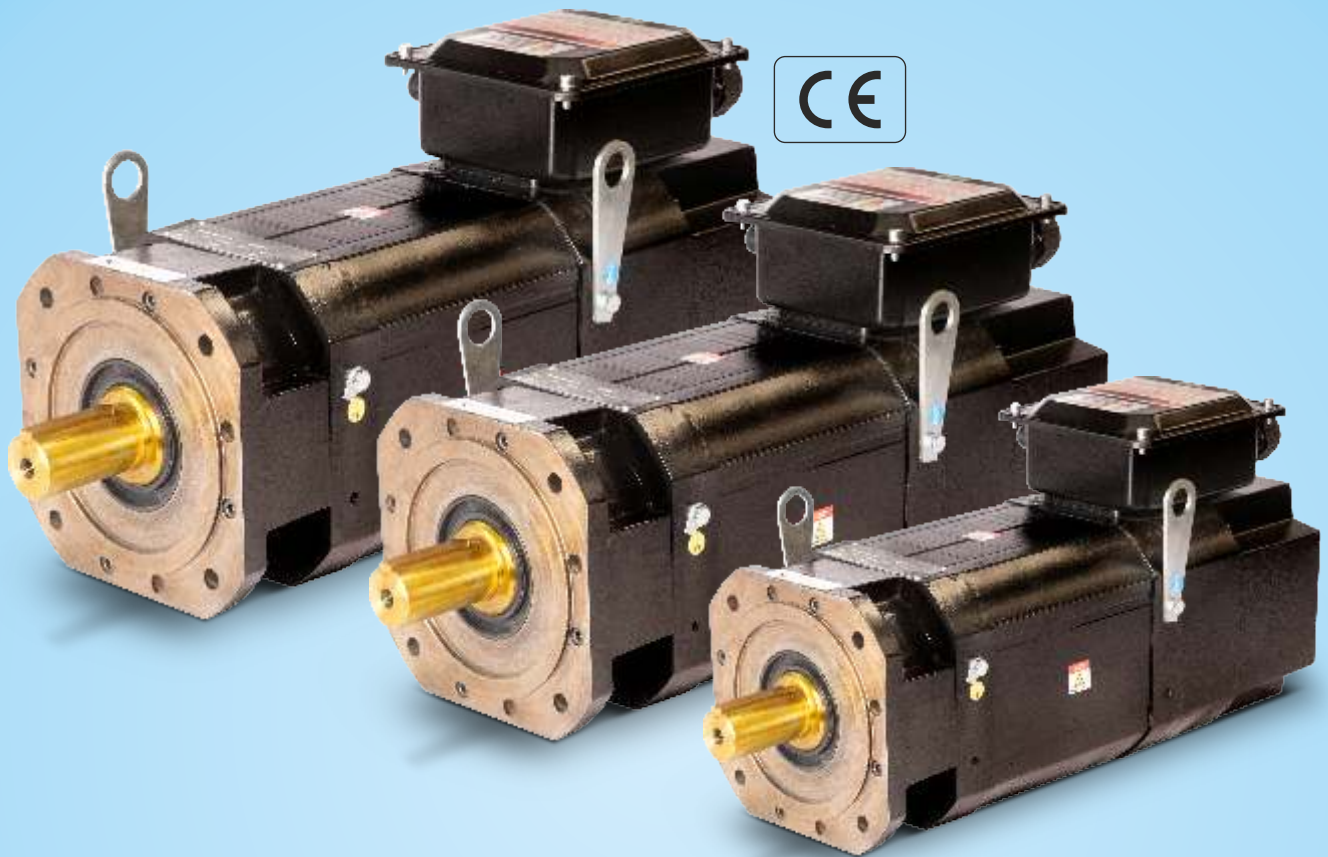


Synchronous AC Servo Motors



For cyclic applications demanding accurate positioning

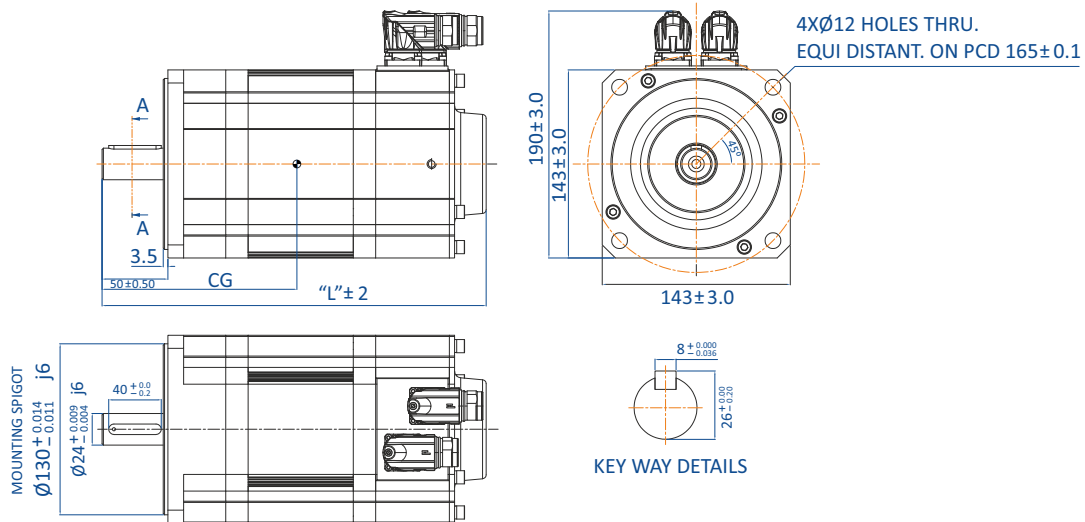
Torque Ratings : 15Nm to 280Nm | Power Ratings : 2.5kW to 58kW | Maximum Speed: 3200rpm

SynchroTorq® | Servo Series

SYNCHRONOUS AC SERVO MOTORS

SMALL AND MEDIUM POWER SERVO MOTOR

TECHNICAL SPECIFICATIONS LSR				
Parameter	Unit	STS-016-1500-130B-F	STS-023-1500-130B-F	STS-030-1350-130B-F
Rated Speed (n_N)	rpm	1500	1500	1350
Rated Torque (M_N)	Nm	16	23	30
Rated Power (P_N)	kW	2.51	3.61	4.24
Frequency (f)	Hz	100	100	90
Rated Current (I_N)	A	5.6	8.5	9.68
Rated Operating Voltage (V_{rms})	V	400	400	400
Torque Constant (K_{tN})	Nm/A	2.86	2.70	3.10
Back EMF Constant ($V_s/1000$)	V/rpm	190	193	188.21
Max. Torque (M_{MAX})	Nm	25	49	70
Current at Max Torque (I_{MAX})	A	9	18	23
Max Speed (n_{MAX})	rpm	2000	2000	2000
Moment of Inertia (J)	10^{-4} kgm ²	15	22.5	35.3
Weight	Kg	15	20	25



All dimensions in mm

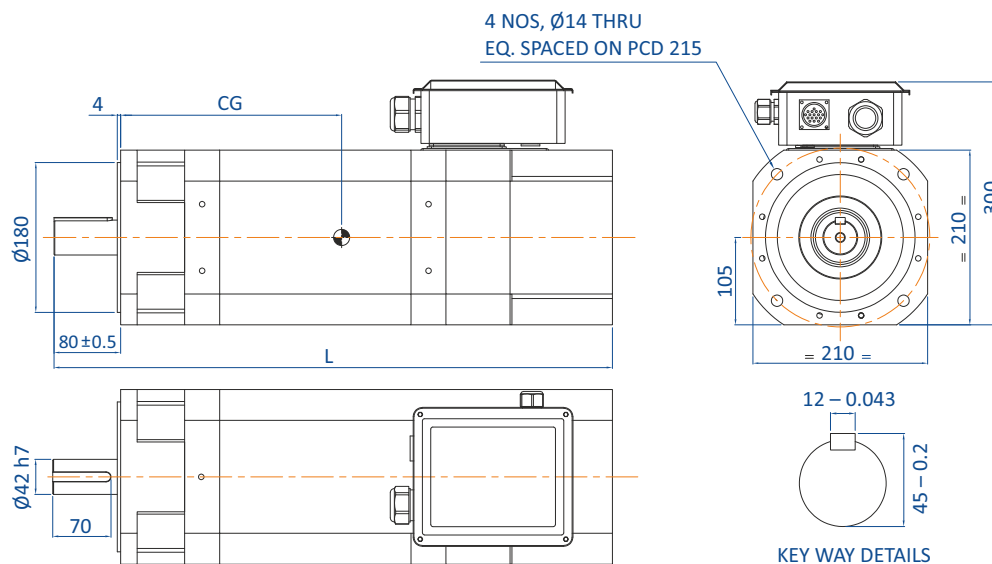
Model	STS-016-1500-130B-F	STS-023-1500-130B-F	STS-030-1350-130B-F
L	292	332	372
CG	125	146	168

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: IP65 (optional: IP67)
- Cooling: Natural
- 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

SMALL AND MEDIUM POWER SERVO MOTOR

TECHNICAL SPECIFICATIONS SR17					
Parameter	Unit	STS-50-1700-215B-F	STS-75-1700-215B-F	STS-95-1700-215B-F	STS-115-1700-215B-F
Rated Speed (n_N)	rpm	1700	1700	1700	1700
Rated Torque (M_N)	Nm	50	75	95	115
Rated Power (P_N)	kW	8.90	13.35	16.91	20.47
Frequency (f)	Hz	85	85	85	85
Rated Current (I_N)	A	20.5	29.5	35.8	47
Rated Operating Voltage (V_{rms})	V	400	400	400	400
Torque Constant (K_{tN})	Nm/A	2.44	2.54	2.65	2.44
Back EMF Constant ($V_s/1000$)	V/rpm	163	170	178	169
Max. Torque (M_{MAX})	Nm	80	115	160	190
Current at Max Torque (I_{MAX})	A	33	45	60	78
Max Speed (n_{MAX})	rpm	2000	2000	2000	2000
Moment of Inertia (J)	10^{-4} kgm ²	119.1	142.0	187.0	209.9
Weight	Kg	49	59	73	83



All dimensions in mm

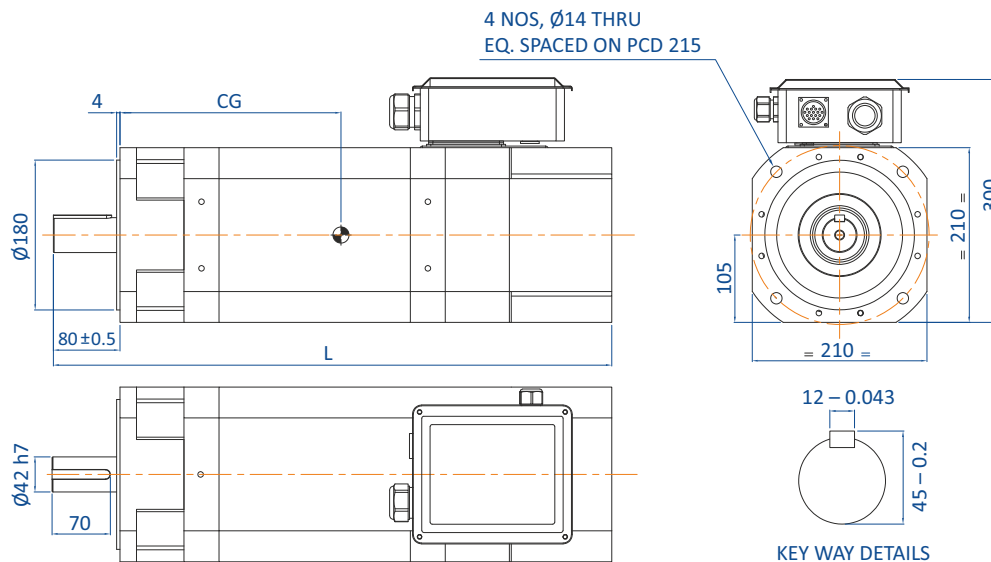
Model	STS-50-1700-215B-F	STS-75-1700-215B-F	STS-95-1700-215B-F	STS-115-1700-215B-F
L	545	580	638	673
CG	263	280	308	325

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: IP65 (optional: IP67)
- 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

SMALL AND MEDIUM POWER SERVO MOTOR

TECHNICAL SPECIFICATIONS SR20							
Parameter	Unit	STS-050-2000-215B-F	STS-075-2000-215B-F	STS-085-2000-215B-F	STS-95-2000-215B-F	STS-115-2000-215B-F	STS-125-2000-215B-F
Rated Speed (n_N)	rpm	2000	2000	2000	2000	2000	2000
Rated Torque (M_N)	Nm	50	75	85	95	115	125
Rated Power (P_N)	kW	10.47	15.70	17.80	19.89	24.08	26.17
Frequency (f)	Hz	100	100	100	100	100	100
Rated Current (I_N)	A	24	36.5	40	41	52	56
Rated Operating Voltage (V_{rms})	V	400	400	400	400	400	400
Torque Constant (K_{tN})	Nm/A	2.08	2.05	2.12	2.31	2.21	2.23
Back EMF Constant ($V_s/1000$)	V/rpm	146	142	145	150	147	148
Max. Torque (M_{MAX})	Nm	95	135	165	185	225	245
Current at Max Torque (I_{MAX})	A	46	66	78	80	102	110
Max Speed (n_{MAX})	rpm	2500	2500	2500	2500	2500	2500
Moment of Inertia (J)	10^{-4} kgm ²	119.1	142.0	164.5	187.0	209.9	233.1
Weight	Kg	49	59	66	73	83	92



All dimensions in mm

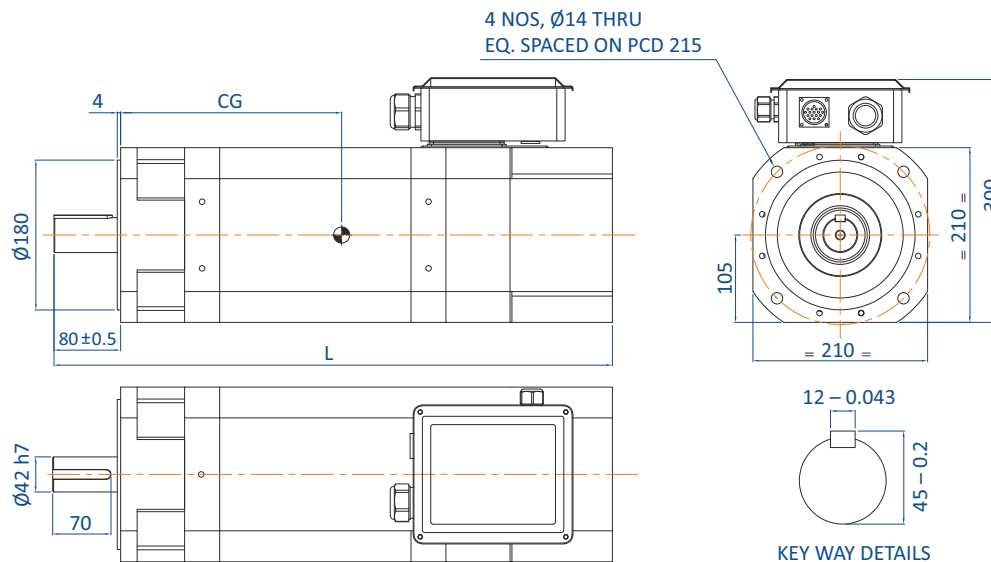
Model	STS-050-2000-215B-F	STS-075-2000-215B-F	STS-085-2000-215B-F	STS-95-2000-215B-F	STS-115-2000-215B-F	STS-125-2000-215B-F
L	545	580	608	638	673	713
CG	263	280	293	308	325	345

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: IP65 (optional: IP67)
- 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

SMALL AND MEDIUM POWER SERVO MOTOR

TECHNICAL SPECIFICATIONS SR25												
Parameter	Unit	STS-034-2500-215B-F	STS-050-2500-215B-F	STS-070-2500-215B-F	STS-090-2500-215B-F	STS-092-2500-215B-F	STS-095-2500-215B-F	STS-115-2500-215B-F	STS-125-2500-215B-F	STS-132-1000-215B-F	STS-050-0750-215B-N	STS-120-0750-215B-F
Rated Speed (n_N)	rpm	2500	2500	2500	2500	2500	2500	2500	2500	1000	750	750
Rated Torque (M_N)	Nm	34	50	70	90	92	95	115	125	132	50	120
Rated Power (P_N)	kW	8.9	13.08	18.32	23.56	24.08	24.86	30.1	32.72	13.82	3.92	9.42
Frequency (f)	Hz	125	125	125	125	125	125	125	125	50	37.5	37.5
Rated Current (I_N)	A	18.5	27	39	50	47.5	52	64	64	27.8	8	25
Rated Operating Voltage (V_{rms})	V	400	400	400	400	400	400	400	400	400	400	400
Torque Constant (K_{tN})	Nm/A	1.83	1.85	1.79	1.8	1.93	1.82	1.79	1.95	4.74	6.25	4.8
Back EMF Constant ($V_s/1000$)	V/rpm	127	128	125	122	131	129	121	134	307	430	334
Max. Torque (M_{MAX})	Nm	60	110	165	208	208	210	245	250	212	75	240
Current at Max Torque (I_{MAX})	A	33	60	92	116	108	116	137	128	45	12	50
Max Speed (n_{MAX})	rpm	3200	3200	3200	3200	3200	3200	3200	3200	1450	950	1000
Moment of Inertia (J)	10^{-4} kgm^2	86.1	113.9	142.1	166	166	209.9	209.9	226	209.9	119.1	187
Weight	Kg	47	56	65	75	75	85	85	93	83	49	75



All dimensions in mm

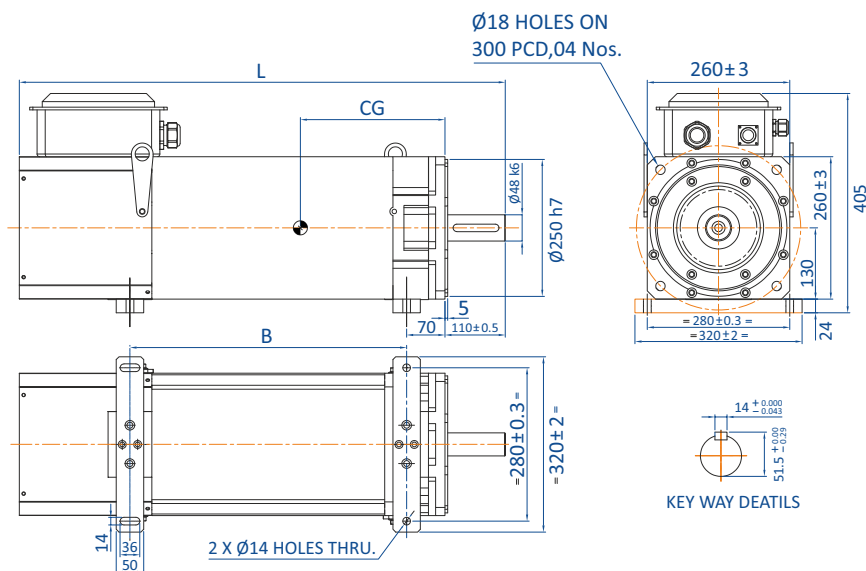
Model	STS-034-2500-215B-F	STS-050-2500-215B-F	STS-070-2500-215B-F	STS-090-2500-215B-F	STS-092-2500-215B-F	STS-095-2500-215B-F	STS-115-2500-215B-F	STS-125-2500-215B-F	STS-132-1000-215B-F	STS-050-0750-215B-N	STS-120-0750-215B-F
L	522	561	600	638	638	673	673	713	673	561	638
CG	173	191	210	228	228	245	245	265	245	191	228

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: IP65 (optional: IP67)
- 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

HIGH POWER SERVO MOTOR

TECHNICAL SPECIFICATIONS HSR											
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-210-2500-300B-F	STS-220-2500-300B-F
Rated Speed (n_N)	rpm	1500	1500	2000	2000	2000	2000	2500	2500	2500	2500
Rated Torque (M_N)	Nm	140	190	180	200	230	280	135	170	210	220
Rated Power (P_N)	kW	21.98	29.84	37.69	41.88	48.16	58.63	35.34	44.50	54.97	57.59
Frequency (f)	Hz	100	100	133.3	133.3	133.3	133.3	166.7	166.7	166.7	166.7
Rated Current (I_N)	A	48	66	80	86	99	125	66.5	83	116.5	117
Rated Operating Voltage (V_{rms})	V	400	400	400	400	400	400	400	400	400	400
Torque Constant (K_{tN})	Nm/A	2.91	2.87	2.25	2.32	2.32	2.24	2.03	2.04	1.80	1.88
Back EMF Constant ($V_s/1000$)	V/rpm	196	195	150	150	146	146	130	132	116	122
Max. Torque (M_{MAX})	Nm	200	260	230	240	300	320	210	228	340	350
Current at Max Torque (I_{MAX})	A	69	90	102	103	129	140	105	112	189	186
Max Speed (n_{MAX})	rpm	2000	2000	2500	2500	2500	2500	3200	3200	2800	3200
Moment of Inertia (J)	10^{-4} kgm^2	282.1	335.2	320	335	377.4	420	282.1	335.2	377.4	420
Weight	Kg	117	136	132	136	156	169	117	136	156	169



All dimensions in mm

Model	STS-140-1500-300B-F-O	STS-190-1500-300B-F-O	STS-180-2000-300B-F-O	STS-200-2000-300B-F-O	STS-230-2000-300B-F-O	STS-280-2000-300B-F-O	STS-135-2500-300B-F-O	STS-170-2500-300B-F-O	STS-210-2500-300B-F	STS-220-2500-300B-F-O
L	725	790	775	790	840	890	725	790	840	890
B	340	405	390	405	455	505	340	405	455	505
CG	238	270	262	270	295	320	238	270	295	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: IP65 (optional: IP67)
- Cooling: 1Ø / 3Ø 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



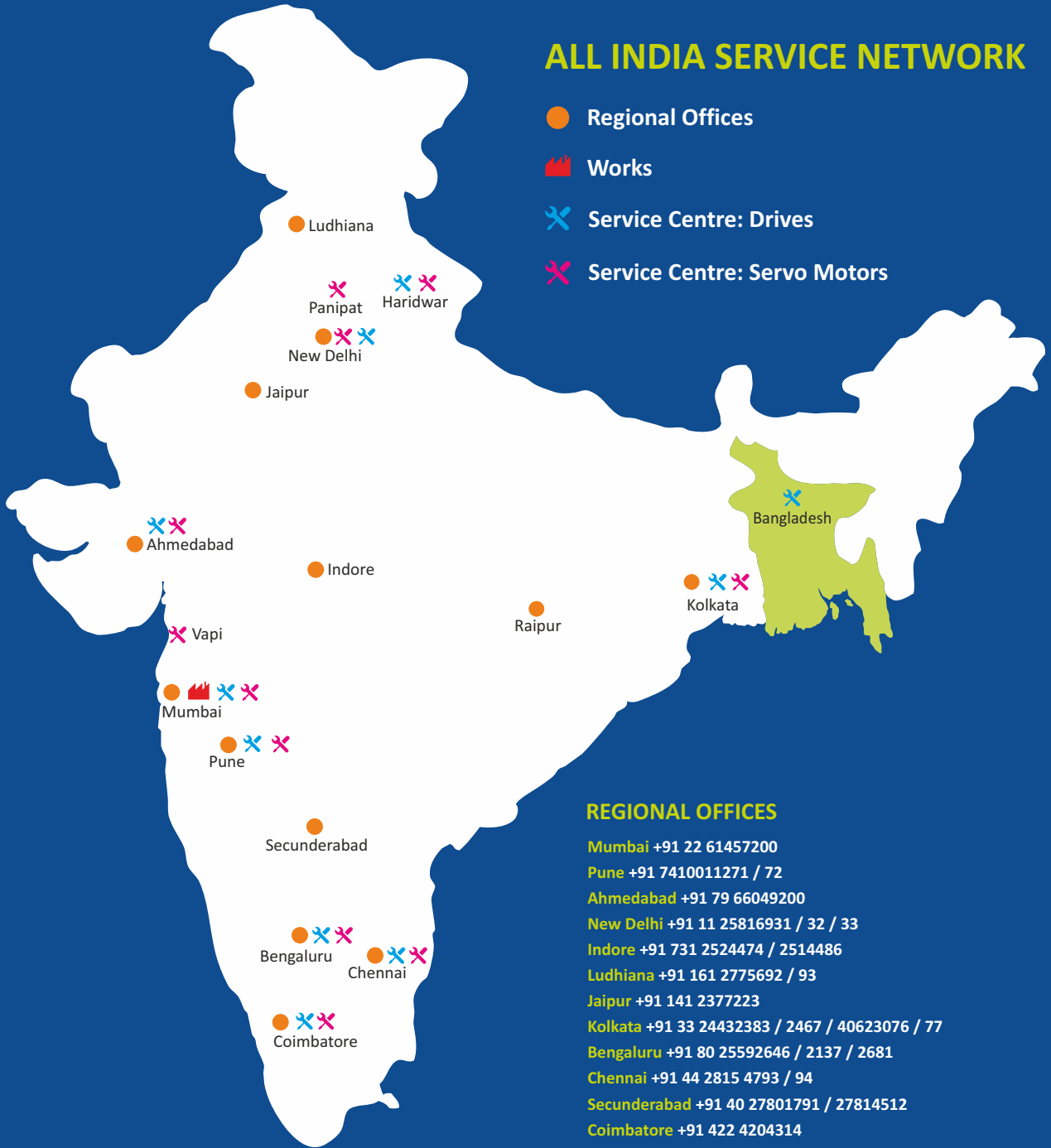
Pitch & yaw control for wind turbine

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