

FMB

M a c h i n e r y



MT 42

MT 65

MT 100

The MT 42, MT 65 and MT 100 are automatic Stock Reel Loaders for processing bars in the diameter range of 5 - 100 mm and in lengths up to 3200 or 4200 mm on multi-spindle lathes. The MT line is a wise investment to increase productivity on your 5, 6 or 8 spindle lathes currently utilizing stock reels. With single and multi-layer rack versions that feature linear storage capacities of 450 mm to 1700 mm, and a bundle configuration holding 2.5 tons, individual bar handling is greatly reduced or eliminated.

The MT Line of stock reel loaders are designed to be your best bet to add to your bottom line, quickly, easily and affordably.



MT 42, 65 & 100

FMB
M a c h i n e r y

The MT 42, MT 65 and MT 100 are automatic Stock Reel Loaders for processing bars in the diameter range of 5-100 mm and in lengths up to 3200 or 4200 mm on multi-spindle lathes.



- **Settings**

All operation parameters can be entered into the control panel. Positioning of limit switches is not necessary.

- **Free Of Noise And Vibration**

While the bar is rotating there is no contact between the bar stock and the bar feeder. Whether the bar is round, square or hexagonal there is no interference.

- **Insertion Forces**

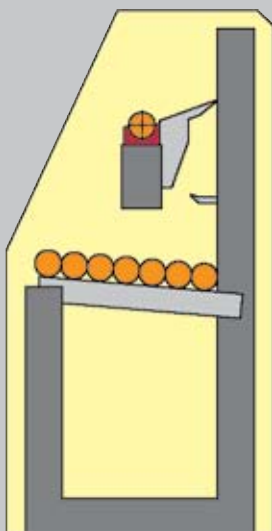
The insertion force is variable via the control panel. This high bar feeding force is possible as a result of the rigid anti-torsion frame design and high-torque feed motor/gear box. This high-torque feed motor easily overcomes feed finger resistance during the loading stage, so there is no longer any need to hammer bars into position. Accurate, reliable bar load positioning is made possible by the use of an encoder.

- **Modular Concept**

The modular concept allows three versions of bar storage system:

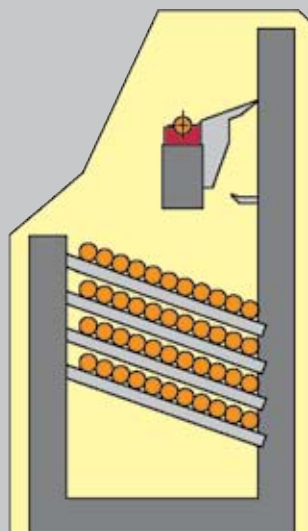
- Inclined table (version 1)
- Multi-table (version 2)
- Bundle loader (version 3)

The versions of MT Stock Reel Loaders



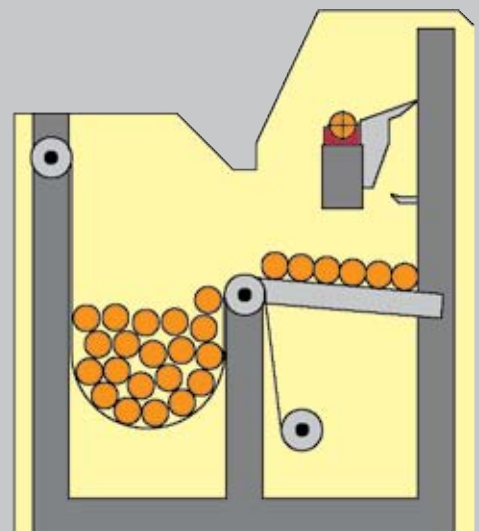
Version 1

Bar support for bar diameters up to 65 mm.



Version 2

Multi layer bar support for bar diameters up to 42 mm.



Version 3

Bundle loader for bar diameters up to 65 mm. Loading capacity 2.5 tons.

- **Bar Storage System (version 1)**

A minimum of floor space is needed due to the compact design and construction. A low cost solution for automatically loading multi-spindle lathes utilizing stock reels.

- **Multi Layer Rack System (version 2)**

Higher loading capacity is achieved with four storage layers, saving bar storage space and adding running time by a factor of four.



- **Bundle Loader (version 3)**

The bundle loader offers high capacity and easy loading. By processing a 2.5 ton bundle of stock, bar handling is eliminated and production running time is greatly increased.

- **Bar Pusher**

A swing-out double pusher space-saving design reduces the total length of the bar feeder, saving valuable production floor space.



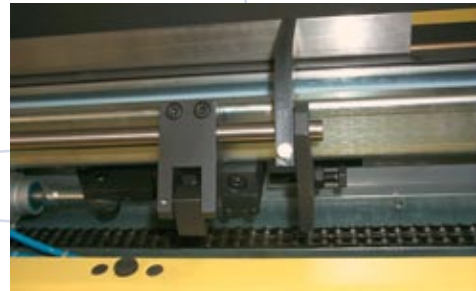
- **Bar $\varnothing < 10$ mm**

Small bar diameters can be separated without problems because of the swing-out bar stop design. (MT 42).



- **Hold Down Device**

The hold down device fitted to the FMB MT 42 allows high insertion forces into the lathe feed fingers and prevents distortion of small diameter bars.



- **Control panel**

Extensive options guarantee the interaction between the bar feeder and the automatic lathe. Parameters are shown on the clear text display. Positioning of limit switches is no longer necessary.

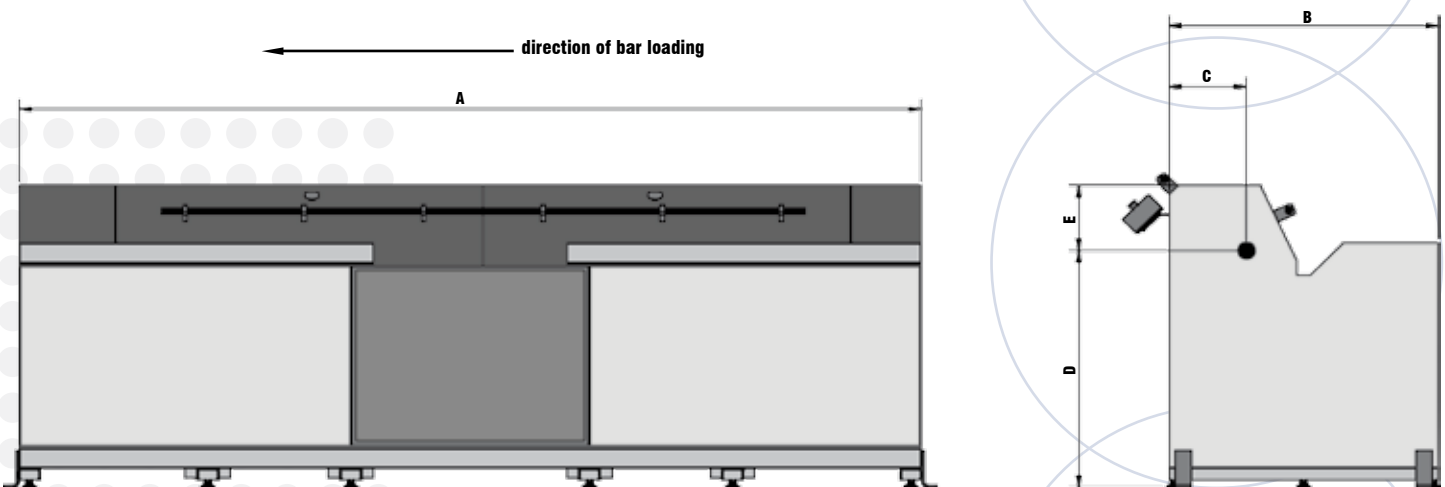


MT 42, 65 & 100

Technical Data

	MT 42	MT 65	MT 100
Bar diameters	5 - 42 mm	10 - 65 mm	40 - 100 mm
Max. bar length	3200 or 4200 mm	3200 or 4200 mm	3200 or 4200 mm
Channel sizes	10, 15, 20, 25, 32, 36 and 42 mm	10, 15, 20, 25, 32, 36, 42, 50, 55, 60 and 65 mm	42, 50, 55, 60, 65, 70, 75, 80, 90 and 100 mm
Power consumption	2,5 KW	3 KW	3,75 KW
Loading capacity - version 1	bar storage in length of 450 mm	bar storage in length of 450 mm	bar storage in length of 1700 mm
Loading capacity - version 2	multi layer bar support in length of 4 x 450 mm		
Loading capacity - version 3		bundle loader with loading capacity of 2,5 to.	
Feed force	500 N (3000 N)*	600 N (10000 N)*	800 N (10000 N)*
Feed rate	1200 ^{mm} / _s (150 ^{mm} / _s)*	1200 ^{mm} / _s (85 ^{mm} / _s)*	1200 ^{mm} / _s (70 ^{mm} / _s)*
Loading time (for bars of 3200 mm)	11 s	13 s	20 s
Operating voltage	400 V / 50 Hz	400 V / 50 Hz	400 V / 50 Hz
Control voltage	24 V DC	24 V DC	24 V DC
Compressed air supply	0,6 MPA (=6 bar)	0,6 MPA (=6 bar)	0,6 MPA (=6 bar)
Compressed air consumption	approx. 1 litres per loading action	approx. 1 litres per loading action	approx. 10 litres per loading action
Weight	bar length 3200 - 900 kg bar length 4200 - 1100 kg	bar length 3200 - 1600 kg bar length 4200 - 1800 kg	bar length 4200 - 6000 kg
Size A	bar length 3200 - 3780 mm bar length 4200 - 4780 mm	bar length 3200 - 3780 mm bar length 4200 - 4780 mm	bar length 4200 - 5240 mm
Size B	version 1 - 660 mm version 2 - 750 mm	version 1 - 660 mm version 3 - 1130 mm	version 1 - 2000 mm
Size C	274 mm	325 mm	600 mm
Size D	1030 - 1350 mm	1030 - 1350 mm	1250 - 1470 mm
Size E	258 mm	285 mm	534 mm

(*) value by pressing the bar into the feed collet



As per 1/1/2006 - Technical data subject to change without notice

EDGE TECHNOLOGIES ○ A DIVISION OF HYDROMAT, INC.

11600 ADIE ROAD MARYLAND HEIGHTS, MO 63043

314.692.8388 ○ f 314.692.5152 ○ www.edgetechnologies.com