

# MDW<sup>®</sup>

## Multi Directional Weaving

The MDW<sup>®</sup> functional and effect thread placing device for NFM<sup>®</sup> narrow fabric looms and MÜGRIP<sup>®</sup> MBJ8 label weaving machines



# MDW® MULTI DIRECTIONAL WEAVING

THE MDW® FUNCTIONAL AND EFFECT THREAD PLACING DEVICE FOR NFM® NARROW FABRIC LOOMS AND MÜGRIP® MBJ8 LABEL WEAVING MACHINES

## ▲ THE LATEST JAKOB MÜLLER COMPANY INNOVATION

MDW® technology represents an interesting and innovative supplement to conventional weaving techniques. Traditional weaving combined with a new and highly flexible weft laying device offer the possibility in a single process to produce multi-axial products and another wide range of applications.

## ▲ THE MDW® PROCESS

Using the MDW® module, single effect threads or complete effect thread groups are introduced into the lower shed with the result that in addition to the warp thread shed, a shed comprised of effect threads is also created. The effect threads are then bound into the fabric by the movement of the insertion elements (weft needle / rapier). The individual effect threads are placed by guide needles anchored onto a maximum of four guide bars, which extend across the complete width of the machine and swing backwards and forwards in synchronisation with the reed. The complete movement sequence and the positioning of the effect threads are controlled electronically.

## ▲ MÜCAD MDW® AND MYMUENET®: CREATE SAMPLES AND UPLOAD ARTICLES

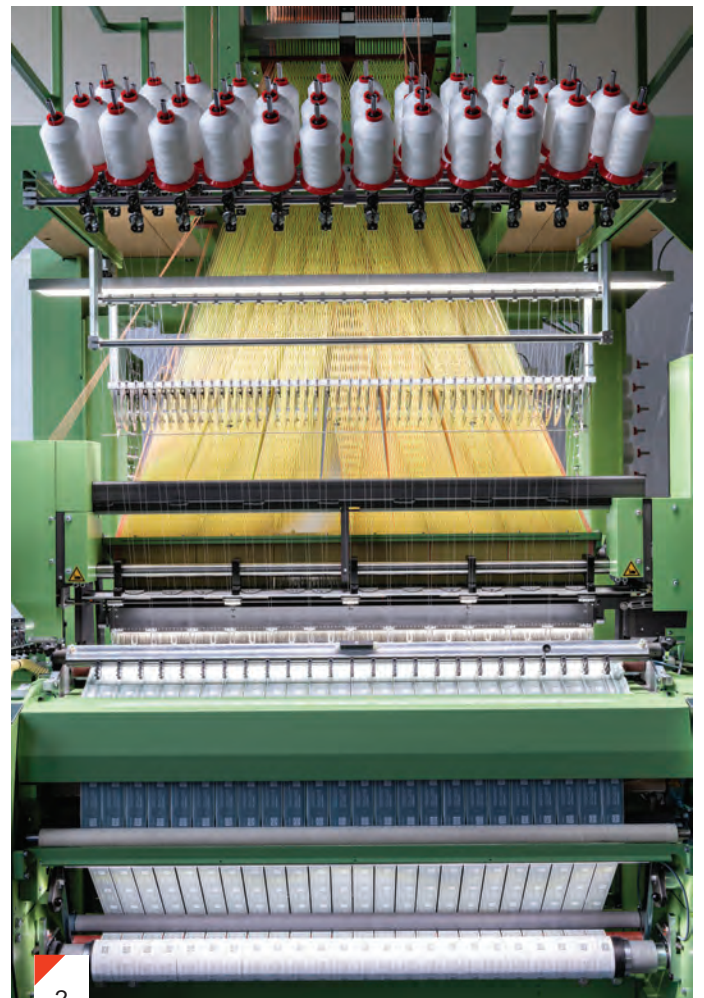
User-friendly programming for warp and weft patterns is provided by the MÜCAD patterning software with the MÜCAD MDW® package for effect thread insertion. mymuenet® for digitising the weaving production hall with direct access to the machine control system to optimise production efficiency. Easy creation of articles that must be loaded directly onto the machine via mymuenet®.

## ▲ VELVEDGE®

Worldwide best slitting quality for smoothest edges. Skin friendly soft edge for the best possible customer feeling. The new VELVEDGE® cut replaces the current hot wire, ultrasonic and laser cut systems. Also ideally suited for brand labels in the sportswear industry.

## ▲ POSSIBLE APPLICATIONS

- Functional textiles (fibre-reinforced insert weaves, spacer fabrics, curtain tapes, wearables)
- Smart textiles (textile bus systems, luminous textiles, heating/cooling textiles, conductive textiles as battery systems, measurement textiles, RFID, sensor technologies as pressure, motion, force)
- Fashion textiles (decorative tapes/ribbons, gift tapes, lanyards, wristbands)



MDW® technology also represents the ideal solution for many other textile applications!

#### ▲ TARGET INDUSTRIES

- Automotive
- Medical / Orthopaedic
- Garment / Fashion
- Home Textile

#### ▲ PATENT PROTECTION

Various machines and application patents protect our latest innovation against plagiarists.

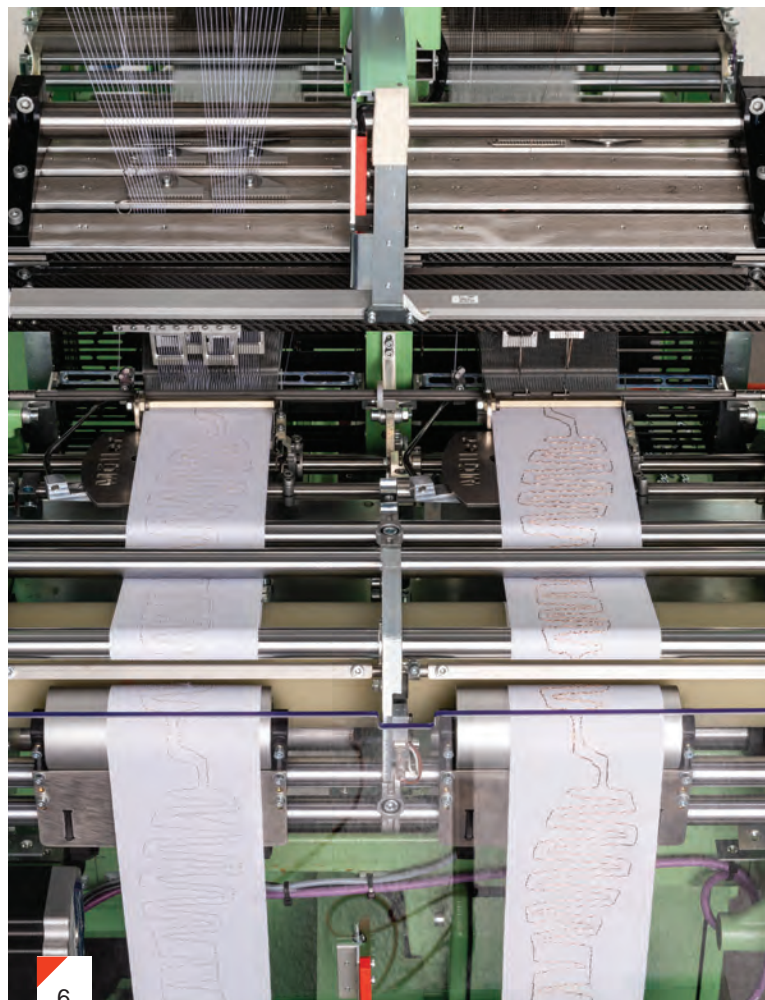
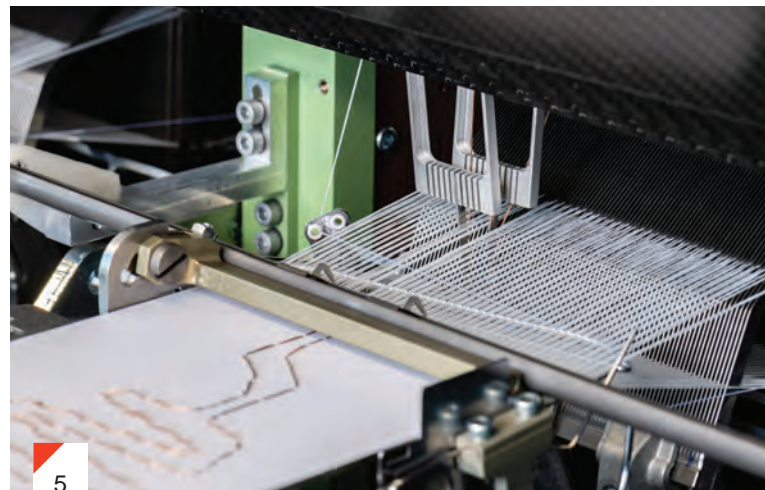
#### ▲ PICTURES

##### Label weaving systems

- 1 MÜGRIP® MBJ8 MDW®
- 2 MÜGRIP® MBJ8 MDW® front view
- 7-8 MÜGRIP® MBJ8 MDW® weaving area

##### Narrow fabric weaving systems

- 3 NFM® MDW®
- 4 3D heating fabric with and without skin
- 5 Wire laying on a heating fabric
- 6 NFM® MDW® weaving area



# TECHNICAL SPECIFICATION

## ▲ NARROW FABRIC WEAVING SYSTEMS

Looms	NFM® 53 8/27 MDW® RFID NFM® 53 6/42 MDW® (NFM® 53 6/42 MDW® RFID) NFM® 53 4/66 MDW® NFM® 53 2/84 MDW® with System 1, 2, 3
Number of guide bars	2 / 4
Positive controlled effect thread transports	2 / 3 RFID / 4 standard
Guide needles	Individually and in segments
Combing shaft	With mechanical rotation and electronically controlled stroke for NFM®
Prerequisites	MÜCAD MDW® / mymuenet® / License Agreement TexTrace for RFID

## ▲ LABEL WEAVING SYSTEMS

Loom	MÜGRIP® MBJ8 MDW®
Number of guide bars	2
Positive controlled effect thread transports	2
Guide needles	Individually and in segments
Prerequisites	MÜCAD MDW® / mymuenet®



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**Fascination of Ribbons and Narrow Fabrics**  
**Innovation in Machinery**

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