

Pneumatic Drill

Types

2 1310 0010 / 0020

2 1311 0010 / 0050

Technical Specification

at an operating pressure of 6 bar (90psi)

Type	2 1311 0010	2 1311 0050	2 1310 0010	2 1310 0020
Morse Taper Drill Chuck	1	1 Geared chuck up to 13 mm	Geared chuck up to 13 mm	Quick-release Chuck up to 13 mm
Output	0.65 kW	0.65 kW	0.65 kW	0.65 kW
Drilling capacity in steel	15 mm	13 / 15 mm	13 mm	13 mm
Reaming up to	13 mm	13 mm	13 mm	13 mm
Speed, under load	650 rpm	650 rpm	650 rpm	650 rpm
Air consumption	0.68 m ³ /min	0.68 m ³ /min	0.68 m ³ /min	0.68 m ³ /min
Air connection	R 3/8" male	R 3/8" male	R 3/8" male	R 3/8" male
ID of hose	13 mm	13 mm	13 mm	13 mm
Weight	5.4 kg	5.4 kg	5.7 kg	5.7 kg
Length	281 mm	346 mm	314 mm	314 mm

Maintenance and Assembly Instructions

Our pneumatic machines are designed for an operating pressure of 4-6 bar (60-90 psi).

The service life and the performance of the machine are determined to a significant extent by:

- a) the degree of air purity
- b) the lubrication and maintenance

to 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 condensation in the air distribution lines.

to b)

Use always acid- and resin-free SAE 5W - SAE 10W oil. Thick flowing oil will stick the vanes and affect the start-up and the 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.

An anti-freeze lubricant e.g. "BP-Energol AX 10", "Kilfrost" or "Kompranol N74" should be used in winter and if the compressed air is very moist. Observe instructions on the supplementary sheet:

"Maintenance of Pneumatic Tools"

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

Vanes are worn and ready for replacement when their width is less than 11 mm.

Disassembly and Reassembly

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

Motor

Loosen screws (28), remove handle (20), pull out inner motor parts and continue to disassemble.

Check vanes (11) for wear and replace them if necessary.

Valve

Screw out nipple (26) and take out valve parts. Replace damaged parts if necessary.

Gearbox

Remove neck (30) or (70) from motor housing (1). **(Left-hand thread!)**

Take out rim of the gear (42) and washer (43). Draw off drill chuck (60), loosen cover lid (40), remove snap ring (39) and press out complete planet carrier (33) or (72).

Check wear parts as radial shaft seal (41) and grooved ball bearings and replace them if necessary.

Reassembly

Remove any oil and resin residue from the rotor slots. The new vanes should fit easily into the slots. Grease ball bearings. When assembling the inner motor parts ensure correct spacing. The axial play between rotor (10) and end plates (4 and 12) should be approx. 0.04 mm per side. The chamfered edges of the spacers (7 and 15) should point towards the centre of the rotor.

Use only ORIGINAL SPITZNAS SPARE PARTS for repairs!

