

# OPERATING INSTRUCTION MANUAL



## AIR SYSTEM



- Easy handling**
- Powerful**
- Full line of attachments**
- Steam & gas sterilizable**
- CE / ISO / EMC approved**

# Technical data

## Attachments

Jacobs juck  
up to 6,5 mm cannulated  
14-830

Quick-action chuck for drill wires  
from 0,8 to 3,00 mm  
18-842

AO chuck  
14-862

DIN chuck  
14-864

Harris chuck  
14-866

Hudson chuck  
14-868

Diamond reamer chuck  
14-870

High Torque reamer with AO chuck  
cannulated diameter: 3,5mm  
Speed: 0-150 rpm  
Torque: 16 Nm  
14-834

Large Sagittal saw  
oscillating  
Speed: 0-12000 cpm  
BLade type AO  
14-836

Sternum - Saw  
14-837



## Air drill 14-800

**Speed range** 750rpm  
**Weight** 800g  
**Working pressure** 7 max 8bar  
**Cannulation diameter** 3,0 mm  
Left and right turns as well as speed can be regulated by means of levers on the handpiece

## Hoses

**Length of hoses:** 3 and 5 meters  
**Connection:** Synthes- Synthes  
Synthes- Dräger  
**Working pressure :** max 8,5 bar

## Air supply

Use only pure, dry compressed air filtered to 5 microns

**Working pressure:** 8,5 bar

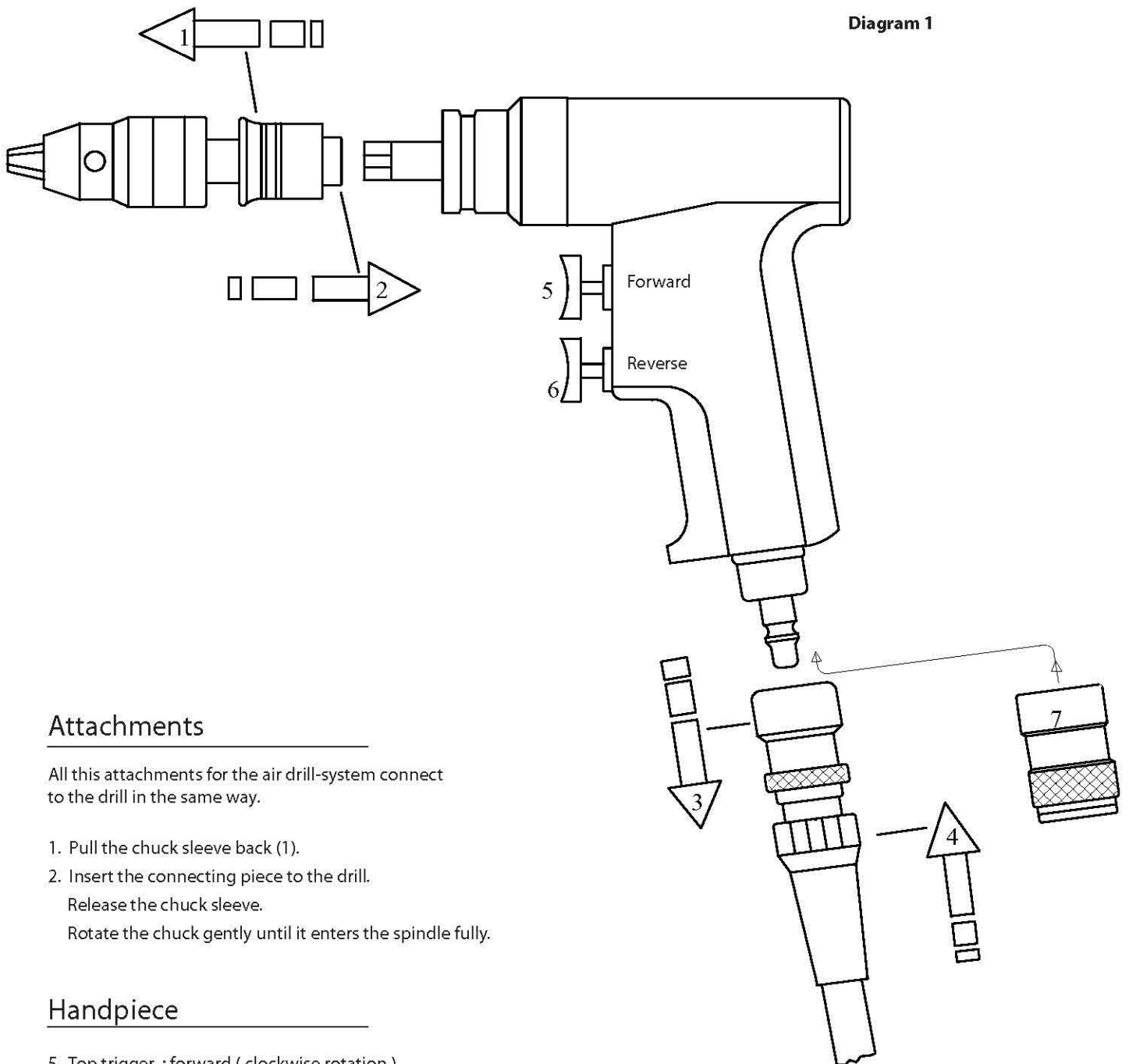
**Flow rate:** 300 l/min

### 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

# Handpiece

Diagram 1



## Attachments

All this attachments for the air drill-system connect 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. Ensure during cleaning that no fluid enters the handpiece.

Close the handpiece before cleaning (**Diagram 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 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 Spezial oil

## 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.**

The following times and temperatures should be used Diagram 2

- 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

<i>Fault</i>	<i>Possible cause</i>	<i>Remedy</i>
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



## Synthes - Synthes

3m	Part No. ....	14-801.03
5m	Part No. ....	14-801.05



## Dräger - Synthes

3m	Part No. ....	14-802.03
5m	Part No. ....	14-802.05



## Schrader - Synthes

3m	Part No. ....	14-803.03
5m	Part No. ....	14-803.05



## Industrie

3m	Part No. ....	14-804.03
5m	Part No. ....	14-804.05

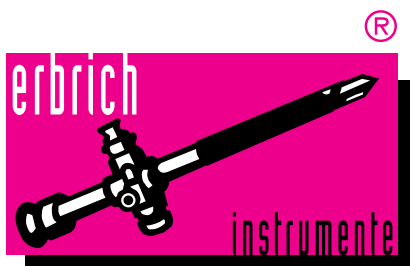
### Cleaning the hoses

! 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 134°C



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