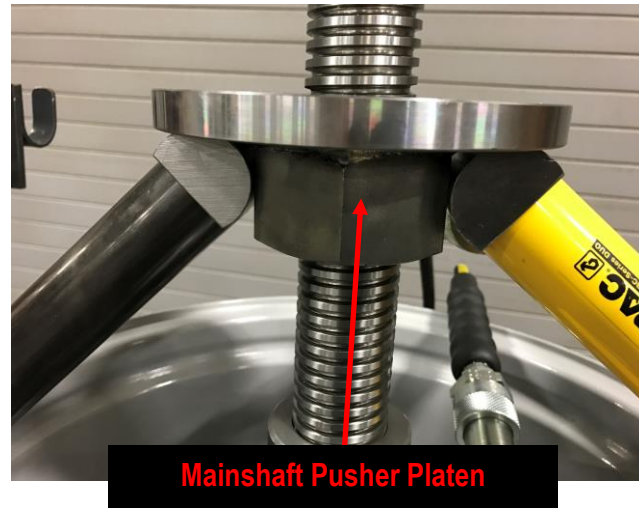




NewArc™ Wheel Straightener

Know Your Tools and Attachments

The photos on the following pages explain the items that come with your NewArc™ Wheel Straightening Machine. These components are designed to safeguard the machine and enable users to accomplish straightening repairs in a safe, quick and efficient manner.



The Ram Rocker, which contains a disc magnet, can be used on the end of any Enerpac or BVA Ram or on the end of the Mainshaft Support attachment, shown on the left in the lower photos. The support attachment mirrors the upper straightening axis to add support to Mainshaft during high pressure applications. We recommend that this attachment be used whenever pressure applications exceed 5,000psi. When the Mainshaft Pusher Platen is raised or lowered, the angle of the upper straightening axis changes. The rocker enables the ram and support attachment to conform to these axis changes.

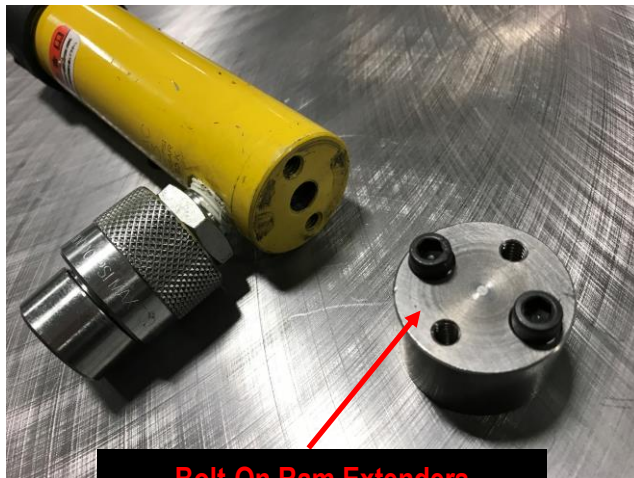
Ram Extenders



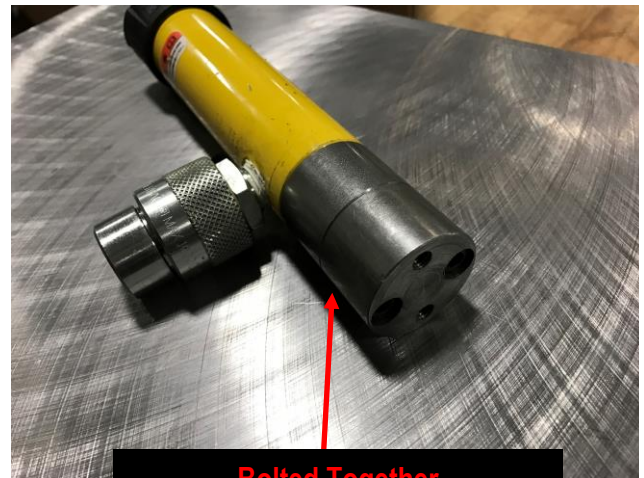
Magnetic Ram Extenders



Stacked Together



Bolt-On Ram Extenders



Bolted Together

Ram Extenders will help to fill the span when straightening larger wheels. The magnetic extenders offer quick stackable extensions while the bolt-on extenders offer a more permanent and rigid setup. The thumbscrews on the magnetic extenders keep the ram more secure in the setup. Both extenders add one inch to the collapsed length of the Enerpac and BVA Rams. The 1" stroke Ram has a collapsed length of 4.34" and the 3" stroke has a collapsed length of 6.5". Machine comes with 2 of each style extender. Additional extenders can be purchased direct from the NewArc™ website.

Drift Punch, Babbit Hammer and Straightening Dies



Soft Aluminum Drift Punch



Steel Straightening Die



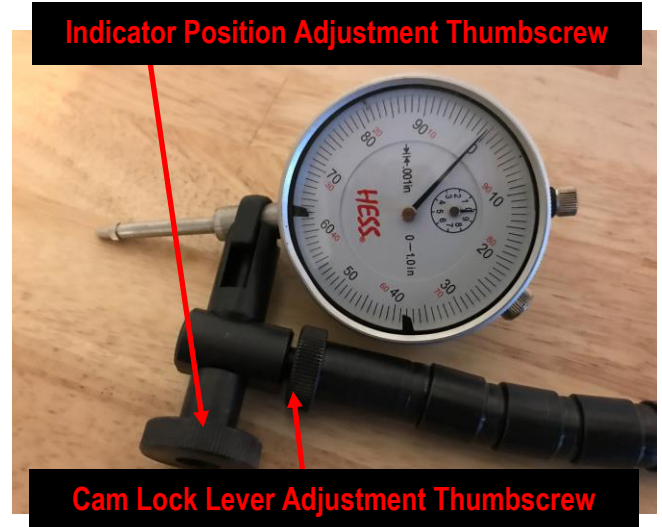
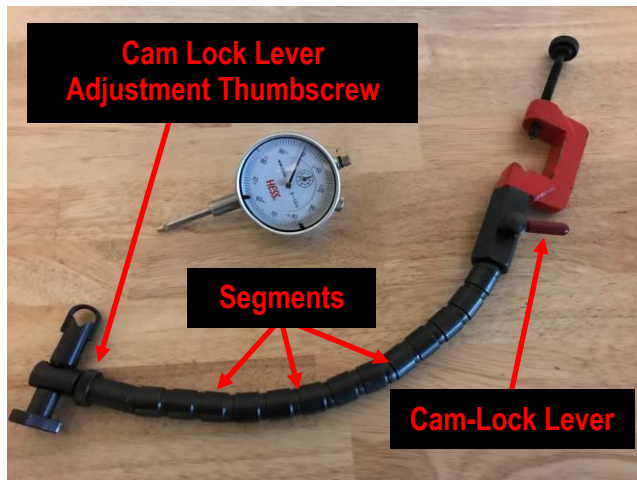
6 lb Babbit Hammer

The aluminum drift punch included with the machine enables the user to direct precise blows to specific areas of the wheel during pressure applications. Since the material is 6063 T52 aluminum, it is softer than the aluminum wheels so tool marks as a result of impact are minimized.

The steel dies slide into the end of either our Enerpac or BVA Rams. They are all held in place by a neoprene o-ring and can rotate freely once installed, which makes for easy positioning. They are also tapered slightly to allow for stable positioning in the barrel of the wheel. Two dies come with the machine package

The 6lb hammer is a babbitt-lead alloy. It is harder and more durable than plain lead. As it begins to wear, it can be recast at a fraction of the cost of purchasing a new one. To learn more about recasting services go to <https://www.lapeermanufacturing.com/cook-hammer.html>.

Dial Indicator Set with Cam Lock Flexbar



Dial indicator set comes with a C-clamp and adjustable Cam-Lock Flexbar. When you get indicator in the position you desire, it can be securely locked in that setup.

Cam Lock Lever must be adjusted correctly so when is it actuated or turned down, it will lock Flexbar in position. When locked, Flexbar can and should be removed from setup for impact and pressure applications by simply loosening C-Clamp. Since Flexbar will remain locked, it can easily be returned to the exact same setup position for indicator readings.



CAM LOCK ADJUSTMENT

Proper camlock adjustment is easy. Simply turn the Cam Lock Adjustment Thumbscrew clockwise. This will cause the Flexbar segments to squeeze together. Then, when Cam Lock Lever is turned down, it will lock segments in position. If adjustment is too tight, lever will not actuate properly so adjustment thumbscrew must be backed off slightly. Once adjusted correctly, Flexbar will remain locked for quick and easy repositioning.

Special Resources



If a wheel centerbore is too large for the centering cones, try raising the wheel slightly.

The above left photo shows how the cone would not center the wheel and the right photo shows proper cone seating.

For minor bends you can raise the wheel slightly, using the steel Wheel Raiser Pieces, spaced evenly on the Mainshaft Platen at 120 degree apart. You should also use washers to support the wheel at the lug holes.

The dial indicator set comes with a C-clamp and adjustable Cam-Lock Flexbar. When you get the indicator in the position you desire, it can be securely locked in position. In order to install the dial indicator head onto the Flexbar, you must use the Lug Back Adaptor, which is also provided. The knurled nut on the end of the Flexbar is used to adjust the tightness of the cam lock.

The 6lb hammer is a babbitt-lead alloy made by Cook Hammers. It is harder and more durable than plain lead. As it begins to wear, it can be recast at a fraction of the cost of purchasing a new one. To learn more about recasting services from Cook, visit their website at cookhammer.com/knockoff.html.

Special Resources



Sometimes you must be resourceful when trying to handle a difficult or awkward bend. The nylon press pieces can be used to direct pressure more precisely. Creative use of these components comes in handy but **these type setups can be dangerous so please use caution.** Although the nylon will protect both the wheel and the Machine Mainshaft, nylon is slippery and can pop out of position **so keep your face clear of setup when applying pressure.**

MAINTENANCE



Surface rust on the bare metal surfaces of your machine is nothing to worry about but it certainly is not appealing. To keep those surfaces looking good a regular application of machine oil or WD 40 helps. Simply spray some on each week and wipe it down with a paper towel or cloth.

Another good product line for metal protection is made by the Boeing Aircraft Company. Regular application of Boeshield will help and if you need to get rid of more severe rust spots, Rust Free is EXCELLENT. Simply apply it and use a scotch bright pad to get rid of it.