

SiMag Single-channel loading magazine

for bar stock diameter from 5 – 130 mm . Universal for medium and large lot production
Sizes to 42, 70, 130 mm diameter

High flexibility thanks to modern single-channel switching technology

Thanks to the quick-lock clip fasteners, the feed channel of the SiMag loading magazine can be quickly and easily changed over for optimum adaptation to the bar stock to be handled. The feed channel segments are made of aluminium shells with precision cast inserts of a special plastic. When assembled, the upper and lower section form a closed, wear-resistant and vibration-damped feed channel. The standard increment of the inside diameter is 5 mm.

High-speed changing of the bar stock in approx. 12 seconds

For bar loading, the upper channel segments are opened pneumatically. On the standard version, end piece ejection is to the front. With this function, the next bar can be automatically placed into the feed channel even while the last work-piece is still being machined.



SiMag – High machine performance

and optimum turning quality thanks to hydrodynamic bar guiding

The plastic lining of the feed channels and the continuous oil flow through the channel segments offers optimum smooth running and relief for the machine spindle. For precision turning, Breuning always recommends the use of the closest possible fitting feed channel. In addition to the change channels, a centering steady rest with exact fitting centering jaws can be employed for seldom used intermediate sizes.

The ideal loading magazine for trouble-free processing of profile material

A pneumatic stopper allows quick 'threading' of a bar profile into a turn-inhibited collet chuck. Together with the appropriate feed channel, bar profiles can also be processed precisely, trouble-free and highly productively.

Types

Standard

Positioning against lathe limit stop.
End piece ejection to the front.

R

Positioning against lathe limit stop.
End piece ejection to the rear.

PR

Positioning without limit stop,
End piece ejection to the rear.

Note:

The positioning accuracy specified is attained without problem in lathes and loading systems if suitable materials and components are used.

Technical data:

Main drive:
Variable-frequency servomotor with torque and speed control

Controller:
PLC with plain text display in the portable manual control box

Change channels:
Diameter increment 5 mm, intermediate dimensions in mm increments (can be manufactured at no additional charge).
Every change channel comes with a matching pusher.

Manufacturer's advice

As a manufacturer of high quality material feed systems, Breuning has been specialising exclusively in this field for decades. The comprehensive standard product range offers everything needed for cost-effective turning - from the simple pusher right through to the latest fully automated systems. If you would like further information on individual products, please call us or fax us.

| Type | End piece ejection | | Positioning | | Loading area | | Outside dimensions | | Axial slide | Swing-out |
|---------|--------------------|-------------|-----------------|--------------------|--------------|-------|--------------------|-------|-------------|-----------|
| | to the front | to the rear | with limit stop | without limit stop | Length | Width | Length | Width | | |
| 42.1 | • | | • | | 3250 | 365 | 4200 | 670 | | • |
| 42.1 R | | • | • | | 3250 | 365 | 4200 | 670 | | • |
| 42.1 PR | | • | | • | 3250 | 365 | 4200 | 670 | | • |
| 70.1 | • | | • | | 3250 | 500 | 3900 | 900 | • | |
| 70.1 R | | • | • | | 3250 | 500 | 4410 | 1000 | • | |
| 70.1 PR | | • | | • | 3250 | 500 | 4410 | 1000 | • | |
| 100.1 | • | | • | | 3250 | 650 | 4200 | 1300 | • | |
| 130.1 | • | | • | | 3250 | 650 | 4200 | 1300 | • | |

All dimensions specified in approximate millimetres. Subject to change without notice

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