

# LIFTING TECHNOLOGY

## PIT JACK

**MPJ 20.0/750 1S FA**  
VP 454283



### MPJ 20.0/750 1S FA

#### VP 454283

The pit jack lifts up to 20.0 t. The floor-running axle and transmission jack with 750 mm stroke moves freely, at 1000 kg it automatically lowers. The manual hydraulic drive unit enables pneumatic rapid control for fast movement of the piston rod when there is no load. The equipment also includes an air motor with hand control for lifting the piston rod under load.

#### PRODUCT DETAILS/ACCESSORIES

1-stage telescopic, free-moving, floor-running

##### Description:

Automatic pit jack with pneumatic motor and fast control  
Specifically for wheel/brake works in conjunction with axle lifting beams and support systems for trucks and buses with 20.0 t load capacity

##### Control:

- Efficient fast control for UP and DOWN movement integrated as standard
- Precision, user-friendly, pneumatic manual control cylinder with magnetic bracket for convenient and flexible quick stroke and load lifting with enlarged view into operator radius
- Delicate and precision lowering of the pit jack with tried & tested system with integrated dead man's control

##### Design:

- Freely movable floor-running pit jack for flexible use at various work locations, e.g. workshops or work pit
- Floor-running carriage with four guide rollers, two of which are

fitted with brakes to prevent rolling away (without load)

- Spring-based roll guard: jack automatically lowers itself to floor once a load capacity of about 1000 kg is reached, securing itself in the process
- Almost unobstructed passage through the work pit thanks to floor-running carriage
- Piston support can be increased by max. 2 x 200 mm (option for very deep pits)
- Integrated inspection window for checking oil quality and quantity of the pit jack
- Corrosion-resistant piston rods thanks to self-lubrication
- High-quality powder-coating protects against corrosive liquids and elevates quality look and feel on a lasting basis

##### Scope of delivery:

- Pit jack with hydro-pneumatic automatic control system
- Carriage with four guide rollers
- Standard support lugs 120 x 120 mm
- Operating instructions
- EC conformity certificate
- Colour: Jack base frame RAL 7040
  - Attachments and carriage RAL 7016

#### TECHNICAL DATA

|                                 |                   |
|---------------------------------|-------------------|
| Load capacity (CE)              | 20,000 kg         |
| Stroke distance                 | 750 mm            |
| Lifting levels                  | 1                 |
| Min. load pick-up height        | 1189 mm           |
| Max. lifting height             | 1939 mm           |
| Carriage (L x W)                | 1010 x 760 mm     |
| Rollers                         | 80 mm (polyamide) |
| Support diameter inside/outside | 45/70 mm          |
| Piston rod diameter             | 70 mm             |
| Oil quantity/quality            | 15.3 l / HLP-D 10 |
| Drive                           | 350 l/min. 11 bar |

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|                    |         |
|--------------------|---------|
| Operating pressure | 308 bar |
| Weight             | 193 kg  |

## ACCESSORIES

### ACCESSORIES - CARRIAGE

|           |  |
|-----------|--|
| VZ 975920 | Jack-mounted compressed air maintenance unit                 |
| VZ 975576 | Piston support extension for very deep pits 200 mm extenders |

### ACCESSORIES - TRAVERSES, SUPPORT BRIDGES, SUPPORT SYST.

|           |   |
|-----------|---|
| VZ 975670 | Self-locking axle lifting beam with 14.5 t support system MODEL: SAT 14.5-760       |
| VZ 975813 | Self-locking axle lifting beam with 14.5 t support system MODEL: SAT 14.5-820       |
| VZ 975622 | Self-locking axle lifting beam with 14.5 t support system MODEL: SAT 14.5-910 STOCK |
| VZ 975741 | Self-locking axle lifting beam with 14.5 t support system MODEL: SAT 14.5-910L      |
| VZ 975743 | SAT Rollers Retrofit Kit, Spring Mounted, with Plastic Rollers                      |
| VZ 975814 | SAT Wheel Deflector Plates (2 pcs)  |
| VZ 975820 | Spacer Block for Support Systems SAT (65 x 110 x 320 mm)                            |
| VZ 975903 | Axle lifting beam up to 15 t Adjustment range max. 1010 mm MODEL: AT 15             |
| VZ 975688 | Axle Traverse Length Variation  |
| VZ 975906 | Axle traverse Long for busses, com. vehicles, 16.5t load cap. MODEL: AT 16.5 L1500  |
| VZ 975696 | Axle Crossbar Load Capacity 3.5 t Model: ATV 3.5                                    |
| VZ 975925 | Support bridge for axle traverses up to 14.5 t load capac. MODEL: TAB 15            |
| VZ 975326 | Support Bridge AB w/o Centre Cut-Out up to 14,5 t Load Cpc. MODEL: AB 15            |
| VZ 975686 | Support System Version D/F  |
| VZ 975687 | Support System Version E  |

### ACCESSORIES - LOAD LIFTING PADS, LIFTING PADS, EXTENDERS, SUPPORT TUBES

|           |   |
|-----------|---|
| VZ 975280 | Narrow Lifting Pad, 20 t Load Capacity, galvanized, up to 100 mm (Pin Diameter 45 mm) |
| VZ 975285 | Large Lifting Pad, galvanized, Load Capacity 20 t MODEL: GP 175/20                    |
| VZ 975283 | Large Lifting Pad, galvanized, Load Capacity 16.5 t MODEL: GP 220                     |
| VZ 975569 | Pads with mushroom support N with pin diameter 45 mm MODEL: PS-N                      |

|           |   |
|-----------|---|
| VZ 975409 | Wooden Lifting Pad, 6 - 16 t Load Capacity, Prismatic Design, MODEL: HP 06-16 |
| VZ 975287 | Lifting Pad w. Rubber Surface, 11 t Load Capacity MODEL: RPG 10               |
| VZ 975289 | Plug-In Extender, L = 100 mm, MODEL: ZS 100/45                                |
| VZ 975290 | Plug-In Extender, L = 150 mm, MODEL: ZS 150/45                                |
| VZ 975410 | Plug-In Extender, L = 200 mm MODEL: ZS 200/45                                 |
| VZ 971221 | Support Plate Extension 100 mm galvanized (2 pcs.) Diameter of supports 35 mm |
| VZ 975330 | Support Tube L = 400 mm, Load Capacity: 20 t (Pin Diam. 45 mm)                |
| VZ 975331 | Support Tube L = 600 mm, Load Capacity: 20 t (Pin Diameter 45 mm)             |
| VZ 975571 | Support Tube L = 800 mm, Load Capacity: 15 t (Pin Diameter 45 mm)             |
| VZ 975414 | Spacer Block for Support Systems TAB (100 x 140 x 450 mm)                     |
| VZ 975732 | Gearbox Plate, Load Cpc. 1.0t Model: GP 1000                                  |
| VP 975915 | Gearbox Mounting Tool with swivelling flat supports MODEL: GMT 800            |
| VZ 975916 | Swivel supports for GMT 800 w. locking function                               |
| VZ 975917 | Angle clamp supports for GMT 800 with rubber pad                              |
| VZ 975918 | Semicircular flex supports for GMT 800 with rubber pads                       |
| VZ 975611 | Pit crossing continuously adjustable for pits w/o wheel guides                |
| VZ 975612 | Pit crossing continuously adjustable for pits with wheel guides               |
| VZ 975613 | Railings for pit crossing continuously adjustable                             |

### SUPPLEMENTARY CHARGES

|           |  |
|-----------|--|
| VT 998207 | Transport Werkverkehr -SÜDGruben-, Achs-, Getriebeheber Abstützsystem (pro Packstück)  |
| VT 998208 | Transport Werkverkehr -NORDGruben-, Achs-, Getriebeheber Abstützsystem (pro Packstück) |
| VM 996148 | Montagekosten Grubenheber  |
| VV 997600 | Packaging Floor-running jack not stackable -EUROPE/OVERSEAS-                           |
| VV 997601 | Packaging Lifting beams, gearbox plates, stackable -EUROPE/OVERSEAS-                   |