

P R E S T R E S S E D
C O N C R E T E



T E C H N O L O G Y

Mini Stressing Jacks

Stressing capacity
60 / 160 kN



lightweight – handy – versatile
for solid wire and strand up to
16 mm

The all-rounders

The robust PAUL mini stressing jacks are designed to suit every prestressing requirement – from the smallest precast concrete element to the largest beam. They are fast and easy to use and can be operated from any pump.

The retract operation of the stressing piston, clamping jaws and the wedge-seating piston are actuated via a spring. The clamping jaws are located in the rear part of the jack and can be changed very quickly after removing the cap.

The mini stressing jacks can be operated from almost all PAUL pump units by using an adapter kit or special coupling. However, in most cases they are connected to a mini pump unit according to leaflet B 131.11/1.

In the simplest version they are operated from a hand pump via a hydraulic hose.



Fig. 1 160 kN Mini stressing jack (74-033.00) with Mini pump unit (77-122.00 or 77-148.00) (see B 131.11/1) and Hydr. manual control valve (13-096.00)



Fig. 2 160 kN Mini stressing jack (74-033.00) with Mini pump unit (77-209.15)



Fig. 3 60 kN Mini stressing jack (72-026.00) with Hand pump (78-084.00) (see B 592.01) Hose (13-070.14) (see B 130.01/2) Coupling socket (25-160.25) and Screw coupling (25-108.10)

Use with other PAUL Pump Units

With an adapter kit or special coupling the mini stressing jack can also be connected to almost all PAUL hydraulic, automatic pump units.

If necessary, the mini stressing jack can then quickly replace your automatic jack, e.g.

- on applications where your automatic jack would be too large.
- if unusual wire diameters are to be stressed from time to time.

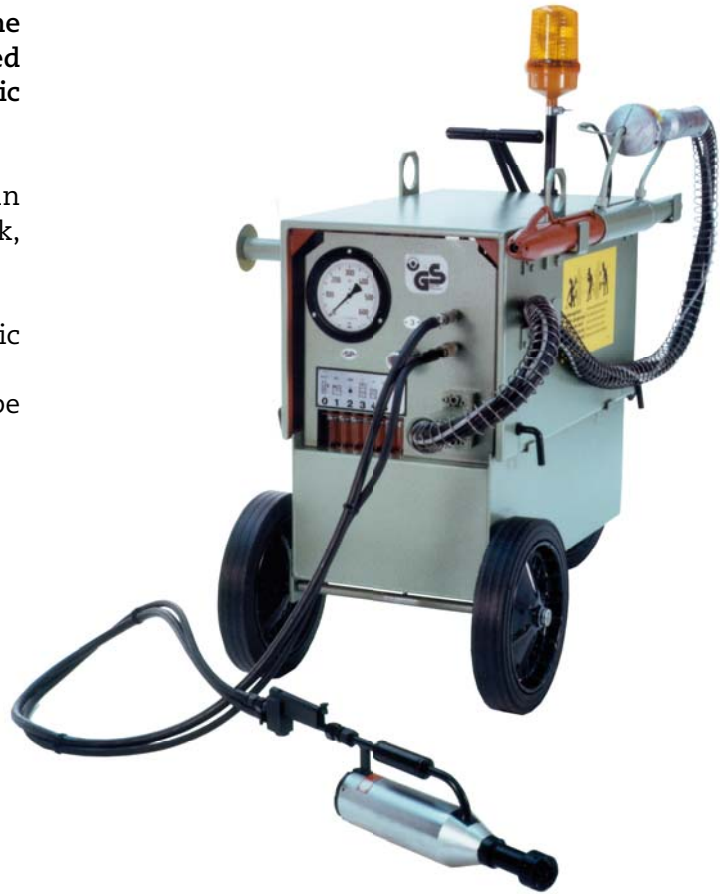
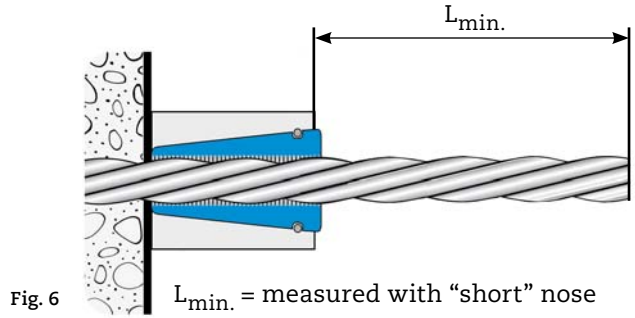
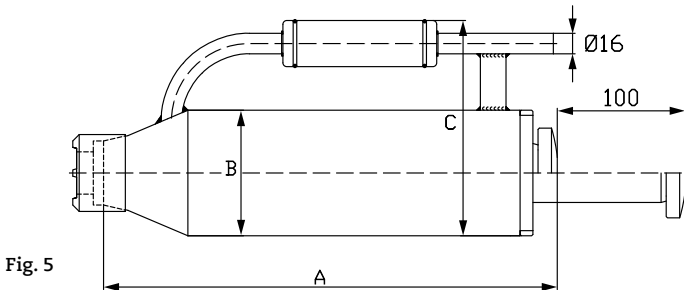


Fig. 4 Mini stressing jack connected to the pump, control and measuring unit (77-024.00) with Hydraulic manual control valve (13-096.00) and Adapter kit (77-024.10).

Connection possibilities

Pump unit	77-024.00	77-043.00	78-037.00
Required for the hydraulic connection:	1 Adapter kit for pumps manufactured as from 1st June 1976: 77-024.00	1 Adapter kit for pumps manufactured as from 1st June 1976: 77-043.02	1 Adapter kit for pumps manufactured as from 1st June 1976: 78-037.02
	1 Hydr. hand control valve 13-096.00	1 Hydr. hand control valve 13-096.00	1 Hydr. hand control valve 13-096.00
Required for the electric connection:	1 Electr. hand control 72-546.00 1 Special coupling piece 72-413.00 1 Double connection 77-027.00 (if a second stressing jack or a cutter, etc. is to be connected)	1 Electr. hand control 72-546.00	



Stressing jack	Stressing force kN (without friction)		Theoretical stressing speed in cm/s at pump delivery		Stroke mm	Weight kg	Inside dimensions mm			Outside dimensions mm			L _{min.} mm
	Piston area cm ²	at 420 bar	3.0 l/min.	5.8 l/min.			Cyl. Ø	Guide tube Ø	Center hole	A	B	C	
60 kN	16.5	69.3	3.0	5.8	100	5.5	50	20	8	318	60	135	258
160 kN	43.2	181.4	1.1	2.2	100	14.5	80	30	18	354	98	170	315

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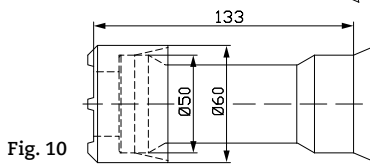
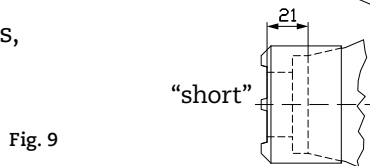
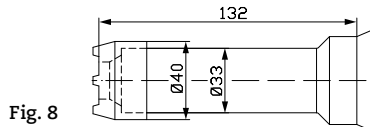
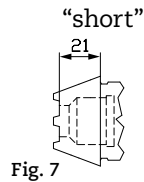
Ordering Data

		Order No.
Mini stressing jack 60 kN	without stressing head, head adapter, clamping jaws, control	72-026.00
Mini stressing jack 160 kN	without stressing head, head adapter, clamping jaws, control	74-033.00
Hydr. hand control valve	incl. hydraulic hoses 2500 mm long (Str. = SVS 3/8", R = T 3/8")	13-096.00
Electr. hand control	incl. hydraulic hose 2500 mm long (SVS 3/8") and electr. cable	72-546.00

Stressing head

complete, but without head adapter (see 10-790 Bl. 5)

For suitable clamping jaws, see sheet 83-601 Bl. 1; if need be, it is also possible to use anchor wedges as per brochure B 146.01/1 as clamping jaws, i.e. type 22 wedges for the 60 kN mini jack and type 34 wedges, 40 or 45 mm long for the 160 kN jack.



		Order No.
60 kN for A/F 20,5/14	bore dia. Ø 8 mm	72-026.09
60 kN for A/F 24/16	bore dia. Ø 8 mm	72-026.10
160 kN for A/F 20,5/14	bore dia. Ø 9 mm	74-033.27
160 kN for A/F 24/16	bore dia. Ø 9 mm	74-033.28
(no head adapter required)		

60 kN for A/F 20,5/14-30/22	bore dia. Ø 8 mm	72-026.11
160 kN for A/F 20,5/14-30/22	bore dia. Ø 9 mm	72-033.21

160 kN for A/F 30/22-45/34	bore dia. Ø 9 mm	74-033.15
160 kN for A/F 30/22-45/34	bore dia. Ø 14 mm	74-033.16
160 kN for A/F 30/22-45/34	bore dia. Ø 18 mm	74-033.17

160 kN for A/F 30/22-45/34	bore dia. Ø 9 mm	74-033.18
160 kN for A/F 30/22-45/34	bore dia. Ø 14 mm	74-033.19
160 kN for A/F 30/22-45/34	bore dia. Ø 18 mm	74-033.20

For standard offers, see price list

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