



7

HYDRAULIC PUMPS

SERIES CP700

- **Small** - 205 x 290 x 190 mm
- **Light** - 4,5 kg
- **Powerful** - 700 bar / LP= 1,2 lit/min. / HP= 0,2 lit/min.

i-Drive

Several setting possibilities, selection through setting knob.

- hold function (CP700 version only)
- pressure adjustment (CP700 version only)
- selectable piston return

USB Port

Direct USB-port on the pump allows special settings and detailed reporting of your daily work

Comfort

Light, compact and robust structure

Reliable

Long lifetime, the first maintenance is not necessary before 20,000 cycles



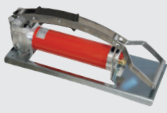









Powerful

Powerful and replaceable 18V lithium-ion battery with own management controlled by the pump for max. safe and efficient working.

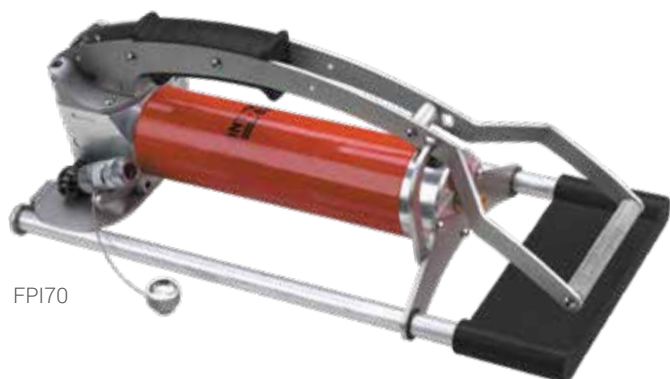
Resistant

Body made of polyamide reinforced with fibreglass, completely insulating and shock resistant



	Pump	Operation	Set equipment (pump + ...)	
FPI70	 FPI70	Foot	<ul style="list-style-type: none"> • Metal case • Pressure gauge 	PAGE 204
FPI AS85 70S	 FPI70S	Foot	<ul style="list-style-type: none"> • Flexible hose 3m • Metal case • Pressure gauge 	PAGE 204
FPI70 EC	 FPI70 EC	Foot	<ul style="list-style-type: none"> • Metal case 	PAGE 204
FPI70S EC	 FPI70S EC	Foot	<ul style="list-style-type: none"> • Flexible hose 3m • Metal case 	PAGE 204
CP700	 CP700	Battery ↳ Main adapter available	<ul style="list-style-type: none"> • Battery and charger • Flexible hose 1,5 m • Remote control 1,5 m • USB-cable • Nylon bag with shoulder strap 	PAGE 205
CP700 EC	 CP700 EC	Battery ↳ Main adapter available	<ul style="list-style-type: none"> • Battery and charger • Flexible hose 1,5 m • Remote controle 1,5 m • USB-Cable • Nylon bag with shoulder strap 	PAGE 205
ANP24/220	 ANP24/220	Battery or Mains	<ul style="list-style-type: none"> • Remote controle 5 m • Power cord 3 m • Shoulder strap 	PAGE 206
NP220	 NP220	Mains	<ul style="list-style-type: none"> • Remote control 5 m • Power cord 3 m 	PAGE 206
90404	 90404	Mains	<ul style="list-style-type: none"> • Remote control 5 m • Power cord 3 m 	PAGE 207
90418	 90418	Mains	<ul style="list-style-type: none"> • Remote control 5 m • Power cord 3 m 	PAGE 207
90415	 90415	Mains	<ul style="list-style-type: none"> • Remote control 5 m • Power cord 3 m 	PAGE 208
91421	 91421	Mains	<ul style="list-style-type: none"> • Remote control 5 m • Power cord 3 m 	PAGE 208

HYDRAULIC PUMPS



FPI70



Pressure gauge and tilting coupling is standard on FPI70 and FPI70s models (not on models "-EC")



FPI70S



FPI70S EC



FPI70 EC

Hose must be ordered separately



Set FPI70

FPI70 / FPI70-EC – Foot operated hydraulic pump

Designed to operate hydraulic tools up to 700bar (70MPa).

Technical characteristics:

- Compact dimensions
- Lightweight due to use of light alloys and corrosion-resistant materials
- Handy and stable due to a firm fitting pedal and sturdy non slip base
- Automatic two speed device (fast advancing under no-load and slow under load)
- Tilting system for coupler (not on models "-EC")
- Pressure monitoring by oil pressure gauge (not on models "-EC")
- Manual pressure release at any time
- High mounted quick release coupling with dust cap
- Operating pressure: 700 bar (70 MPa)
- Low pressure pump capacity: 18,3 cm³/stroke
- High pressure pump capacity: 2 cm³/stroke
- Amount of oil: 1200 ml
- Operating temperature: -20°C to a +40°C

Tool dimensions:

- FPI70 570 x 230 x 209 mm
- FPI70S 570 x 230 x 209 mm
- FPI70 EC 545 x 212 x 198 mm
- FPI70S EC 545 x 212 x 198 mm

Tool weight:

- FPI70 9,6 kg
- FPI70S 10,9 kg
- FPI70 EC 9,6 kg
- FPI70S EC 10,3 kg

Description	Order No.	Dimensions	Weight
Set: Foot pump	FPI70	650 x 240 x 220 mm	19 kg
Set: Foot pump with flexible hose 3 m	FPI70S	650 x 240 x 220 mm	21 kg
Set: Foot pump EC	FPI70 EC	650 x 240 x 220 mm	19 kg
Set: Foot pump EC with flexible hose 3 m	FPI70S EC	750 x 300 x 220 mm	24 kg

Accessories see pages 209 - 212

On request special models with different operating-pressures up to a maximum of 850bar (85MPa).

Set equipment FPI70:

- Foot operated pump with oil pressure gauge
- Metal case

Set equipment FPI70S:

- Foot operated pump with oil pressure gauge
- Flexible hose 3 m
- Metal case

Set equipment FPI70 EC:

- Foot operated pump
- Metal case

Set equipment FPI70S EC:

- Foot operated pump
- Flexible hose 3 m
- Metal case



CP700EC



CP700 - Compact hydraulic pump with battery

Designed to operate hydraulic tools up to 700bar (70MPa).

Technical characteristics:

- Light, compact and robust structure
- Ergonomic design for right or left handers
- Optional transportation bag with pockets, with a shoulder strap or attached to a belt (optional)
- Manual or automatic return
- Rapid return of piston due to high return capacity
- Free pressure calibration (only model CP700)
- Freely programmable pump (only model CP700)
- Preinstalled standard programs for cutting and crimping
- Maintenance program (only model CP700)
- Possibility to set up maintenance times (only model CP700)
- Electronic sensor pressure control
- High performance lithium ion battery
- Charge indicator on the battery
- Double piston technology for rapid high pressure feed
- Flow range at low pressures < 100 bar: 1.2 lit./min.
- Flow range at pressures up to 700 bar: 0.2 lit./min.
- Operating pressure: 700 bar (70 MPa)
- Power: 200 W
- Battery voltage: 18,0 V DC
- Battery capacity: 3,0 Ah
- Range of use: -20°C / +55°C (integrated cooling system)
- Remote control (1.5 m) two buttons and LED indicator
- Possibility to attach the remote control to the unit with the integrated magnet
- A belt or shoulder strap can be added through a clamp support
- Anti-scratch and shock resistant display protection (only model CP700)
- Current and required pressure visible on display (only model CP700)
- Error indication
- Possibility of reading the curves on the pump (only model CP700) and on PC
- Possibility of reading all the cycles and error indications by USB
- Including software

Tool dimensions: 290 x 190 x 205 mm
 Tool weight: 4,5 kg

Description	Order No.	Dimensions	Weight
Set: Hydraulic pump	CP700	480 x 250 x 250 mm	7,7 kg
Set: Hydraulic pump	CP700EC	480 x 250 x 250 mm	7,7 kg

Accessories see pages 209 - 212

On request special models with different operating-pressures up to a maximum of 850bar (85MPa).

Set equipment:

- Compact hydraulic pump
- Battery 18 V/3,0 Ah lithium-ion (RA11)
- Battery charger (LG8)
- Flexible high pressure hose – length 1,5 m
- Remote control 1,5 m (CP-F)
- Shoulder strap (TG3)
- USB cable + software
- Comfortable sturdy nylon bag

Application:



Top version CP700
(with display):



- Selectable piston return
- Hold function
- Free pressure calibration
- Patented cable cutting detection
- Installed cutting / crimping programmes
- Freely programmable
- Possibility of reading all cycles and error indications directly on the pump and on the PC by USB

Standard version
CP700EC:



- Selectable piston return
- Patented cable cutting detection
- Installed cutting / crimping programmes
- Possibility of reading all cycles and error indications on the PC by USB



CE

ANP 24/220 - Combined electro hydraulic battery and mains pump

Designed to operate hydraulic tools up to 700bar (70MPa).

Technical characteristics:

- Battery-operated or mains-operated
- High pump performance in 2 stages (fast and slow)
- Remote control
- Manual pressure release at any time
- Automatic pressure release when maximum force is achieved
- Engine brake operates when pressure released
- Fitted battery charger with battery condition indicator
- Quick automatic-lock hydraulic connection and undetachable dustcap
- Compact design, light weight
- Pump capacity: 0,4 l/min - 0,7 l/min
- Mains voltage: 230 V (50/60 Hz)
- Cell Voltage: 2 x 12 V
- Motor rating: 360 W
- Protection class: IP43
- Operating temperature: -10°C to +40°C

Description	Order No.	Dimensions	Weight
Electro hydraulic battery pump	ANP24/220	550 x 350 x 180 mm	20 kg

Accessories see pages 209 - 212

On request special models with different mains voltage.

Set equipment ANP24/220:

- Electro-hydraulic battery-mains pump
- Remote control with 5m connecting cable
- Power cord 3m
- Carrying shoulder strap with shoulder pads

NP220-1 and NP220-2 mains operated hydraulic pump

Designed to operate hydraulic tools up to 700bar (70MPa).

Technical characteristics:

- Mains-operated
- High pump performance (fast and slow in 2 stages only NP220-2)
- High pump performance in application of large cross-sections and power rails processing
- Protection support
- Remote control
- Oil check by external sensor
- Engine brake operates when pressure released
- Quick automatic-lock connection and undetachable dust cap
- Pump capacity: 0.6 l/min (NP220-1) 0.6 - 1.1 l/min (NP220-2)
- Mains voltage: 230 V (50/60 Hz)
- Motor rating: 750 W
- Protection class: IP54
- Operating temperature: -10°C to +40°C

Description	Order No.	Dimensions	Weight
Pump 1 stage	NP220-1	370 x 185 x 490 mm	25 kg
Pump 2 stage	NP220-2	370 x 185 x 490 mm	25 kg

Accessories see pages 209 - 212

On request special models (NP220-1; NP220-2) with different mains voltage.

Set equipment:

- Mains-operated hydraulic pump – NP220-1 or NP220-2
- Remote control push-button with 5m connecting cable
- Power cord 3m



CE

Electro-hydraulic 3-cylinder-radial-piston-pump with transport cart

Our electro-hydraulic pumps are delivered completely with an electrical control, pressure control valve, magnet valve, oil sight glass and a 3 meter high-pressure hose. The operating pressure is normally set to 700 bar. The control is effected with a foot pedal. The pedal is equipped with a high-quality 3-point-safety wiring. All our pumps are delivered without cutting and crimping tool.

The following variants are deliverable:

- Operating pressure:max. 700 bar (70 MPa)
- Operating voltage/pump delivery volume: 230V 50Hz / 0.64 l/min. 3 x 400V 50Hz / 0.82 l/min.
- With transport cart or with rack
- Foot pedal with one switch = version without positioning
- Foot pedal with two switches = version with positioning

The version with positioning should be used at the power rail work station and the hydraulic puncher (catalogue pages xx). The positioning guaranteed a save and point exactly work. We recommend to use the pump (art.-no. 91421) if you buy the power rail work station BLS 120 (page 195). This tool combination ensures you a high precision.

Further components and special solutions are available on request



Art.-no.: 90404

Description	Order No.	Weight
Electro-hydraulic 3-cylinder-radial-piston-pump	90404	31,0 kg

- Transport cart, with positioning
- Nominal capacity:0.75 kW
- Voltage: 3 x 400V 50Hz
- Delivery rate: 0.82 l/min.

Description	Order No.	Weight
Electro-hydraulic 3-cylinder-radial-piston-pump	90417	31,0 kg

- Transport cart, with positioning and automatic pressure shutdown
- Nominal capacity:0.75 kW
- Voltage: 3 x 400V 50 Hz
- Delivery rate: 0.82 l/min.

Description	Order No.	Weight
Electro-hydraulic 3-cylinder-radial-piston-pump	90407	30,4 kg

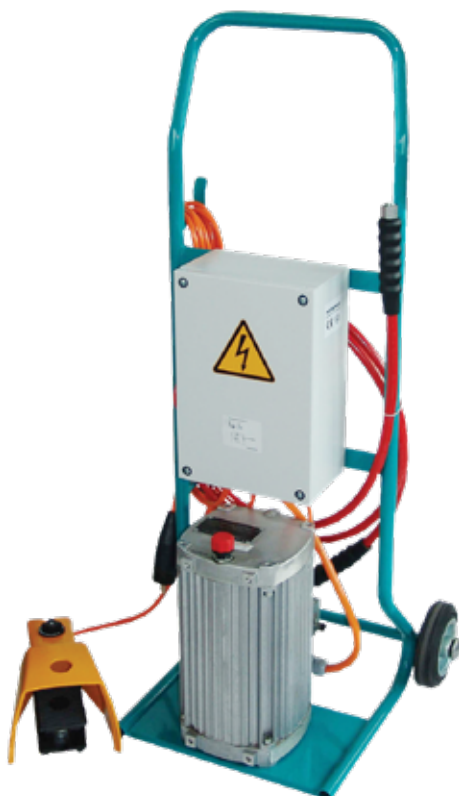
- Transport cart
- Nominal capacity:0.75 kW
- Voltage: 3 x 400V 50 Hz
- Delivery rate: 0.82 l/min.

Description	Order No.	Weight
Electro-hydraulic 3-cylinder-radial-piston-pump	90413	33,0 kg

- Transport cart, with positioning
- Nominal capacity:0.75 kW
- Voltage: 230V 50 Hz
- Delivery rate: 0.64 l/min.

Description	Order No.	Weight
Electro-hydraulic 3-cylinder-radial-piston-pump	90418	33,0 kg

- Transport cart
- Nominal capacity:0.75 kW,
- Voltage: 230V 50 Hz
- Delivery rate: 0.64 l/min.



Art.-no.: 90418



Art.-no.: 90415

Electro-hydraulic 3-cylinder-radial-piston-pump with rack

Description	Order No.	Weight
Electro-hydraulic 3-cylinder-radial-piston-pump	99962	24,0 kg

- Rack, with positioning
- Nominal capacity: 0.75 kW
- Voltage: 3 x 400V 50Hz
- Delivery rate: 0.82 l/min.

Description	Order No.	Weight
Electro-hydraulic 3-cylinder-radial-piston-pump	90406	24,0 kg

- Rack
- Nominal capacity: 0.75 kW
- Voltage: 3 x 400V 50Hz
- Delivery rate : 0.82 l/min.

Description	Order No.	Weight
Electro-hydraulic 3-cylinder-radial-piston-pump	90416	30,0 kg

- Rack, with positioning
- Nominal capacity: 0.75 kW
- Voltage: 230V 50Hz
- Delivery rate: 0.64 l/min.



Art.-no.: 91421

Description	Order No.	Weight
Electro-hydraulic 3-cylinder-radial-piston-pump	90415	24,0 kg

- Rack
- Nominal capacity: 0.75 kW
- Voltage: 230V 50Hz,
- Delivery rate: 0.64 l/min.

Description	Order No.	Weight
Electro-hydraulic 3-cylinder-radial-piston-pump	91421	24,0 kg

- rack, with positioning,
- nominal capacity: 0.75 kW, with automatical pressure switching-off and connection for end switch (for BLS120), voltage 3 x 400V 50Hz, delivery rate 0.82 l/min.