

IMPACT WRENCHES

RRI-2100M & RRI-2500M

WITH THE NEW REVOLUTIONARY MECHONEER DRIVE IMPACT MECHANISM



REDUCING VIBRATION



REDUCING NOISE



INCREASING LIFE

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.

These composite impact wrenches by Red Rooster have an excellent weight/power ratio. They are developed for assembly- and disassembly applications. The revolutionary Mechoneer impact mechanism gives high energy levels per impact. The Mechoneer impact mechanism combines the hitting strength of a Twin Hammer with the durability advantage of the closed hammer mechanism. On top of that, it is greased fully, which results in low vibration levels and low sound pressure. The tool is suitable for industrial use.

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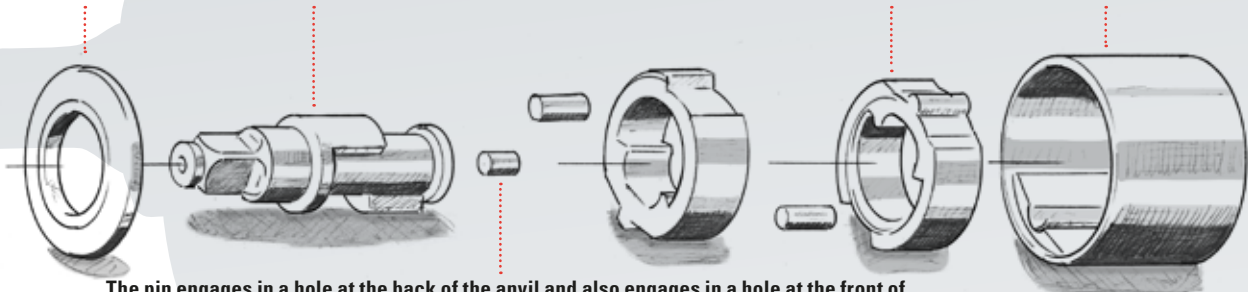
DRIVE SYSTEM

The end plate seals with the cage preventing loss of grease.

The anvil is driven by the twin hammers "twin hammer concept".

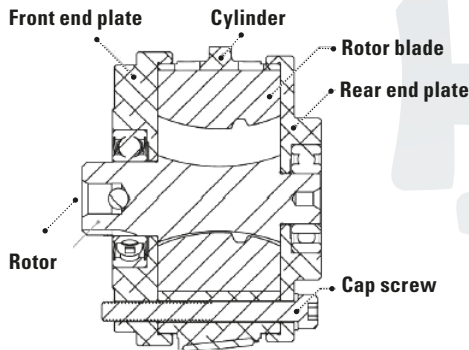
The hammers are driven by the cage "pin-less concept".

The cage is driven by the rotor spline "pin-less concept".



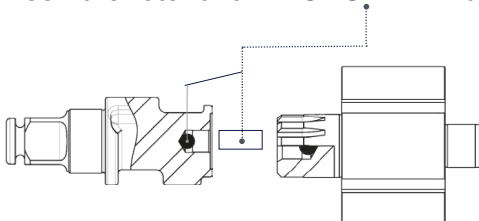
The pin engages in a hole at the back of the anvil and also engages in a hole at the front of the rotor spline ensuring perfect concentricity between the rotor and MECHONEER® anvil.

MOTOR DESIGN



The air motor is a sub assembly is held together with a cap screw, ensuring no misalignment of the end plates - reducing end plate wear, while ensuring no loss of motor power due to air leakage.

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.



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.



Conventional twin hammer

Conventional pin-less

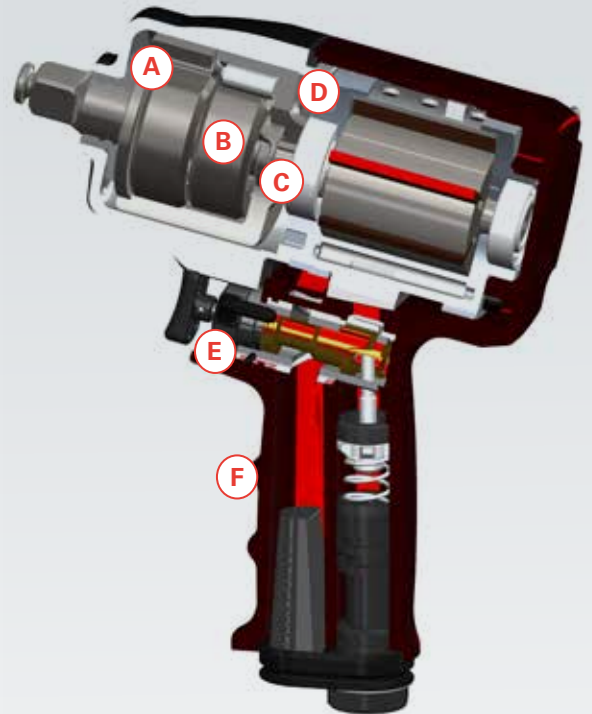
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TOOLS FEATURES

- 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. Teasing trigger with low pulling force gives excellent control of speed and power.
- F** Patented muffler reduces noise level. Forward/Reverse switch can be re-mounted for left hand users as well.



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.

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Characteristics

- Ergonomic design, well balanced
- Compact and lightweight
- Mechoneer Impact mechanism
- Power adjustable, 2 positions forward
- Exhaust silenced, through grip
- Forward/Reverse lever on trigger, for one-hand operation



Type	Square drive	Type	Bolt capacity mm	Impact mechanism	RPM	Torque Nm	Power adjustment	Air cons. l/s	Weight kg	Inlet thread	Hose diameter mm	Vibration m/s ²	Noise level dB(A)
RRI-2100M	1/2"	R	20	Mechoneer	7.500	1.000	R/L 2 levels	12	2	PT 1/4"	10	6,5	88
RRI-2500M	3/4"	R+H	24	Mechoneer	5.500	2.000	R/L 2 levels	16	3,5	PT 3/8"	13	7,7	96

Breakloose torque: RRI-2100M: 1.850 Nm & RRI-2500M: 2.700 Nm