



APPLICATIONS AND SPECIAL PRODUCTS

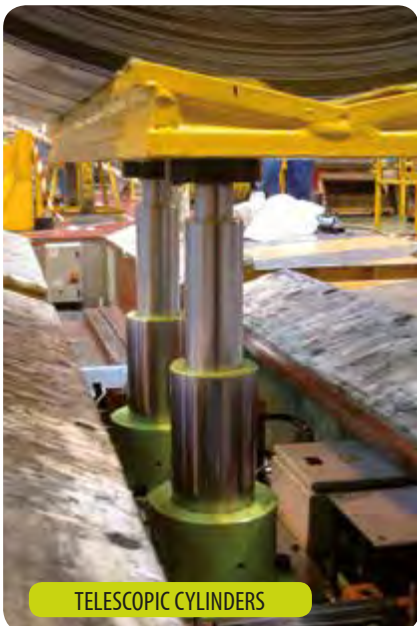
With more than 75 years of experience in the hydraulic sector, LARZEP designs and manufactures high pressure hydraulic equipment for the movement of heavy loads, cylinders up to 2.000 Tn lifting capacity or split-flow systems for a more precise control of the load.

Our engineers are continuously developing special products and producing the drawings to build in a short time special

hydraulic tools that represent 30% of our sales. No matter if it's a one off, or a big batch.

All our cylinders are designed according to ANSI B30.1 / EN1494 and manufactured in our production facility located in Mallabia, in the North of Spain. Our biggest advantage against our competitors is our flexibility and quick delivery time.

Contact our Sales Department to discuss your requirements, indicating type of product, quantity, capacity, stroke, or any another additional feature you may require.



TELESCOPIC CYLINDERS



CYLINDERS AND PUMPS



HOLLOW CYLINDER AT CONSTRUCTION SITE



HIGH QUALITY GAUGES

APPLICATIONS



KIEV OLYMPIC STADIUM

Larzep manufactured the whole batch of double acting hollow bore cylinders for the construction of the new roof of the Olympic Stadium in Kiev. 108 cylinders of 220 Tn and 150 mm stroke and 60 cylinders of 120 Tn and 150 mm stroke were supplied. Over 30.000 tonnes of pulling capacity in total.

The cylinders were used to tension all the cables of the roof simultaneously.





CATERPILLAR PIN PUSHER / CUSTOM MADE SOLUTION

The tool was used for the removal of caterpillars pins on Earth moving equipment. The pin was pushed through; in this case it took 251 metric tonnes to break the grip of the pin which was very badly worn.

A double acting cylinder, 350 ton and 300 mm stroke was used together with a 110 volt 2.1 litre per minute powerpack with remote control pendant for safety and ease operation.

The system is strongly recommended by Health and Safety Authorities, as means of protection for the operators.

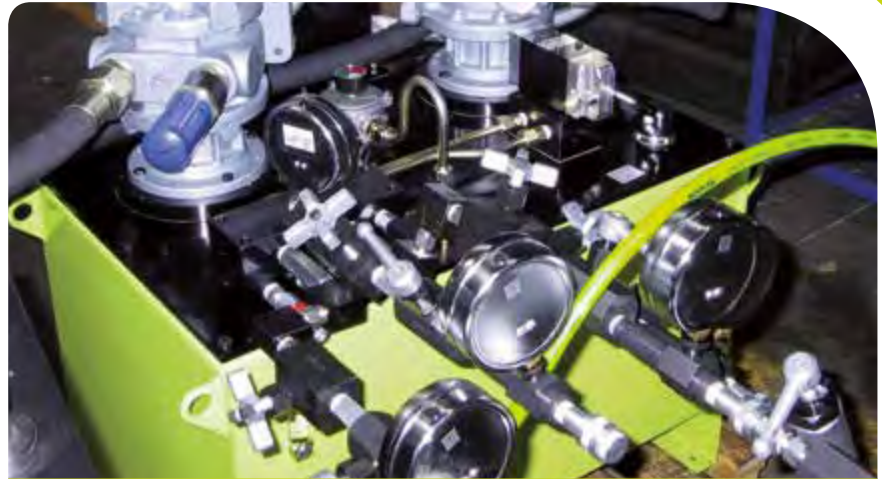
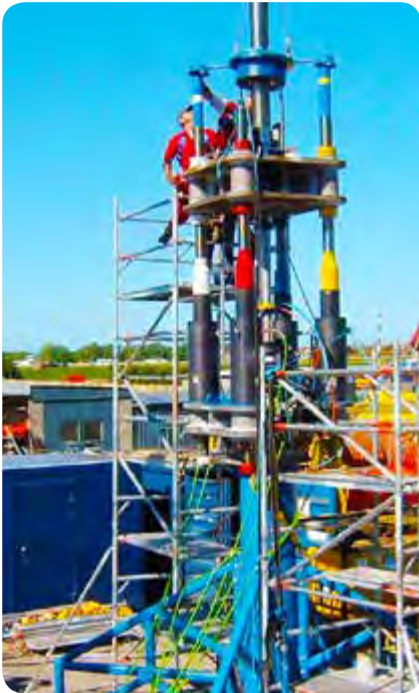


CUSTOM MADE SOLUTIONS

Larzep designs and manufactures special cylinders and fixing systems, on customer request.

Do you have a special project and in need of a custom made hydraulic solution? Please contact our Internal Sales Department for further information.

APPLICATIONS



OIL RIG RETRIEVAL

A hanger retrieval system developed with LARZEP products, for a major Oil & Gas operator in the North Sea.

The system consists of 4 Double acting 215 ton Hollow Bore Cylinders with 460 mm stroke, completely black nitrided to avoid rust in the North Sea environment and 2 pneumatic powered hydraulic pumps with safety double circuit each.



LIFTING SYSTEM FOR MAINTENANCE

Larzep supplied seven 500 Tn lifting cylinders for the tub lift-and-split, twenty two 100 Tn cylinders along with an electric power pack incorporating valving controlled electronically via a PLC, all controlled by a laptop to work on the 6400 Tn Marion dragline.

The job was to remove the Marion 8750 Series B's tub, which weights 942 Tn for maintenance. This is understood to be a world-first for the mining industry. Two jacking frames, each with 1.000 Tn working load limit, were used for this procedure. Each jacking frame housed two 500 Tn Larzep cylinders.

Larzep lifting system contribute to successful maintenance lift on massive Queensland Dragline.



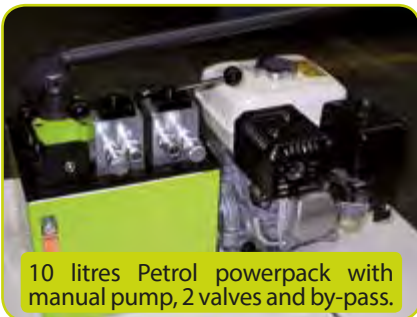
Hydraulic powerpack, 600 litre capacity with 3 different pumps to work at different pressures and flows.



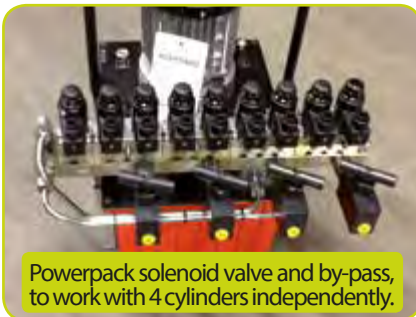
Hydraulic powerpack, 600 litre capacity, with 4 pumps and 4 exits each. Each pump is connected to the 4 solenoid valves.



50 litres powerpacks with roll bar, wheels and heat exchanger.



10 litres Petrol powerpack with manual pump, 2 valves and by-pass.



Powerpack solenoid valve and by-pass, to work with 4 cylinders independently.



Petrol powerpacks for re-railing applications.

SPECIAL PRODUCTS



Double acting cylinder with special saddle.



1.100 Tn single acting cylinder. With lock nut and base plate.



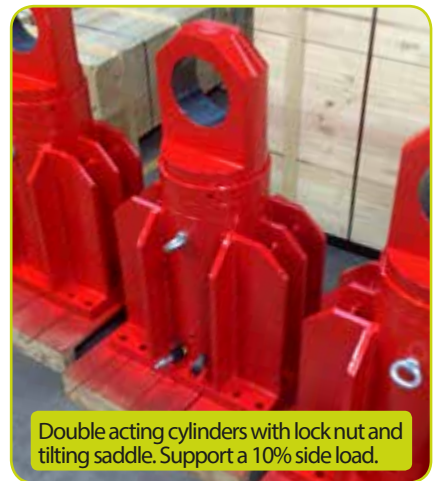
D/A cylinders with integrated AZ5700 pilot operated check valve.



Double acting cylinder with motorized lock nut and gear wheel.



1.000 Tn single acting cylinder with lock nut and tilting saddle. Supports a 12% side load.



Double acting cylinders with lock nut and tilting saddle. Support a 10% side load.



500 Tn double acting cylinder with 1.250 mm stroke.

 Larzep designs and manufactures special cylinders and fixing systems. For further information, please contact our Internal Sales department.



STEP BY STEP LIFTING
 Double acting cylinders
 Available in steel or aluminium
 Capacity: from 50 to 400 Tn
 Stroke: 155 mm
 Different plate dimensions
 Optional tilting saddle



Double acting cylinders with tilting saddle and ceramic coating.