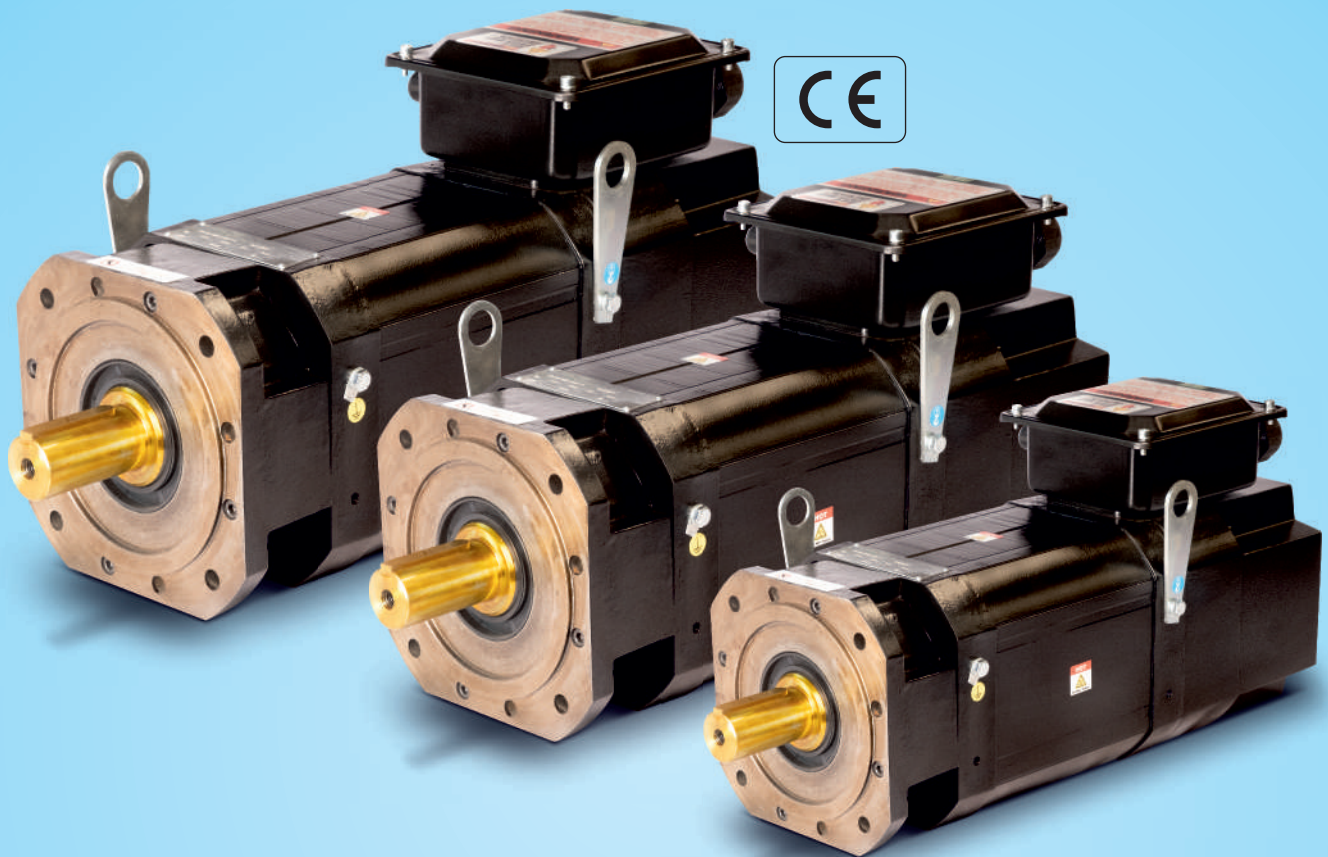


Synchronous AC Servo Motors



For cyclic applications demanding accurate positioning

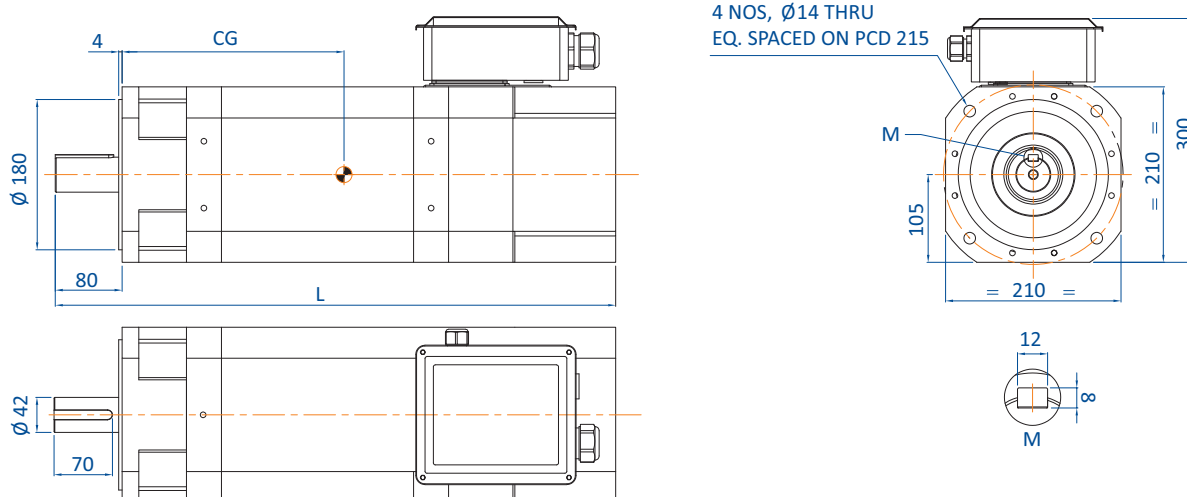
Torque Ratings : 50Nm to 280Nm | Power Ratings : 13kW to 58kW | Maximum Speed: 3200rpm

SynchroTorq® | Servo Series

SYNCHRONOUS AC SERVO MOTORS

SMALL AND MEDIUM POWER SERVO MOTOR

TECHNICAL SPECIFICATIONS								
Parameter	Unit	STS-050-2500-215B-F	STS-070-2500-215B-F	STS-090-2500-215B-F	STS-115-2500-215B-F	STS-125-2500-215B-F	STS-132-1000-215B-F	STS-050-0750-215B-N
Rated Speed (n_N)	rpm	2500	2500	2500	2500	2500	1000	750
Rated Torque (M_N)	Nm	50	70	90	115	125	132	50
Rated Power (P_N)	kW	13.09	18.32	23.56	30.1	32.72	13.82	3.93
Frequency (f)	Hz	125	125	125	125	125	50	50
Rated Current (I_N)	A	27	38	50	64	62	27.8	8
Rated Operating Voltage (V_{rms})	V	360	370	370	375	380	370	370
Torque Constant (K_{tN})	Nm/A	1.85	1.84	1.94	1.80	2.01	4.75	6.25
Back EMF Constant ($V_s/1000$)	V/rpm	128	125	122	122	134	307	426
Max. Torque (M_{MAX})	Nm	105	165	208	245	268	212	75
Current at Max Torque (I_{MAX})	A	62	94	118	150	144	48.1	12
Max Speed (n_{MAX})	rpm	3200	3200	3200	3200	3200	1450	950
Moment of Inertia (J)	10^{-3} kgm^2	11.39	14.21	16.6	19.83	22.6	19.83	13.3
Weight	Kg	73	80	90	97	105	97	62
















All dimensions in mm

Model	STS-050-2500-215B-F	STS-070-2500-215B-F	STS-092-2500-215B-F	STS-115-2500-215B-F	STS-125-2500-215B-F	STS-132-1000-215B-F	STS-050-0750-215B-N
L	565	605	640	673	715	675	565
CG	179	199	216	233	253	233	179

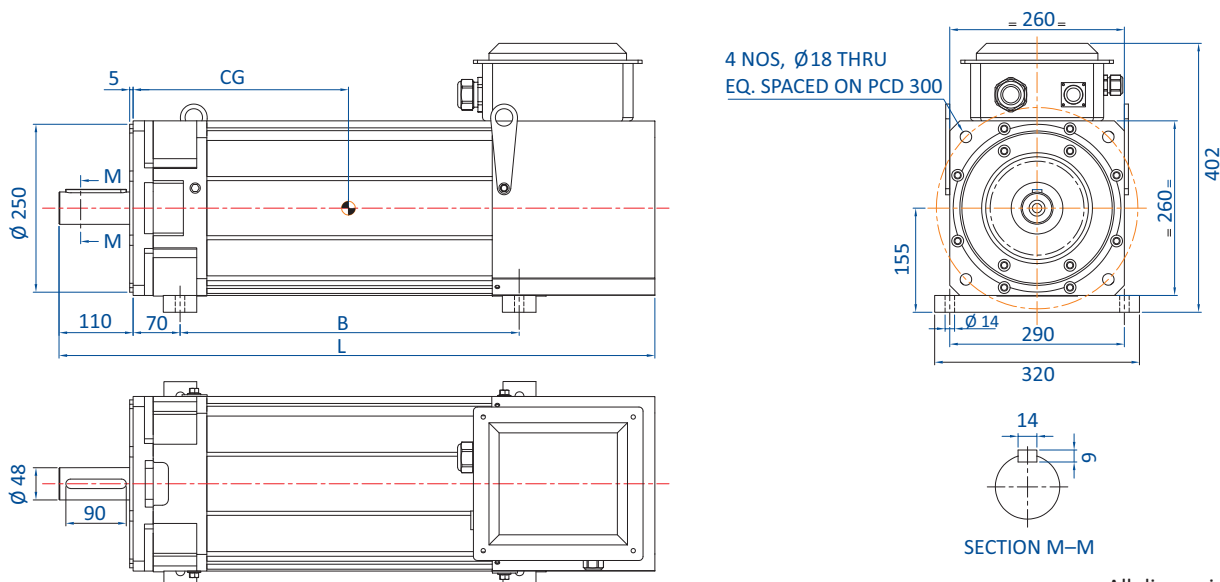
Note: • Colour: Black RAL9005 • Feedback: Resolver (2 pole 1024PPR)

FEATURES

-  Ambient temperature: 45°C
-  Feedback: encoder or resolver
-  Thermal sensors: KTY and PTC
-  Integrated with KEB drives: functional safety and auto-tuning features
-  Insulation class: H
-  Protection type: IP54 (optional: IP55 or IP65)
-  Cooling: 1 \varnothing 230V fan with high CFM
-  Bearings with high temperature grease
-  Superior grade permanent magnets with excellent thermal characteristics
-  Shaft, mounting and connector options
-  Customisation for special load characteristics
-  Sturdy laminated-yoke design
-  Certifications: CE

HIGH POWER SERVO MOTOR














TECHNICAL SPECIFICATIONS										
Parameter	Unit	STS-140-1500-300B-F	STS-190-1500-300B-F	STS-180-2000-300B-F	STS-200-2000-300B-F	STS-230-2000-300B-F	STS-280-2000-300B-F	STS-135-2500-300B-F	STS-170-2500-300B-F	STS-220-2500-300B-F
Rated Speed (n_N)	rpm	1500	1500	2000	2000	2000	2000	2500	2500	2500
Rated Torque (M_N)	Nm	140	190	180	200	230	240	135	170	220
Rated Power (P_N)	kW	22	29.8	37.7	41.9	48.2	58	35.3	44.5	57.6
Frequency (f)	Hz	100	100	133	133	133	133	167	167	167
Rated Current (I_N)	A	48	66	80	86	99	120	69	83	117
Rated Operating Voltage (V_{rms})	V	400	400	395	420	420	410	400	410	395
Torque Constant (K_t)	Nm/A	2.92	2.88	2.25	2.33	2.32	2	1.96	2.05	1.88
Back EMF Constant ($V_s/1000$)	V/rpm	192	190	145	150	150	148	127	132	122
Max. Torque (M_{MAX})	Nm	200	260	230	240	300	320	210	228	300
Current at Max Torque (I_{MAX})	A	70	85	100	100	128	140	110	112.1	160
Max Speed (n_{MAX})	rpm	2000	200	2500	2500	2500	2500	3200	3200	3200
Moment of Inertia (J)	10^{-3} kgm^2	28.2	33.5	32	33.5	38.5	42	28.2	33.5	42
Weight	Kg	123	145	135	145	155	170	123	145	170



All dimensions in mm

Model	STS-140-1500-300B-F	STS-190-1500-300B-F	STS-180-2000-300B-F	STS-200-2000-300B-F	STS-230-2000-300B-F	STS-280-2000-300B-F	STS-135-2500-300B-F	STS-170-2500-300B-F	STS-220-2500-300B-F
L	725	790	775	790	840	890	725	790	890
B	340	405	390	405	455	505	340	405	505
CG	238	270	262	270	295	320	238	270	320

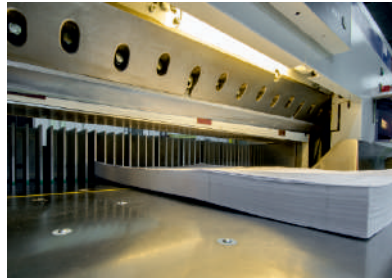
FEATURES

-  Ambient temperature: 45°C
-  Feedback: encoder or resolver
-  Thermal sensors: KTY and PTC
-  Integrated with KEB drives: functional safety and auto-tuning features
-  Insulation class: H
-  Protection type: IP54 (optional: IP55 or IP65)
-  Cooling: 1Ø 230V fan with high CFM
-  Bearings with high temperature grease
-  Superior grade permanent magnets with excellent thermal characteristics
-  Shaft, mounting and connector options
-  Customisation for special load characteristics
-  Sturdy laminated-yoke design
-  Certifications: CE

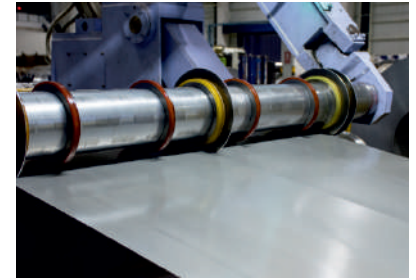
APPLICATION EXPERTISE



High speed block-type wire drawing machine



High speed CTL for corrugated board and paper cutting machine



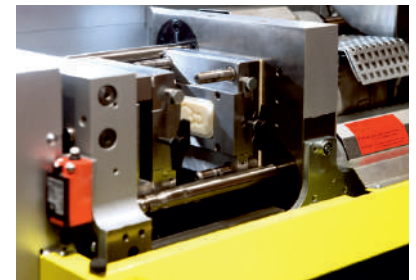
Continuous shear control for CTL in rolling mill



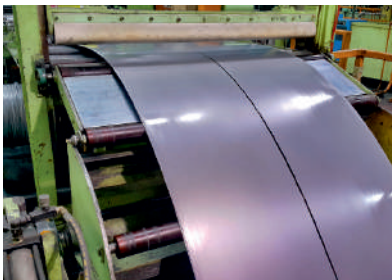
Textile machinery



Pipe cutting machine



Plastics machinery for gear pump and all electric IMM



Slitter for steel



Hydraulic press and pressure die casting machine



Pitch & yaw control for wind turbine

SERVO MOTOR MANUFACTURING SETUP



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