

Instruction of use

Pneumatic motor system



CE 0483



AS Medizintechnik GmbH • Sattlerstrasse 15, 78532 Tuttlingen, Germany • Tel 07461/966326 • Fax 07461/9663288

AIR DRILL

Air drill	60-051-00
Speed range:	0-1100rpm
Weight:	800 g
Working pressure:	max. 7 - 8 bar
Cannulated diameter:	3,0 mm

Left and right turns as well as speed can be regulated by means of levers on the handpiece.

HOSES

Hoses	Description: Page 3
Length of hoses:	3 and 5 meters
Connection:	Synthes - Synthes Synthes - Schrader Synthes - Dräger Synthes - Industrial
Working pressure:	max. 8,5 bar

Air supply

Use only pure, dry compressed air filtered to 5 microns.

Working pressure:	8,5 bar
Flow rate:	300 l/min

Warning!

Care has to be taken with systems having a recycling of exhaust air that the pressure in the exhaust air hose, with running motor does not exceed 0,2 bar.

Attachments

Jacobs juck up to 6,5 mm cannulated	60-060-01
Quick-action chuck for drill wires up to 6,5 mm cannulated	60-060-02
AO chuck	60-060-04
Din chuck	60-060-03
Harris chuck	60-060-05
Hudson chuck	60-060-06
High Torque reamer with AO chuck cannulated diameter: 3,5 mm Speed: 0-150 rpm Torque: 16 Nm	60-060-07
Large Sagittal saw oscillating Speed: 0 - 12.000 rpm (blade type AO)	60-060-08
Sternum Saw	60-060-09

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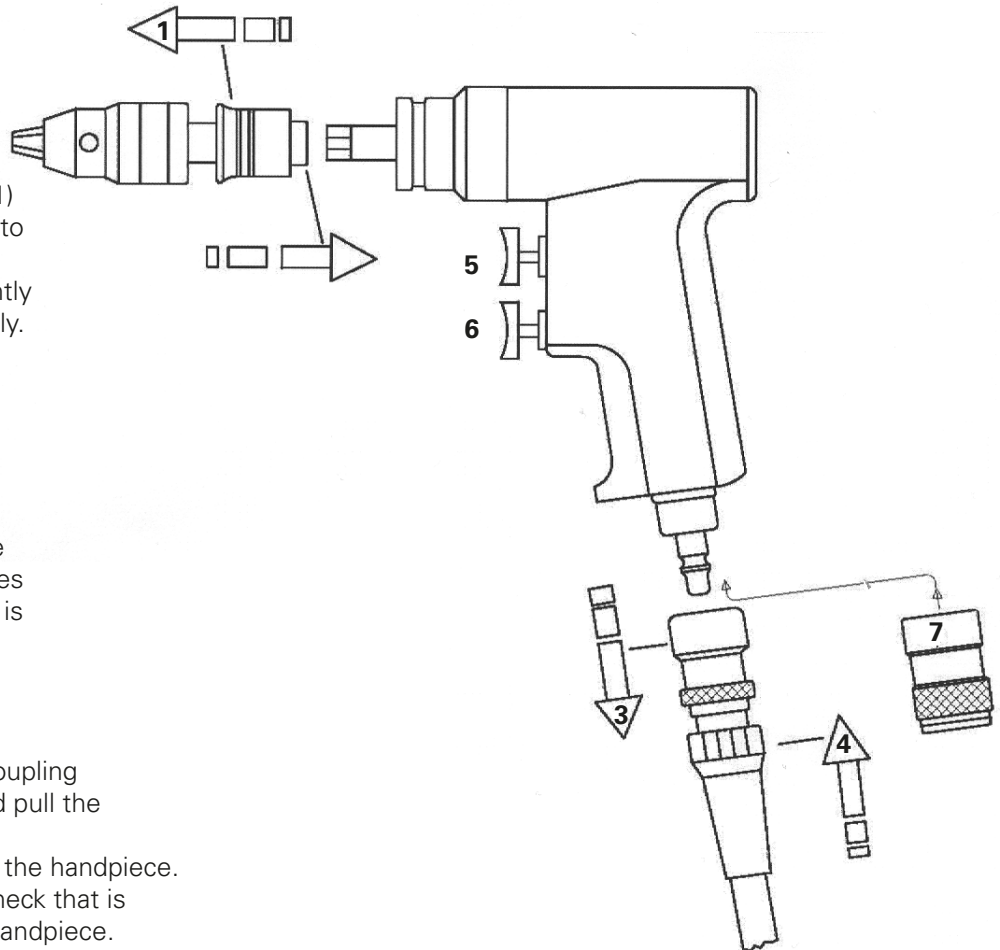
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Handpiece

Attachment

All attachments for the air drill-system are connected to the drill in the same way.

1. Pull the chuck sleeve back (1)
2. Insert the connecting piece to the drill. Release the chuck sleeve. Rotate the chuck gently until it enters the spindle fully.



Handpiece

5. Top trigger: forward (clockwise rotation)
6. Bottom trigger: reverse (anti clockwise rotation). The speed of the air drill increases progressively as the trigger is pressed.

Hose

These hoses have a quick air stop coupling

3. Grip the hose connector and pull the slip-ring back (3).
4. Push the hose connector to the handpiece. Pull gently on the hose to check that is securely connected to the handpiece.

Cleaning

Do not clean the drill in an ultrasonic cleaner!
Do not immerse the handpiece!

Remove all attachments and accessories from the handpiece during cleaning that no fluid enters the handpiece.
Close the handpiece before cleaning (1 No. 7)

- Scrub the handpiece with a mild detergent and water using a nylon brush.
- Remove all traces of debris and blood.
- Check collets, internal drive sockets and cannulations and verify they are clean from debris and blood.
- Rinse off all traces of detergent with running water.
- Shake the instrument free of excess water and dry surface with a lint free towel.

Lubrication

Warning:

Do not lubricate a sterile Instrument, attachment or hose After every second use turn the drill upside down and drip about 2 drops of oil into the air inlet. Connect the drill to the air supply and run for at least 20 seconds to ensure adequate dispersal of the lubricant.

Important:

Use only special oil.

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Sterilization

The equipment must be sterilized

- Before every surgical procedure
- Before passing to a service area
- Before returning to the supplier or manufacturer
- Warning: Remove attachments and hoses before sterilization

Vacuum steam sterilization is the most effective method to sterilize the drill.

- Vacuum steam autoclave 3 to 3,5 minutes and 134°C with a drying cycle.

Do not operate the equipment while still warm.

Fault finding

• Fault	• Possible cause	• Remedy
Instrument does not run Drill runs slowly	Air supply faulty Insufficient lubrication Air supply? Pressure or flow rate	Check hose connection Refer to lubrication section Check air supply pressure at regulator Check hose for possible restriction

Hoses

Cleaning the hoses



Do not immerse and do not put the hoses into the washing machine.
Penetrated water has to be drained off immediately.

Sterilization

Vacuum steam autoclave 3 to 3,5 minutes at 134°C

Item numbers air hoses:

Synthes - Synthes
3 m 60-051-30
5 m 60-051-50

Dräger - Synthes
3 m 60-051-31
5 m 60-051-51

Schrader - Synthes
3 m 60-051-32
5 m 60-051-52

Industrial - Synthes
3 m 60-051-33
5 m 60-051-53

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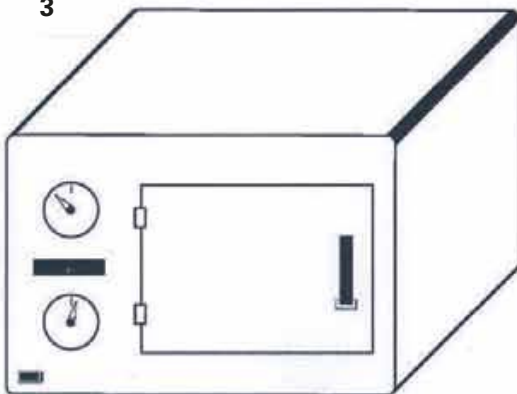
Do not immerse and boil

2



Do not clean with ultra-sonic cleaner

3



Do not clean with acid an lye



No mechanical treatment