

NFME

Latest electronically controlled needle weaving loom with innovative, highly versatile shedding motion technology

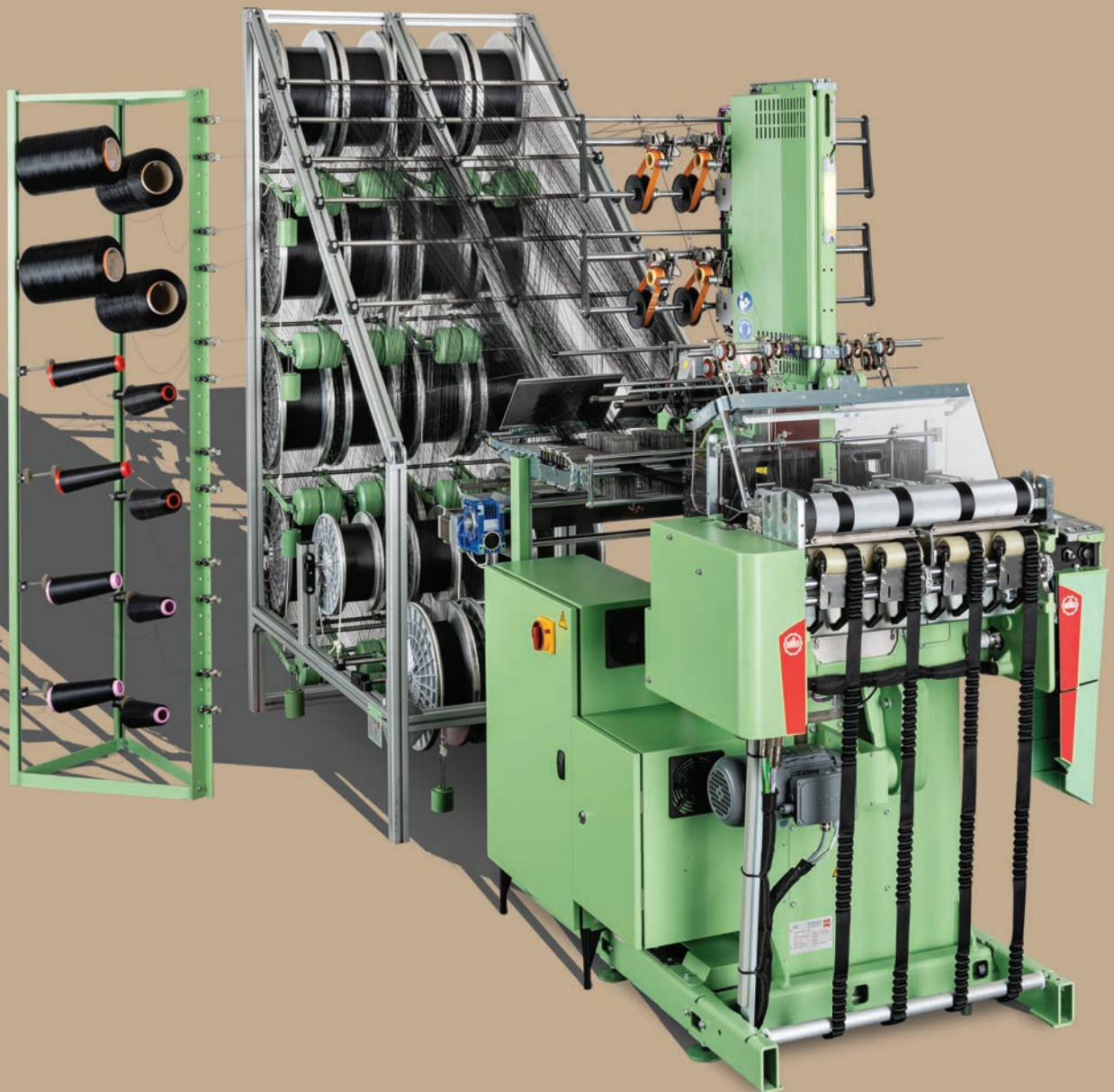
for light, medium and heavy weight elastic and non-elastic woven narrow fabrics with unlimited repeat lengths



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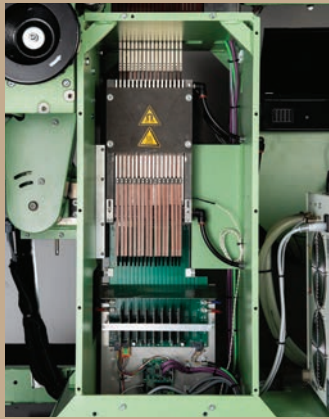
NFME



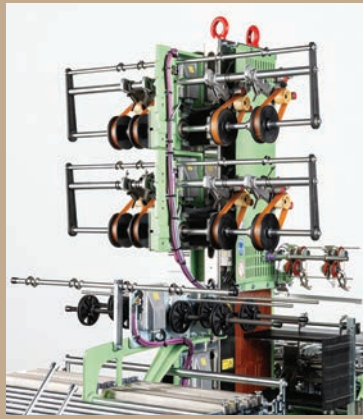
NFME 53

Latest electronically controlled needle weaving loom with innovative, highly versatile shedding motion technology

NFME is the latest generation of narrow fabric needle looms. This innovative machine series is equipped with electronic control for all major drives and thread feeding systems as well as with an electronically controlled dobby. The NFME is synonymous with outstanding state-of-the-art technology, efficiency, cost-effectiveness and operational safety.



Oil free dobby device.



Electronically controlled weft and catch thread feeding.



MÜDATA® on the machine (standard).



Features

- Modular design – easy to use with regard to modifications such as enlargements, extensions as well as conversions.
- Electronically controlled drives for all major devices: take-off, weft and catch thread, rubber feeding as well as speed setting.
- Electronic shedding motion with individual setting of shed geometry for each heald frame.
- Powerful main drive and take-off motor (max. 6000N) for articles in the heavy range.
- Network ready MLC control system includes the MÜDATA® M series.
- Weft selection device (optional) with up to 4 weft colours with flexible programming.



Advantages

- Unlimited pattern repeat length combined with a freely programmable shed movement on each heald frame (high-low as well as high-middle-low) for a wide range of designs
- Optimal tension control through electronically controlled thread feeding devices for the processing of virtually all yarn types.
- Low maintenance requirements due to oil free dobby system.
- Machine user interface with integrated pattern editor for the creation and correction of patterns.
- Machine designed to adapt to evolving design demands, ensuring investment remains valuable for years to come.



Applications

- Elastic and non-elastic tapes and light webbings for all kind of technical applications, such as garment accessories (underwear and lingerie, bra straps, edging tapes), spacer fabrics, medium to heavy duty curtain tapes.
- Elastic and non-elastic heavy belts for technical application such as accordion belts, shock absorber webbings, luggage belts, lashing straps, etc.



Benefits

- Up to 100% higher utilisation of the heald frame package (all heald frames programmable for 2 as well as 3 position movement) for a wider design range compared to the previous dobby system (NFRE).
- High productivity due to 20% speed increase compared to the previous machine generation (NFRE).
- Fast and precise, reproducible settings of the machine parameters through electronically controlled drive systems (weft and auxiliary thread feed, weft density and take-off).
- Faster change-over to different weaving systems through combi curve for catch thread drive – abt. 50% time savings compared to conventional needle looms.

Technical Specifications

Base model	NFME 53								
Weaving head version	18	27	27	27	42	66	66	84	130
Number of weaving heads	10	4	6	8	6	2	4	2	2
Weaving systems	S1, S2, S3, S5, Z4, Z5 and many more								
Weft insertion from	→	→	→	→	→	→	→	→	→
Weft density range	4-120 picks / cm								
Heald frame number	12 or 16								
Repeat lengths	unlimited with electronic shedding motion								
Space requirement in mm	L x W x H = 1494 x 1005 x 1942 (without rubber transport, without warp rack)								

Special devices, accessories and additional weaving systems i.e. for curtain tapes, safety belts and many other applications can be also equipped on the NFME.

Special devices and accessories

- Weft needle with hard metal rings for a longer service life
- Special parts for heavier fabrics/articles incl. reinforced fabric take-off
- Rubber tensioning device
- Positive rubber transport
- Various designs of fabric conveyor and ribbon winding devices
- Thermofixation Mütherm
- Brake rollers for weaving from crones, mechanically and electronically (EBRT)
- Electronically controlled warp beam drive (EKAST)
- Weft selection device with up to 4 weft colours with flexible programming

Weaving systems

- Z5/S5, Z6, Z7 (incl. Z72B/K-Z74B/K), Z9 (Z92B/K-Z94B/K), Z10, 3N (3 weft needles)



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