Electric High Pressure Pump

HydroMax

Hydro Booster Technology

The electric high pressure pump Hydromax, developed by ITH, is manufactured in different designs. The Hydromax 18 is used for service jobs and the Hydromax 37, 38 and 39 are used for shop applications. ITH engineered ITH HydroMax pumps are designed for high cycles and fast working processes. Additional features are a high maintenance interval, user-friendly operation, and increased safety at work.

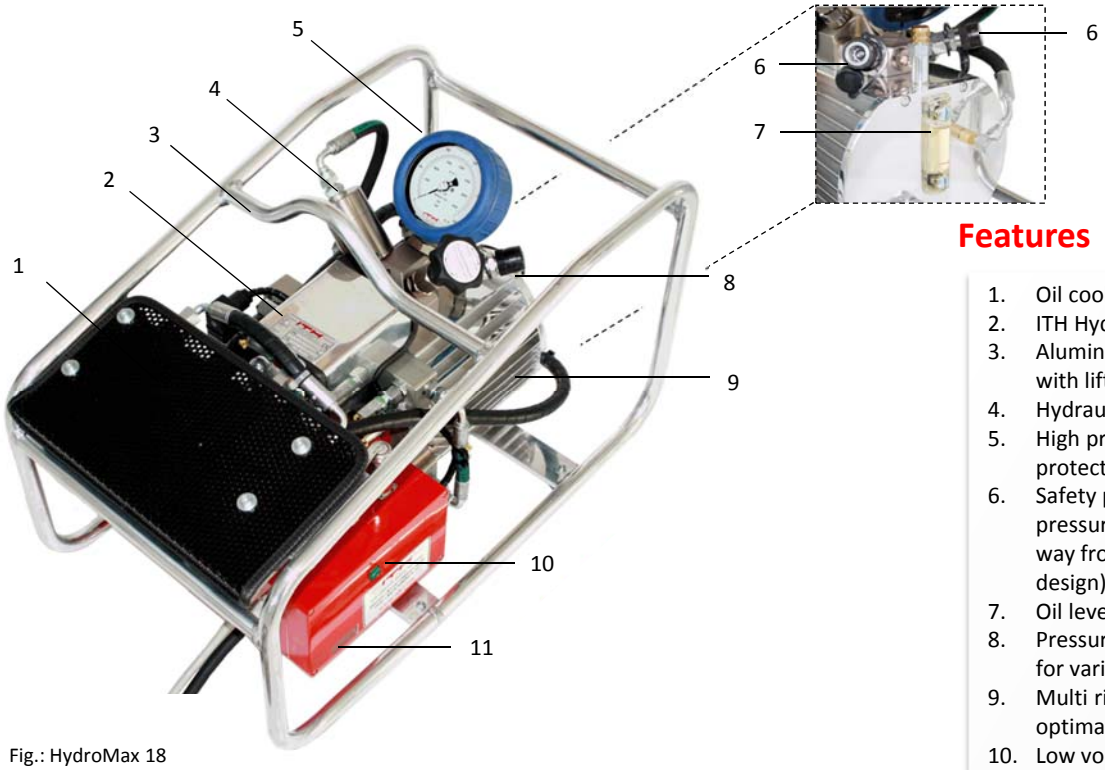

Fig.: HydroMax 18

Features

1. Oil cooler
2. ITH Hydro Booster
3. Aluminum protection frame with lifting point
4. Hydraulic shut-off valve
5. High pressure gauge with protection cover
6. Safety position of the two high pressure couplings (directed way from user, work safe design)
7. Oil level sight glass
8. Pressure adjusting valve (DBV), for variable pressure adjusting
9. Multi ribbed oil tank, for optimal cooling
10. Low voltage indicator light
11. Electronic cycle counter

Performance

- ✓ Max. operating pressure 2,500 bar
- ✓ Voltage range from 90 V - 480 V for 50 Hz and/or 60 Hz
- ✓ Niox-coating of all steel components (offshore ready)
- ✓ Safety position of the two high pressure couplings
- ✓ Wear-free single rotor-eccentric shaft
- ✓ Standard: Remote
- ✓ Optional: Digital Remote displaying pressures
- ✓ Optional: Constant digital automatic pressure control (APC, see page X).
- ✓ Optional: Direct pressure stretch documentation system (PSD-System, see page 11).
- ✓ Optional for HydroMax 18 and 38: Suitable for offshore applications by NIOX-coating and aluminum frame with protective cage (see page X)

Remotes

Standard (10m) | Optional: Digital (10m) | Automatic Pressure Control APC

HydroMax 18

Field of application:

- ✓ For service and assembling jobs
- ✓ Optimized weight
- ✓ Easy transport
- ✓ One-man operation with remote

Order no.	34.x1318- Motor-ID			
Type	1813	1815	1825	
Pressure max. [bar]	1.350	1.500	2.500	
Dimension (LxBxH)	620 x 360 x 400mm			
Weight	41,6 kg (ohne Öl 37 kg)			
Connection	90-110 V	1	50+60 Hz	-09174
	190-230 V	1	50 Hz	-19150
	190-230 V	1	60 Hz	-19160
	200-230 V	3	50+60 Hz	-20370
	380-420 V	3	50+60 Hz	-40370
	480 V	3	60 Hz	-48360
	Capacity	Phase	Frequency	Motor-ID

HydroMax 37

Field of application:

- ✓ For shop applications
- ✓ Manual shut-off valve
- ✓ High performance motor
- ✓ Designed for high bolt cycles and large bolt dimensions

Order no.	34.x1337- Motor-ID			
Type	3713	3715	3725	
Pressure max. [bar]	1.350	1.500	2.500	
Dimension (LxBxH)	640 x 440 x 450mm			
Weight	61,0 kg			
Connection	230 V	1	50 Hz	-23150
	230 V	1	60 Hz	-23160
	230 V	3	50+60 Hz	-23370
	380-420 V	3	50+60 Hz	-40370
	480 V	3	60 Hz	-48360
	Capacity	Phase	Frequency	Motor-ID

HydroMax 38

Field of application:

- ✓ For shop applications
- ✓ One-man operation with remote
- ✓ High performance motor
- ✓ Designed for high bolt cycles and large bolt dimensions

Order no.	34.x1338- Motor-ID			
Type	3813	3815	3825	
Pressure max. [bar]	1.350	1.500	2.500	
Dimension (LxBxH)	640 x 440 x 450mm			
Weight	66,4 kg			
Connection	230 V	1	50 Hz	-23150
	230 V	1	60 Hz	-23160
	230 V	3	50+60 Hz	-23370
	380-420 V	3	50+60 Hz	-40370
	480 V	3	60 Hz	-48360
	Capacity	Phase	Frequency	Motor-ID

HydroMax 39

Field of application:

- ✓ For shop applications and service jobs
- ✓ One-man operation with remote
- ✓ High performance motor
- ✓ Optimized weight
- ✓ Designed for high bolt cycles and large bolt dimensions

Order no.	34.x1339- Motor-ID			
Type	3913	3915	3925	
Pressure max. [bar]	1.350	1.500	2.500	
Dimension (LxBxH)	640 x 370 x 450mm			
Weight	64,3 kg			
Connection	230 V	1	50 Hz	-23150
	230 V	1	60 Hz	-23160
	230 V	3	50+60 Hz	-23370
	380-420 V	3	50+60 Hz	-40370
	480 V	3	60 Hz	-48360
	Capacity	Phase	Frequency	Motor-ID

EcoMax

For standard applications with high cycles ITH developed electric high pressure pumps EcoMax. A robust design is obtained by aluminum protection and transport frame.

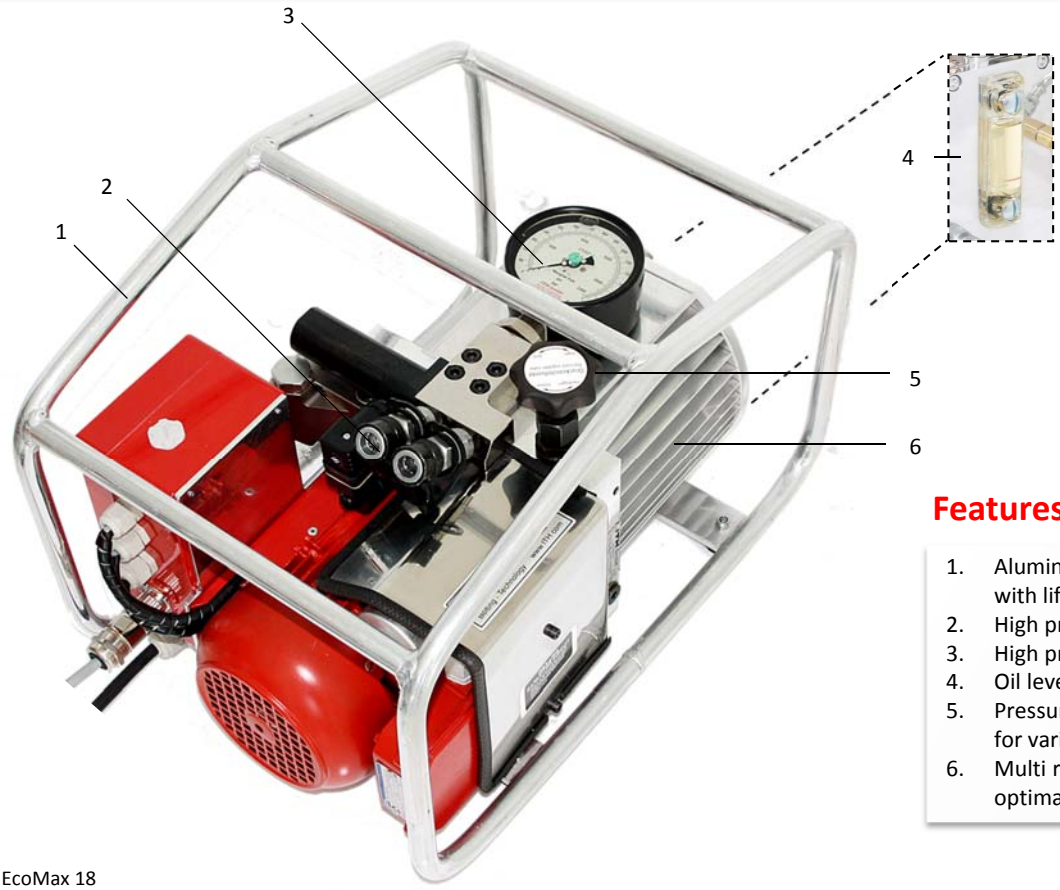

Fig.: EcoMax 18

Features

1. Aluminum protection frame with lifting point
2. High pressure couplings
3. High pressure gauge
4. Oil level sight glass
5. Pressure adjusting valve (DBV), for variable pressure adjusting
6. Multi ribbed oil tank, for optimal heat exchange

Performance

- ✓ Max. operating pressure 1,500 bar
- ✓ Voltage range from 90 V - 690 V for 50 Hz and/or 60 Hz
- ✓ Wear-free single rotor-eccentric shaft
- ✓ Service-friendly by small number of components Reduction of Maintenance-costs
- ✓ Easy transport
- ✓ Standard for Ecomax 18: Remote
- ✓ Optional for Ecomax18: Digital remote with displayed pressure
- ✓ Optional for Ecomax 18: Constant digital automatic pressure control (APC, see page x).

Remotes for EcoMax 18

Standard (10m) | Optional: Digital (10m) | Automatic Pressure Control APC

EcoMax 17

Field of application:

- ✓ For service and assembling jobs
- ✓ Optimized weight
- ✓ Easy transport
- ✓ Manual shut-off valve

Order no.	34.x1117- Motor-ID			
Type	1713		1715	
Pressure max. [bar]	1.350		1.500	
Dimension (LxBxH)	495 x 350 x 375mm			
Weight	30,5 kg			
Connection	90-110 V	1	50 Hz	-09150-19
	90-110 V	1	60 Hz	-09160-19
	190-230 V	1	50 Hz	-19150-19
	190-230 V	1	60 Hz	-19160-19
	230 V	3	50+60 Hz	-2337x
	380-420 V	3	50+60 Hz	-4037x
	480 V	3	60 Hz	-4836x
	690 V	3	50+60 Hz	-6937x
	Capacity	Phase	Frequency	Motor-ID

EcoMax 18

Field of application:

- ✓ For service and assembling jobs
- ✓ Optimized weight
- ✓ Easy transport
- ✓ One-man operation

Order no.	34.x1218- Motor-ID			
Typ	1813		1815	
Pressure max. [bar]	1.350		1.500	
Dimension (LxBxH)	495 x 350 x 375mm			
Weight	35 kg			
Connection	90-110 V	1	50 Hz	-09150-IS1
	90-110 V	1	60 Hz	-09160-IS1
	190-230 V	1	50 Hz	-19150-IS1
	190-230 V	1	60 Hz	-19160-IS1
	230 V	3	50+60 Hz	-2337x
	380-420 V	3	50+60 Hz	-4037x
	480 V	3	60 Hz	-4836x
	690 V	3	50+60 Hz	-6937x
	Capacity	Phase	Frequency	Motor-ID

Automatic-Pressure-Control APC

When operating ITH bolt tensioning cylinders, it can happen that the pressure drops by stretching of the hose lines or setting of the construction. This has effects on the threaded bolt connection result. The digital automatic pressure control (APC) readjusts the pre-determined pressure constantly and ensures a high degree of accuracy at the bolt connection.