



# Safety Instructions

**ENERPAC**  
Hydraulic Technology Worldwide



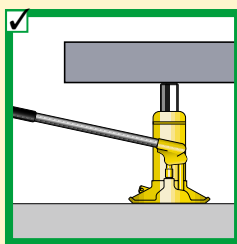
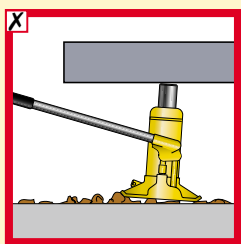
Hydraulic power is one of the safest methods of applying force to your work - when used correctly. And to that end we offer some DOs and DON'Ts, simple common sense points which apply to practically all Enerpac hydraulic products.

The line drawings and application photo's of Enerpac products throughout this catalog are used to portray how some of our

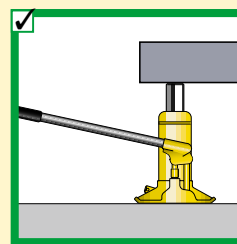
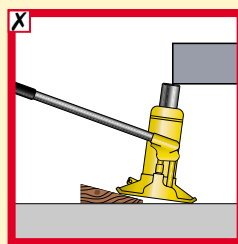
customers have used hydraulics in industry. In designing similar systems, care must be taken to select the proper components that provide safe operation and fit your needs. Check to see if all safety measures have been taken to avoid the risk of injury and property damage from your application or system. Enerpac can not be hold responsible for damage or injury, caused by un-safe use, maintenance or

application of its products. Please contact the Enerpac office or a representative for guidance when you are in doubt as to the proper safety precautions to be taken in designing and setting up your particular system. In addition to these tips, every Enerpac product comes with instructions spelling out specific safety information. Please read them carefully.

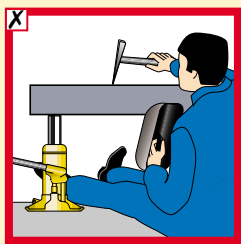
## Jacks



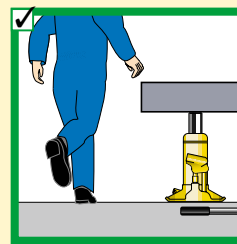
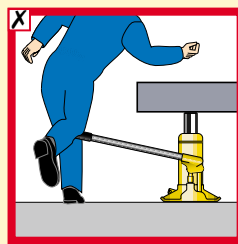
Provide a level and solid support for the entire jack base area.



The entire jack saddle must be in contact with the load. Movement of the load to be in the same direction as jack plunger.

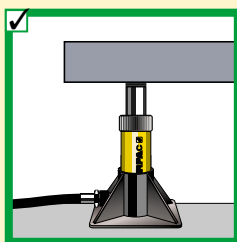
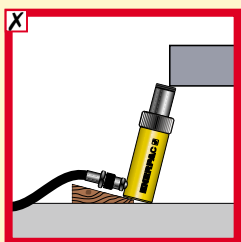


Never place any part of your body under the load. Ensure the load is on a solid support before venturing under.

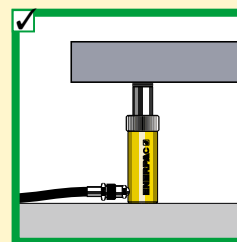
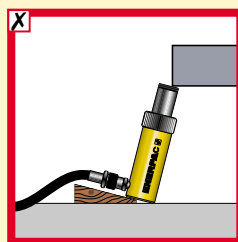


Remove the jack handle when it is not being used.

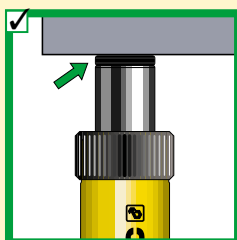
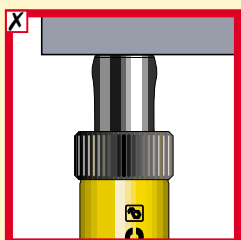
## Cylinders



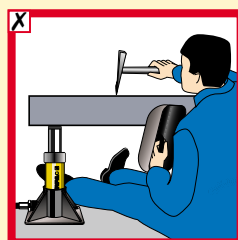
Provide a solid support for the entire cylinder base area. Use cylinder base attachment for more stability.



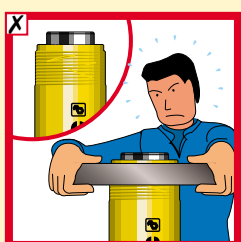
The entire cylinder saddle must be in contact with the load. Movement of the cylinder must be parallel with the movement of the load.



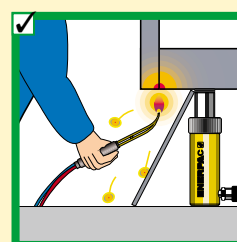
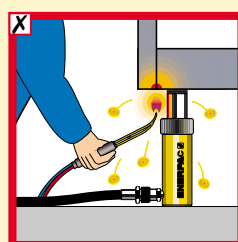
Do not use cylinder without saddle. This will cause plunger to "mushroom". Saddles distribute load evenly on the plunger.



As with jacks, never place any part of your body under the load. Load must be on cribbing before venturing under.



Always protect cylinder threads for use with attachments.



Keep hydraulic equipment away from open fire and temperatures above 65 °C (150 °F).



## General

**80%**

**Manufacturer's rating of load and stroke are maximum safe limits.**

**Good practice encourages using only 80% of these ratings!**

**80%**

Always read instructions and safety warnings that come with your Enerpac hydraulic equipment.

Don't override the factory setting of relief valves. Always use a gauge to check system pressure.

## Pumps

Don't use handle extenders. Hand pumps should be easy to operate when used correctly.

Close release valve finger tight. Using force will ruin the valve.

Fill pump only to recommended level. Fill only when connected cylinder is fully retracted.

Use only genuine Enerpac hydraulic oil. Wrong fluid can destroy seals and pump and will render your warranty null and void your guarantee.

## Hoses and couplers

Clean both coupler parts before connecting. Use dust caps when coupler parts are not connected.

Detach cylinder only when fully retracted or use shut-off valves or safety valves to lock-in cylinder pressure

Keep hoses away from the area beneath loads.

Don't kink hoses. Bending radius should be at least 115 millimetres. Don't drive over or drop heavy objects on hoses.

Don't lift hydraulic equipment by the hoses.

Lift slowly and check often

Avoid standing in the line of force

Anticipate possible problems and take steps to avoid them

