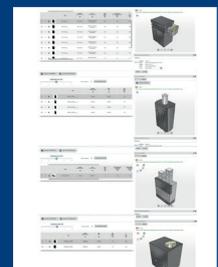


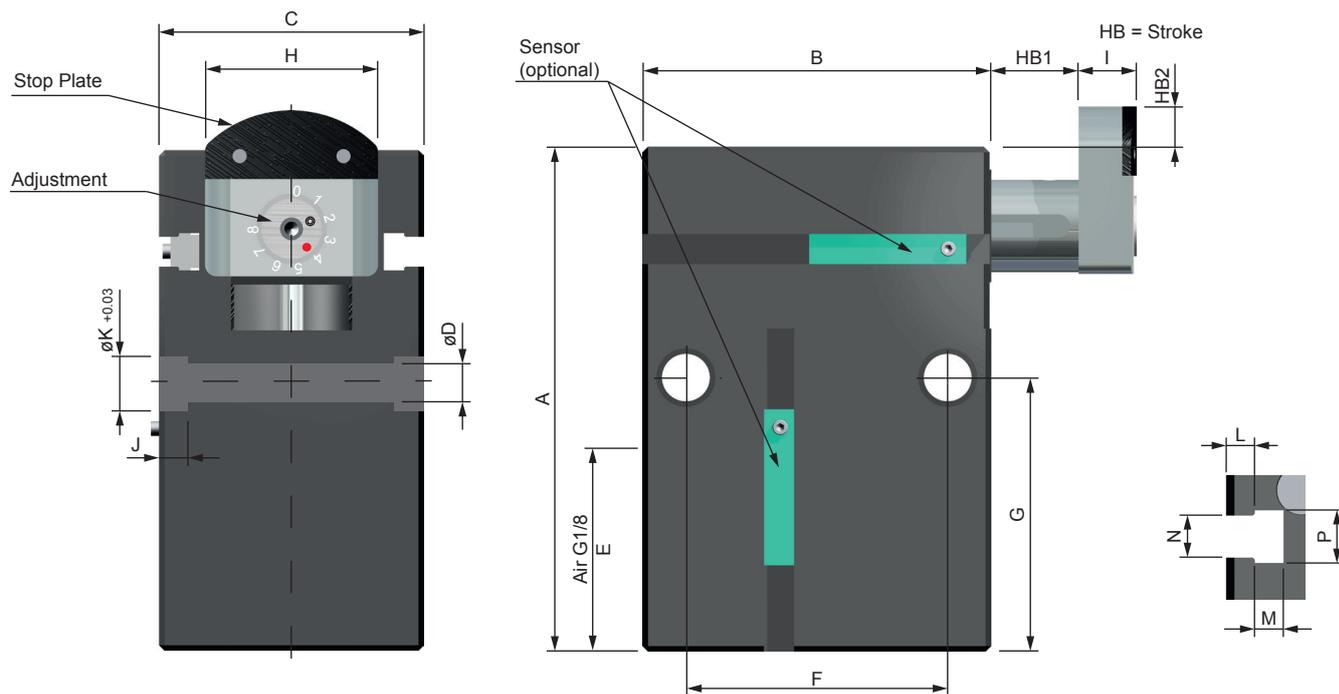
## Pallet Stoppers

WPS 500



**ONLINE**  
2D / 3D CAD Download





## DIMENSIONS

	HB1	HB2	A	B	C	ØD	E	F	G	H	I	J	ØK	L	M	N	P	R	Weight
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
WPS 500	20	15,0	154	124	72	M12	60	104,5	75,5	50	15	-	-	1,5	5	5,2	6,5	-	3,8

## PERFORMANCE

Speed		6 m/min	9 m/min	12 m/min	18 m/min	24 m/min	30 m/min	40 m/min
WPS 500	Mass (kg)	40 - 1200	40 - 1200	40 - 1200	40 - 1200	40 - 1000	40 - 600	40 - 300

## FRICTION

Mass	Friction
40 - 1200 kg	0,07 $\mu$

## MASS SPECIFICATIONS

Dimensions refer to the total weight (pallet with workpiece), they will be determined at a belt friction of 0,07  $\mu$ .

## Benefits

- Precise deceleration and singulation of pallets
- Adjustable hydraulic deceleration with pneumatic piston return
- Masses up to 1.200 kg and speeds up to 40 m/min
- Housing: aluminium, black anodized, Stop: nickel plated
- Hardened stop
- Sensor for end position (optional)
- Special version: pallet stopper for clean room Cl. 5 (ISO), Cl. 100 (US), Cl. 3 (VDI)
- RoHS compliant Directive 2002/95/EC

## Technical Data

Working Pressure	4 - 8 bar
Compressed Air	treated
Tube Diameter	6 - 8 mm
Stroke horizontal: WPS 500	20 mm
Stroke vertical: WPS 500	15 mm

Friction: 0,07 mü between pallet and conveyor band

Function: single-active  
open pneumatic  
close spring force

Pull down force (- spring force): 560 N at 6 bar

Air consumption: ca. 0,03l air at 6 bar

Operation - Air  
Pneumatic, filtered air: dry, oiled or unoled  
Pressurized air according ISO in 8573-1: Grade 4

Temperature  
-10 °C bis +80 °C

## Technical Data

### Maximum traffic jam pressure

- Depending on friction between pallet and transfer system
- Depending on friction between pallet and the poster
- Depending on the position of the pallet's poster
- Depending on the surroundings conditions

### Enquiry options

The WPS 500 owns 4-T grooves for various electronic query. About these enquiry options the positions of the poster are recognised.

### Maintenance

No maintenance works must be carried out.

Compressed air: dry, oiled or unoled; after ISO in 8573-1: Grade 4.

The area around the pallet stopper must be cleaned and free from shavings, to be able to guarantee exact positioning of the tool bearer.

### Piston diameter (for lowering)

WPS 500 Piston Ø32

### Precise setting

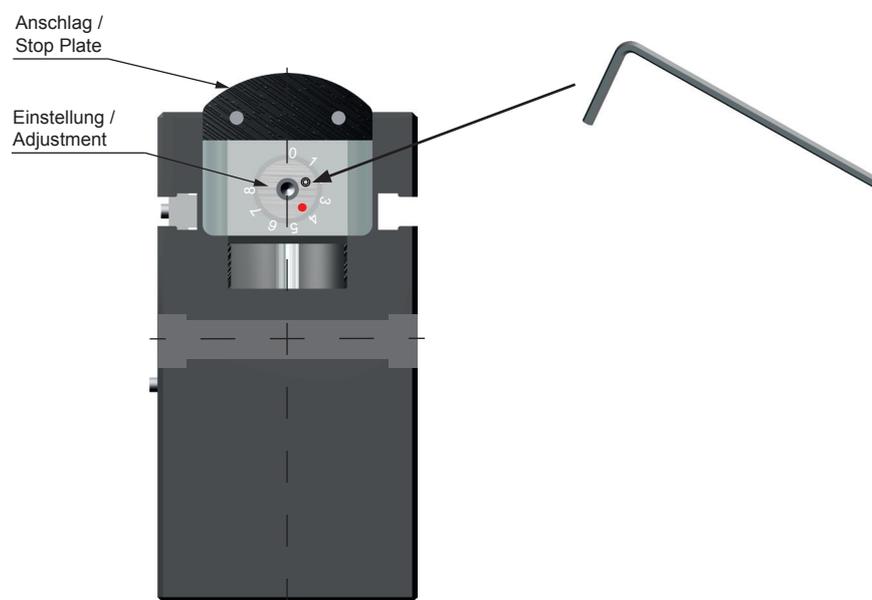
Energy absorption and speed can get set at the front side of the Pallet Stopper scale 0-8

0 = low effective mass

8 = high effective mass

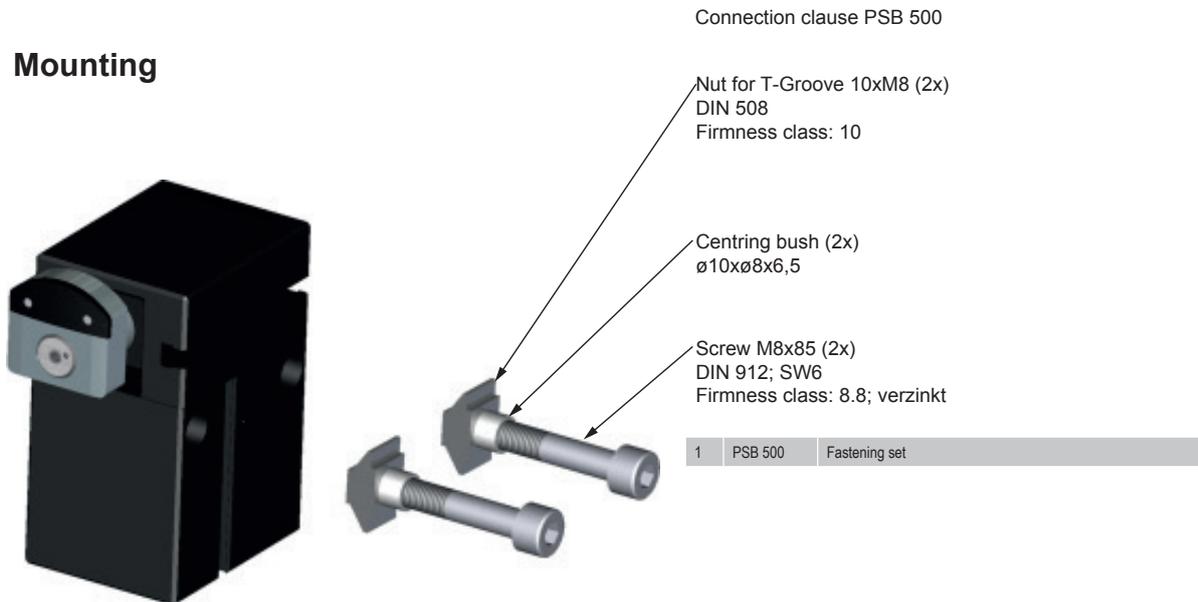
The shock absorber in the palette stopper is stopped in the plant on 8.

Is too high the damping force for the application, the clamping screw, in the adjusting screw, with the wrench must be solved. Then can turn the damping force by of the adjusting screw are adjusted. This should follow in several steps. If the shock absorber is then the clamping screw again screwed is properly stopped, around independent shifting that of the damping force to prevent.



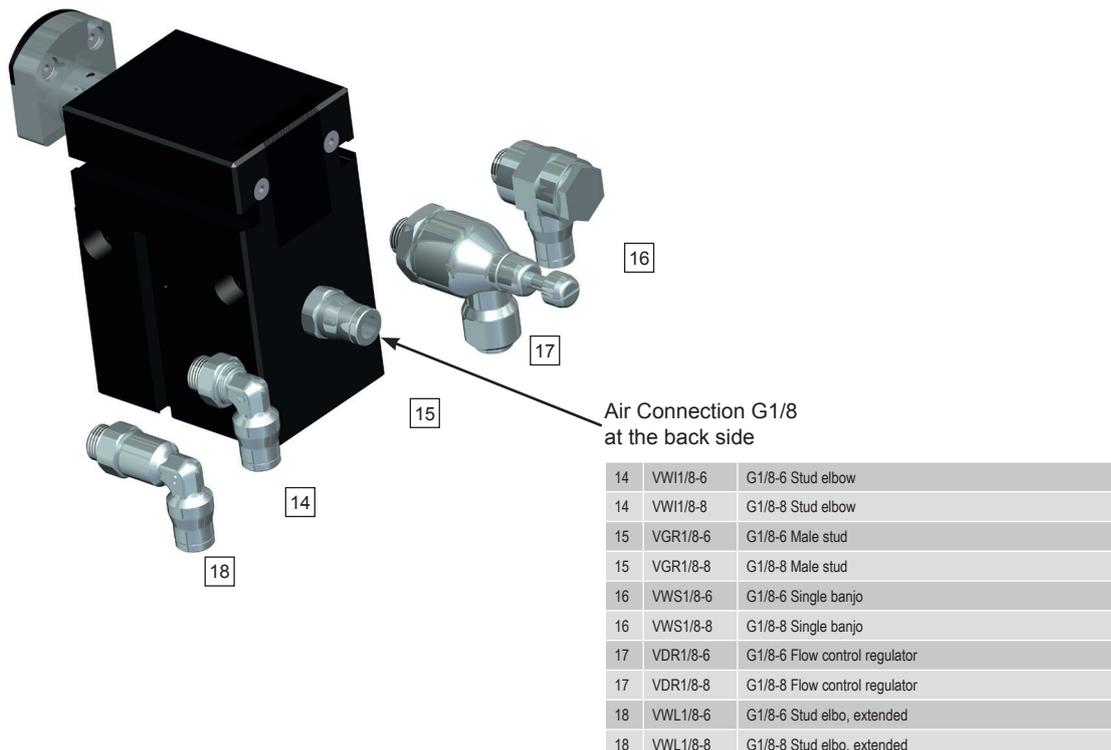
## Accessories

### Mounting

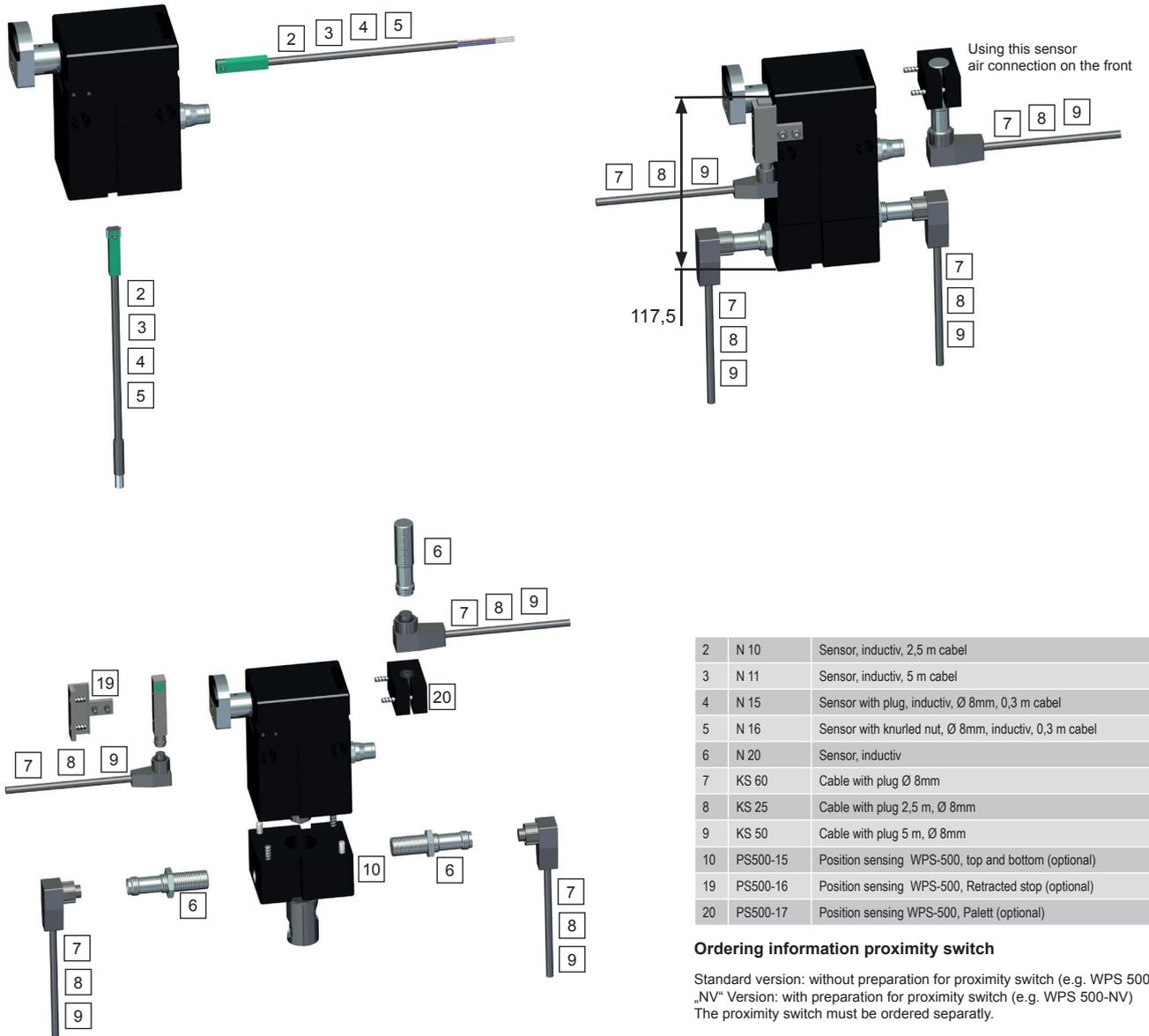


-The palette stopper is on both sides mountable

### Air Connection



## Sensors



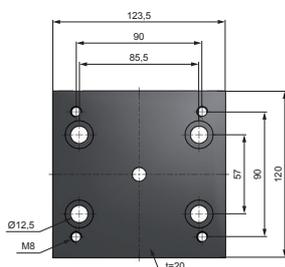
## Stop plate



11 PS500-1 Stop plate, steel, hardened (for replacement)

Steel (spare part)  
 (WPS 500: Art.Nr. / Code PS500-1)

## Mounting Flange

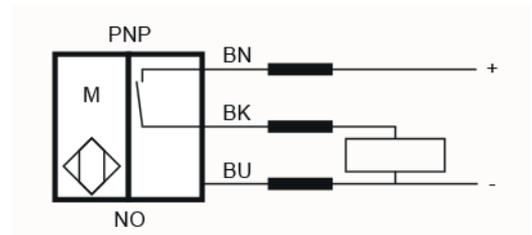


12 PS514 Mounting Flange

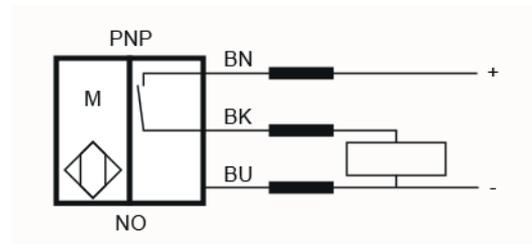
(WPS 500:  
 Art.Nr. / Code PS514)

## Circuit diagram

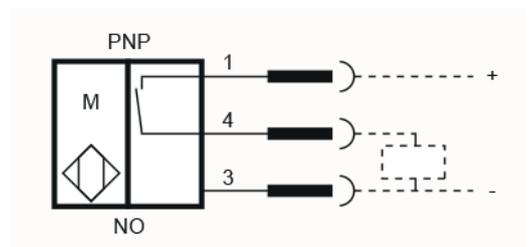
Proximity switch N10



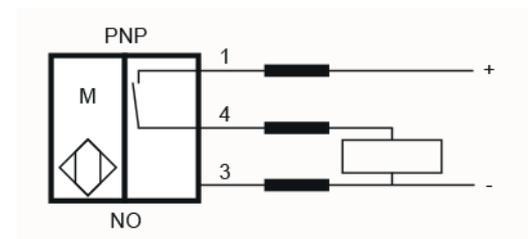
Proximity switch N11



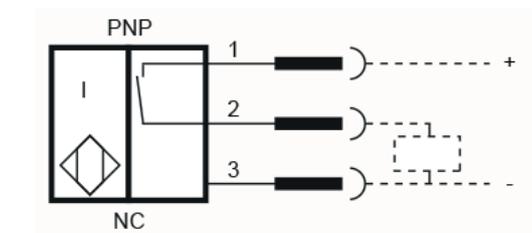
Proximity switch N15



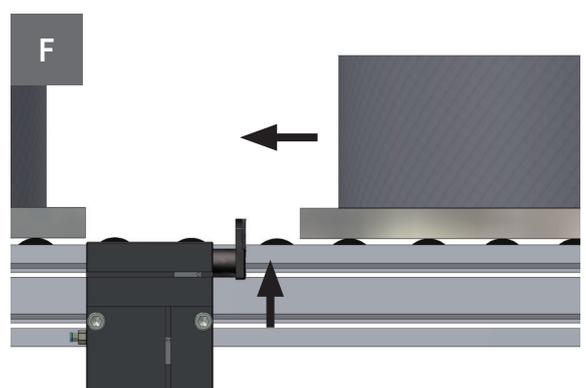
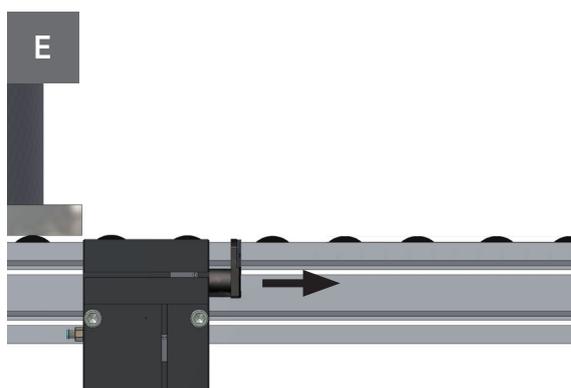
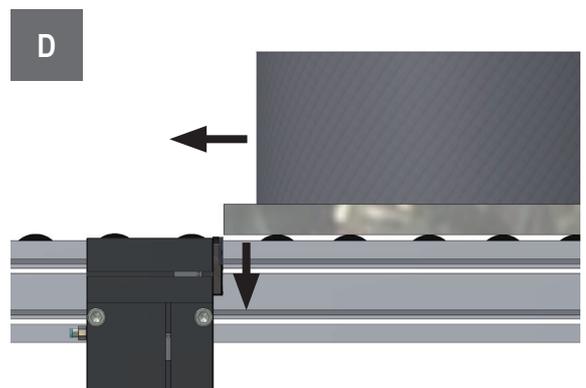
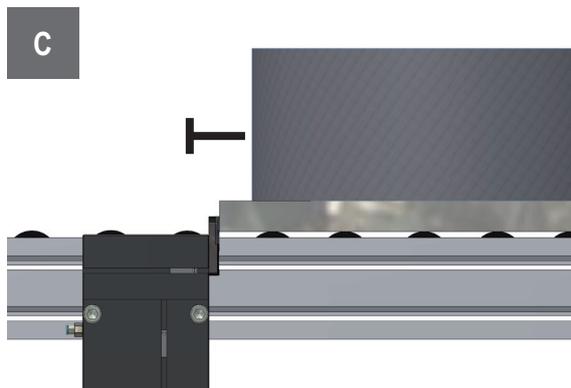
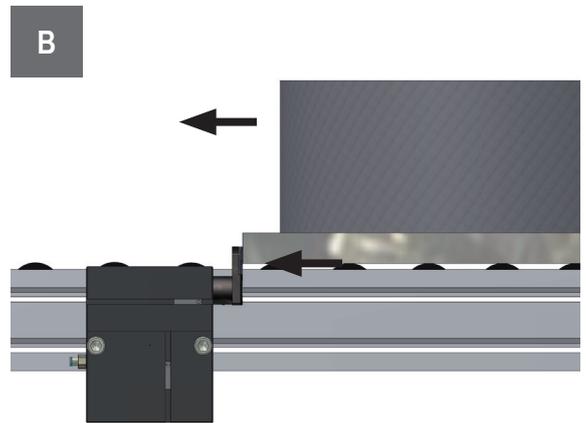
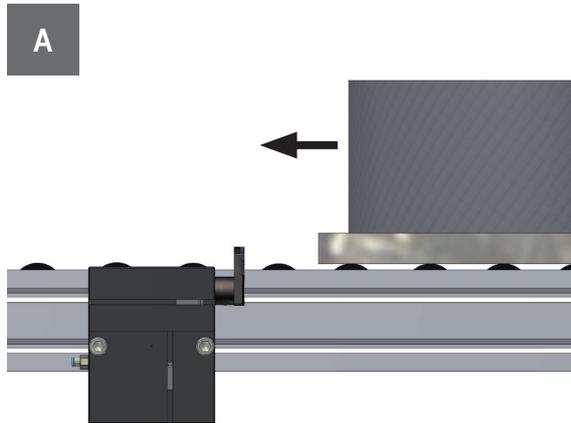
Proximity switch N16



Proximity switch N20



## Working Principle



## Shock absorber change

If the damping force of the shock absorber are not any more enough, he must be exchanged.

1. To be able to take the shock absorber from the palette stopper both screws must fix them the hold metal are unscrewed.

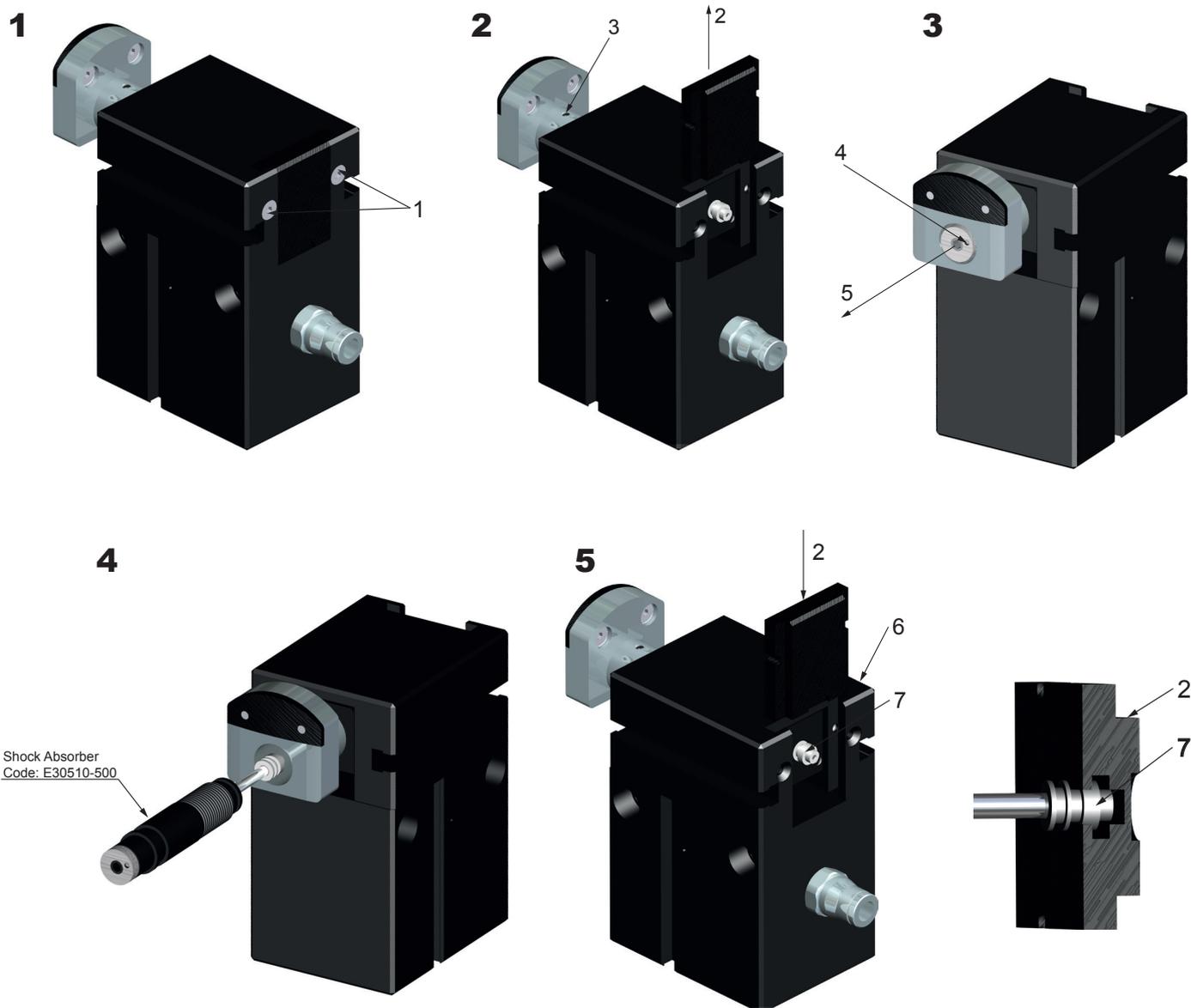
2. The hold metal is pushed upwards from the case cover. The headless screw in the admission socket to the fixation of the shock absorber serves must be completely unscrewed.

3. If then the clamping screw is fixed in the adjusting screw,

4. is able the shock absorber, with a wrench (SW 2.5) are unscrewed forwards from the palette stopper.

5. To the installation of the new shock absorber you proceed in the reverse order.

By mounting the holdplate (2) in the casecover (6), the guiding (7) of the Shock Absorber has to be mounted in the groove of the holdplate (see fig. 5)



## Safety Instructions

### Attention

For all work on or with the pallet stopper WPS, the data sheet must be observed. The work must be performed by trained, skilled personal.

Electrical connections must be in accordance with VDE0100 or the relevant national regulations.

Repair and maintenance:

Electricity and compressed air must be shut down.

The work area is to prevent against accidentally switch on of electricity and compressed air.

Reference temperature for all technical information: 20°C

At a higher temperatures the energy absorption or torque is reduced.

Maximum load:

If multiple pallets piled up in the transfer system and later given free individual, it must be ensured that when releasing the first pallet, the total mass of the following palettes exceed the maximum weight to be stopped at any time (see table: Performance)

Designated use

Stopping and positioning of one or several pallet(s) at the stop plate of the pallet.

The pallet stopper WPS 500 is designed for the separation of pallets. A load may occur only in the direction of work. The pallet stopper WPS 500 is not suitable for explosion-threatened

areas. Without written acceptance of Weforma the WPS 500 can not be used as a safety device.

The position of the stop must be detected.

### Liability - Guarantee

All warranty and liability claims expire at non-designated use.

This applies even if no original spare parts are used.

### Environment protection

The replacement of worn parts must be paid to proper disposal.

Wearing parts and complete stopper can be sent to

Weforma for free disposal.