kw and torque 1250 Nm in S1.

Standard configuration

- Ceramic bearings
- L + B 1Vpp or TTL encoder
- PT 100 bearings temperature sensor
- Liquid-air-MQL rotary joint
- External coolant nozzles
- Analogue or inductive tool change control sensors

Options

- Variable bearings preload
- Vibration sensor
- Shaft expansion sensor
- Retention of the tool holder cone during the ejection phase in order to reduce tool change times
- Other tool holders on request (BIG PLUS-NIKKEN 3LOOK-CAPTO)

Type	Dimension s Ø X L (mm)	Tool	S1 power (Kw)	S1 torque (Nm)	Lubrificati on GREASE Max speed (Rpm)	Lubrificati on AIR-OIL Max speed (Rpm)	Nominal Speed (Rpm)	Motor
PSI TC-101	80 x 341	ISO/BT 20 HSK E-25/32	3,1	1	40.000	60.000	30.000	Asynchron ous
PSI TC-102	80 x 389	ISO/BT 20 HSK E-25/32	7,2	3	30.000	40.000	16.000	Synchrono us
PSI TC-103	100 x 457	ISO/BT 30 HSK A/E-40	7	3	32.000	40.000	32.000	Asynchron ous
PSI TC-104	100 x 464	ISO/BT 30 HSK A/E-32/40	6	3,8	32.000	40.000	15.000	Asynchron ous
PSI TC-105	110 x 395	ISO/BT 30 HSK A/E-40	8	4	32.000	40.000	20.000	Asynchron ous
PSI TCV-106	120 x 443	ISO/BT 30 HSK A/E-40	13	5,8	32.000	40.000	30.000	Asynchron ous
PSI TCV-107	140 x 438	ISO/BT 30 HSK A/E-40/50	20	12	32.000	40.000	17.000	Asynchron ous
PSI TCV-108	140 x 620	ISO/BT 40 HSK A/E-63	15	24	18.000	24.000	6.000	Asynchron ous
	140 x 550	ISO/BT 40	17	27	18.000	24.000	6.000	Asynchron

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PSI TCV-109	150 x 511	HSK A/E-63	12	12,5	24.000	28.000	9.000	Asynchron ous
PSI TCV-110	150 x 535	HSK A/E-63	15	24	24.000	28.000	6.000	Asynchron ous
PSI TCV-111	155 x 545	HSK A/E-40/50	18	27	18.000	20.000	6.400	Synchrono us
PSI TCV-112	160 x 628	HSK A/E-63	18	29	18.000	24.000	6.000	Asynchron ous
PSI TCV-113	160 x 648	HSK A/E-63	22	34	18.000	24.000	6.000	Asynchron ous
PSI TCV-114	160 x 570	HSK A/E 63	12	9,5	30.000	-	12.000	Asynchron ous
PSI TCV-115	170 x 551	ISO/BT 40 HSK A-63	20	19,5	20.000	30.000	10.000	Asynchron ous
PSI TCV-116	170 x 868	ISO/BT 40 HSK A-63	25	56	14.000	18.000	4.300	Synchrono us
PSI TCV-117	170 x 482	ISO/BT 40 HSK A-63	32	51	20.000	24.000	6.000	Synchrono us
PSI TCV-118	170 x 706	ISO/BT 40 HSK A-63	41	57	20.000	24.000	9.000	Asynchron ous
PSI TCV-119	170 x 553	ISO/BT 40 HSK A-63	42	22,5	20.000	30.000	18.000	Asynchron ous
PSI TCV-120	170 x 587	ISO/BT 50 HSK A-100	46	88	10.000	12.000	5.000	Synchrono us
PSI TCV-121	170 x 659	ISO/BT 40 HSK A-63	46	88	16.000	18.000	5.000	Synchrono us
PSI TCV-122	180 x 594	ISO/BT40 HSK A/E-63	17,5	32	20.000	24.000	6.000	Asynchron ous
PSI TCV-123	180 x 728	ISO 40 HSK A/E-63	22	57	18.000	24.000	3.700	Asynchron ous
PSI TCV-124		HSK A/E-63						

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PSI TCV-125	180 x 634	ISO/BT 40 20 HSK A/E-63		33	18.000	24.000	6.000	Asynchron ous
PSI TCV-126	190 x 590	HSK A 63 100		32	-	34'000	30'000	Synchrono us
PSI TCV-201	200 x 687	ISO/BT 40 32 HSK A-63		133	18.000	-	2'300	Synchrono us
PSI TCV-202	200 x 699	ISO/BT 40 56,5 HSK A-63		80	12'000	15'000	6'750	Asynchron ous
PSI TCV-203	210 x 649	HSK A 63 58		138	18'000	-	4'000	Synchrono us
PSI TCV-204	210 x 637	ISO/BT 40 26 HSK A-63		124	18'000	24'000	2'000	Asynchron ous
PSI TCV-205	210 x 638	ISO 40 21 HSK A-63		85	18'000	24'000	2'350	Asynchron ous
PSI TCV-206	220 x 637	ISO/BT 40 26 HSK A-63		124	18'000	24'000	2'000	Asynchron ous
PSI- TCV-207	220 x 844	ISO/BT 40 40 HSK A-63		202	15'000	18'000	2'000	Asynchron ous
PSI- TCV-208	220 x 900	ISO/BT 50 50 HSK A-100		210	12'000	15'000	2'200	Asynchron ous
PSI TCV-209	230 x 723	ISO/BT 40/50 HSK A-63 HSK A-100	42	200	12'000	18'000	2'000	Asynchron ous
PSI TCV-210	230 x 620	HSK A 63 120		83	-	30'000	14'000	Synchrono us
PSI TCV-211	238 x 660	ISO/BT 40/50 HSK A-63 HSK A-100	40	389	12'000	18'000	1'300	Synchrono us
PSI TCV-212	250 x 723	ISO/BT 40/50 HSK A-63/100	52	172	12'000	18'000	2'800	Asynchron ous

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PSI TCV-213	250 x 723	ISO/BT 40/50 HSK A-63 HSK A-100	42	200	12'000	18'000	2'000	Asynchron ous
PSI TCV-214	260 x 860	ISO/BT 50 20 HSK A-100	20	298	12'000	15'000	640	Asynchron ous
PSI TCV-215	260 x 790	ISO/BT 50 53 HSK A-100	53	307	8'000	10'000	1'700	Synchrono us
PSI TCV-216	270 x 840	ISO/BT 50 30 HSK A-100	30	287	12'000	15'000	1'000	Asynchron ous
PSI TCV-217	280 x 885	ISO/BT 50 74 HSK A-100	74	600	8'000	10'000	1'180	Synchrono us
PSI TCV-218	280 x 952	ISO/BT 50 60 HSK A-100	60	418	12'000	15'000	1'400	Asynchron ous
PSI TCV-219	285 x 990	ISO/BT 50 74 HSK A-100	74	600	8'000	10'000	1'180	Asynchron ous
PSI TCV-220	290 x 924	ISO/BT 50 24 HSK A-100	24	467	10'000	12'000	500	Asynchron ous
PSI TCV-301	300 x 900	ISO/BT 50 36 HSK A-100	36	340	12'000	15'000	1'600	Asynchron ous
PSI TCV-302	300 x 912	ISO/BT 50 60 HSK A-100	60	420	10'000	12'000	1'400	Asynchron ous
PSI TCV-303	300 x 947	ISO/BT 50 30 HSK A-100	30	467	12'000	15'000	600	Asynchron ous
PSI TCV-304	300 x 810	ISO/BT 50 89 HSK A-100	89	849	3'500	5'000	1'000	Synchrono us
PSI TCV-305	310 x 980	ISO/BT 50 61 HSK A-10 0/125/160	61	1137	6'000	8'000	514	Synchrono us
PSI TCV-306	315 x 965	ISO/BT 50 63,5 HSK A-10 0/125/160	63,5	1243	6'000	8'000	1000	Synchrono us
PSI TCV-307	320 x 690	ISO/BT 50 36 HSK A-100	36	340	10'000	12'000	2'000	Asynchron ous

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PSI TCV-308	352 x 1073	ISO/BT 50/60 HSK A-100 HSK A-125	60	770	8'000	10'000	1'100	Asynchron ous