

New Block Cylinder Range from Roemheld

Suitable for operating pressures up to 500 bar and temperatures to 200°C (optionally 250°C), a new range of compact hydraulic cylinders with block-type body and high load capacity has been introduced by Roemheld for use in punching and forming applications.

The new Block Cylinder S (strong) is a further development of the manufacturer's proven cylinder range. Hydraulically double-acting, it is ideal for linear movements with demanding force requirements, as it is able to withstand high loads, including side loads which are absorbed by piston and rod guide rings. These also prevent direct metal contact between piston and cylinder housing, minimising mechanical wear.

Applications are typically to be found in pressworking, notably on punching, trimming, bending and stamping machines, as well as in joining and insertion equipment, and for mould slide actuation and core pulling. Inductive stroke-end controls are optionally provided for position monitoring.

Five piston diameters from 32 to 80 mm and four stroke lengths from 25 to 100 mm are available. If required, the stroke can be shortened by from 5 mm to 29 mm by means of a shrink fit bushing. Piston variants with an internal or external thread can be supplied.

Five sealing systems are available depending on the application conditions. By combining different materials, the sealing can be optimally adapted to the operating pressure, temperature and hydraulic fluid. It ensures that the piston moves consistently and smoothly even at low speeds, without stick-slip.

To meet high mechanical and thermal requirements, the threaded bushing, cylinder housing and internal piston stops have been reinforced. The rod seals minimise leakage to ensure clean operation and a newly designed wiper prevents ingress of coarse dirt or swarf.

The unit can be mounted in a variety of ways and there are numerous options for connecting the hydraulics. Selection of the appropriate model is facilitated by a series of diagrams showing load limits for all operating conditions. The admissible side load for the piston stroke, the permitted piston speed in relation to the mass and the appropriate seal combinations for the application are stipulated.

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Two photographs attached:

1. Roemheld's Block Cylinder S is available in five sizes with piston diameters from 32 mm to 80 mm, in four stroke lengths from 25 mm to 100 mm and with five different sealing systems.
2. Cut-away view of a Roemheld Block Cylinder S.

PRESS INFORMATION



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