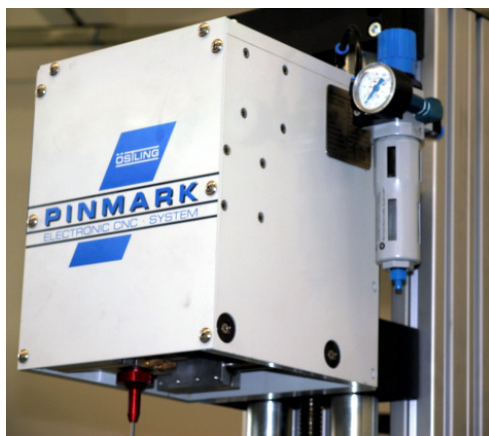


# Maintenance manual

**PinMark**



**3/5 to 15/30**



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Edition: 01/2005

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## 1 General advices for maintenance

### Note

Unprofessional work on control or marking head voids the warranty.

General advices for maintenance:

- With all adjusting, maintenance and repair works the control must always be switched off and the marking unit must be separated from the power supply. For that purpose pull the power supply plug before opening the unit. Exceptions of it, with which the unit must remain switched on during appropriate work, are noted in the maintenance instructions in each case.
- With work on pneumatics:
  - Turn off and lock the compressed air supply.
  - Wait at least 5 s after turning off the compressed air supply, until the pressure diminished itself.
  - Examine whether the operating pressure dropped on 0 bars. Read off the current operating pressure from the appropriate manometer.

## 1.1 Maintenance overview

| Operating hours | Maintenance place                           | Maintenance work  | Page |
|-----------------|---|---|------|
| 40              | Slides of the axes<br>(Coining unit)        | Check the slides on smooth running  | 11   |
| 500             | Slides of the axes<br>(Engraving unit)      | Lubricate the lubricating nipple  | 12   |
| 2000            | Exhaust air silencer                        | Clean the silencer, change it if necessary                                | 8    |
| 2000            | Slides of the axes<br>(Engraving unit)      | Change the automatic grease cartridge (option)                            | 12   |
| If necessary    | Toothed belts of the<br>axes (Coining unit) | Check the toothed belts on wear<br>Check the tension of the toothed belts | 9    |
| If necessary    | Toothed belts of the<br>axes (Coining unit) | Change the toothed belts  | 10   |
| If necessary    | Slides of the axes<br>(Engraving unit)      | Adjust the tightness  | 13   |
| If necessary    | Pneumatic maintenance<br>unit               | Adjust the oiler  | 16   |

Tab. 1

For single-shift operation:

| Operating hours | Maintenance interval |
|-----------------|----------------------|
| 40              | Weekly               |
| 500             | Every 3 month        |
| 2000            | Annually             |

Tab. 2

## 1.2 Lubricants

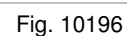
### Note

You can use also another lubricant, if this has verifiable the same characteristics, like the lubricant recommended here.

| Maintenance place                      | Lubricant  | ÖSTLING<br>Art. number | Viscosity | Classification according to DIN 51825 |
|--|------------|------------------------|-----------|---------------------------------------|
| Slides of the axes<br>(Coining unit)   | SF06       | -                      | Class 0   | KOG-20                                |
| Slides of the axes<br>(Engraving unit) | SF06       | -                      | Class 0   | KOG-20                                |
| Pneumatic maintenance unit with oiler  | Drawlub 28 | 45100111               | k. A.     | k. A.                                 |

Tab. 3

## 2.1 Maintenance overview

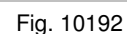




## Exhaust air silencer

**Clean the  
silencer** Every 2000 operating hours.

- 1 Silencer



### Marking head from the bottom

3. Unscrew the silencer, wash it with warm water (max. 40 °C) and reassemble it.
4. If the silencer is very dirty: assemble a new silencer.



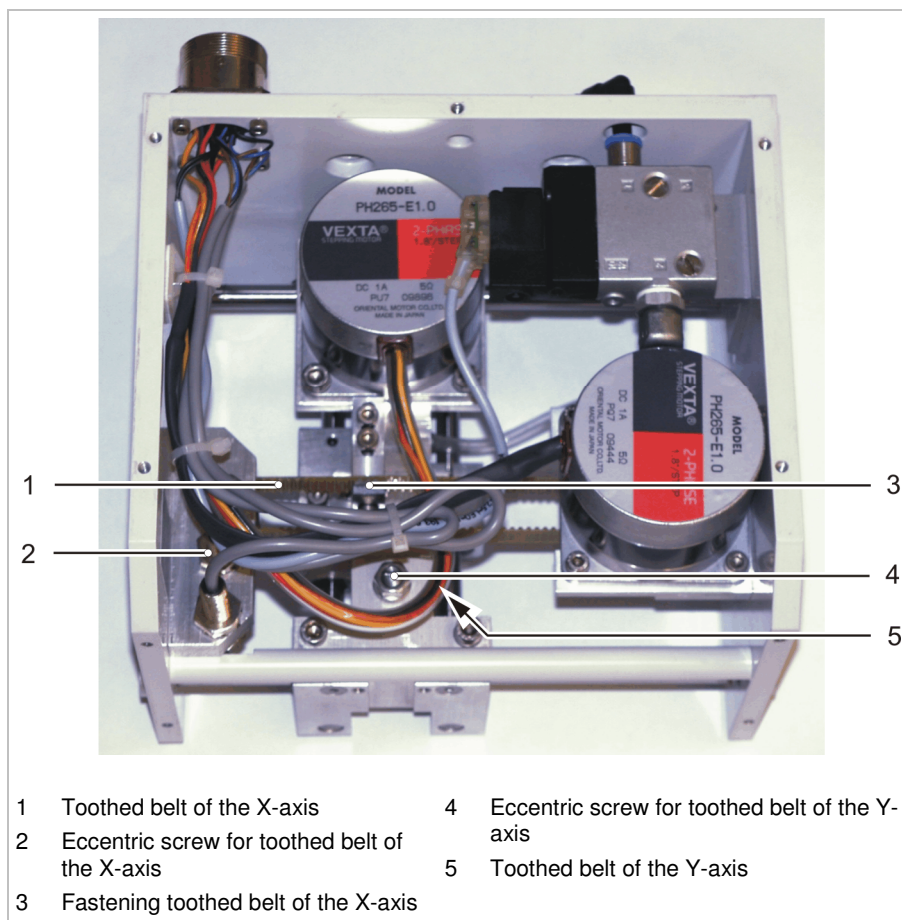
### Toothed belts of the axes (Coining unit)

(see page 7)

## Check the toothed belts

If necessary, i. e. if the slides (see page 11) are tight or with loss of quality of the marking.

1. Switch off the control and pull the power supply plug.
2. Unscrew the covering cap of the marking head.



Marking head without covering cap

Fig. 10195

3. Check the tension of the toothed belt.  
Toothed belt must sit tensely.

### Note

Sometimes the toothed belt of the Y-axis is better accessible from down than from above. For that purpose turn the marking head upside down.

4. Check the toothed belt of the X- and Y-axis on wear.  
If the tension of the toothed belt is too low or a toothed belt is worn out, this toothed belt must be changed (see page 10).
5. Reassemble the covering cap of the marking head.

|                              |  |
|------------------------------|--|
| <b>Change a toothed belt</b> | If necessary, i. e. if the tension of the toothed belt is too low or a toothed belt is worn out. |
|------------------------------|--|

- If necessary, i. e. if the tension of the toothed belt is too low or a toothed belt is worn out.
1. Switch off the control and pull the power supply plug.
  2. Unscrew the covering cap of the marking head.
  3. Loosen the eccentric screw for toothed belt (2 or 4).
  4. Loosen the fastening toothed belt (for X-axis: 3).
  5. Remove old toothed belt.
  6. Mount new toothed belt.
  7. Fix the toothed belt with fastening toothed belt (for X-axis: 3).
  8. Tighten the eccentric screw (2 or 4).  
Toothed belt must sit tensely.
  9. Reassemble the covering cap of the marking head.

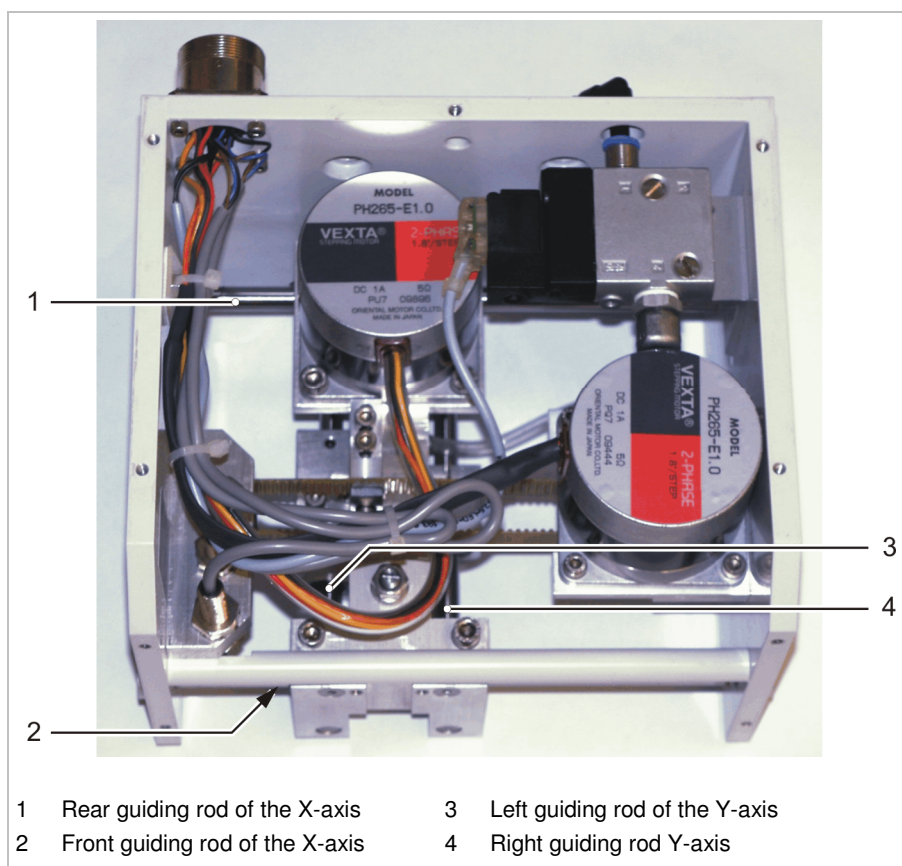
## Slides of the axes (Coining unit)

(see page 7)

## Check on smooth running

Every 40 operating hours.

1. Switch off the control.
2. Move the slides manually in X- and Y-direction.  
Slides must be movable easily by hand.
3. If the slides can be moved only with difficult: lubricate the guiding rods of the axes:



### Marking head without covering cap

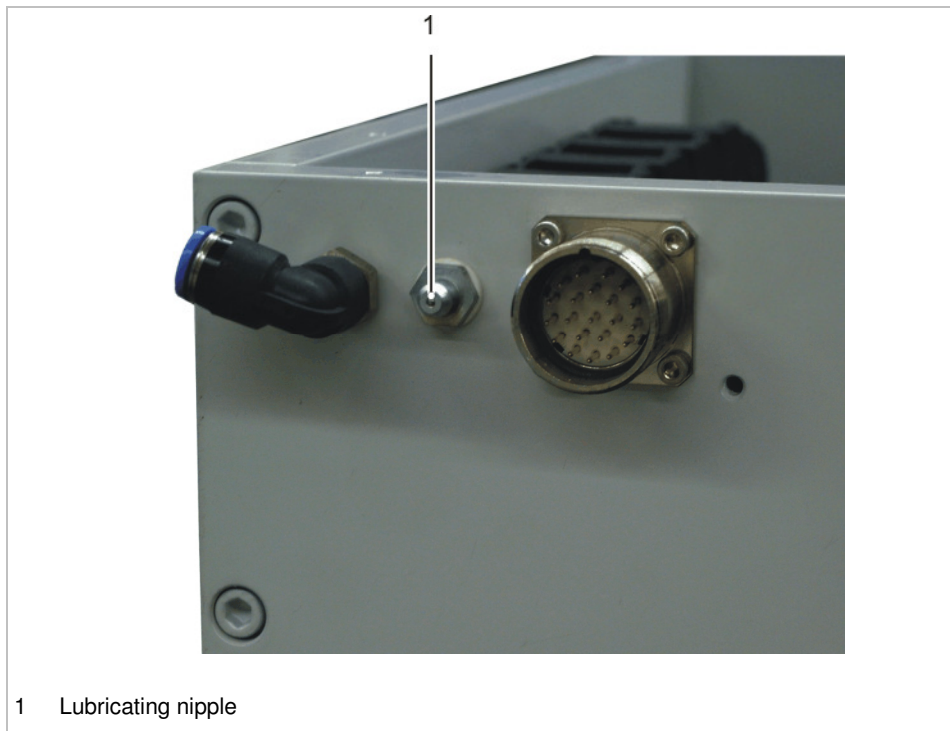
Fig. 10191

### Slides of the axes (Engraving unit)

(see page 7)

### Lubricate the lubricating nipple

Every 500 operating hours, more frequent if the surroundings are very soiled.



Housing of the marking head PinMark

Fig. 10189

1. Switch off the control and pull the power supply plug.
2. Lubricate the lubricating nipple using a grease gun.

### Change the grease cartridge (option)

Every 2000 operating hours.

For the grease lubrication (see above) optionally an automatic grease cartridge can be attached to the lubricating nipple. This fat cartridge contains 120 cm<sup>3</sup> grease and delivers it over the lubrication nipple to the unit during the adjusted dispensing time.

1. Switch off the control and pull the power supply plug.
2. Screw off the automatic lubricator.
3. Remove the old grease cartridge.
4. Remove the automatic lubricator from the transparent plastic cover.
5. Remove the old batteries from the lubricator.











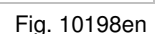
## Pneumatic maintenance unit

2 different maintenance units are used at the PinMark marking units.

Tab. 4

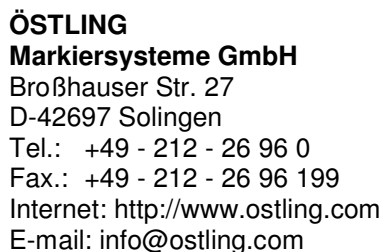
**Set the oiler** If necessary.

1. Do not switch off the control!
2. To switch on the needle in manual operation: select *System Menu*.
3. Press <Tab> until page 3 of the system menu appears:



4. Press <F2> to switch on or off the needle.
5. Adjust the oiler to approx. 1 drop per minute, see operation manual of FESTO.

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