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Guiding instructions

Instruction

The legislator prescribes that the user must be well trained for using compressor-driven riveting tools. If desired, the training programme can be conducted at RIVETEC in Albrechtice n./VIt. or directly at the client's place.

Technological level

This riveting tool is as per the latest technological standards. For the device to function properly, it is necessary to operate it in an expertly manner, with adherence to safety requirements.

Reading the guiding instructions

Before using the riveting tool for the first time, read the guiding instructions carefully.

Procedures

All the procedures necessary for the operation have been described in these guiding instructions. You may carry out only those procedures, which have been described here.

Obstructions

In case of obstructions, you may repair only those obstructions, which have been marked with an O (Operator).

Illustrations and position-codes

All the illustrations and position-codes in the individual diagrams take reference from the list of parts in the last pages.

Table for torque values

For sizes of screws and threads you will find a table containing the torque values on page 25 of the chapter "Maintening the riveting tool".

Guiding instructions

Cautions, instructions and procedural sections in the operating instructions

Please follow the instructions and safety informations.

In these operating instructions, some sections have been further illustrated through diagrams

Please acquaint yourself well with these diagrams and their meanings:



Caution Hazard of injury! This marking indicates a potential hazard.



Attention Material damage! This marking points at a procedure, which may cause damage to the riveting tool or the work-piece.



Note This marking indicates useful information

 This point (*) marks every paragraph, which requires you to act by yourself.



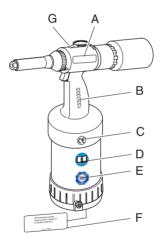
Attention Environmental hazard! This marking indicates a potential environmental hazard.

Guiding instructions

Markings on the riveting tool



This pictogram indicates that you must read the operating instructions before using the riveting tool.



- A Marking of the type
- **B** Serial number
- C CE-marking
- **D** Instruction for reading the operating instructions
- **E** Name of the manufacturer as well as the value of the maximum operating pressure
- **F** TÜV-Mark (safety checked)
- **G** Supplier

Application as per the purpose

The riveting tool is meant exclusively for setting blind rivets.

The riveting tool RL 60 has been designed for setting all materials of blind rivets with a shank diameter of 4.0 to 6.4 mm

This riveting tool must be used only as a hand-held device!

The client is fully responsible for any modifications to the riveting tool!

Improper use

Never throw away or drop the riveting tool!

Clean and dry compressed air

Please take care that only clean and dry compressed air is let into the riveting tool. Moisture and dirt can damage the riveting tool. Use only such compressed air, which falls into class 2 of air quality as per ISO 8573-1.



Caution Hazard of injury because of explosion! Never use the riveting tool in an atmosphere prone to explosions. Ensure that the workplace is well lit and clean.

> Hazard of injury due to the openly moving compressed air hose. Connect and lay the compressed air hose properly. Hazard of injury due to tripping over! Lay the compressed air hose in such a way that nobody should trip over it.



Attention Material damage! The maximum operating pressure is 7 bar.

For increasing the durability of the riveting tool, it is recommended to fit a compressed air-maintenance unit in the compressed air hose

Basic requirements while dealing with the riveting tool



Caution Do not operate the riveting tool when it is directly pointing at any person.

> Follow the prevalent guidelines for the prevention of accidents in the respective country.

> Use only those fittings and hoses, which have been approved for the operating pressure.

> Disconnect the compressed air supply from the riveting tool at the time of installation or maintenance.

> Wear personal safety gear (safety glasses and safety helmet).



Attention Please pay attention to the information on the pack of the blind rivet.

> Use the riveting tool only at operating temperatures above 5°C and 45°C.

For different diameters of the rivet shank, use the appropriate nose piece, as prescribed.

Do not throw away the riveting tool.

Maintenance and servicing

The operator may only carry out the maintenance and repair work described in these operating instructions

Service instructions

Maintenance and service work not described in these operating instructions may only be carried out by trained specialists following instruction by RIVETEC on the basis of the service instructions which also exist. See the address on Page 34 for more information on service instructions and training.

\rightarrow

Note

The manufacturer accepts no liability for damage resulting from incorrect repairs or the use of spare parts from other sources

At the time of leaving the workplace, do not leave the riveting tool with pressure on.

Guarantee

A guarantee is void, if any repair work carried out on the riveting tool has lead to any damage of the riveting tool.

Declaration of conformity

The riveting tool RL 60 has been checked and manufactured according to European guidelines. The declaration of conformity can be found on the second last page.

GS-checked

In addition to this, the riveting tool has been checked by the TÜV Product Service GmbH, Hannover, and certified with a GS-mark.

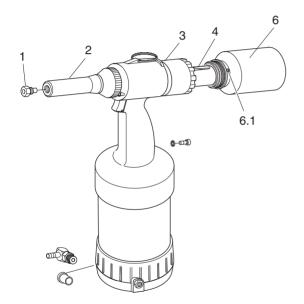
Noise and vibration levels of the RL 60

Noise level

The sound-emission level for workplaces is L_{PAI} <70dB(A) as per ISO 10843 and DIN EN 3744.

Vibration level

The effective value measured on acceleration with the handle, as per ISO/FDIS 8662-11, is a_{hw}<2,5m/s².



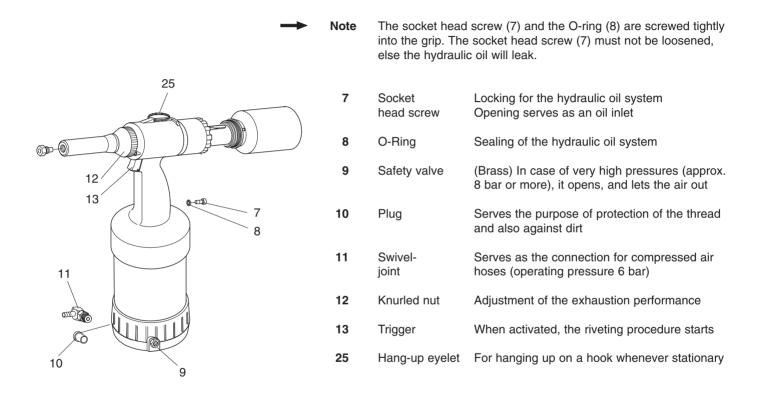
Description of the riveting tool

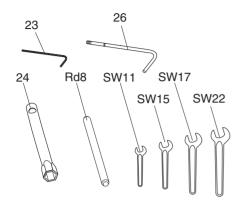
The riveting tool RL 60 works according to a pneumatic-hydraulic prinziple.

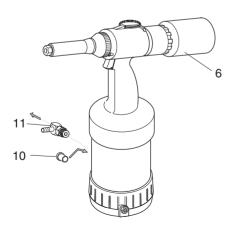
It consists of the following operation-related components:

1	Nose piece	Serves for the correct reception of the blind rivet – others are screwed in the bottom of the valve housing
2	Nose cap	Conceals the jaw case body and the jaw case
3	Hydraulic housing	The pneumatic and the hydraulic units are located in the hydraulic housing
4	Safety mechanism	Prevents the spent mandrel from leaving the tool
6	Spent mandrel collector	Serves the purpose of collecting spent mandrels (with air-outlet (6.1))

Description of the riveting tool







Necessary tools

You will require the following tools for all installation, servicing and maintenance work.

Tools

- Internal hex keyBox wrenchSW1 (23)SW11 (24)
- Wrench¹ SW11, SW17 (2x), SW22
- Crank— Round steel¹ Ø 8x150 mm(26)

Storing the riveting tool

Until first use

If you do not use the riveting tool immediately, store it inside the original packing, dry and dust-free.

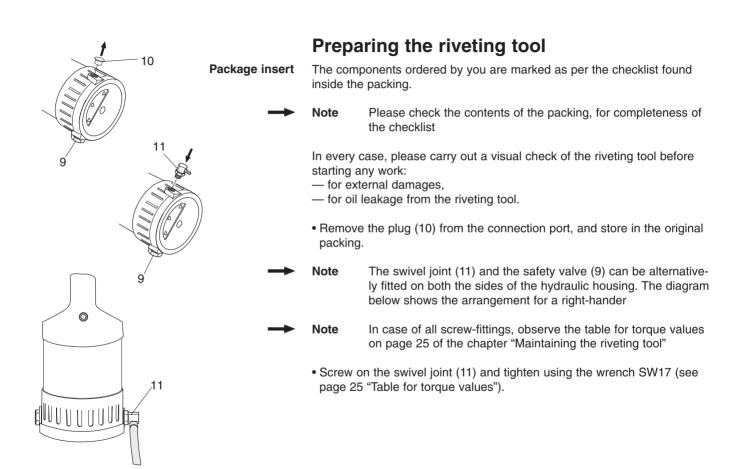
Long term storage after usage

Clean the riveting tool (see page 26 "Servicing and cleaning the riveting tool"). Turn off the spent mandrel collector (6), unscrew the swivel joint (11), and close the opening with a plug (10). As far as possible, store all parts in their original packing.

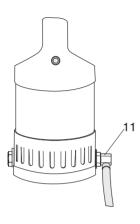
After long-term storage

After long-term storage (about 3 years), change the hydraulic oil before re-use.

¹ No delivery possibility



Preparing the riveting tool



Note

Depending on the type of compressed air supply, it may be necessary to connect a fitting different from the one provided, to the riveting tool. For this, you need to have a fitting having a 1/4" Withworth pipe thread as per ISO 228.



Attention Material damage by compressed air!

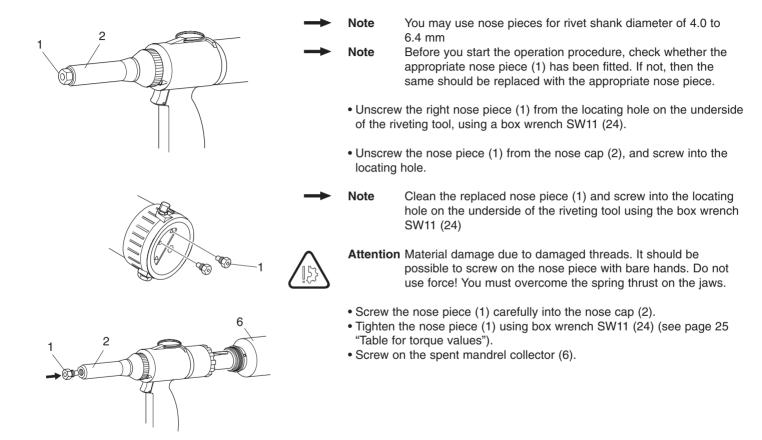
As per norm ISO 8573-1, class 2, compressed air must be dry and clean. We recommend that you fit a compressed air-maintenance unit to the riveting tool.

 Compressed air hose should be connected to the swivel joint (11), as prescribed.

Note

The operating pressure must be between a minimum of 5 and a maximum of 7 bar!

Preparing the riveting tool



Operating the riveting tool



Caution Hazard of injury due to the rivet head coming off! Therefore, examine the riveting tool without blind rivet. Wear safety glasses.

- Connect the compressed air supply (6 bar) onto the riveting tool.
- Check riveting tools before commencement of work by using the pushbutton (13).

You can hear that a stroke is being initiated.

Re-adjust knurled nut (12).
 Air must escape from the air outlet hole (6.1).

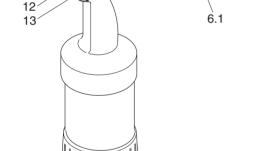


Caution Hazard of injury due to unchecked wearing out of the mandrel!

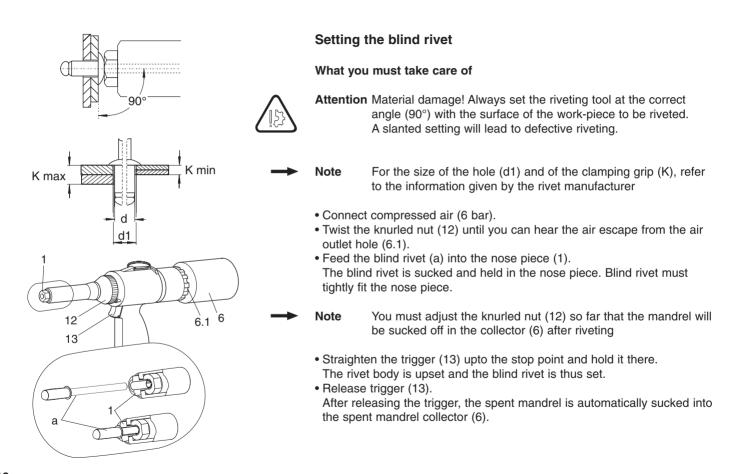
Use only an undamaged spent mandrel collector, and ensure that it has been correctly fitted (always completely unscrew the spent mandrel collector).



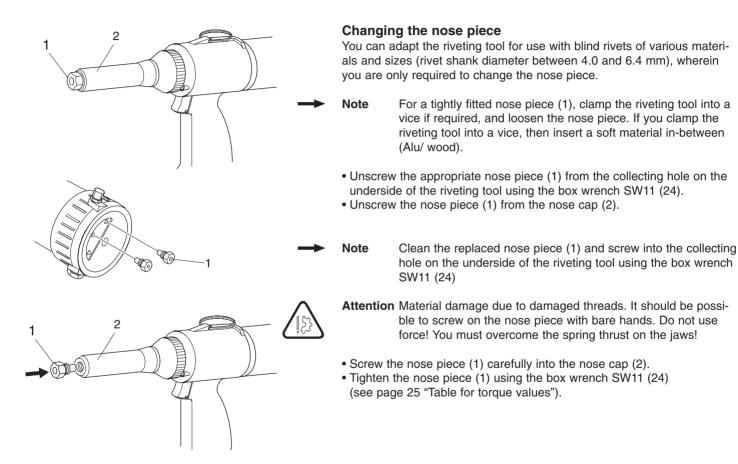
Attention Material damage! Always work with artificial spent mandrel collector (6)! In the absence of the spent mandrel collector, the safety mechanism (4) closes the outlet. Collected mandrels are left back in the riveting tool, where they could jam. If proper attention is not paid, then the riveting tool may break down.



Operating the riveting tool



Operating the riveting tool





Caution Hazard of injury if handled in an improper manner! Servicing, maintenance and repairs of the riveting tools must be carried out professionally. On completing this work, there should not be any more hazard to the operator, if used as per the regulations. The operator may only carry out the operations mentioned here.

Bleeding the hydraulic section, refilling hydraulic oil

It is necessary to bleed the hydraulic system or to refill the hydraulic oil when:

- oil is leaking from defective O-rings.
- after an oil-change at the time of an overhaul (either after a maximum of 3 years, or after 2000 working hours).
- Detach the compressed air connection.



Caution Hazard of injury by means of bruises or cuts in case of unchecked cutting stroke! Always detach compressed air supply before unscrewing the nose cap (2).

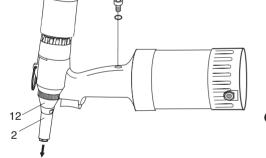


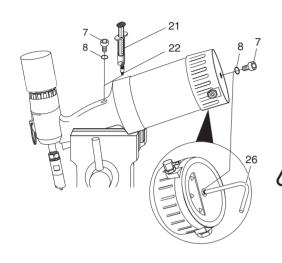
Unscrew nose cap (2), so that there is no more pressure on the hydraulic cylinder, else it would not be possible to fill in adequate oil

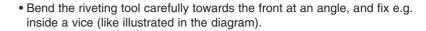
- Unscrew the knurled nut (12) up to the end stop.

Note

If you clamp the riveting tool into a vice, then insert a soft material in-between (Alu/ wood)







This position is critical, where the trapped air can escape when necessary (bleeding the hydraulic section).

Attention Environmental hazard! Always use a large bowl for collecting oil. Please observe all the environmental regulations prevalent in the respective area.

Attention Material damage! Do not let the O-ring (8) be damaged. If the O-ring gets damaged, then replace immediately.

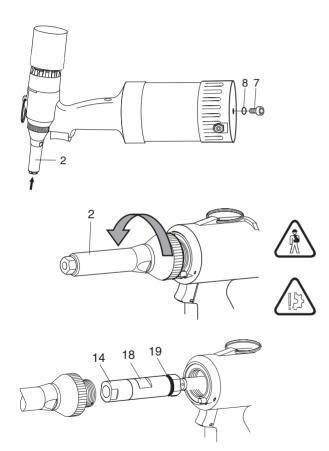
- Unscrew the socket head screw (7) in the hydraulic housing carefully, using the internal hex key SW4 (23).
- Screw the oil refill adapter screw (22) into the free opening.
- Set the filled oil gun (21).
- Screw socket head screw (7) out of the device floor with the internal hex kev SW4 (23)
- Insert the crank (26) into the free opening and screw up to the limit.
- Pull crank (26) out until the marking is flush with with the floor plate.



Note

By this piston movement hydraulic oil (e.g. DEA Astron HLP 32 or equivalent) is drained into the hydraulic area from the plugged in oil gun

- Press oil gun (21) remove and screw out oil refill adapter screw (22).
- Screw in socket head screw (7) with O-Ring (8) and tighten with internal hex key SW4 (23) (see Page 25 "Table for torque values").
- · Screw crank out.



- Screw socket head screw (7) into device floor (see page 25 "Table for torque values").
- Rub the riveting tool dry.
- Screw on the nose piece (1).
- Loosen the fixed riveting tool.
- Reconnect the compressed air supply.
- Carry out a test run without blind rivet.

Changing the jaws

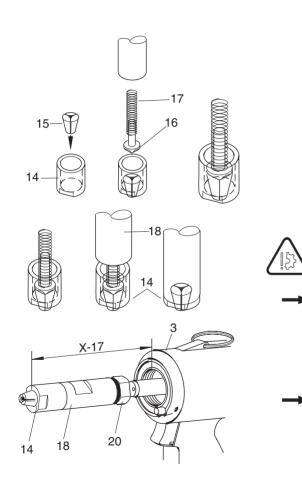
The jaws are subject to mechanical wear out, and must be replaced as soon as they start losing grip over the mandrel.

• Detach the compressed air supply.

Caution Hazard of injury by means of bruises or cuts in case of unchecked cutting stroke! Always detach compressed air supply before unscrewing the nose cap (2).

Attention Material damage! Do not let O-ring (19) get damaged. If the O-ring has been damaged, replace immediately.

- Loosen the nose cap (2) with a box wrench SW22, unscrew, and separate carefully from the jaw case body (18).
- Loosen the jaw case (14) from the jaw case body (18) using a wrench SW17 (hold against the jaw case body using wrench SW17).
- Carefully unscrew and lay down the jaw case (14) manually: the jaws (15) lie loosely in the jaw case (14).
- Remove jaw pusher (16) and pressure spring (17) from the jaw case body (18) and discard.



- Remove old jaws (15) from the jaw case (14), apply little oil on the new jaws, and put to use.
- Set the jaw pusher (16) with the pressure spring (17) vertically inside the jaw case (14).
- Hold the riveting tool vertically, the jaw case body (18) shows from below.
- Insert the complete jaw case (14), along with the jaws, jaw pusher and pressure spring set in, into the jaw case body.
- Screw the jaw case (14) carefully by hands against the thrust of the springs - into the jaw case body (18).
- Fix the jaw case body (18) using a wrench SW17 and a lock nut, and tighten the jaw case (14) using a wrench SW17 (see page 25 "Table for torque values").

Attention Material damage! If mounted correctly, then the jaws must jut out at the same level from the jaw case (14). It should be possible to press them into the jaw case (14) with the thumb.

At the time of replacing the jaws, it may be observed that the lock nut (20) at the jaw case body (18) loosens and adjusts itself. In such a case, the gap between X - 17 needs to be readjusted (see page 24 "Adjusting the jaw case body").

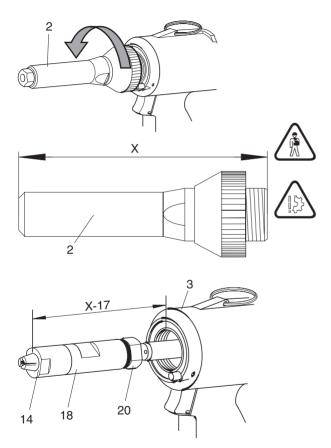
 \bullet Check the distance X – 17 (see page 24 "Adjusting the jaw case body").

Before you unscrew the nose cap (2) completely turn out the knurled nut (12) in the front position (exhaustion on) in order to prevent the air nozzle from being pressed into the housing

• Screw on the nose cap (2).

Note

Note



Adjusting the jaw case body

In order to enable the riveting tool to travel an adequate stroke, the gap between the jaw case (14) and hydraulic housing (3) must be adjusted correctly.

• Detach the compressed air supply.

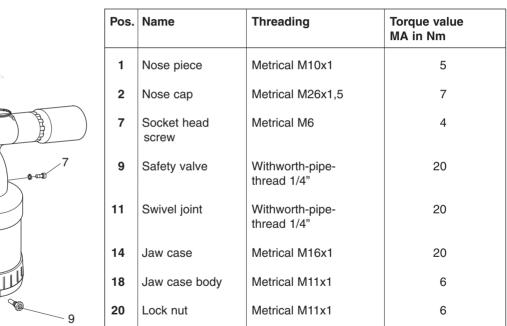
Caution Hazard of injury by means of bruises or cuts in case of unchecked cutting stroke! Always detach compressed air supply before unscrewing the nose cap (2).

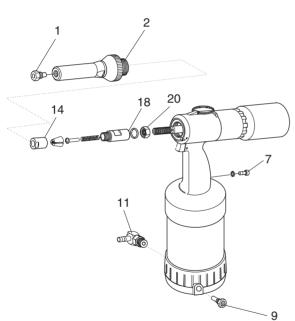
Attention Material damage! Do not let O-ring (19) get damaged. If the O-ring has been damaged, replace immediately.

- Loosen the nose cap (2) with open-end spanner SW22, then unscrew it and carefully pull it off the jaw case body (18).
- Measure the gap X at the nose cap (2) (as per diagram). For standard measurements, X = 108 mm.
- Measure the distance between the jaw case (14) on the facing side and the hydraulic housing (3) on the facing side; the correct distance measures up to X - 17 mm.
- Loosen the lock nut (20) from the jaw case body (18) using a wrench SW17, till the jaw case body (18) can rotate freely.
- Adjust the jaw case body (18) (for left or right side revolutions), till the distance of X - 17 mm is obtained.
- Screw the lock nut (20) against the jaw case body (18).
- Hold the jaw case body (18) in this position using a wrench SW14, and tighten the lock nut (20) using a wrench SW17 (see page 25 "Table for torque values").

Table for torque values

In the following table, you will find torque values, which you are required to adhere to while tightening the screws/ nuts.





Servicing and cleaning riveting tool



Caution Hazard of injury if handled in an improper manner! Servicing, maintenance and repairs of the riveting tools must be carried out professionally. On completing this work, there should not be any more hazard to the operator, if used as per the regulations. The operator may only carry out the operations mentioned here.

> Hazard of injury if the riveting tool falls down! The hydaulic housing must always be kept dry, clean and oil- and fat-free.



Attention Material damage due to corrosion! Do not use any highly active cleaning agents or combustible liquids for cleaning purpose!

The following routine is recommended:

The riveting tool must be cleaned and checked for mechanical defects as per the respective application type.

After the riveting tool has been cleaned and when it is to be stored for a long period, lightly grease all the external metallic components (see page 27 "Maintenance intervals").

Maintenance Intervals

Interval	Activity	How?	Who?	Remark
Daily before use	Check for cracks	Visual check	Operator	_
Daily before use	Check nose piece for rivet diameter and wear and tear	Visual check	Operator	If required, replace nose piece
Daily before use	Check the jaws	Functional check	Operator	If required, clean and change jaws
Daily before use	Check for oil leaks from the riveting tool	Visual check, if required, fill with acid-free oil, and bleed hydraulic system	Operator	
Daily after use	Clean riveting tool	With a rag	Operator	
Daily after use	Oil moving parts	With acid-free oil e.g. ELFOLNA 46	Operator	
Either throughout the 3 years or after a period of 2000 working hours	Change hydraulic oil	With acid-free oil e.g. DEA Astron HLP 32	Professional	A complete oil change, to be carried out only by a professional

Trouble shooting

Operations, which may be carried out by the operator, are marked with the letter O.

Operations, which may be carried out only by an expert person, are marked with the letter P.



Caution Hazard of accident! In any case, keep the compressed air supply detached till the source of the problem is eliminated.



Attention Material damage! Operations, which have been marked with the letter P, must be carried out only by well- trained experts. Deliver riveting tool from overhaul.

> Any replacement of original spare parts may be carried out only by well-trained experts.



Note

After every instance of problem- removal, a thorough functional check must be carried out

Problems	Cause	Solution
Blind rivet is set correctly	Supply of compressed air is too rare	(O) Check compressed air supply (O) Set the compressed air setting on the maintenance unit at a maximum of 7 bar
	Jaws are dirty	(O) Clean jaws
	Jaws are worn out	(O) Change jaws (see page 20 "Maintaining the riveting tool")
	Jaw case and jaw case body are loose	(O) Tighten the screws/ nuts (see page 20 "Maintaining the riveting tool")
	Oil shortage/ no stroke	(O) Eliminate oil shortage
Blind rivet can not be inserted	Oil quantity in the system too high	(O) Check and adapt oil quantity (see "Maintaining the riveting tool")
	Wrong nose piece	(O) Change nose piece (see page 17 "Operating the riveting tool")
	Nose piece is loose	(O) Tighten screws/ nuts (see page 20 "Maintaining the riveting tool")
	Travel-path of the mandrel is blocked	(O) Empty riveting tool mandrel collector
	X-value is too low	(O) Reset the value of X (see page 24 "Adjusting the jaw case body")
Air adjustment nozzle is stuck	The screw is too tight	(P) Change or clean O-ring

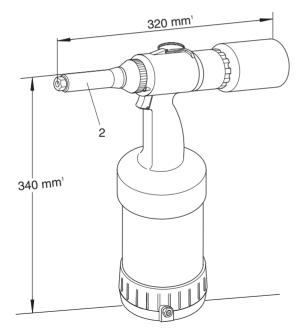
Trouble shooting

Problems	Cause	Solution
Mandrel is not sucked	Supply of compressed air is too rare	(O) Check supply of compressed air (O) Set the compressed air setting on the maintenance unit at 6 bar (P) If operating pressure is OK, deliver riveting tool from overhaul
	X-value is too low Safety valve gets blown off Safety valve is not tight Safety valve is defective O-ring (19) is defect	 (O) Reset the value of X (see "Adjusting the jaw case body") (O) Check the setting of compressed air (O) Tighten the safety valve (O) Replace safety valve (P) Insert new O-ring
Air bubbles in the hydraulic system	Oil level is too low Not bled correctly O-ring is leaking	(O) Check oil level and fill up (O) Bleed the hydraulic unit (see page 20 "Maintaining the riveting tool"), change the O-ring if required (P) Deliver riveting tool from overhaul
Stroke is too short	Oil level is too low X-value is too low	(O) Check oil level and fill up (O) Reset the value of X (see page 24 "Adjusting the jaw case body")
Loss of hydraulic oil due to leakage	Riveting tool is defective	(P) Deliver riveting tool from overhaul
Safety valve gets blown off	Compressed air pressure is too high Valve is defective	(O) Check and adjust compressed air setting (O) Replace safety valve
Excessive loss of oil from riveting tool	Leaking and worn out O-rings inside the riveting tool	(P) Withdraw the riveting tool from the work-routine, and order an overhaul

Disposing of the riveting tool

Ensure that the hydraulic oil is inside the riveting tool. Dispose it off in an environmentally friendly manner.

Send the riveting tool back to the manufacturer in it's original packing, if still available.



Technical data

Type of riveting tool: RL 60
Height: 340 mm¹
Width: 320 mm¹
Weight: 2,6 kg¹
Operating pressure: 5-7 bar

Compressed air supply

Nominal diameter: DN 6

Power output (at 6 bar): ca. 17,8 kN Operating stroke: ca. 26 mm

Operating range: Blind rivet-shaft Diameter 4.0 to 6.4 mm

Sound emission level

in the workplace: L_{PAI} <70dB(A) Vibration level: a_{hw} <2,5m/s²

If desired, the nose cap (2) can also be counted in other measure ments.

The length and height and weight measurements of the riveting tool are as per the standard procedures.

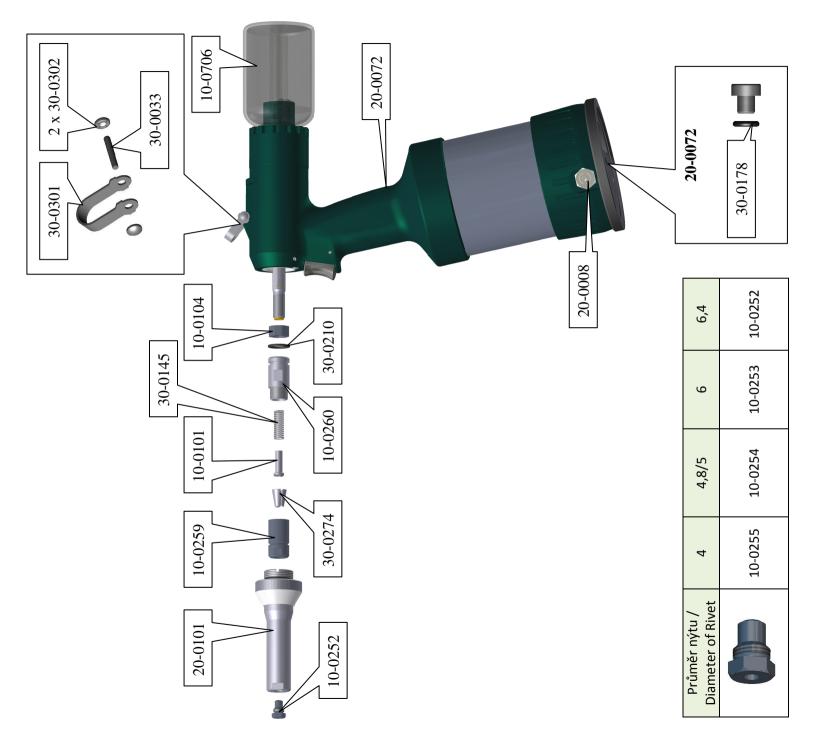
Guarantee

Other than the official guarantee (6 months), the company RIVETEC also offers a guarantee of an additional 6 months from the date of Purchase. (The bill being the proof thereof).

The following working parts are excluded from the guarantee agreement:

- Nose piece (1)
- Spent mandrel collector (6)
- Socket head screw (7) with O-ring (8)
- Jaw case (14)
- Jaws (15)
- O-rings (5) and (19)

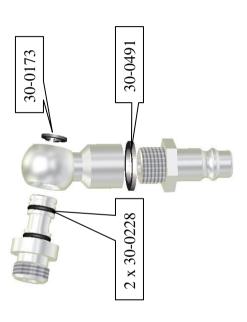
20-0106: [variant]



Příslušenství k připojení, údržbě, uskladnění Accessories for connecting, upkeep, stowage

30-0293 20-0171 30-0178 30-0288 10-0250 10-0830 30-0400 30-0292 20-0342

20-0342



Přehled Overview

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Ks Pcs	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	7	1	1	1	1	1	2	1	1
Description	Jaws Pusher	Lock Nut	Crank	Nose Piece 6,4	Nose Piece 6	Nose Piece 5	Nose Piece 4	Jaw Case	Jaw Case Body	Mandrel Collector	Key SW 11	Fill Screw cpl.	Nose Cap, cpl.	Oil Refill Adapter Screw	Swivel-joint, cpl.	Cylindrical Pin 3x20	Retained Ring	OR 5x2 90 Shore	OR 5x2 90 Shore	OR 16 x 2 70 Shore	OR 7,1x1.6 70 Shore	Jaws (3-piece)	Oil Syringe	Key SW 11	Internal Hex Key SW 4	Lifting Attachment	Starlock D=3	Stopper	Seal
Název	Vodící trubka	Zajišťovací matice	Táhlo	Náustek 6.4	Náustek 6	Náustek 5	Náustek 4	Svěrací hlava	Mezikus	Sběrná nádobka	Klíč nástrčný 11	Těsnící šroub komplet	Hubice komplet	Plnící šroub komplet	Vzduchový přípoj - komplet	Kolík válcový 3 x 20	Pojistný kroužek pro hřídele	O-kroužek 5x2	O-kroužek 5x2	O-kroužek 16x2	O-kroužek 7.1x1.6	Kleštiny (3-dílné)	Stříkačka na olej	Klíč jednostranný otevřený č.11	Klíč imbusový č.4	Závěs	Starlock D=3	Zátka	Těsnění 1/4"- bílé
Objednací číslo Part No.	10-0101	10-0104	10-0250	10-0252	10-0253	10-0254	10-0255	10-0259	10-0260	10-0706	10-0830	20-0072	20-0101	20-0171	20-0342	30-0033	30-0173	30-0178	30-0178	30-0210	30-0228	30-0274	30-0288	30-0292	30-0293	30-0301	30-0302	30-0400	30-0491

^{*}V - díly na které se nevztahuje záruka, spare-parts without quarantee



EU DECLARATION OF CONFORMITY ES PROHLÁŠENÍ O SHODĚ

RL 60 Název produktu: Product Name:

99-0023 Cat. Number: Kat. číslo:

pneumaticko-hydraulické nýtovací nářadí pro usazování jednostranný nýtů Určení produktu:

air-hydraulic riveting tool for installing blind rivets Specifications: Manufacturer Výrobce

CZ-39816 Albrechtice nad Vltavou Albrechtice nad VItavou 16 RIVETEC s.r.o. IČ 60647761 prohlašuje, že výše uvedený výrobek odpovídá následujícím evropským normám a směrnicím a byl navržen, vyroben a posouzen ve shodě s platnou legislativou ČR:

declares that the product listed is in conformity with the essential requirements and provisions of following Council Directives and conforms to the following standards:

ČSN EN ISO 12100 Bezpečnost strojních zařízení

ČSN EN 349 Bezpečnost strojních zařízení – Nejmenší mezery k zamezení stlačených částí lidského těla ČSN EN 349 Bezpečnost strojních zařízení – Ochrame kryty ČSN EN 358 Bezpečnost strojních zařízení – Ochrame kryty ČSN CR 954-100 Bezpečnost strojních zařízení: části řídicích systémů ČSN CR 954-100 Bezpečnost strojních zařízení: části řídicích systémů ČSN EN 983 Bezpečnost strojních zařízení – Umístění ochramých zařízení s ohledem na rychlosti přiblížení částí lidského těla ČSN EN 999 Bezpečnost strojních zařízení – Umístění ochramých zařízení s ohledem na rychlosti přiblížení částí lidského těla ČSN EN 61000-6-1 ed. 2 Elektromagnetická kompatibilita – Emise ČSN EN 61000-6-4 ed. 2 Elektromagnetická kompatibilita – Emise ČSN EN 61000-6-4 ed. 2 Elektromagnetická kompatibilita – Emise ČSN EN 61000-6-4 ed. 2 Elektromagnetická kompatibilita – Emise ČSN EN 61000-6-4 ed. 2 Elektromagnetická kompatibilita – Emise ČSN EN 61000-6-4 ed. 2 Elektromagnetická kompatibilita – Emise ČSN EN 61000-6-4 ed. 2 Elektromagnetická kompatibilita – Emise ČSN EN 61000-6-4 ed. 2 Elektromagnetická kompatibilita – Emise ČSN EN 61000-6-1 Bezpečnost strojních zařízení – Bezpečné vzdálenosti k zamezení dosahu k nebezpečným místům homími a dolními

končetinami

ČSN EN ISO 1037 Bezpečnost strojních zařízení – Zamezení neočekávanému spuštění

ČSN EN 614-1 Bezpečnost strojních zařízení – Ergonomické zásady navrhování – Část 1 ČSN EN 60439-1 ed. 2 Rozvaděče nn – Část 1

2006/95/ES Elektrická zařízení určená pro používání v určitých mezích napětí

2004/108/ES Elektromagnetická kompatibilita 2006/42/ES Směrnice o strojích a zařízeních

Zákon č. 22/1997 Sb. o technických požadavcích Zákon č. 71/2000 Sb. (změna zákona č. 22/1997 Sb.)

Zákon č. 205/2002 Sb. (změna zákona č. 22/1997 Sb.) Zákon č. 226/2003 Sb. (změna zákona č. 22/1997 Sb.) Zákon č. 102/2001 Sb. o obecné bezpečnosti výrobků Zákon č. 227/2003 Sb. (změna zákona č. 102/2001 Sb.)

Nařízení vlády č. 18/2003 Sb. o požadavcích na výrobky z hlediska jejich elektrické kompatibility Nařízení vlády č. 204/2003 Sb. o technických požadavcích na strojní zařízení

Place and date: Místo a datum:

Albrechtice nad VItavou

27.11.2008

Jméno, funkce a podpis autorizované osoby:

Name, Title and Signature of Authorized Person:

Ing. Antonín Solfronk Managing Director



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