

ProMeister



User Guide

Produced in Taiwan for
Bileko Car Parts AB
P.O. Box 542
S-645 25 Strängnäs, Sweden
Tel: +46 771 72 00 00
www.promeister.com



1/2" Stubby Impact Wrench

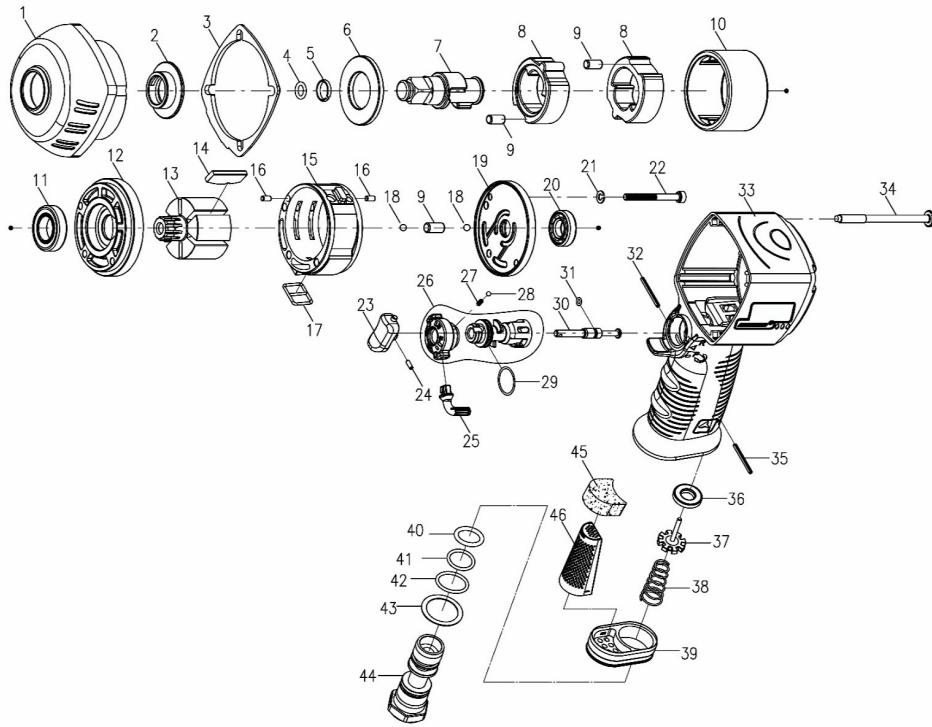
Luftwerkzeuge
Tryckluftsverktyg
Tryckluftsverktøy

Trykluftværktøj
Paineilmatyökalut

Art. Nr: PT6124

RVNR-01

Product Specifications



Product Specifications

| Index No. | Part No. | Description | Q'ty |
|-----------|-------------|----------------------------------|------|
| 1 | 2224-002 | Hammer Case | 1 |
| 2 | 243Q-010 | Anvil Bushing | 1 |
| 3 | 2224-020 | Front Gasket | 1 |
| 4 | 00-4103 | O-Ring(P7) | 1 |
| 5 | 250-033 | Anvil Collar | 1 |
| 6 | 243Q-019 | Hammer Cage Cover | 1 |
| 7 | 243Q-011NA4 | Anvil | 1 |
| 8 | 243Q-017 | Hammer | 2 |
| 9 | 00-3480 | Pin($\psi 6 \times 10L$) | 3 |
| 10 | 2224-012 | Hammer Cage | 1 |
| 11 | 00-2349 | Ball Bearing(6902ZZ) | 1 |
| 12 | 2224-005 | Front End Plate | 1 |
| 13 | 2224-007 | Rotor | 1 |
| 14 | 2224-008D | Rotor Blade | 6 |
| 15 | 2224-006 | Cylinder | 1 |
| 16 | 00-3419 | Pin($\psi 3 \times 6L$) | 2 |
| 17 | 243D-030 | Square Ring | 1 |
| 18 | 00-3824 | Steel Ball($\psi 4$) | 2 |
| 19 | 2224-009 | Rear End Plate | 1 |
| 20 | 00-2326 | Ball Bearing(6900) | 1 |
| 21 | 00-1809 | Spring Washer(M4) | 3 |
| 22 | 00-0165 | Cap Screw(M4x35L) | 3 |
| 23 | 243Q-023 | Trigger | 1 |
| 24 | 00-3325 | Spring Pin($\psi 2 \times 6L$) | 1 |
| 25 | 243Q-035B | Tab | 1 |

| Index No. | Part No. | Description | Q'ty |
|-----------|-----------|--|------|
| 26 | 243Q-034B | F/R Lever | 1 |
| | 243D-021 | R/F Valve | 1 |
| 27 | 305Y-027 | Spring | 1 |
| 28 | 00-3816 | Steel Ball($\psi 2.5$) | 1 |
| 29 | 00-41175 | O-Ring($\psi 13 \times \psi 1.5$) | 1 |
| 30 | 243Q-029 | Trigger pin | 1 |
| 31 | 00-4190 | O-Ring($\psi 4 \times \psi 1$) | 1 |
| 32 | 00-3351 | Spring Pin($\psi 2 \times 24L$) | 1 |
| 33 | 2224-001 | Motor Housing | 1 |
| 34 | 2224-028 | Screw | 4 |
| 35 | 00-3308 | Spring Pin($\psi 3 \times 18L$) | 1 |
| 36 | 243D-024 | Bushing | 1 |
| 37 | 243D-025 | Valve Stem | 1 |
| 38 | 2224-027 | Spring | 1 |
| 39 | 305-021 | Exhaust Deflector | 1 |
| 40 | 00-4152 | O-Ring ($\psi 13.8 \times \psi 2.4$) | 1 |
| 41 | 00-41204 | O-Ring ($\psi 14 \times \psi 1.78$) | 1 |
| 42 | 00-4121 | O-Ring ($\psi 15 \times \psi 1.5$) | 1 |
| 43 | 305F-032 | Washer | 1 |
| 44 | 243D-026A | Air Inlet (1/4" PF) | 1 |
| | 243D-026B | Air Inlet (1/4" PT) | |
| | 243D-026C | Air Inlet (1/4" NPT) | |
| 45 | 305V-027 | Muffler | 1 |
| 46 | 305F-042 | Muffler | 1 |

| Art. Nr | SQUARE DRIVER | FREE SPEED | MAX. TORQUE @ 5sec. | | OVERALL LENGTH | | AIR INLET | AIR HOSE I.D. | AVERAGE AIR CONSUMPTION | | NET WEIGHT | |
|---------|---------------|------------|---------------------|-----|----------------|-----|-----------|---------------|-------------------------|-------|------------|-----|
| | inch | rpm | ft-lb | Nm | inch | mm | inch | inch | cfm | L/min | lb | kg |
| PT6124 | 1/2 | 9,500 | 300 | 407 | 4.25 | 108 | 1/4 | 3/8 | 4.2 | 118 | 2.86 | 1.3 |

| NOISE | | | | VIBRATION | |
|-------------------------------|----------------------------|-------------------------------|----------------------------|------------------|------------------|
| No Load | | Loaded | | | |
| Sound Pressure dB(A) (LpA) | Sound Power dB(A) (LwA) | Sound Pressure dB(A) (LpA) | Sound Power dB(A) (LwA) | m/s ² | m/s ² |
| 85.1 | 96.1 | 90.4 | 101.1 | 4.5 | 0.94 |

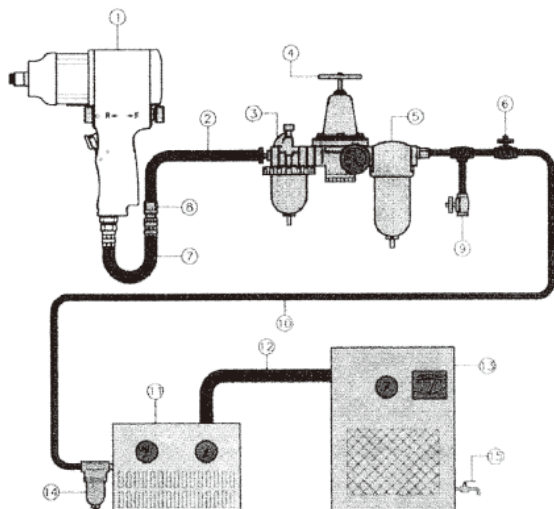
Operating Instructions



For your own safety, please read the operating instruction carefully before use the air tool.

1. Please always keep the proper pressure of air inlet at 90psi (Max 6.3dB) in order to protect your own safety and maintain the longest tool life. Pour a few drips of lubricating oil in the air inlet regularly.
2. Do not wear loose or baggy clothing when you operate the air tool. Remove anything that may be caused injury, ie. neckties, jewelry etc. Tie back long hair and wear eye protection.
3. It is the owner's responsibility to lubricate the air tool properly, but do not use any inflammable or volatile oils for lubricating, ie. diesel oil, gasoline, or kerosene
4. Make sure to use impact-quality sockets only, do not use hand-tool sockets. The crack of sockets will reduce the torque of air tool and may cause serious injury.
5. Do not depress trigger when connecting the air supply hose.
6. Protect the air lines from damage or puncture.
7. Never point an air tool at oneself or any other person. It could cause serious injury.
8. Keep all nuts, bolts and screws tight and ensure equipment is in safe working condition.

Air Tools and Pipe Fitting System

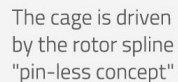


1. Air Tool
2. Air Hose 3/8"
3. Oiler
4. Pressure Regulator
5. Filter
6. Shut Off Valve
7. Lead Hose
8. Coupler body and connector
9. Drain Daily
10. 1/2" or larger pipe and fitting
11. Air Dryer
12. 1" or larger pipe and fitting
13. Air Compressor
14. Auto Drain
15. Drain Daily

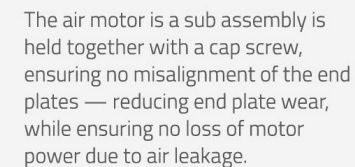
Caution

1. To Protect air tools, we strongly recommend that you install a pneumatic filter, moisture separator, regulator and lubricator between the air supply and Air Tools
2. Please notice if the moisture in pipe is too much and if your air compressor is made drain daily
3. Be sure to fill in SAE#10 lubricating oil into the air inlet before using air tools, and always after daily use.
4. Before using air tools, please keep proper air pressure
5. Don't fill in too viscid oil into air inlet, or it will lessen the air motor power.

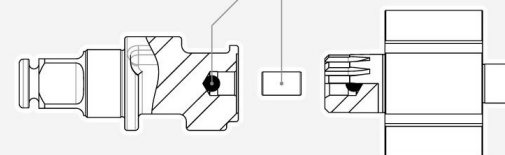
| SYMPTOM | POSSIBLE CAUSES | CORRECTIVE ACTION |
|---|--|--|
| Tool runs slowly down or doesn't work | 1. Grit or gum in motor set. 2. Low air pressure. 3. Dry or rusty motor set 4. No oil in tool. 5. Worn ball bearing. | 1a. Drop diesel oil from air inlet to flush motor set, and then drop SAE#10 motor oil to lubricate it. 1b. Disassemble tool and repair it. 2. Check the air compressor meter and adjust the compressor regulator. 3. Lubricate the tool with SAE#10 motor oil or sewing machine oil. 4. Do the same as point 3 5. Replace ball bearing. |
| Reduced torque | 1. Lack of lubrication 2. Regulator set in wrong position 3. Low pressure. 4. Worn impact mechanism | 1. Lubricate the tool. 2. Adjust the regulator to correct position. 3. Check the pressure of air inlet to see if it is at correct number 90 PSI. 4. Replace parts |
| Doesn't impact totally but can run free | Serious worn parts or damaged parts of impact set. | Disassemble tool and replace parts |
| Self-running | Trigger system: 1. Valve stem can't remove back. 2. Rusty or deformed steel ball. 3. Rusty or cracked spring | Replace parts |
| Moisture blowing out of tool | 1. Water in tank. 2. Water in the air lines/hose | 1. Drain tank. Oil tool and run until no Water is evident. Oil tool again and run 1-2 seconds. 2a. Install a water separator/filter. Note: Separators only work properly when the air passing through the separator is cool. Locate the separator/filter as far as possible from the compressor. 2b. Install an air dryer. |



DRIVE SYSTEM



The steel ball reduces wear. The pin engages in a hole at the back of the anvil and also engages in a hole at the front of the rotor spline ensuring perfect concentricity between the rotor and MECHONEER® anvil.



MOTOR DESIGN

Busting Torque
—
2,600Nm



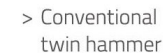
STEP 2
Pull tab and insert
to the other side

SUMMARY MECHONEER® BENEFITS

With no pins passing through the hammer cage, the cage is strengthened providing pin-less reliability with twin hammer blow frequency.

The pin-less action, removal of pins and the concentricity with the rotor reduces vibration and further increases reliability.

Sealing the mechanism with an end plate eliminates the characteristic of all twin hammer, rocking dog, pin-less hammer, jumbo hammer mechanisms; where the centrifugal force throws the grease to the inside of the hammer case, causing premature hammer and anvil wear.



TOOLS FEATURES

MECHONEER® Drive System features a new patent pending impact mechanism, reducing vibration by up to 40% and noise up to 10%, and increasing life by 80% and unbeatable power to weight ratio.

A › Hammer cage end plate retains the grease in the hammers & cage reducing wear

B › Patented MECHONEER® pin-less/twin hammer clutch reduces wear and vibration

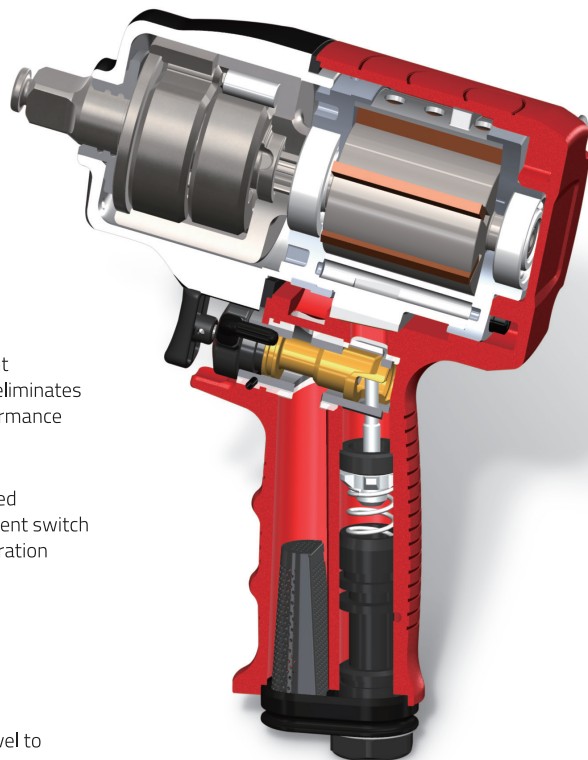
C › Rotor spline connected to anvil eliminates misalignment and reduces wear and vibration

D › Through-bolt motor assembly construction eliminates component misalignment reducing wear; and eliminates motor air leakage increasing performance

E › Patented trigger mounted combined forward/reverse/power management switch provides convenient one hand operation

F › Ergonomic handle design provides unmatched operator comfort

G › Patented muffler reduces noise level to 88 dB



HOW IT WORKS
The patented MECHONEER® Drive System is a **Hybrid** twin hammer/pin-less mechanism that has fewer moving parts reducing vibration and wear. The clutch mechanism is sealed with a front end plate that retains grease within the mechanism reducing wear. The rear of the anvil is connected by a secondary spindle to

the rotor spline of the motor guaranteeing concentricity which reduces vibration and wear. The motor pack has a through-bolt that ensures concentricity and alignment of the rotor, end plates and cylinder — reducing wear and eliminating internal motor air leaks then can effect power.

EC Declaration of Conformity

We,

Bileko Car Parts AB
P.O. Box 542,
S-645 25 Strängnäs,
Sweden

Herewith declare that the following machine complies with the appropriate basic safety and health requirements of the EC Directive based on its design and type, as brought into circulation by us.

In case of alteration of the machine, not agreed upon by us, this declaration will lose its validity:

Description: 1/2" STUBBY IMPACT WRENCH

Type: Art nr: PT6124

Applicable EC Directives: Machinery Directive: 2006/42/EC

Applicable Harmonized Standards: EN ISO 11148-6:2012
EN 15744:2008
EN ISO 28927-2:2010

Date / Authorized Signature: 2021-03-19 ...

Nathalie Ahlsén

Title of Signatory: Nathalie Ahlsén
Purchasing & Category Manager

