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# Pneumatic Hand-Held Mixers

7 1111 0010 / 7 1112 0010



Technical Specification		
Mixers	7 1111 0010	7 1112 0010
Power	1.1 kW	1.1 kW
Air consumption	1.4 m <sup>3</sup> /min	2.4 m <sup>3</sup> /min.
Stirrer, max dia.	140 mm	140 mm
Speed under load	0-400 rpm	0-230/420 rpm
Free speed	0-900 rpm	0-450/950 rpm
Spindle / Internal thread	M 14	M 14
Air connection	R 3/8" male	R 3/8" male
Weight	6.3 kg	6.8 kg
Batche	approx. 50 kg	approx. 50 kg
Noise (in 1 m distance)	79 dB(A)	79 dB(A)
Vibration at free speed	2.45 m <sup>3</sup> s	2.45 m <sup>3</sup> /s



## **SAFETY PRECAUTIONS**

1. **Keep your work area clean and uncluttered.**
2. **Keep children and unnecessary personnel away from your tool and work area.**
3. **Wear safety glasses.**
  - Also use face or dust mask if operation is dusty.
4. **Dress properly.**

Clothing which is too tight or too loose is not suitable; it can restrict your movements or be caught in moving parts. Wear protective hair covering to contain long hair.
5. **Be on the alert!**

Fatigue leads to carelessness and accidents. Never operate the tool while you are under the influence of medication, alcohol, or other drugs.
6. **Safe working**

To avoid damage inspect your tool before operation.  
Always disconnect air hose before attaching a stirrer or working on the tool.  
Grab the tool with both hands during use.  
Do not touch moving parts  
Keep proper footing and balance at all times.
7. **Avoid unintended starting**

Never carry the tool with the motor running!  
Do not carry the tool with the fingers on or nearby the valve lever, to avoid unintended starting. **Disconnect the air hose for transporting the tool.**

### 8. Storing

When not in use, keep tool in a dry place, either locked up or high up, out of reach of children.

## OPERATING

The Mixers **7 1111 0010** and **7 1112 0010** are ideal for stirring and mixing materials such as paint, plaster, mortar, tile adhesive, filler and putty in batches up to 50 kg.

The diameter of the used stirrers should not exceed 140 mm. The spindle of the machine has an internal thread M 14. Keep thread and front surfaces clean. For loosening the stirrer hold up with an open-end wrench size 22.

## MAINTENANCE AND ASSEMBLY INSTRUCTIONS

Our machines are designed for an operating pressure of 4 - 6 bar (60 – 90 psi). Service life and performance of the machines are decisively determined by:

- a) THE AIR PURITY
- b) THE LUBRICATION CONDITIONS AND MAINTENANCE

- a) Blow the air hose clear before connecting it to the machine. Install dirt and water separator upstream of the machine, if it is not possible to prevent the formation of rust and water in the air distribution lines.
- b) Always use acid- and resin-free **SAE 5 W – SAE 10** oil. Thick flowing oil will clog the vanes and affect the start-up and performance of the machine. Only proper maintenance can ensure constant performance, reduction in wear and thus, a decrease in operating costs and an increase in service life. We therefore highly recommend to install a service unit and line oiler upstream of the machine.

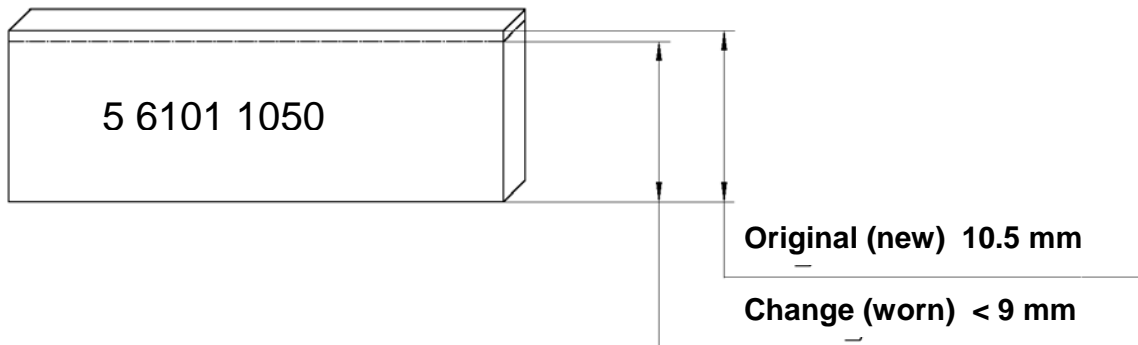
Observe the comments in the information sheet

### „MAINTENANCE OF PNEUMATIC TOOLS“

In winter, or if the compressed air is very moist, an antifreeze lubricant, e.g. "BP Energol AX 10", "Kilfrost" or "Kompranol N 74" should be used.

Replace wear parts – in particular the vanes – when necessary.

**Vaness are considered worn if their width is less than 9 mm.**



## DISASSEMBLY AND REASSEMBLY

Disassembly and reassembly should only be performed with assistance of the sectional drawings.

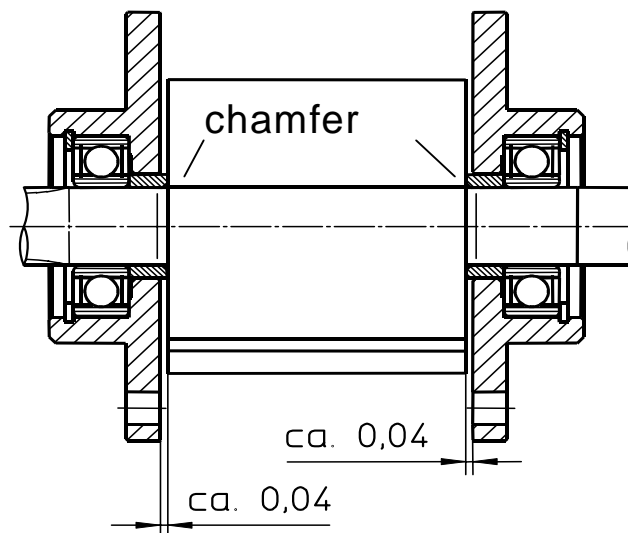
### Air Motor:

Screw complete motor out of housing. Remove air connecting hose with reducing nipple (item 23). Loosen nipple complete with screen (item 22) and reducing nipple (item 21). Remove O-ring (item 20) from motor housing (item 1). Take off adapter sleeve (item 17) with muffler (item 18) and sound absorber material (item 19). Remove O-rings (item 16). Screw locking ring (item 15) out of motor housing (item 1) and pull out inner parts, such as rotor (item 9), end plates (items 11 and 2) as well as cylinder bushing (item 6). Take off end plates (item 11 and 2) from bearing set of rotor (item 9). Pay attention to spacers (item 14 and 15)! Remove cylinder bushing (item 6) and pull vanes (item 10) out of rotor slots. If necessary, loosen ball bearings out of end plates.

Clean and check parts for wear. After exchange of damaged or worn parts reassembly can be performed.

### Reassembly:

Reassembly is performed essentially the same as disassembly, but in revers order. Ensure correct spacing. The axial play between rotor and end plates should be 0.04 mm per side. The chamfered edges of spacers (item 5 and 14) should point towards to center of the rotor.



If bearings (items 3 and 12) in the end plates are replaced, motor has to be fitted in new. For that new spacers (items 5 and 14) are used and have to be finished to the necessary length.

**Fitting-in:**

Insert the new ball bearing into end plate and secure it.

Place the spacer on the bearing ring and press the bearing backlash-free in direction of the snap ring.

Measure the projection of spacer and finish it to correct size by grinding or precision turning.

Remove any oil and resin residue from the rotor slots. The new vanes should fit easily into the slots. Grease ball bearings.

After assembly, rotor (item 9) has to be turned easily. If not, light tapping with a rubber hammer straight or lateral on motor housing is helpful to put the rotor in free-wheel position.

Make functional gauging by checking free speed:

**950 rpm at an operating pressure of 90 psi**

**Use only stirrers with a maximal diameter of 140 mm and  
internal thread M 14!**

**Use only Original Spare Parts for repairs!**