

# Your Maintenance in **Safe Hands**



Wind Turbine  
**Spare Parts**



# Regular Maintenance

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#### **Exemptions**

*This brochure only shows a selection of our spare parts.*

*The part numbers shown in this brochure are intended for specific versions of Hydratech hydraulic assemblies for wind turbines (the B-numbers listed indicate one specific assembly version).*

*It is the responsibility of the user to ensure, that parts mounted are specifically intended for the individual specific version of assemblies.*

*Hydratech is not responsible for parts being used in any other application or with any other purpose than originally intended according to documentation engineered and supplied by Hydratech Industries Wind Power.*

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Wind Turbine  
Spares

# Spare Parts for Wind Turbines

## 3.6 MW

HWP Part No.	Description	Part of:	Assembly part no:	HWP Part No.	Description	Part of:	Assembly part no:
109913	El motor, 3 phase, 400-690V	Pitch pump unit 3.6MW	B3252	175400	Gear pump group 1	HS Brake unit 3.6MW	B3255
124700	Acc. piston >6,0-10L	Pitch pump unit 3.6MW	B3252	1005217	Hand pump	HS Brake unit 3.6MW	B3255
319830	Internal gear pump, single	Pitch pump unit 3.6MW	B3252	200100	Bellhouse Gearpump Grp.1	HS Brake unit 3.6MW	B3255
109913	El motor, 3 phase, 400-690V	Pitch pump unit 3.6MW Mrk.II	B3755	B3802S	Manifold complete	HS Brake unit 3.6MW	B3999
124700	Acc. piston >6,0-10L	Pitch pump unit 3.6MW Mrk.II	B3755	634202	Pres.transmitter 0-100 bar DIN	for manifold	B3999
319830	Internal gear pump, single	Pitch pump unit 3.6MW Mrk.II	B3755	107310	El motor, 3 phase, 400-690V	HS brake 3.6MW	B3999
634210	Pres.transmitter 0-400 bar DIN	Block for pump station 3.6 MW B3585	B3755	124280	Acc. piston >0,0-0,5L	HS brake 3.6MW	B3999
109913	El motor, 3 phase, 400-690V	Pitch pump unit 3.6MW Double pump version	B4000	175400	Gear pump group 1	HS brake 3.6MW	B3999
124700	Acc. piston >6,0-10L	Pitch pump unit 3.6MW Double pump version	B4000	1005217	Hand pump	HS brake 3.6MW	B3999
1005452	Internal gear pump, double	Pitch pump unit 3.6MW Double pump version	B4000	200100	Bellhouse Gearpump Grp.1	HS brake 3.6MW	B3999
634210	Pres.transmitter 0-400 bar DIN	Manifold assembly B4015 for Pitch pump unit 3.6MW	B4000	124366	Acc. piston >4,0-6,0L	3.6MW yaw brake	B3251
108108	El motor, 3 phase, 400-690V	Hatch unit 3.6MW	B3250	168171	Bellhouse Gearpump Grp.1	3.6MW yaw brake	B3251
1005217	Hand pump	Hatch unit 3.6MW	B3250	560005	Gear pump group 1	3.6MW yaw brake	B3251
241440	Gear pump group 1	Hatch unit 3.6MW	B3250	1005277	El motor, 3 phase, 400-690V	3.6MW yaw brake	B3251
1005081	El motor, 3 phase, 400-690V	Hatch unit 3.6 MW Quick coupling	B3926	241378	Hand pump	Manifold for yaw brake 3.6MW B3801	B3251
1005217	Hand pump	Hatch unit 3.6 MW Quick coupling	B3926	634210	Pres.transmitter 0-400 bar DIN	Manifold for yaw brake 3.6MW B3801	B3251
241440	Gear pump group 1	Hatch unit 3.6 MW Quick coupling	B3926	124366	Acc. piston >4,0-6,0L	3.6MW yaw brake, 120m	B4346
B3802S	Manifold complete	HS Brake unit 3.6MW	B3255	168171	Bellhouse Gearpump Grp.1	3.6MW yaw brake, 120m	B4346
634202	Pres.transmitter 0-100 bar DIN	for manifold	B3255	1006360	El motor, 3 phase, 400-690V	3.6MW yaw brake, 120m	B4346
107310	El motor, 3 phase, 400-690V	HS Brake unit 3.6MW	B3255	1001590	Gear pump group 1	3.6MW yaw brake, 120m	B4346
124280	Acc. piston >0,0-0,5L	HS Brake unit 3.6MW	B3255	241378	Hand pump	3.6MW yaw brake Manifold assembly B3801	B4346
				634210	Pres.transmitter 0-400 bar DIN	3.6MW yaw brake Manifold assembly B3801	B4346

## 3.0 MW

HWP Part No.	Description	Part of:	Assembly part no:
1000258	Internal gear pump, single	Pitch pump unit 3.0MW	B4130
1000448	El motor, 3 phase, 400-690V	Pitch pump unit 3.0MW	B4130
168900	Bellhouse Gearpump Grp.1	Pitch pump unit 3.0MW	B4130
1001029	Acc. piston >6,0-10L	Pitch pump unit 3.0MW	B4130
124366	Acc. piston >4,0-6,0L	Pitch pump unit 3.0MW	B4130
634210	Pres.transmitter 0-400 bar DIN	For Pitch pump manifold B4129	B4130
168900	Bellhouse Gearpump Grp.1	3.0 MW 50Hz Power Pack straight tank	B4296
1000258	Internal gear pump, single	3.0 MW 50Hz Power Pack straight tank	B4296
1005201	El motor, 3 phase, 400-690V	3.0 MW 50Hz Power Pack straight tank	B4296
1001029	Acc. piston >6,0-10L	3.0 MW 50Hz Power Pack straight tank	B4296
1002127	Acc. piston >4,0-6,0L	3.0 MW 50Hz Power Pack straight tank	B4296
634210	Pres.transmitter 0-400 bar DIN	For B4298 Manifold 3.0 MW Pitch and Brake	B4296
168900	Bellhouse Gearpump Grp.1	3.0 MW 60Hz Power Pack Pitch /LS br.	B4248
1005201	El motor, 3 phase, 400-690V	3.0 MW 60Hz Power Pack Pitch /LS br.	B4248
1001029	Acc. piston >6,0-10L	3.0 MW 60Hz Power Pack Pitch /LS br.	B4248
1002127	Acc. piston >4,0-6,0L	3.0 MW 60Hz Power Pack Pitch /LS br.	B4248
1002550	Internal gear pump	3.0 MW 60Hz Power Pack Pitch /LS br.	B4248
634210	Pres.transmitter 0-400 bar DIN	For B4298 Manifold 3.0 MW Pitch and Brake	B4248
1002142	Hand pump	For B4298 Manifold 3.0 MW Pitch and Brake	B4248

## 4.0 MW

HWP Part No.	Description	Part of:	Assembly part no:
124365	Acc. piston >4,0-6,0L	4.0MW Block/Accu.asm.	B4531
1001029	Acc. piston >6,0-10L	4.0MW Block/Accu.asm.	B4531
124280	Acc. piston >0,0-0,5L	4.0MW Pitchpump unit manifold assembly B4505	B4531
634202	Pres.transmitter 0-100 bar DIN	4.0MW Pitchpump unit manifold assembly B4505	B4531
634210	Pres.transmitter 0-400 bar DIN	4.0MW Pitchpump unit manifold assembly B4505	B4531
1006352	El motor, 3 phase, 400-690V	HWP Hydraulic power pack 4.0MW tank wall mount.	B4532
1005858	Internal gear pump, double	HWP Hydraulic power pack 4.0MW tank wall mount.	B4532

**Please note:** This is only a small selection of Hydratech Industries entire spare part portfolio.

# Spare Parts for Wind Turbines

## 2.3 MW VS

HWP Part No.	Description	Part of:	Assembly part no:
168900	Bellhouse Gearpump Grp.1	Pitch pump unit 2,3MW w/Pump and Brake manifold	B3735
1000258	Internal gear pump, single	Pitch pump unit 2,3MW w/Pump and Brake manifold	B3735
1000408	Acc. piston >4,0-6,0L	Pitch pump unit 2,3MW w/Pump and Brake manifold	B3735
1000448	El motor, 3 phase, 400-690V	Pitch pump unit 2,3MW w/Pump and Brake manifold	B3735
1000768	Acc. piston >10-15L	Pitch pump unit 2,3MW w/Pump and Brake manifold	B3735
634202	Pres.transmitter 0-100 bar DIN	For B4637 2,3MW Pitch pump manifold	B3735
168900	Bellhouse Gearpump Grp.1	2.3 MW Mk3 AE Power Pack arctic	B4353
1000258	Internal gear pump, single	2.3 MW Mk3 AE Power Pack arctic	B4353
1000448	El motor, 3 phase, 400-690V	2.3 MW Mk3 AE Power Pack arctic	B4353
1002128	Acc. piston >4,0-6,0L	2.3 MW Mk3 AE Power Pack arctic	B4353
1002558	Acc. piston >10-15L	2.3 MW Mk3 AE Power Pack arctic	B4353
634202	Pres.transmitter 0-100 bar DIN	For B4638 2,3MW Pitch pump manifold	B4353
168900	Bellhouse Gearpump Grp.1	2.3 MW Mk3 60 Hz AE Power Pack	B4352
1000408	Acc. piston >4,0-6,0L	2.3 MW Mk3 60 Hz AE Power Pack	B4352
1000448	El motor, 3 phase, 400-690V	2.3 MW Mk3 60 Hz AE Power Pack	B4352
1000768	Acc. piston >10-15L	2.3 MW Mk3 60 Hz AE Power Pack	B4352
1002550	Internal gear pump	2.3 MW Mk3 60 Hz AE Power Pack	B4352
634202	Pres.transmitter 0-100 bar DIN	For B4637 2,3MW Pitch pump manifold	B4352
1001496	Acc. piston >0,0-0,5L	For B4637 2,3MW Pitch pump manifold	B4352
168900	Bellhouse Gearpump Grp.1	2.3 MW Mk3 60 Hz arctic	B4354
1000448	El motor, 3 phase, 400-690V	2.3 MW Mk3 60 Hz arctic	B4354
1002128	Acc. piston >4,0-6,0L	2.3 MW Mk3 60 Hz arctic	B4354
1002550	Internal gear pump	2.3 MW Mk3 60 Hz arctic	B4354
1002558	Acc. piston >10-15L	2.3 MW Mk3 60 Hz arctic	B4354
634202	Pres.transmitter 0-100 bar DIN	For B4638 2.3 MW Pitch pump manifold	B4354
1002560	Acc. piston >0,0-0,5L	For B4638 2.3 MW Pitch pump manifold	B4354

## 6.0 MW

HWP Part No.	Description	Part of:	Assembly part no:
168171	Bellhouse Gearpump Grp.1	6.0 MW Power Pack	B4765
168900	Bellhouse Gearpump Grp.1	6.0 MW Power Pack	B4765
1000258	Internal gear pump, single (x2)	6.0 MW Power Pack	B4765
1001029	Acc. piston >6,0-10L	6.0 MW Power Pack	B4765
1001590	Gear pump group 1	6.0 MW Power Pack	B4765
1002051	Heat Exchanger	6.0 MW Power Pack	B4765
1006360	El motor, 3 phase, 400-690V	6.0 MW Power Pack	B4765
1005878	Internal gear pump, double	6.0 MW Power Pack	B4765
1006055	Acc. piston >15-20L	6.0 MW Power Pack	B4765
634210	Pres.transmitter 0-400 bar DIN	For Manifold assembly B4785	B4765
1002142	Hand pump	For Manifold assembly B4785	B4765
1002142	Hand pump	For manifold assembly Pitch & Brake B4504	B4472
634210	Pres.transmitter 0-400 bar DIN	For manifold assembly Pitch & Brake B4504	B4472
108220	El motor, 3 phase, 400-690V	AE Power pack 6MW PS3 w/ el. Rotor lock	B4646
168171	Bellhouse Gearpump Grp.1	AE Power pack 6MW PS3 w/ el. Rotor lock	B4646
168900	Bellhouse Gearpump Grp.1	AE Power pack 6MW PS3 w/ el. Rotor lock	B4646
1000258	Internal gear pump, single	AE Power pack 6MW PS3 w/ el. Rotor lock	B4646
1001029	Acc. piston >6,0-10L	AE Power pack 6MW PS3 w/ el. Rotor lock	B4646
1001590	Gear pump gr. 1	AE Power pack 6MW PS3 w/ el. Rotor lock	B4646
1001853	Acc. piston >10-15L	AE Power pack 6MW PS3 w/ el. Rotor lock	B4646
1005201	El motor, 3 phase, 400-690V	AE Power pack 6MW PS3 w/ el. Rotor lock	B4646
1005878	Internal gear pump, double	AE Power pack 6MW PS3 w/ el. Rotor lock	B4646
634210	Pres.transmitter 0-400 bar DIN	For manifold assembly B4645	B4646
1002142	Hand pump	For manifold assembly B4645	B4646

## NM 54/950

HWP Part No.	Description	Part of:	Assembly part no:
558510	Gear pump group 0,25	Powerpack	B2419
549705	El motor 48V DC	Powerpack	B2419
634110	Pres.transmitter 0-160 bar DIN	Powerpack	B2419
157415	Integral akkumulator	B2420 Accu set complete for B2419	B2419
B2197/62990	Semi Pitch cylinder	B2197 Cylinder assembly for B2419	B2419
B2198/62990	Semi Pitch cylinder	B2198 Cylinder assembly for B2419	B2419
B2199/62990	Semi Pitch cylinder	B2199 Cylinder assembly for B2419	B2419
107300	El motor, 3 phase, 230-400V	Brake Hydraulics	99001170
175770	Gear pump group 1	Brake Hydraulics	99001170
157100	Acc. diaphragm >1,00 - 2,00L	Brake Hydraulics	99001170
156440	Acc. diaphragm >0,25 - 0,50L	Brake Hydraulics	99001170
634110	Pres.transmitter 0-160 bar DIN	Brake Hydraulics	99001170

## NM 64C/1500

HWP Part No.	Description	Part of:	Assembly part no:
634115	Pres.transmit. 0-160 bar cable	Blade Hydraulics	B1418
558560	Gear pump group 0,25	Blade Hydraulics	B1418
549700	El motor 48V DC	Blade Hydraulics	B1418
583183	Bust Disc	Blade Hydraulics	B1418
156915 replaces 156912	Acc. diaphragm >0,50 - 1,00L	Brake and Yaw Combi Hydraulics	B2171
634129	Pres.transmitter 0-200 bar DIN	Brake and Yaw Combi Hydraulics	B2171
156225	Acc. diaphragm >0,00 - 0,25L	Brake and Yaw Combi Hydraulics	B2171
634111	Pres.transmitter 0-250 bar DIN	Brake and Yaw Combi Hydraulics	B2171
107310	El motor, 3 phase, 400-690V	Brake and Yaw Combi Hydraulics	B2171
558880	Gear pump group 0,5	Brake and Yaw Combi Hydraulics	B2171

## NM 52/900

HWP Part No.	Description	Part of:	Assembly part no:
107300	El motor, 3 phase, 230-400V	Brake Hydraulics	99001170
175770	Gear pump group 1	Brake Hydraulics	99001170
157100	Acc. diaphragm >1,00 - 2,00L	Brake Hydraulics	99001170
156440	Acc. diaphragm >0,25 - 0,50L	Brake Hydraulics	99001170
634110	Pres.transmitter 0-160bar DIN	Brake Hydraulics	99001170
634115	Pres.transmit. 0-160bar cable	Standard Blade hydraulics	B2163
558560	Gear pump group 0,25	Standard Blade hydraulics	B2163
549700	El motor 48V DC	Standard Blade hydraulics	B2163

## NM 44/750

HWP Part No.	Description	Part of:	Assembly part no:
634115	Pres.transmit. 0-160 bar cable	Blade Hydraulics	99001153
549300	El motor 24V DC	Blade Hydraulics	99001153
583120	Burst disc cartridge	Blade Hydraulics	99001153
157195	Acc. diaphragm >1,00 - 2,00L	Blade Hydraulics	99001153
558510	Gear pump group 0,25	Blade Hydraulics	99001153



# Spare Parts for Wind Turbines

## NM 72-82

HWP Part No.	Description	Part of:	Assembly part no:
634129	Pressure transmitter MBS	Brake-Yaw Hydraulics Std/Arctic	B2271
156915	D1,0-200/90 BAR ECO Accumulator	Brake-Yaw Hydraulics Std/Arctic	B2271
156920	D1,0-200/45 BAR ECO Accumulator	For Manifold AH-2530 Brake-Yaw Hydraulics Std/Arctic	B2271
634129	Pressure transmitter	For Manifold AH-2530 Brake-Yaw Hydraulics Std/Arctic	B2271
107310	ELMOTOR 4AP71-4-B5-400/690	For Tank for Brake-Yaw Hydraulics Std/Arctic	B2271
175400	Gear pump group 1	For Tank for Brake-Yaw Hydraulics Std/Arctic	B2271
634109	Pressure transmitter MBS	Pitch Hydraulics Pump manifold	B2031
125000	Accumulator	Accumulator assembly for Pitch system	B2050
108851	El motor, 3 phase, 400-690V	Tank assembly for Pitch system	B2054
179250	Gear pump group 3	Tank assembly for Pitch system	B2054

## NM 72/2000

HWP Part No.	Description	Part of:	Assembly part no:
108851	El motor, 3 phase, 400-690V	Nacelletank complete	B1950
179250	3SPA-52D-10N Tgearpump	Nacelletank complete	B1950
634109	Pressure transmitter MBS 33	Pump Manifold Complete for NM72	B1536
125000	Acc. bladder >32,0L	For Accumulator Assembly	B1562
106950	El motor 4AP63-2S-B5-2/3 0,18KW	Brake Hydraulic	B1297
156215	D0,07-250/20 BAR accumulator	Brake Hydraulic	B1297
558510	HY.PUMP K 0,25-D-24-HNBR -40c	Brake Hydraulic	B1297
156910	Integral accumulator	Brake Hydraulic	B1297
634129	Pressure transmitter MBS 33 060G175	Brake Hydraulic	B1297
156700	Acc. diaphragm >0,50 - 1,00L	Yaw Hydraulic	99001159
549600	El motor 24V DC	Yaw Hydraulic	99001159
558510	Gear pump group 0,25	Yaw Hydraulic	99001159
107310	El motor, 3 phase, 400-690V	Brake/Yaw Combi Hydraulic	B1657
558880	Gear pump group 0,5	Brake/Yaw Combi Hydraulic	B1657
138567	Filter element f. 137790	Brake/Yaw Combi Hydraulic	B1657
137700	Tank breather /Air filter	Brake/Yaw Combi Hydraulic	B1657

## NM 48/750

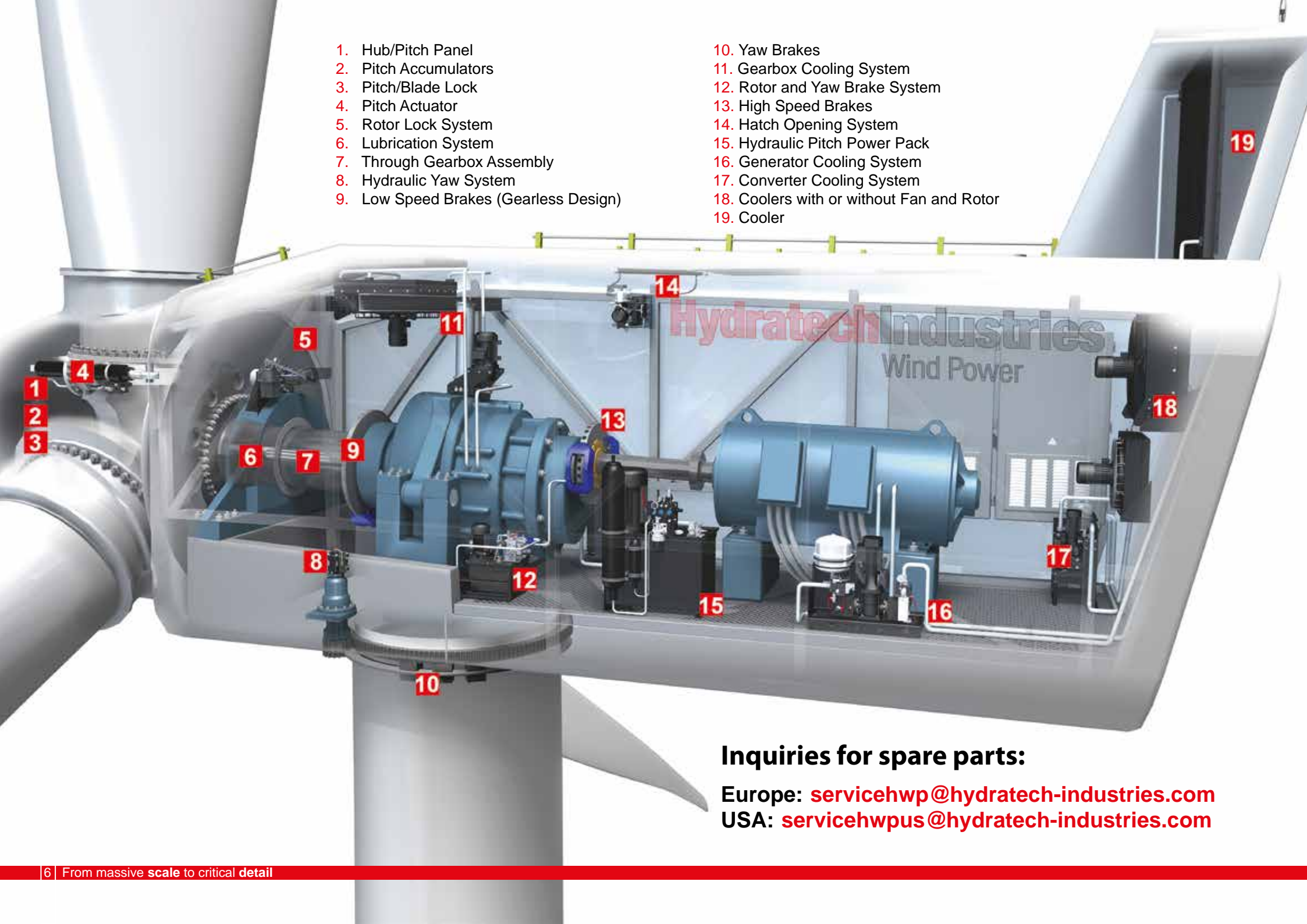
HWP Part No.	Description	Part of:	Assembly part no:
558560	Gear pump group 0,25	Blade Hydraulics	B1113
549600	El motor 24V DC	Blade Hydraulics	B1113
157300	Acc. diaphragm >3,00 - 4,00L	Blade Hydraulics	B1113
583130	Burst disc cartridge	Blade Hydraulics	B1113
634115	Pres.transmit. 0-160bar cable	Blade Hydraulics	B1113
156215	Acc. diaphragm >0,00 - 0,25L	Brake Hydraulics	99001166
107300	El motor, 3 phase, 230-400V	Brake Hydraulics	99001166
558560	Gear pump group 0,25	Brake Hydraulics	99001166



## MWT 92/95/102 2,4 MW

HWP Part No.	Description	Part of:	Assembly part no:	HWP Part No.	Description	Part of:	Assembly part no:
147894	Oil cooler 690V-60Hz	MHI 2.4 MW Normal climate (60 Hz)	n/a	(B4179)	Complete cooling system MHI 2.4MW	Cooling system MHI 2.4MW Combination (50Hz)	B4179
147902	Oil cooler 690V-60Hz	MHI 2.4 MW Cold Climate (60 Hz)	n/a	1001432	Centrifugal pump Mag. drive	Cooling system MHI 2.4MW Combination (50Hz)	B4179
1001189	Oil cooler 690V-50Hz	MHI 2.4 MW Combination (50 Hz) Oil cooler 690V-50Hz	1001189	634200	Pres.transmitter 0-10 bar DIN	Cooling system MHI 2.4MW Combination (50Hz)	B4179
147892	Oil cooler 690V-60Hz	MHI 2.4 MW Normal climate (60 Hz)	n/a	587349	Water filter	Cooling system MHI 2.4MW Combination (50Hz)	B4179
147904	Oil cooler 690V-60Hz	MHI 2.4 MW Cold Climate (60 Hz)	n/a	666665	Temp. sensor PT100	Cooling system MHI 2.4MW Combination (50Hz)	B4179
1001190	Oil cooler 690V-50Hz	MHI 2.4 MW Combination (50 Hz) Oil cooler 690V-50Hz+D10	1001190	108190	El motor, 3 phase, 400-690V	Cooling system MHI 2.4MW Combination (50Hz)	B4179
148535	Air-oil cooler w. circ. pump	MHI 2.4 MW Normal climate (60 Hz)	n/a	147888	Water cooler 690V-50Hz	Cooling system MHI 2.4MW Combination (50Hz)	B4179
148536	Oil cooler 690V-60Hz	MHI 2.4 MW Cold Climate (60 Hz)	n/a	AH3839	Suction manifold	Cooling system MHI 2.4MW Combination (50Hz)	B4179
1001191	Oil cooler 690V-50Hz	MHI 2.4 MW Combination (50 Hz)	1001191	AH3838	Pressure manifold	Cooling system MHI 2.4MW Combination (50Hz)	B4179
(B3553)	Complete Water cooler assembly MHI 2.4 MW	Water cooler assembly MHI 2.4 MW Normal Climate (60Hz)	B3553	AH3363	Connecting manifold	Cooling system MHI 2.4MW Combination (50Hz)	B4179
181381	Iwaki pompe YMD25-100-120CE	Water cooler assembly MHI 2.4 MW Normal Climate (60Hz)	B3553	(B4398)	Pumpunit	Offshore pumpunit cooling system MHI 2.4 combination (50Hz)	B4398
634200	Pres.transmitter 0-10 bar DIN	Water cooler assembly MHI 2.4 MW Normal Climate (60Hz)	B3553	1001432	Centrifugal pump Mag. drive	Offshore pumpunit cooling system MHI 2.4 combination (50Hz)	B4398
108305	El motor, 3 phase, 400-690V	Water cooler assembly MHI 2.4 MW Normal Climate (60Hz)	B3553	634200	Pres.transmitter 0-10bar DIN	Offshore pumpunit cooling system MHI 2.4 combination (50Hz)	B4398
147891	Water cooler 690V-60Hz	Water cooler assembly MHI 2.4 MW Normal Climate (60Hz)	B3553	587349	Water filter	Offshore pumpunit cooling system MHI 2.4 combination (50Hz)	B4398
147890	Water cooler	Water cooler assembly MHI 2.4 MW Normal Climate (60Hz)	B3553	108190	El motor, 3 phase, 400-690V	Offshore pumpunit cooling system MHI 2.4 combination (50Hz)	B4398
AH3361	Suction manifold	Water cooler assembly MHI 2.4 MW Normal Climate (60Hz)	B3553	1002531	Water cooler 690V-50Hz	Offshore pumpunit cooling system MHI 2.4 combination (50Hz)	B4398
AH3362	Pressure manifold	Water cooler assembly MHI 2.4 MW Normal Climate (60Hz)	B3553	AH3839	Suction manifold	Offshore pumpunit cooling system MHI 2.4 combination (50Hz)	B4398
AH3363	Connecting manifold	Water cooler assembly MHI 2.4 MW Normal Climate (60Hz)	B3553	AH3838	Pressure manifold	Offshore pumpunit cooling system MHI 2.4 combination (50Hz)	B4398
587351	Water filter	Water cooler assembly MHI 2.4 MW Normal Climate (60Hz)	B3553	AH3363	Connecting manifold	Offshore pumpunit cooling system MHI 2.4 combination (50Hz)	B4398
(B4055)	Complete Water cooler assembly MHI 2.4 MW	Water cooler assembly MHI 2.4 MW Cold Climate (60Hz)	B4055	B3456	Accumulator for MHI 2.4MW (f. B3309/3345)	Accumulator for MHI 2.4MW Normal Climate (60Hz)	B3456
181381	Iwaki pompe YMD25-100-120CE	Water cooler assembly MHI 2.4 MW Cold Climate (60Hz)	B4055	B4075	Accumulator for MHI 2.4MW	Accumulator for MHI 2.4MW Cold Climate (60Hz/50Hz)	B4075
634200	Pres.transmitter 0-10 bar DIN	Water cooler assembly MHI 2.4 MW Cold Climate (60Hz)	B4055	B3408	MHI complete Pitch manifold assembly w/valves (mac 2)	Pitch manifold assembly for MHI 2.4 MW Normal Climate (60 Hz)	B3408
587349	Water filter	Water cooler assembly MHI 2.4 MW Cold Climate (60Hz)	B4055	AH3190	AE Pitch manifold	Pitch manifold assembly for MHI 2.4 MW Normal Climate (60 Hz)	B3408
666665	Temp. sensor PT100	Water cooler assembly MHI 2.4 MW Cold Climate (60Hz)	B4055	634210	Pres.transmitter 0-400bar DIN	Pitch manifold assembly for MHI 2.4 MW Normal Climate (60 Hz)	B3408
108190	El motor, 3 phase, 400-690V	Water cooler assembly MHI 2.4 MW Cold Climate (60Hz)	B4055	B4072	MHI complete Pitch manifold assembly w/valves	Pitch manifold assembly for MHI 2.4 MW Cold Climate (60/50Hz)	B4072
147889	Water cooler 690V-60Hz	Water cooler assembly MHI 2.4 MW Cold Climate (60Hz)	B4055	AH3870	MHI Pitch manifold CWP 2,4	Pitch manifold assembly for MHI 2.4 MW Cold Climate (60/50Hz)	B4072
147888	Water cooler 690V-50Hz	Water cooler assembly MHI 2.4 MW Cold Climate (60Hz)	B4055	634210	Pres.transmitter 0-400bar DIN	Pitch manifold assembly for MHI 2.4 MW Cold Climate (60/50Hz)	B4072
AH3839	Suction manifold	Water cooler assembly MHI 2.4 MW Cold Climate (60Hz)	B4055	B3445	Actuator complete	Actuator assembly for MHI 2.4MW Normal Climate (60Hz)	B3445
AH3838	Pressure manifold	Water cooler assembly MHI 2.4 MW Cold Climate (60Hz)	B4055	B4073	Actuator complete	Actuator assembly for MHI 2.4MW Cold Climate (60Hz/50Hz)	B4073
AH3363	Connecting manifold	Water cooler assembly MHI 2.4 MW Cold Climate (60Hz)	B4055	B4484	Actuator complete (New bottom)	Actuator assembly for MHI 2.4 MW Combination (60Hz/50Hz)	B4484

1. Hub/Pitch Panel
2. Pitch Accumulators
3. Pitch/Blade Lock
4. Pitch Actuator
5. Rotor Lock System
6. Lubrication System
7. Through Gearbox Assembly
8. Hydraulic Yaw System
9. Low Speed Brakes (Gearless Design)
10. Yaw Brakes
11. Gearbox Cooling System
12. Rotor and Yaw Brake System
13. High Speed Brakes
14. Hatch Opening System
15. Hydraulic Pitch Power Pack
16. Generator Cooling System
17. Converter Cooling System
18. Coolers with or without Fan and Rotor
19. Cooler



### Inquiries for spare parts:

Europe: [servicehwp@hydratech-industries.com](mailto:servicehwp@hydratech-industries.com)

USA: [servicehwpus@hydratech-industries.com](mailto:servicehwpus@hydratech-industries.com)



## Spare Parts

### Regular Maintenance and Wear and Tear Parts

We are here to support you in sourcing the correct and original spare parts to ensure the best quality of regular maintenance and service.

Highest possible availability is of utmost importance for any turbine owner.

With direct access to the original documentation, partslists and manuals, our dedicated and highly experienced team members can easily assist you in identifying which parts are needed for particular situations.

### Global Service to Our Customers

With our global presence and our extensive experience, Hydratech Industry is one of the leading suppliers and developers of hydraulic solutions for the global wind turbine manufacturers (OEM's). We supply spareparts, repairs, upgrades and other solutions to enhance the maintenance of the turbines and subsequently optimize availability of the turbine throughout the lifecycle.

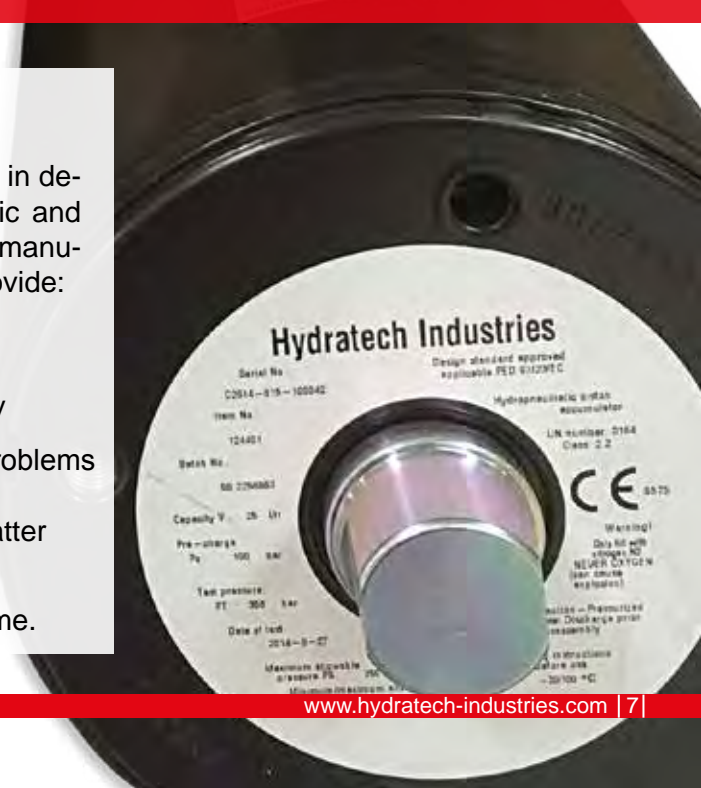


### Dedicated to Service and Repair

#### Wind Turbine Hydraulic Parts Globally

Hydratech Industries is known worldwide as experts in design, production and service and repair of hydraulic and cooling solutions. With thirty years of experience in manufacturing, our global service and repair team can provide:

- Fast, dependable repair
- Quick turnaround with large spare part inventory
- Retrofit designs providing solutions to current problems
- Upgrades to improve performance, including bladder accumulators to complete piston accumulators
- Routine service to prevent unscheduled downtime.



# Global **Service Organization**



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**Hydratech Industries**  
Wind Power

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