

011592 EN

# DEPRAG

## Operating instructions

### Pneumatic Plier

48-382-3VC8

826758 A

# DEPRAG

## DEPRAG SCHULZ GMBH u. CO.

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CERTIFIED AS PER DIN EN ISO 9001

Mar-04 Technical alterations reserved

Dear Customer:

Congratulations, you chose the enclosed Plier from an extensive DEPRAG product line. This tool is the result of more than 60 years experience in the design and manufacturing of pneumatic tools for the industrial market. Please don't hesitate to call on us for all of your needs, from individual hand tools to the complete automatic screwdriving cell. Our products offer solutions to all requirements, which may be needed in the assembly sector.

We kindly ask, that you read these operating instructions carefully, so that you will be able to use this tool safely and for many years to come. If you need additional information, please contact your DEPRAG Representative or DEPRAG direct. We will be happy to answer your questions.

We hope you will be pleased with your new tool!

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## 6. All important data at a glance:

Manufacturer: DEPRAG-SCHULZ GMBH & CO.  
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Type	48-382-3VC8
Part.-No.	826758 A
Length (including insert)	206 mm
Weight	47 mm
Hose ID	65 ccm
Connector Thread	20 mm
Max. Insert Opening (base position)	6 bar
Clamp Width	390 ccm
Squeeze Force (at 6 bar)	3,3
Air Consumption per crimp	
Housing Diameter	



Prior to the use of this Plier, read this Operating Instruction booklet carefully and follow the requirements in regards to safety.

### 1. Safety tips

The tool should only be used when in perfect working condition; according to its designated use and when all safety- and danger advice of the operating instructions are complied with!

Any malfunction, which could result into operator injury, has to be immediately removed. Plier and Accessories should be used for applications they have been designed for.

Because of product liability and operational safety reasons, any Changes to the plier or accessories, have to be approved by an appointed technician of the manufacturer!

1. The choice of the correct plier size (squeeze power) depends on the following factors:
  - a) The hardness or flexibility of the material to be cut or the material resistance to be crimped
  - b) The actual available air pressure  
If necessary, the best suitable plier type has to be established by actual cutting or crimping test at DEPRAG.
2. The DEPRAG-Plier should always be connected to a filter/regulator/lubricator. A pressure higher than 6.5 bar should be avoided.
3. Only operators with common tool knowledge, trained by authorized personnel, should operate pneumatic pliers.
4. Plier Model # 48-401/48-551/48-601 have a lever lock, which has to be actuated before putting plier down. This will eliminate an accidental operation.
5. Plier Model # 48-381/451 can be provided with a lever lock as an option.
6. When connecting or disconnecting plier from air supply, make sure NOT to push the operating lever. After use, prior to putting plier down, disconnect plier from air supply.
7. NEVER insert a finger into the opening of the cutting- or crimping insert, for this will cause an **injury**.

8. When operating cutting pliers, make sure operator wears safety goggles as well as safety gloves. Handle plier in such a way that no other person can be injured by loose and flying cut-off parts.
9. The plier should only be used for the intended application. To increase its power capability by either cutting or bending tests or by increase of air pressure, will damage the tool.
10. Check plier inserts prior to operation and make sure they are not worn. If necessary, install new inserts. (injury is possible when worn or broken inserts are used)
11. The assembly and disassembly of pliers should be done by DEPRAG personnel only; since the plier head is spring loaded.
12. The DEPRAG pliers are suitable for handheld use only; they cannot be integrated into an automatic or stationary system.

Prior to Plier adjustment or maintenance, disconnect tool from air supply. Only use lubrication grease, which has been approved by the manufacturer.

## 2. Installation

- Blow out air hose before connecting it to the tool.
- Connect to a maintenance unit, filled with resin- and acid-free oil (SAE 10. DEPRAG-Oil 790081 A, 250 cm<sup>3</sup>) and adjust oiler (1 - 2 drops/1m<sup>3</sup>).
- The air pressure should be (85 PSI) 6 bar. A pressure below 85 PSI reduces tool performance. If air pressure is above 85 PSI, install a regulator
- Make sure the hoses allow unrestricted air flow, avoid bends, etc.

minimum Hose ID: 6 mm = ¼"

In regards to air-quality according to ISO 8573-1, we recommend:

	Class	Residue of Oil Content mg/m <sup>3</sup>	Residue of Dust		Residue of Water	
			particle size µm	max. concentration mg/m <sup>3</sup>	pressure dewpoint °C	max. concentration g/m <sup>3</sup>
Lubricated Air	4	5	15	8	+3	6
Dry Air	3	1	5	5	-20	0,88

## 5. EG-Konformitätserklärung

### EC-Conformity Declaration according to the EC-Machine-Guidelines 89/392EWG, Amendment IIA

We,

DEPRAG SCHULZ GMBH & CO.  
PO Box 1352  
D-92203 Amberg

hereby confirm, that the design of the Plier


48-382-3VC8

conforms to the following, relevant regulation:

- EC-Machine-Guidelines, Version 91/368/EWG, Amendment I, No. 1 and No. 2.2.

Applicable Standard:  
- EN 292

Amberg, den 12.03. 2004

  
Dipl.-Ing. (FH) A. Lanig  
Konstruktionsleiter

#### 4. Inspection and Maintenance

This plier requires no maintenance. If the following rules are observed, the tool reaches its promised high life-span and remains in a safe condition to use.

Check the air filter (exhaust the filter condensator on a regular basis) and the oil reservoir, as well as the oiler adjustment .

We recommend DEPRAG-OIL, Part No. 790081 A (250 cm<sup>3</sup>) (3,70°E at 50° C, SAE 10W). Use about 1 drop of oil for every 1m<sup>3</sup> air consumption.

If plier malfunctions, we recommend to have it sent to DEPRAG.

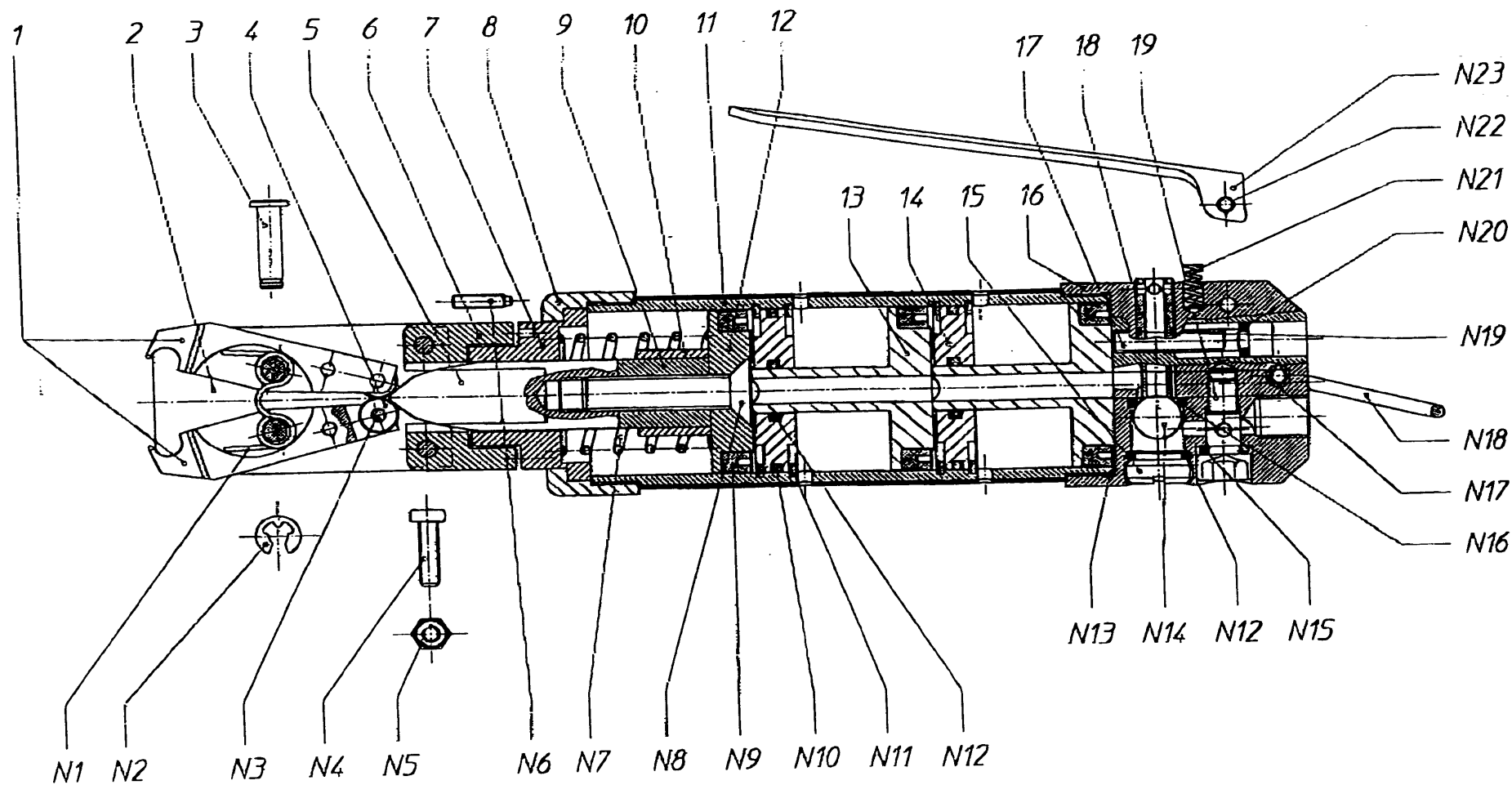
#### 4.1 Trouble Shooting

Error	Reason	Solution
Insufficient Power	Air Pressure too low. Minimum air pressure is 6 bar (85 PSI).	Increase air pressure.
	Restriction in Hose. Hose I.D. is too small	Remove restrictions. Use hose with required 6 mm ID.
Tool does not start	No air pressure. Shut-Off Valve is closed.	Open Shut-Off Valve.

#### 3.1 Spare Parts Listing

See Picture 1, Pages 5/6

Pos.	quantity	naming
1	1	Plier insert
2	2	Side piece
3	2	Insert bolt
4	2	Roll
5	1	Key
6	1	Plier head holder
7	1	Ring
8	1	Nut
9	1	Spacer
10	1	Bushing
11	1	Cylinder
12	1	Key
13	2	Piston
14	2	Cylinder cover
15	1	Plug
16	1	Valve housing
17	1	Screw
18	1	Valve pin
19	1	Screw
N1	1	Spring
N2	2	Washer
N3	2	Cylinder pin
N4	2	Cylinder screw
N5	2	Hex nut
N6	1	Threaded pin
N7	1	Spring
N8	1	Screw
N9	3	Gasket
N10	2	O-Ring
N11	4	Lock ring
N12	3	O-Ring
N13	1	O-Ring
N14	1	Ball
N15	1	O-Ring
N16	1	O-Ring
N17	1	Sleeve
N18	1	Balancer
N19	1	O-Ring
N20	1	O-Ring
N21	1	Spring
N22	1	Pin
N23	1	Valve lever



Picture 1: Spare Parts Listing