

SiMag 42.1

Single-channel loading magazine

with quick-change channels for bar stock diameters from 5 - 42 mm and lengths of 3, 4 and 6 m.
Flexible loading technology for medium and large lot production

Loading of the bar stock in approx. 12 seconds

The upper channel segments are opened pneumatically for bar loading. When the end piece is ejected to the front, the next bar can be

loaded while the last workpiece is still being machined. When the end piece is ejected to the back, approx. 25 seconds are needed.

Easily accessible steady rest for safe feeding of bar stock and pusher (Photo montage)



End piece ejection. The clamp releases the end piece from the clamping sleeve of the pusher

Open segment of the feed channel. View of the quick-change clip fastener, pusher, material in closed feed channel, material table



Feed channel segments (quick-change channels) for round and profiled bar stock. Lined with vibration-damping, highly wear-resistant synthetic material.



SiMag 42.1 – Raises machine performance and improves turning quality thanks to hydrodynamic bar guiding

Oil flows through the feed channels continuously, thereby keeping movement noise to an absolute minimum and relieving stress on the machine spindle. For precision turning tasks, BREUNING recommends use of the closest-fitting feed channel possible.

A pneumatic stopper allows quick threading of a bar profile into a turn-inhibited collet chuck. Bar profiles can therefore be processed precisely, trouble-free and highly productively.

Technical data:

Main drive:
Frequency-controlled servomotor with torque and speed control

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

Change channels:
Available in fine increments with matching pusher

Other types:

SiMag 70.1
SiMag 100.1
SiMag 130.1

Type	End piece ejection		Positioning		Loading area			External dimensions			Axial slide		
	to the front	to the back	with limit stop	without limit stop	Length 3 m	4m	6m	Width	Length 3 m	4 m		6 m	Width
42.1	•		•		3250	4250	6250	365	4200	5200	7200	670	•
42.1 R		•	•		3250	4250	6250	365	4200	5200	7200	670	•
42.1 PR		•		•	3250	4250	6250	365	4200	5200	7200	670	•

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

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

Controller functions

- Automatic end piece detection
The magazine automatically detects the end of the bar. No adjustments by the operator are necessary.
- Monitoring of the feed paths
- Freely selectable feed speed up to 30 m/min.
Return up to 70 m/min
- Display of the respective current bar length and number of work-pieces still possible
- Diagnostic system
- End piece optimisation only in PR

Manufacturer's advice

BREUNING has specialised exclusively in the manufacturing of high-quality material feed systems for decades.

The comprehensive standard product range offers everything needed for cost-effective turning – from simple pusher right through to the latest fully automated systems.

If you would like further information on individual products, please call or fax us.

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Linear movement for good accessibility when changing the spindle