

SYNCHROLIFT



SYNCHRONOUS LIFTING SYSTEM



Synchronized lifting with Synchronlift for the rebuilding of house foundations. (Germany 2003)

FEATURES

Synchronlift (Synchronous Lifting System) is the most sophisticated method to lift up and lower down 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.

The PLC 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 provides for its control system.

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

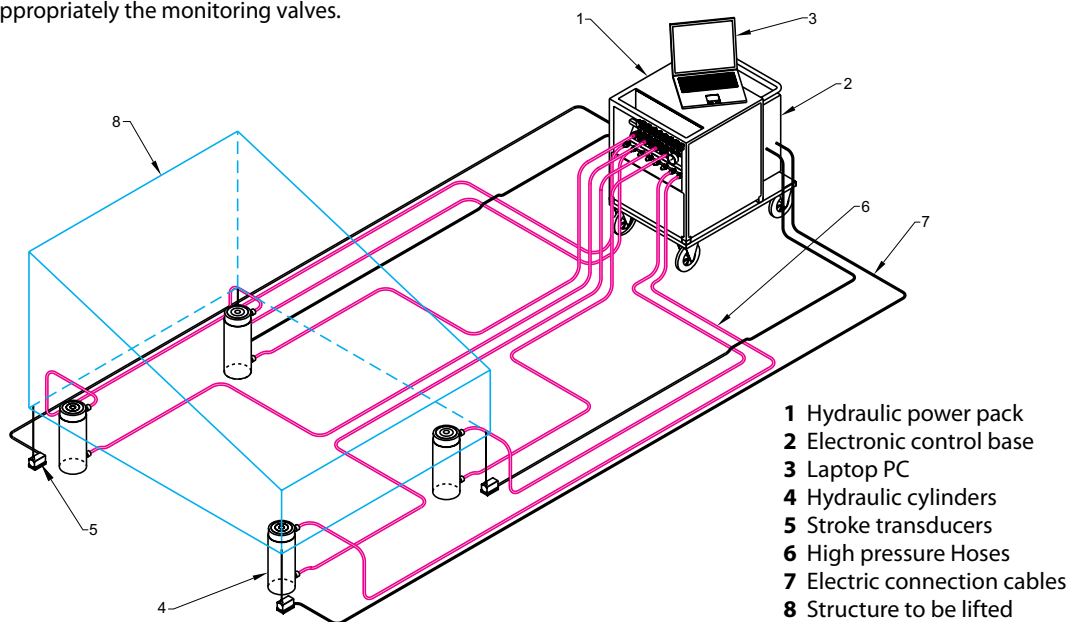
The programme can also deal both with linear and planar non-parallel lifting operations, counteracting with pinpoint precision structural failure (e.g. a bridge pier, one end of which has yielded).

APPLICATIONS

Our Synchronlift system is necessary every time hydraulic cylinders with different loads are required to lift up and lower down at 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)



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



SYNCHRONOUS LIFTING SYSTEM



- Lifting points _____ **4-48**
- Force for each point _____ **100-1000 t**
- Max Pressure _____ **700 bar**
- Max Precision _____ **0,1 mm**

SYNCHROLIFT IS MADE OF

Control system	
SYNCHRO 4 points	electronic control base (4 points) with dedicated PLC + note book with included software (Windows area) to display and control operations and to book data + 4 linear stroke transducers (1 for each lifting point) + group of control valves
SYNCHRO 8 points	electronic control base (8 points) with dedicated PLC + note book with included software (Windows area) to display and control operations and to book data + 8 linear stroke transducers (1 for each lifting point) + group of control valves
Hydraulic Components	
Activation	customised hydraulic power pack
Cylinders	standard hydraulic cylinders and/or as chosen by client
Connections	hoses, fittings and couplers according to your needs

