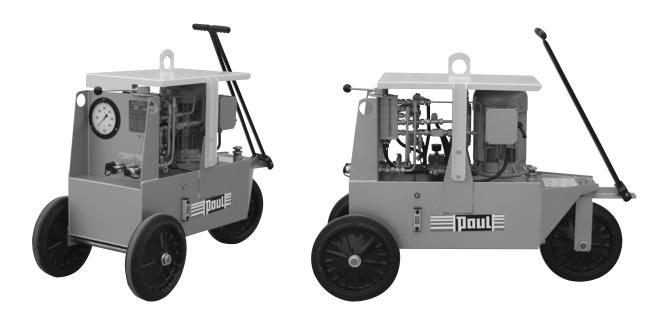
Hydraulic Pump Unit Type 77-220.00





The hydraulic pump unit type 77-220.00 is suitable for the operation of all TENSA M stressing jacks (see brochure B 143.29/1).

It can also be used in conjunction with:

- Two-hose stressing jacks (brochure B 141.20/1)
- TENSA SM 240 kN stressing jack and TENSA 220 kN overstressing jack (brochure B 143.26/1)
- 300 kN twin stressing jacks (brochure B 141.23/1)
- Stressing jacks with hydraulic stressing grip if an additional control block is fitted.

Control is effected manually by means of a 5/4-way directional control valve.

Functions

Stressing

Pulling the prestressing wire/strand. The stressing pressure is infinitely variable between 0-650 bar.

Zero position

The stressing pressure is maintained. The pump returns the oil under no pressure to the tank.

Wedge-seating/lock-off

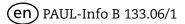
Seating of the anchor wedges within their tapered holes. The wedge seating pressure can be infinitely varied between 0-450 bar.

Retraction

The retracting pressure is adjustable between 0-200 bar.

Fine pressure release

An additional valve provides for releasing the stressing pressure, e.g. to detension an overstressed wire/strand.



Technical Data		
Drive	Three-phase motor, 1500 rpm for output and supply voltage, see Ordering Data "Motor group"	
Pump	High-pressure radial-piston pump	
Working pressure	max. 650 bar	
Control	Manual with 5/4-way directional control valve, Functions: SP - 0 - V - R - fine pressure release Pressure gauge connections M 16 x 2	
Oil filling	See sheet B 541.01/2, total oil capacity approx. 90 l, useful oil capacity approx. 50 l	
Dimensions (approx.)	1400 mm x 700 mm x 1080 mm (L x W x H) Wheel dia. 400 mm Weight 220 kg (without oil filling)	
Manometer	600 bar, class 1.0	

* stressing (SP) - zero position (0) - wedge seating (V) - retraction (R)

Ordering Data

Oracing Data		
		Order No.
Basic unit	(see circuit diagram 77-211 Bl. 22)	77-220.00
High-pressure pump	Delivery flow 5.8 / 11.6 l/min (manual change-over) 3.7 / 7.4 l/min (manual change-over) 7.4 l/min	78-089.00 78-090.00 78-090.10
Motor group (tropicalized)	400 V 50 Hz 7.5 kW (motor 400 / 690 V, 50 Hz) 346 V 50 Hz 7.5 kW (motor 346 V, 50 Hz, delta) 208 V 60 Hz 7.5 kW (motor 208 V, 60 Hz, delta) 460 V ± 10% 60 Hz 9.0 kW * (motor 230 / 400 V +/- 10%, 50 Hz, 7.5 kW and 230 / 460 V +/- 10%, 60 Hz, 9.0 kW, 100% duty cycle) 400 V 50 Hz 9.2 kW (motor 400 / 660 V, 50 Hz for 5.8/11.6 l/min) * This motor can be connected on the terminal board for the voltages indicated! It is then also necessary to replace the protective motor switch insert! for 230 V 50 Hz (24-37 A)	77-168.00 77-168.01 77-168.02 77-168.03 77-184.00
	for 230 V 50 Hz (24-37 A) for 230 V 60 Hz (24-37 A) for 400 V 50 Hz (17.3-25 A) for 460 V 60 Hz (17.3-25 A)	24-267.08 24-267.09 24-266.23 24-266.19
Spare parts kit	"medium" for basic unit and high-pressure pump "ample" for basic unit and high-pressure pump for Motor group 400 V 50 Hz for Motor group 400 V 50 Hz 9.2 kW for Motor group 460 V 60 Hz	77-220.02 77-220.03 77-168.07 77-168.08 77-168.09
Set of hydraulic couplings	PN 500 bar, ND 8 (1 x stressing socket SVM 3/8", 1 x wedge-seating socket T 3/8", 1 x retraction socket T 1/2") PN 700 bar, ND 8 (1 x stressing plug P 3010-3 3/8", 1 x wedge-seating socket P 3050-3 3/8", 1 x retraction socket P 3050-3 3/8")	77-134.39 77-134.40
Connection cable	0.7 m long, with 32 Amp Cekon power plug and coupling 10.0 m long, with 32 Amp Cekon power plug (without coupling)	77-168.05 77-168.06
Test pressure gauge	600 bar, 160 dia., with storage case and measuring hose for M 16 x 2 x 1 m	77-179.00
Pneumatic tyres	(instead of Ø 400 solid rubber tyres)	77-138.12
Hydraulic hoses	PN 700, ND 10 5 m 10 m Different lengths on inquiry.	13-070.21 13-070.28



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