

## Hydro-MAX Electric High Pressure Pump

The electric high pressure pump Hydro-MAX, developed by ITH, is manufactured in different designs. The Hydro-MAX 18 is used for service jobs and the Hydro-MAX 37, 38 and 39 are used for shop applications. ITH Hydro-MAX pumps are

designed for high cycles and fast working processes. Additional features include user-friendly operation and increased safety because of the positioning of the hydraulic couplings.

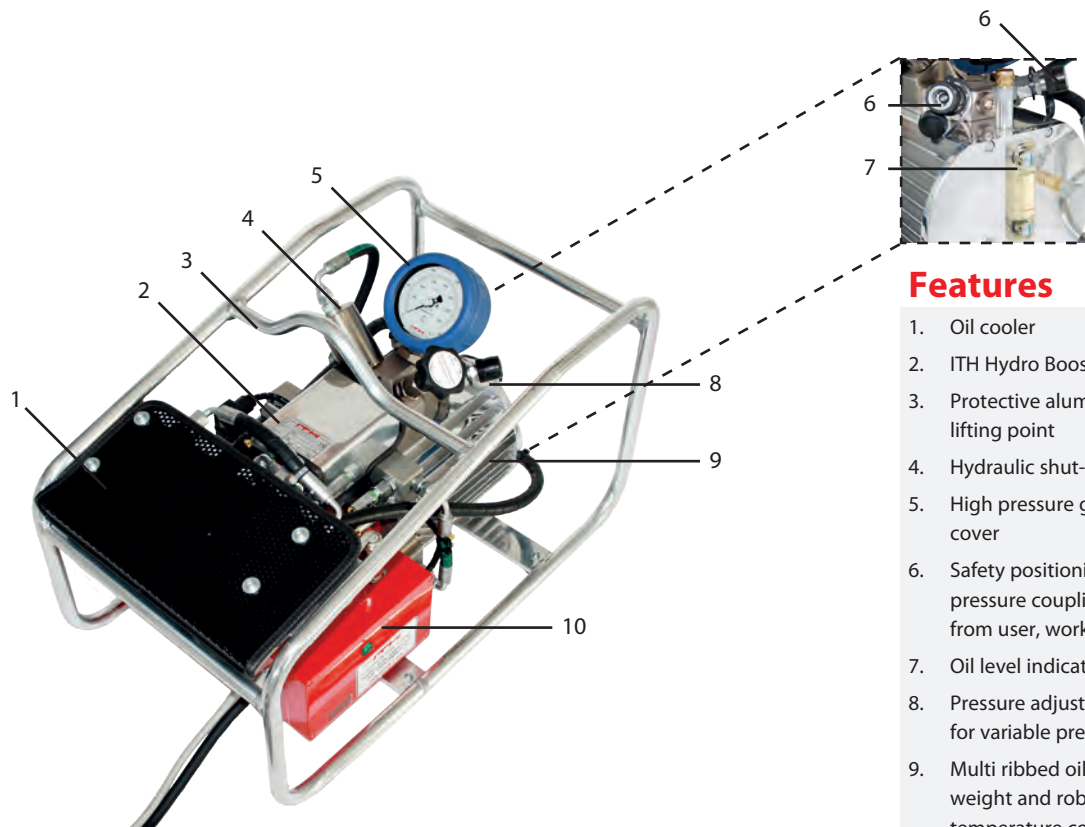


Fig.: Hydro-MAX 18

### Features

1. Oil cooler
2. ITH Hydro Booster
3. Protective aluminium frame with lifting point
4. Hydraulic shut-off valve
5. High pressure gauge with protective cover
6. Safety positioning of the two high pressure couplings (directed away from user, work safe design)
7. Oil level indicator
8. Pressure adjusting valve (PAV), for variable pressure adjusting
9. Multi ribbed oil tank, made of light-weight and robust aluminium (high temperature conductivity), for optimal cooling
10. Low voltage indicator light and electronic cycle counter at the control box

### 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).
- ✓ Safe positioning 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 23).
- ✓ **Optional:** Direct pressure stretch documentation system (PSD-System).
- ✓ **Optional for Hydro-MAX 18 and 38:** Suitable for offshore applications by NIOX-Coating and aluminium frame with protective cage.

### Remotes

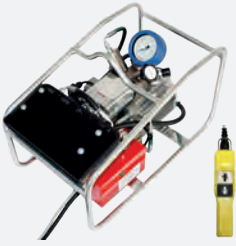


Standard (10m)

Optional:  
Digital (10m)

Multi-Function  
Remote for  
Automatic  
Pressure Control  
function (APC)

## Hydro-MAX 18

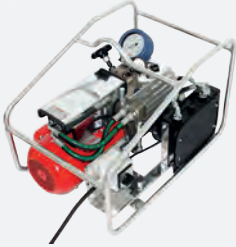


### Field of application:

- ✓ 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 (LxWxH)	620 x 360 x 400mm			
Weight	41.6 kg (without oil 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	

## Hydro-MAX 37

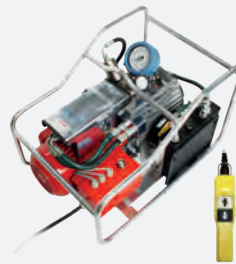


### Field of application:

- ✓ 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 (LxWxH)	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

## Hydro-MAX 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 (LxWxH)	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

## Hydro-MAX 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

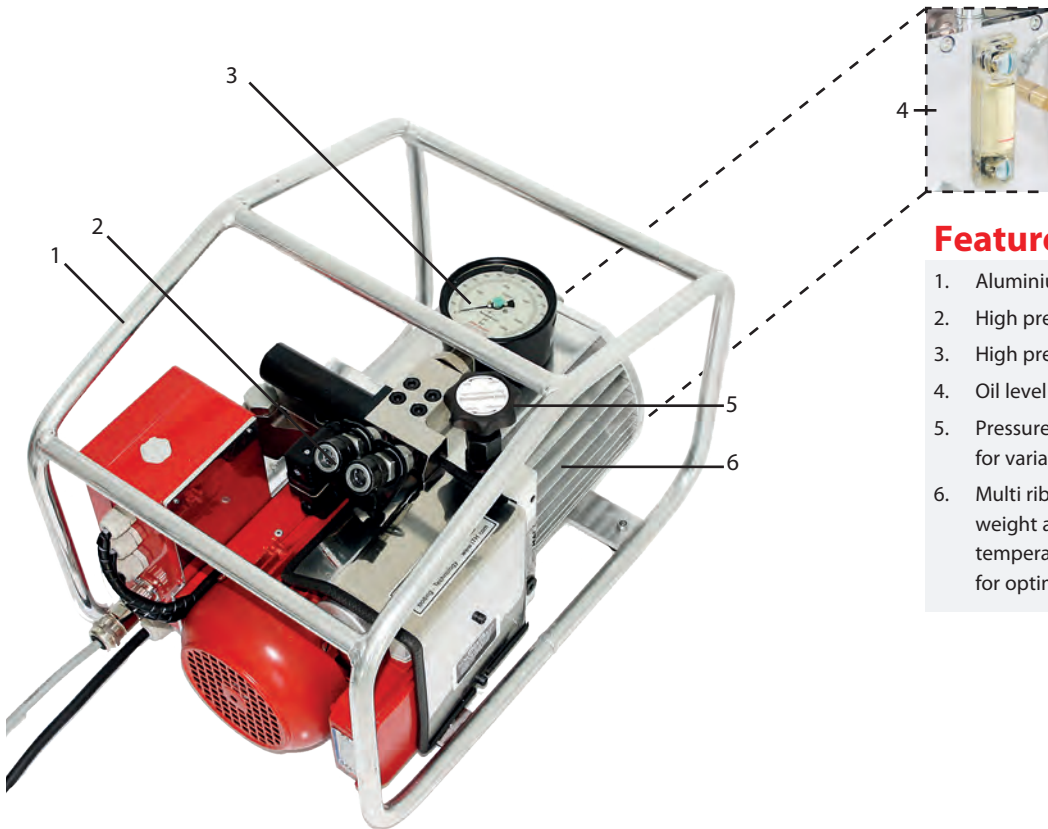
Order no.	34.x1339- Motor-ID			
Type	3913	3915	3925	
Pressure max. [bar]	1.350	1.500	2.500	
Dimension (LxWxH)	640 x 370 x 450mm			
Weight	64.3 kg			
Connection	230 V	1	50 Hz	-23150
	230 V	1	60 Hz	-23160
	230 V	3	50+60 Hz	-23370
	380-420 V	3	50+60 Hz	-40370
	480 V	3	60 Hz	-48360
	Capacity	Phase	Frequency	Motor-ID

# Eco-MAX

## Electric High Pressure Pump

For standard applications with high cycles ITH developed electric high pressure pumps Eco-MAX. A robust design is

obtained by aluminium protection and transport frame.



### Features

1. Aluminium Frame
2. High pressure couplings
3. High pressure gauge
4. Oil level sight glass
5. Pressure adjusting valve (PAV), for variable pressure adjusting
6. Multi ribbed oil tank, made of light-weight and robust aluminium (high temperature conductivity), for optimal cooling

Fig.: Eco-MAX 18  
with optional two hydraulic connectors (standard is one)

### 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 Eco-MAX 18: Remote.
- ✓ Optional for Eco-MAX18: Digital remote with displayed pressure.
- ✓ Optional for Eco-MAX 18: Constant digital automatic pressure control (APC, see page 23).

### Remotes for Eco-MAX 18



Standard (10m)



Optional:  
Digital (10m)



Multi-Function  
Remote for  
Automatic  
Pressure Control  
function (APC)

## Eco-MAX 17

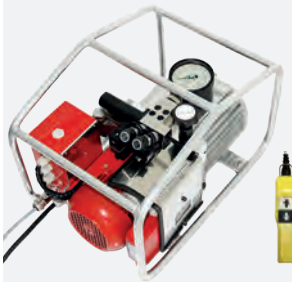


### Field of application:

- ✓ 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 (LxWxH)	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

## Eco-MAX 18



### Field of application:

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

Order no.	34.x1218- Motor-ID			
Type	1813		1815	
Pressure max. [bar]	1.350		1.500	
Dimension (LxWxH)	495 x 350 x 375mm			
Weight	35.0 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 settling of the construction. This has effects on the results of

the bolt connection. The digital automatic pressure control (APC) readjusts the pre-determined pressure constantly and ensures a high degree of accuracy at the bolt connection.



Pressure ITH High Pressure Pump with APC control

