

# LIFTING TECHNOLOGY

## PIT JACK

MPJ 16.5/750 1S HA STOCK  
VP 454276



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The suspended pit jack lifts up to 16.5 t. The overhead rail pit jack, with deep-drawn carriage and long 750 mm stroke, is suitable for work with or without axle crossbeams and support systems. Compressed-air rapid control provides fast up and down movement when there is no load. The equipment also includes an air motor for lifting the piston rod under load.

#### PRODUCT DETAILS/ACCESSORIES

1-stage telescopic, rail-guided, suspended

##### Description:

Automatic pit jack with pneumatic motor and fast control  
Specifically for wheel and brake works and dismantling smaller assemblies in conjunction with axle lifting beams and support systems for trucks and buses with 16.5 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 (>&gt;) tested system with integrated dead man's control

##### Design:

- For precise movement, the pit jack is rail-guided at the top edge of the pit

- Guarantees easy movement of the pit jack since all rollers are fitted with needle bearings crossways and lengthways
- Long total stroke of 750 mm to reach high-up units
- The pit jack is fitted with a downward deep-drawn P carriage for integrating an axle lifting beam at any height
- Alternatively, a straight S carriage can be used too
- Variable modular carriage system for various pit widths (700 - 1200mm) in conjunction with different roller versions and clearance degrees for adapting to work pit circumstances
- 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
- Deep-drawn P carriage and rollers for rails
- 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)                          | 16,500 kg     |
| Stroke distance                             | 750 mm        |
| Lifting levels                              | 1             |
| Min. pick-up height from roller slide rail  | - 69 mm       |
| Pit jack depth for roller slide rail        | 1070 mm       |
| Max. lifting height above roller slide rail | 681 mm        |
| Slide rail width inner dimensions           | 700 - 1200 mm |
| Carriage adjustable range                   | 140 mm        |
| Roller rest width                           | 40 mm         |
| Roller rest incline                         | 8 % / 4.6°    |

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|  |                   |
|--|-------------------|
| Max. parallelism deviation slide rails | 10 mm             |
| Roller diameter (at the flange)        | 80 (95) mm        |
| Support diameter inside/outside        | 45/70 mm          |
| Piston rod diameter                    | 70 mm             |
| Oil quantity/quality                   | 9.5 l / HLP-D 10  |
| Drive                                  | 350 l/min. 11 bar |
| Operating pressure                     | 254 bar           |
| Weight                                 | 239 kg            |

## ACCESSORIES

|           |   |                              |  |
|-----------|---|------------------------------|--|
| VZ 975920 | Jack-mounted compressed air maintenance unit  | VZ 975409                    | Wooden Lifting Pad, 6 - 16 t Load Capacity, Prismatic Design, MODEL: HP 06-16  |
| VZ 975923 | S-carriage for suspended pit jacks up to 16.5 t -EXTRA CHARGE-                        | VZ 975287                    | Lifting Pad w. Rubber Surface, 11 t Load Capacity MODEL: RPG 10                |
| VZ 975605 | Offset rollers for suspended pit jacks of up to 16.5 t -EXTRA CHARGE-                 | VZ 975289                    | Plug-In Extender, L = 100 mm, MODEL: ZS 100/45                                 |
| VZ 975924 | Cylindrical rollers for suspended pit jacks in pit profile rails                      | VZ 975290                    | Plug-In Extender, L = 150 mm, MODEL: ZS 150/45                                 |
| VZ 920092 | Adaption pit jack to TRUCKBAY prefabricated pit load capacity (CE) 15,0 t             | VZ 975410                    | Plug-In Extender, L = 200 mm MODEL: ZS 200/45                                  |
| VZ 975670 | Self-locking axle lifting beam with 14.5 t support system MODEL: SAT 14.5-760         | VZ 971221                    | Support Plate Extension 100 mm galvanized (2 pcs.) Diameter of supports 35 mm  |
| VZ 975813 | Self-locking axle lifting beam with 14.5 t support system MODEL: SAT 14.5-820         | VZ 975330                    | Support Tube L = 400 mm, Load Capacity: 20 t (Pin Diam. 45 mm)                 |
| VZ 975622 | Self-locking axle lifting beam with 14.5 t support system MODEL: SAT 14.5-910 STOCK   | VZ 975331                    | Support Tube L = 600 mm, Load Capacity: 20 t (Pin Diameter 45 mm)              |
| VZ 975741 | Self-locking axle lifting beam with 14.5 t support system MODEL: SAT 14.5-910L        | VZ 975571                    | Support Tube L = 800 mm, Load Capacity: 15 t (Pin Diameter 45 mm)              |
| VZ 975743 | SAT Rollers Retrofit Kit, Spring Mounted, with Plastic Rollers                        | VZ 975414                    | Spacer Block for Support Systems TAB (100 x 140 x 450 mm)                      |
| VZ 975814 | SAT Wheel Deflector Plates (2 pcs)  | VZ 975732                    | Gearbox Plate, Load Cpc. 1.0t Model: GP 1000                                   |
| VZ 975820 | Spacer Block for Support Systems SAT (65 x 110 x 320 mm)                              | VP 975915                    | Gearbox Mounting Tool with swivelling flat supports MODEL: GMT 800             |
| VZ 975903 | Axle lifting beam up to 15 t Adjustment range max. 1010 mm MODEL: AT 15               | VZ 975916                    | Swivel supports for GMT 800 w. locking function                                |
| VZ 975688 | Axle Traverse Length Variation  | VZ 975917                    | Angle clamp supports for GMT 800 with rubber pad                               |
| VZ 975906 | Axle traverse Long for busses, com. vehicles, 16.5t load cap. MODEL: AT 16.5 L1500    | VZ 975918                    | Semicircular flex supports for GMT 800 with rubber pads                        |
| VZ 975696 | Axle Crossbar Load Capacity 3.5 t Model: ATV 3.5                                      | VZ 975611                    | Pit crossing continuously adjustable for pits w/o wheel guides                 |
| VZ 975925 | Support bridge for axle traverses up to 14.5 t load capac. MODEL: TAB 15              | VZ 975612                    | Pit crossing continuously adjustable for pits with wheel guides                |
| VZ 975326 | Support Bridge AB w/o Centre Cut-Out up to 14,5 t Load Cpc. MODEL: AB 15              | VZ 975613                    | Railings for pit crossing continuously adjustable                              |
| VZ 975686 | Support System Version D/F  | <b>SUPPLEMENTARY CHARGES</b> |  |
| VZ 975687 | Support System Version E  | VT 998207                    | Internal transport -SOUTH Pit, Axle, Gearbox jack Support system (per package) |
| VZ 975280 | Narrow Lifting Pad, 20 t Load Capacity, galvanized, up to 100 mm (Pin Diameter 45 mm) | VT 998208                    | Internal transport -NORTH Pit, Axle, Gearbox jack Support system (per package) |
| VZ 975285 | Large Lifting Pad, galvanized, Load Capacity 20 t MODEL: GP 175/20                    | VM 996148                    | Montagekosten Grubenheber  |
| VZ 975283 | Large Lifting Pad, galvanized, Load Capacity 16.5 t MODEL: GP 220                     | VV 997598                    | Packaging Suspended pit jack not stackable -EUROPE-                            |
| VZ 975569 | Pads with mushroom support N with pin diameter 45 mm MODEL: PS-N                      | VV 997599                    | Packaging Suspended pit jack stackable -EUROPE/OVERSEAS-                       |
|           |   | VV 997601                    | Packaging Lifting beams, gearbox plates, stackable -EUROPE/OVERSEAS-           |