

Hydraulic Lifting Unit with Rotating Plate and Tilting Equipment



Application

With the axis lifting, tilting and rotating the lifting unit with rotating plate and tilting equipment offers a maximum of application possibilities and is particularly suitable for the use in manually-operated assembly processes. The productivity of lifting units is particularly advantageous, if there are frequent product changes and if continuous flexibility is required with regard to use as well as to adaptation.

Advantages

- Good accessibility
- High flexibility
- Improved productivity
- Optimised ergonomics
- Simple operation
- Short amortisation time

Industry/applications (selection)

- ◆ Drive technology, gears box assembly
- ◆ Couplings, cardan shafts
- ◆ Compressors, pumps, hydraulic elements
- ◆ Industrial fittings
- ◆ Materials-handling technology
- ◆ Automotive industry and their suppliers
- ◆ Machine tool building
- ◆ Building and agricultural machines
- ◆ Electronics

Operation

The stroke movement is obtained by a hydro-mechanical linear unit with single-lever actuation, with oil being pumped by means of a piston pump into a plunger cylinder. To lift the load, the foot pedal has to be depressed by approx. 45° several times. To lower the load, the foot lever has to be moved upwards by approx. 10°. Thereby the oil returns from the cylinder into the reservoir.

The rotating plate is positively locked in the positions 4 x 90°. To unlock the rotating plate the foot pedal has to be continuously depressed. The rotating plate is unlocked and can be rotated to the next position. By releasing the foot pedal the index bolt snaps in automatically.

Operation of the tilting equipment corresponds to the operation of the rotating plate. Indexing is made in position 0° and 90°.

Return springs keep the foot pedals in the off-positions.

Material

The base plate is made of black-oxide steel. The columns are made of anodized aluminium. The tilting equipment and the rotating plate made of black lacquered aluminium.

Application and installation instructions

The lifting units must be directly connected with the floor and the centre of gravity of the load to be lifted must be within the four fixing screws. Loading must only be effected centrally on the rotating plate. To operate the tilting equipment it is recommended to use additionally a tilting lever, if required. Max. load 1000 N at a distance of 200 mm to the rotating plate

Application example

Lifting unit for machining of sheet metal parts – engine bonnets and wings in the automotive industry

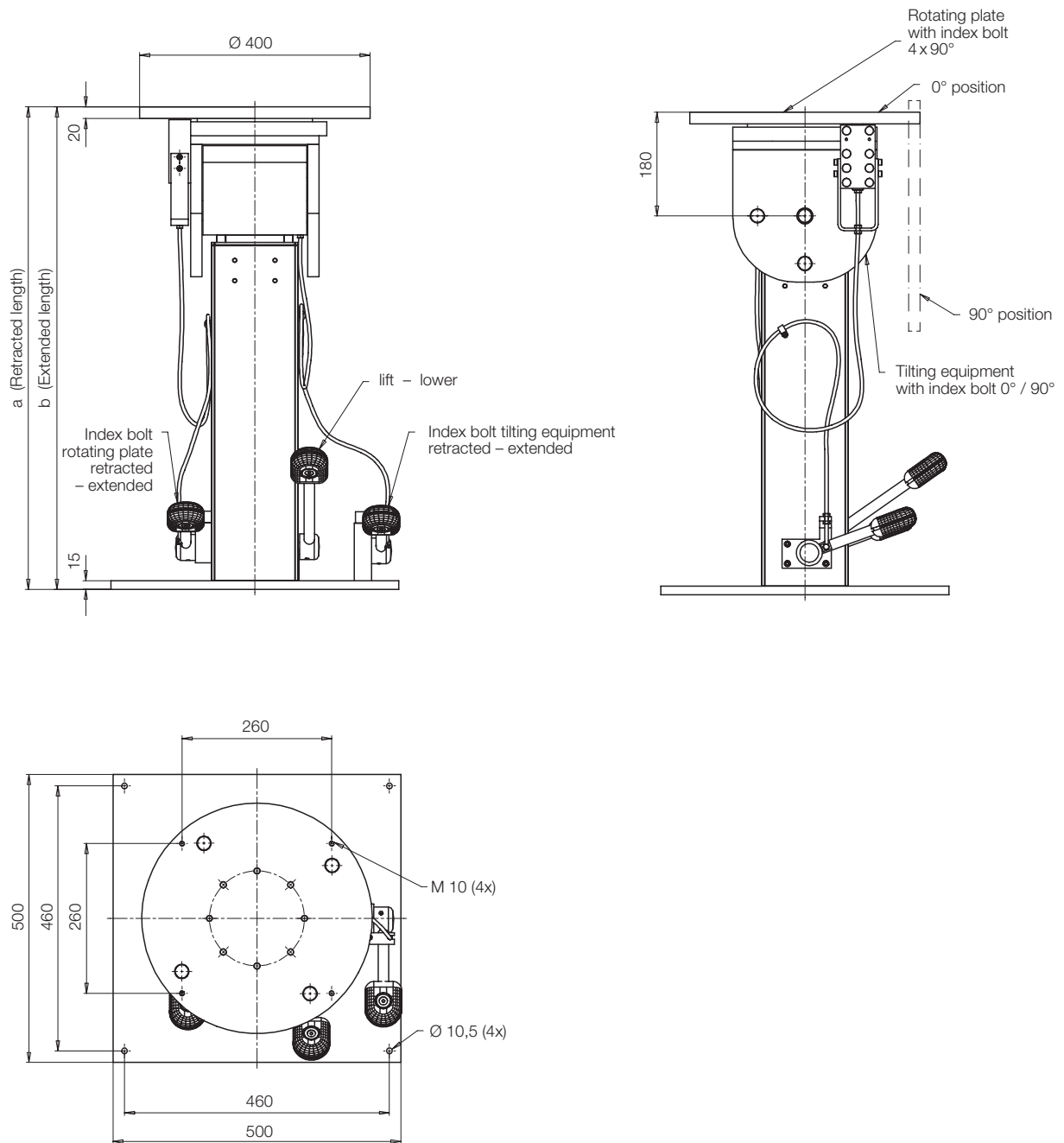


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Technical data Accessories



Technical characteristics

Line 8.911 F = 1 kN at max. 200 mm distance to the rotating plate

Stroke	[mm]	200	300	400	500	600
a	[mm]	638	738	838	938	1038
b	[mm]	838	1038	1238	1438	1638
No. of operations		16	25	33	41	50
Weight	[kg]	92	97	102	107	112
Part-no.		8911-425	8911-435	8911-445	8911-455	8911-465

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