

# PRINETO TOOL CHECK

Advice for handling and processing



1. Tool check .....	page 3
1.1 Expanding pliers .....	page 3
1.2 Pipe cutter .....	page 4
1.3 Sliding jaws .....	page 5
1.4 Expander bit .....	page 6
1.5 Tool adapter .....	page 7
1.6 Manual sliding pliers, ratchet .....	page 8
1.7 Manual sliding pliers, toggle lever .....	page 9
2. Processing advice for product properties .....	page 11
3. Processing advice in general .....	page 19
4. Spare parts and batteries .....	page 21
5. Status indication LED lamp .....	page 23

## 1.1 TOOL CHECK EXPANDING PLIERS

### ■ In general:

All tools must be in a proper and clean state, checked regularly for function, checked regularly for function and be lubricated with suitable greases or oils.

### Expanding pliers:

- Pliers and cone: check for dirt
- Expander head: check for dirt, rust and damage

### CAUTION:

- Handles must not collide when the expander head is screwed on
- If the handles collide, either the expander head or the pliers are worn out
- Cross-check with all expander heads and pliers is required, to determine which part is damaged



## 1.2 TOOL CHECK PIPE CUTTER

### Pipe cutter:

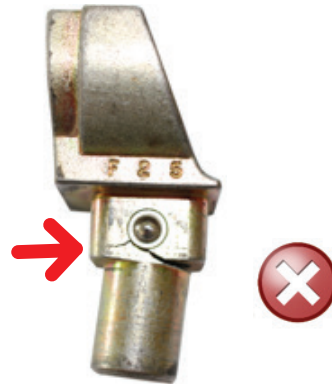
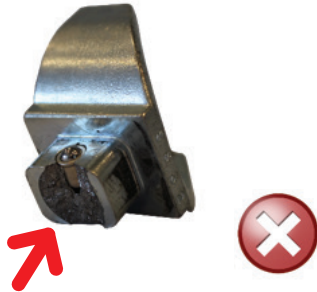
- Check blades for sharpness and notches and replace if necessary
- Check springs for breaks and replace if necessary (see photo on the right)
- Check for smooth operation



## 1.3 TOOL CHECK SLIDING JAWS

### Sliding jaws:

- Test with sliding sleeve and fitting
- Check the push-in square spindle for damage and imprint marks
- The push-in square spindle must not be bent



## 1.4 TOOL CHECK EXPANDER BIT

### Expander bit:

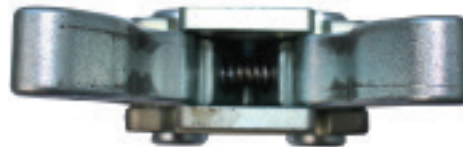
- The push-in square spindle must not be bent
- Check the push-in square spindle for damage and imprint marks



## 1.5 TOOL CHECK ADAPTORS

### Tool adaptors:

- Check the "mounting" of the square for breaks and cracks
- Check screws and tight fit and retighten or replace if necessary
- Spring must not be bent or broken, replace if necessary



## 1.6 TOOL CHECK MANUAL SLIDING PLIERS, RATCHET

### Manual sliding pliers and acc. ratchet:

- Check pliers for gap dimension, while screwing MSZ together without any load
- Max. 1 mm gap should be visible!
- Check ratchet for smooth movement
- In case of stiffness, grease with multi-oil

### TIP:

- Regularly clean the spindle of the pliers from dust and dirt and grease it
- When reassembling, make sure that the bearings are reassembled in the correct order





## 1.7 TOOL CHECK MANUAL SLIDING PLIERS, TOGGLE LEVER

### Manual sliding pliers, toggle lever:

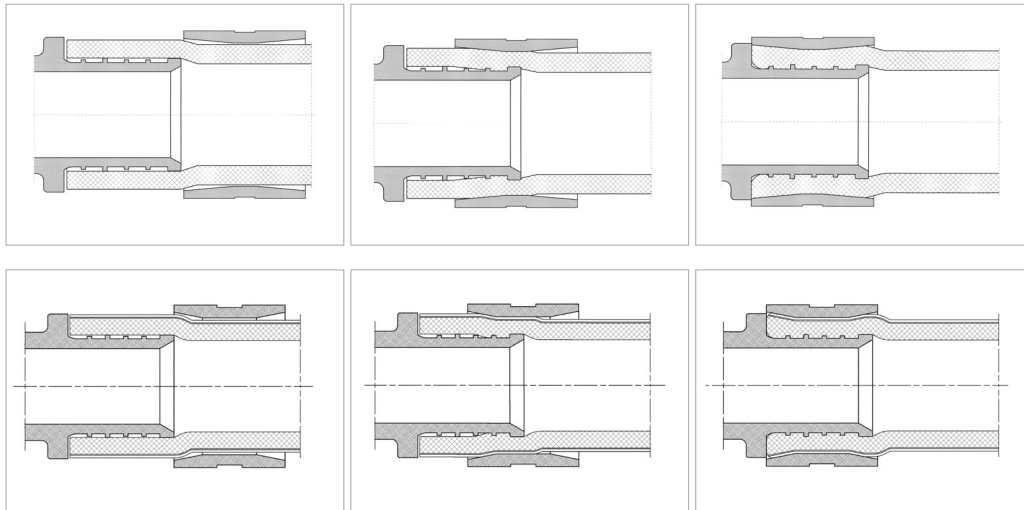
- Check for damage (bolts and locking rings) and for smooth running
- Spring must not be bent or broken, replace if necessary



## 2. PROCESSING ADVICE FOR PRODUCT PROPERTIES

### Features:

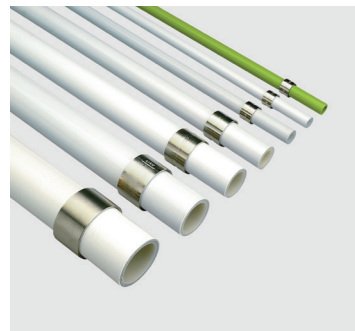
- No O-ring
- Large sealing surface
- High flow rate thanks to tube expansion
- Connection can be subsequently rotated and aligned
- Hygienic dead space free connection without stagnation phases



## 2. PROCESSING ADVICE FOR PRODUCT PROPERTIES

### Color guide system tubes and sliding sleeves:

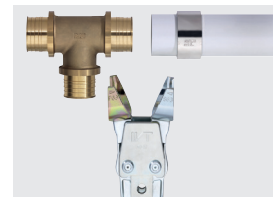
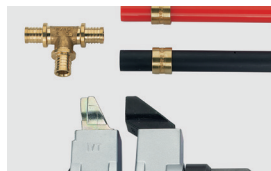
- Sleeve brass: PE-X pipes (black, Red), underfloor heating pipes 12, 14, 20, 25 (green, gray) and stabil multilayer pipe 14 (white)
- Sleeve silver nickel-plated: Stabil multilayer pipes (white) and underfloor heating pipes 17 (green, gray)



### 3. PROCESSING ADVICE CLAMP CONNECTIONS

#### Sliding sleeves:

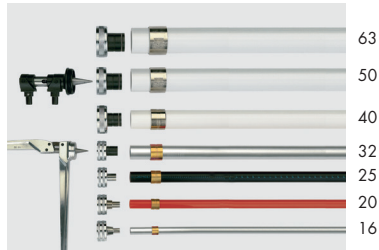
- Jaws F Yellow for fitting and jaws S Black for sliding sleeve PE-X pipes, surface heating pipes 12, 14, 20, 25 and stabil multilayer pipe 14
- Jaws F Yellow for fitting Jaws S Stabil, silver for sliding sleeve stabil multilayer pipe 16, 20, 25, 32 and panel heating pipes 17
- Jaws F/S for fitting and sliding sleeve underfloor heating pipe 12
- Jaws F Yellow for fitting and Jaws S Stabil silver for sliding sleeves Stabil multilayer pipe 40, 50, 63



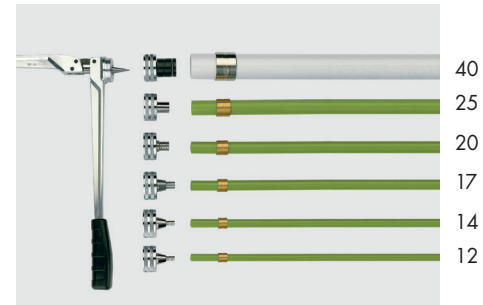
### 3. PROCESSING ADVICE EXPANDING HEADS

#### Expander heads:

- Expanding pliers equipped with standard expanding heads



- Expanding pliers equipped with special expanding heads for underfloor heating pipes and Stabil-pipe 40



#### CAUTION:

- Process pipes, fittings, sleeves only from original packaging
- Clean dirty fittings, sort out damaged ones
- Do not work with defective tools
- Keep assembly tools clean
- Clean all moving parts regularly and then grease them
- Observe the installation and operating instructions!
- **Only use original PRINETO tools**

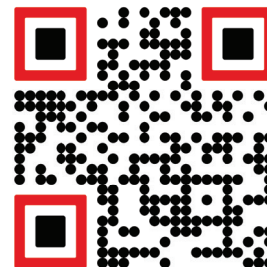
### 3. PROCESSING ADVICE PREPARE CONNECTION

#### Notice:

- Cut the pipe right-angled with pipe shears or pipe cutters
  - Selecting suitable sliding sleeve for the pipe dimensions and pipe type
  - Push so far onto the pipe that the sliding sleeve does not lie in the expansion zone during expansion
- 
- In case of pre-insulated pipes or pipes drawn into corrugated pipes, first push back or shorten the sheathing (e.g., PRINETO pipe shears with corrugated pipe cutter article number: 878 800 150)
  - Do not damage the inner pipe



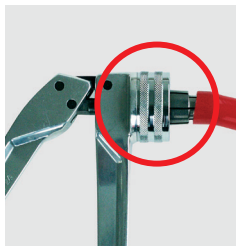
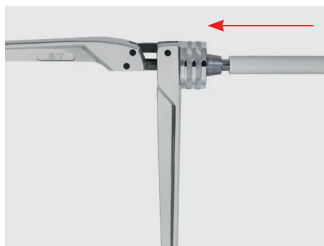
Klick here for the  
overview of the  
pipe dimensions  
(page 47)



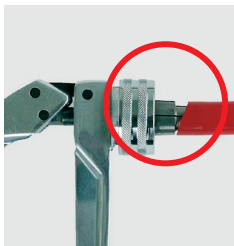
### 3. PROCESSING ADVICE WIDENING THE PIPE

#### Notice:

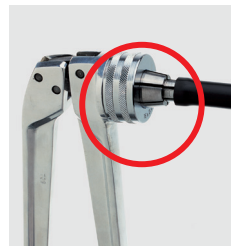
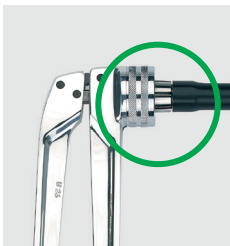
- Select expander head according to pipe dimension, screw completely up to the stop on the relaxed expanding pliers or widening bit
- All segments of the expansion head must be functional



Expanding under bending stress



Oblique pipe cut



#### CAUTION:

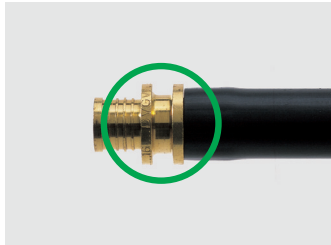
- Do not tear, do not pump
- Do not tilt the pipe while expanding it
- Do not expand under bending stress
- Do not expand the sliding sleeve
- Expansion bit must not slip out of the attachment during expansion

### 3. PROCESSING ADVICE INSERT FITTING

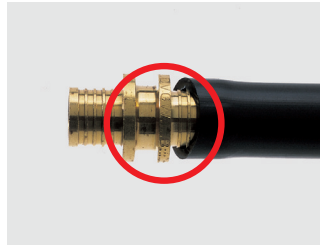
#### Notice:

- After expanding the pipe, insert the fitting into the pipe and straighten it
- With flexible pipes, the time is limited as the expanded pipe shrinks again
- In this case, widen the pipe again

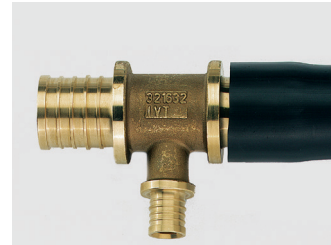
For pipe dimensions 16, 20, 25, 32, the expansion length is determined by the expansion head so that after the fitting has been fully inserted, it remains a gap between the end of the pipe and the fitting collar (table page 17)



Correctly installed fitting



Diagonally installed fitting



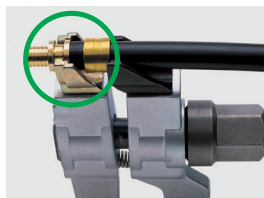
Gap for pipe diameter 32



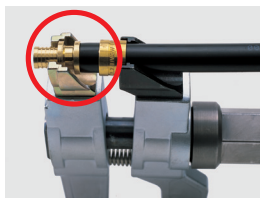
### 3. PROCESSING ADVICE INSERT FITTING

#### ■ Gap width between fitting collar and tube end:

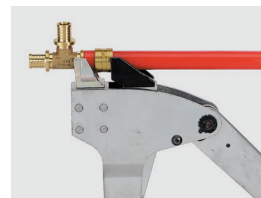
Pipe type and dimension	Gap width
Surface heating pipe	0 mm
Surface heating and stabil pipe 14	0 mm
Heating, sanitary and stabil pipe 16 and surface heating pipe stabil 16 x 2,0	1,0 mm
Surface heating pipe 17	0 mm
Heating, sanitary and stabil pipe 20	1,0 mm
Heating, sanitary and stabil pipe 25	2,0 mm
Surface heating pipe 25	0 mm
Heating, sanitary and stabil pipe 32	3,0 mm
Stabil pipe 40	0 mm
Stabil pipe 50	0 mm
Stabil pipe 63	0 mm



Correctly aligned in MSZ sliding jaw F.



Sliding jaw F attached on the wrong fitting collar. Connection is thereby over pressed.

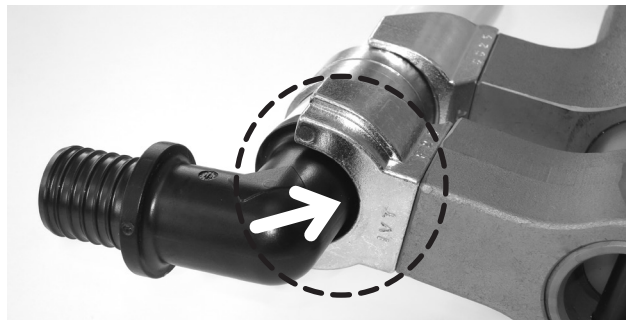


Manual push-on process with KSZ.

### 3. PROCESSING ADVICE PUSH ON SLIDING SLEEVE

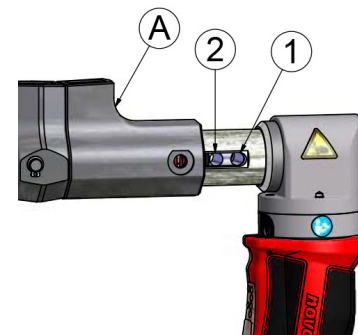
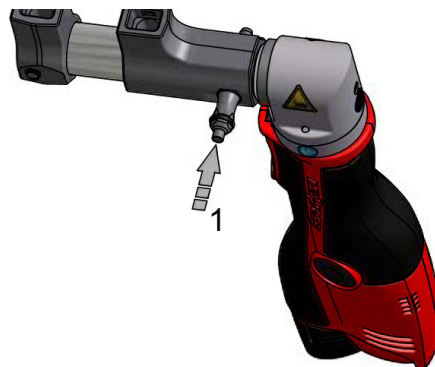
#### Notice:

- Push the sliding sleeve to the pipe by hand
- Equip sliding pliers or adapter A according to pipe dimension and pipe type with suitable sliding jaws
- Always apply the yellow F-sliding jaw only to the fitting
- Place the sliding jaws on both sides of the prepared connection
- Make sure that the fitting collar and sliding sleeve are correctly seated in the centering of the sliding jaws, do not tilt
- Push the sliding sleeve up to the fitting



#### Notice:

- For AKSZ (Ø12-32), select the dimension to be pressed by fastening the sliding adapter (A) with the bolt in two different positions. The bore (1) is used to compress the pipe dimensions 25 and 32, the bore (2) is intended for pipe dimensions 12 to 30.
- Keep hand switch pressed until the tool automatically releases the connection



### 3. PROCESSING ADVICE PUSH ON SLIDING SLEEVE



#### Notice:

- Bending directly at the joint can lead to pipe wall cracks
- First bend the pipe, then press it!

#### CAUTION:

- Connection must remain in the correct place of the sliding jaws until compression is completely done
- Sliding jaws must not slip out of the tool during compression
- Therefore, hold the tool against the compression
- With KSZ, carry out the push-on process by fully compression of the levers in one step
- **No permanent stresses must be applied to pressed connections. All connection points must be installed free of stress!**

## 4. SPARE PARTS AND BATTERIES

Spare parts AKSZ:



- Ball lock pins: 999 999 103
- Pin + 2x lock rings: 999 999 104

## 4. SPARE PARTS AND BATTERIES

### Spare parts batteries:



- Battery 878 800 072 suitable for: combination tool 878 800 070 + 878 800 071
- PRIPRESS pressing tool mini: 878 800 825



- Battery 878 800 084 14, 4V Li-Ion suitable for: ASZ 878 800 083
- Battery 878 800 082 12V Ni-Cd suitable for: ASZ 878 800 080







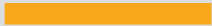



- Battery 878 800 095 suitable for AKA 878 800 093, AKSZ 878 800 094, AKA + AKSZ 878 800 090



- Battery 878 800 087 suitable for: ASZ2 878 800 086

## 5. VETEC STATUS INDICATION LED LAMP: CODES SERVICE-LED

LED-indicator	Cause / remedy	Measure
after application (cycle)		
	green light	work value: OK
	green / red flashing	work value: OK and service interval exceeded / service due
	red flashing	work value: borderline / contact service center
	red light	work value: incorrect or hardware error / service necessary
	orange light	temperature error / warm up or cool down the tool
after commissioning (insert battery)		
	green light	no interference
	orange light	temperature error / warm up or cool down the tool
	red light	battery empty / change battery

## 5. NOVOPRESS STATUS INDICATION LED LAMP: MEANINGS

LED-indicator	Condition / cause	Measure
All LEDs off	The tool is switched off	Press start button (1)
Green LED (2) lights up	Ready for use	
Green LED (2) flashes	Battery charge not sufficient	Charge or replace battery
Green LED (4)	Battery charge indicator	
Red LED (3) flashes	Tool outside the temperature range	The tool only works within the temperature range of -10 to 50°C. If the red LED flashes, the tool must be moved to a warmer/cooler environment. The tool can be warmed up and brought to operating temperature by running empty.
Red LED (3) lights up	Device error	Press start button (1). If this is unsuccessful, then the pressing machine is defect. Send machine to a specialist workshop. NOTICE: The compression may not have been completed. Please check and repeat if necessary.
Red and green LED (2) flash alternately	Maintenance interval reached	Give the press tool for maintenance

# PRINETO TOOL CHECK

## Contact

Status: 07/2023  
Reprint, also in extracts only with permission  
© by IVT GmbH & Co. KG Printed in Germany

### IVT GMBH & CO. KG

Gewerbering Nord 5  
D-91189 Rohr

#### Headquarter

Tel.: +49 9876 9786-0  
E-Mail: [info@ivt-group.com](mailto:info@ivt-group.com)

#### Sales Service Team

Tel.: +49 9876 9786-97  
E-Mail: [verkauf@ivt-group.com](mailto:verkauf@ivt-group.com)

#### Technical support

Tel.: +49 9876 9786-60  
E-Mail: [technik@ivt-group.com](mailto:technik@ivt-group.com)

#### Design service

Tel.: +49 9876 9786-120  
E-Mail: [planung@ivt-group.com](mailto:planung@ivt-group.com)

#### Accounting

Tel.: +49 9876 9786-902  
E-Mail: [bonitaet@ivt-group.com](mailto:bonitaet@ivt-group.com)

#### Opening hours logistics

Mon. – Thurs.: 7:00 a.m. – 18:00 p.m.  
Fri.: 7:00 a.m. – 17:00 p.m.

### IVT GES.M.B.H. & CO. KG

Deutschstraße 15  
AT-1230 Wien

#### Logistics

Tel.: +43 1 616 6865-20  
E-Mail: [info@ivt-group.com](mailto:info@ivt-group.com)

#### Opening hours logistics

Mon. – Thurs.: 7:00 a.m. – 18:00 p.m.  
Fri.: 7:00 a.m. – 16:00 p.m.