ENERGY SAVING

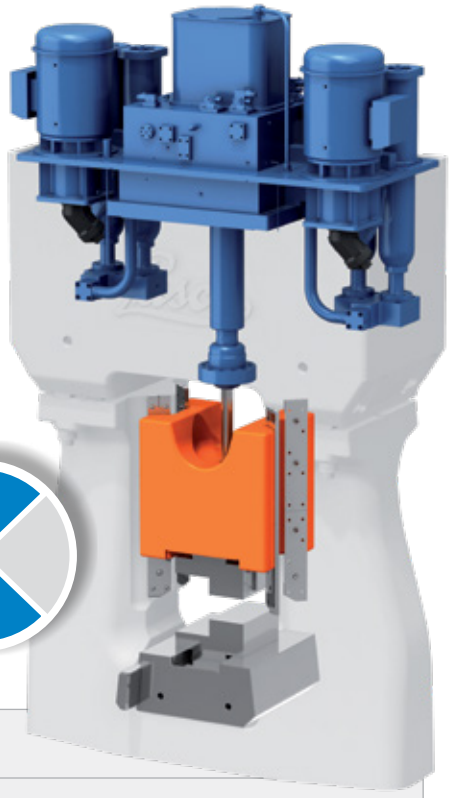
Cost reduction and climate protection

ENERGY-EFFICIENT PRODUCTION

Hydraulic instead of pneumatic drive

Compressed air is expensive! This is an important fact when comparing the costs of different solutions for the investment in a new forging hammer. The seemingly cheap pneumatic hammers are soon revealed to be money-burners when all operating costs are taken into account.
In the end, the hydraulic drive is much more economical.

The higher investment costs of a hydraulic hammer are amortized within a short time and several times over the course of the machine's operational life. This is mainly due to the far lower energy consumption of the hydraulic system. Measured in terms of power consumption, four modern hydraulic forging units can be „brought up to speed" with the same energy that is needed to operate a pneumatic hammer. Our graphic compares the different systems with characteristic performance data in an idealised comparative calculation:



PNEUMATIC HAMMER vs. HYDRAULIC HAMMER:

Working capacity	31.5 kJ 31.5 kJ
Blow frequency per minute	40* 40*
Installed motor capacity	233 kW** 55 kW**
Electrical energy cost	11.65 Ct/kWh 11.65 Ct/kWh **Source of energy costs:** EUROFORGE, Brussels European (weighted) average value
Cost per hour	27.14 € 6.41 €
Ratio of energy consumption for the same working capacity	4,2 1
Cost per year assuming three-shift operation (6,000 hours)	162,867 € 38,445 €

* The theoretically possible number of parts is significantly higher.
** Taking into account the compressor efficiency and the often considerable losses due to leakage.

CONSIDERABLE ADVANTAGE:

In three-shift operation, the hydraulic hammer saves operating costs amounting to **124,442 €** per year. Higher operating costs - due to maintenance and repair of the compressor system of a pneumatic hammer - are also eliminated.

SAVING ENERGY = SAVING MONEY!

Get your drive technology up to date

RETROFIT - the fast way to economical forging

You are already working with pneumatic hammers and looking for a particularly economical way to the superior drive technology from LASCO?
Have your hammer retrofitted by our service specialists! This ensures you all the advantages of hydraulic double-acting drives at low cost.

Additional advantages:

- No system-related remachining of anvil block and uprights is required.
- The existing hammer frame is equipped with a ram locking device according to the EC Machinery Directive.
- The retrofit on site only takes a couple of days.

You can also profit from all these advantages if you want to change over from another drive system to a hydraulic double-acting drive.

Just call for our offer.
Our experts will be pleased to advise you!

Sustainability & climate protection:

Saving energy = protecting the environment

LASCO machines can be recycled at 100 %!

LASCO is a member of the industry initiative „Nocarbforging 2050" of the Industrial Association for Massive Forming (IMU) with the goal of CO2 emission-neutral massive forming technology by 2050 at the latest.

At a glance:

Hydraulic double acting drives in combination with LASCO control solutions have many advantages over air-driven systems:

- Energy savings of more than 76%
- Short pressure dwell time resulting in significantly higher final force and longer tool life
- Scalable blow frequencies up to 95 strokes/min
- Precise energy dosing and exact repeatability in the entire power range
- Shorter cell cycle time
- No compressor station
- Long-lasting piston rod due to mass-reduced and flexible design
- Optional hydraulic ejector in the anvil insert
- Decentralised process control of hammer and peripherals, product-related settings, evaluation and monitoring of all machine parameters
- Operating data acquisition
- Product and individual part tracking
- Integration in MRP
- Integrated maintenance programme
- Integrated data logger
- Individually programmed screen menus in graphics and language

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