



YOUR MACHINE PACKAGE

Most of the components in your machine package are self-explanatory. A few of the items might need a little explanation for you to become familiar with them. This document contains a brief explanation of those parts.

FRAME

The portable aluminum frame (shown here) is primarily designed to be used in a car dealer or tire store where floor space is limited. It is equipped with a Portability Package, which consists of Pushbar, Casters and brackets to hang the Enerpac Pumps and Rams. With this package, everything needed to do SAE accepted wheel straightening is contained right on the machine. It can easily be moved to any location and even stowed away in a small place until needed. The steel frame version is more suited to be used in a mobile unit, such as a truck, trailer or POD where it can be secured in place.

HYDRAULIC COMPONENTS

Every NewArc™ comes with the following Enerpac hydraulic components:

(2) P-141 Single Action Pumps

(1) RC 51 Hydraulic Cylinder

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(2) HC9206C Hydraulic Hoses

(2) GA45GC Gauge Adaptor Assembly with FZ1055 Manifold Adaptors

Magnetic Pusher Spacers (2)

These magnetic attachments snap over the end of all Enerpac RC series rams and extend the collapsed length by 1". The magnetic feature makes for a quick-connect extension.

Ram Extender (2)

This bolt-on attachment fastens to the end of all Enerpac RC series rams to extend the collapsed length by 1". It accomplishes the same thing as the Pusher Spacer but is a more permanent and solid extension.

Pusher Platen (1)

This heavy-duty disc/nut weldment provides an anchor point for the upper axis during dual-axis pressure applications. It is also used to adjust the position and angle of the upper axis ram.

Centering Cones (3)

These tapered steel cones are included for centering wheels on the machine Mainshaft.

Ram Rocker (2)

Two Ram Rockers are supplied with our machine. One is welded to the end of the Pusher Support Attachment tube. The other is a magnetic style that snaps over the end of all Enerpac RC series rams. It allows the upper axis to "rock" to different angles in the patented Dual-Axis straightening setup.

Drift Punch (1)

This tool is a short piece of 6063 T52 aluminum round stock. Since it is a softer aluminum, tool marks on the wheel are minimized as you deliver a sharp and effective blow at the precise location you choose.

Steel Die (2)

The curved and tapered surface of this die leaves few evidence marks on the wheel surface. The quick-change design incorporates a neoprene O-ring, which allows free rotation in the bore of the Ram for precise positioning.

Pusher Support Attachment (1)

This device supports the machine Mainshaft during high pressure operations by mirroring the upper axis setup. We recommend this attachment be used at all pressures over 5,000psi. This attachment is composed of a heavy-duty tube, threaded rod & nut. A Ram Rocker is welded to the end of the attachment so the operator can mirror the position of the upper Ram axis on the opposite side (see the "Technical & Training" pages of this website for a more detailed explanation.

Mainshaft Nut Wrench (1)

Specially designed . ¼" thick stainless steel wrench is stronger and easier to use than the previously supplied Face Spanner wrench. It also will better secure the Mainshaft Nut in place.

Dial Indicator Set (1)

This set is composed of a 1" travel lug-back indicator with adaptor and a cam-lock Flexbar with C-clamp mount. Cam-lock positioning is quick and the C-clamp ensures a solid mount.

Babbit Hammer (1)

Made by Cook Hammer Company, this 6lb Babbit hammer can be recast when the head becomes too deformed to use effectively.

Dye Penetrant Kit (1)

Made by Independent Test Services, this kit contains proprietary fluorescent dye and UV flashlight, which are used for state-of-the-art crack inspection.

Infrared Thermometer (1)

This tool is used for precise surface temperature monitoring while heating the damaged area of the wheel.

Nylon Pressure Protectors (3)

These ¼" thick squares of nylon are used to protect the wheel from tool-mark damage. They can be placed between the steel die and the wheel surface during pressure applications.

Wheel Raisers (3)

If the tip of one of the centering cones touches the Mainshaft platen during mounting, these three steel pieces can be used to raise the wheel slightly.

Reference Material

Charts and formulas assist technicians in determining the success rate of properly done straightening. A Bend Assessment Template is also provided to measure the bend depth vs width ratio, which helps to establishing the likelihood of cracking during straightening. These materials are also excellent tools for marketing our safe, effective and SAE accepted process to skeptical customers.

Tool Box

Keeping all the tools necessary for straightening can be stowed away and readily available at any time. Since the machine requires no external power, it can be moved to any location quickly. Straightening can even be done outdoors, while sitting on a stool!