

SYNCHROLIFT

SYNCHRONOUS LIFTING SYSTEM

FEATURES

Synchrolift is the most sophisticated method for the lifting and lowering of any kind of load in a perfectly synchronised way and with the highest degree of precision.

This system splits the oil flow coming out from a hydraulic power pack and directs it towards different lifting points; it controls and monitors the different flows thanks to a range of electric valves controlled by a PLC system. The PLC system controls the flow in the direction of a number of cylinders, checking the signals issued by dynamic transducers and activating appropriately the monitoring valves.

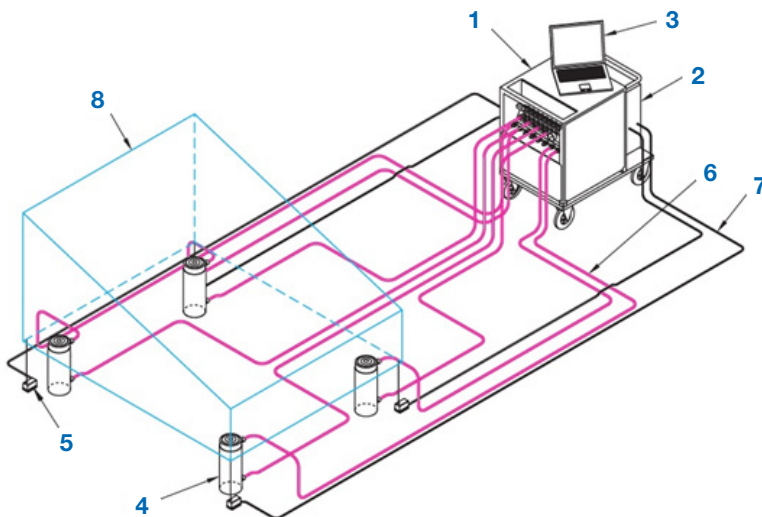
This electric system enables the regulation of the movement of the cylinders stopping and/or slowing down those that exceed the difference in allowed movement as chosen by the client.

A PC or a touchscreen display provides for its control system.

Synchrolift is easy to control, multipurpose and extremely accurate, it can handle simultaneously many lifting points, even with different capacity cylinders.

OPERATIONAL AREAS

Our Synchrolift system is necessary every time hydraulic cylinders with different loads are required to lift and lower the same rate (e.g. lifting a 3000 t bridge with 1 mm precision, or squaring a building damaged by seismic activity are only two of the many applications of a synchronised lifting system).



- ❶ Hydraulic power pack
- ❷ Electronic control base
- ❸ Laptop PC or touchscreen display
- ❹ Hydraulic cylinders
- ❺ Stroke transducers
- ❻ High pressure hoses
- ❼ Electric connection cables
- ❽ Structure to be lifted



Our Technical Department is at your disposal to study the best technical and operational solution, and deliver tailored requirements on demand.

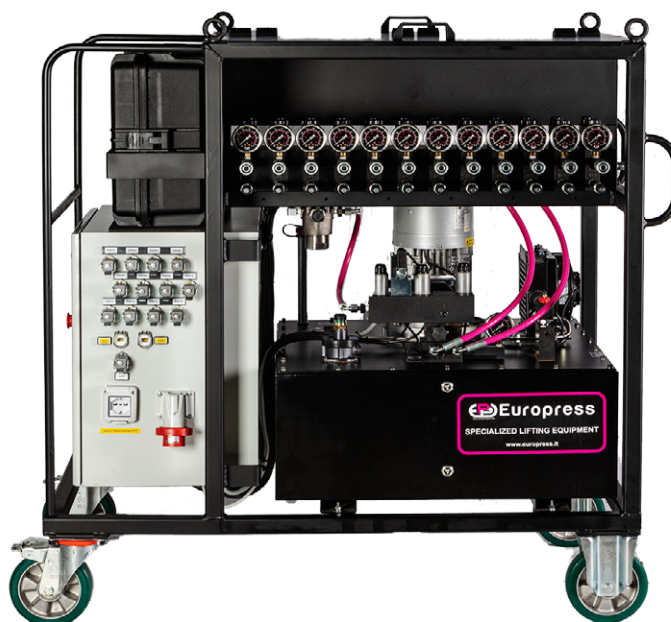
● LIFTING POINTS	4 - 32
● FORCE FOR EACH POINT	50 - 1000 t
● MAX PRESSURE	700 bar
● MAX PRECISION	1 mm

SYNCHROLIFT

SYNCHRONOUS LIFTING SYSTEM

THE SYNCHROLIFT IS COMPOSED BY

COMANDING SYSTEM		
SYNCHRO ## points	ESY##V	Electronic control base (## points) with dedicated PLC control which allows to monitor and to control each lifting point and displays and registers all data + ## stroke transducers + control valves.
	ESY##VC	Electronic control base (## points) with dedicated PLC control which allows to monitor and to control each lifting point and displays and registers all data + ## stroke transducers + control valves + carriage + transport and protection crankcase.
HYDRAULIC COMPONENTS		
Power source		Customized hydraulic power pack.
Cylinders		A wide range of standard or customized hydraulic cylinders.
Connections		Hoses, fittings and quick couplers according to your needs.



##: number of lifting points (from 4 up to a maximum of 32 - bigger expansion can be con-sidered on request).

EPP SYSTEMS FOR SPECIAL APPLICATIONS