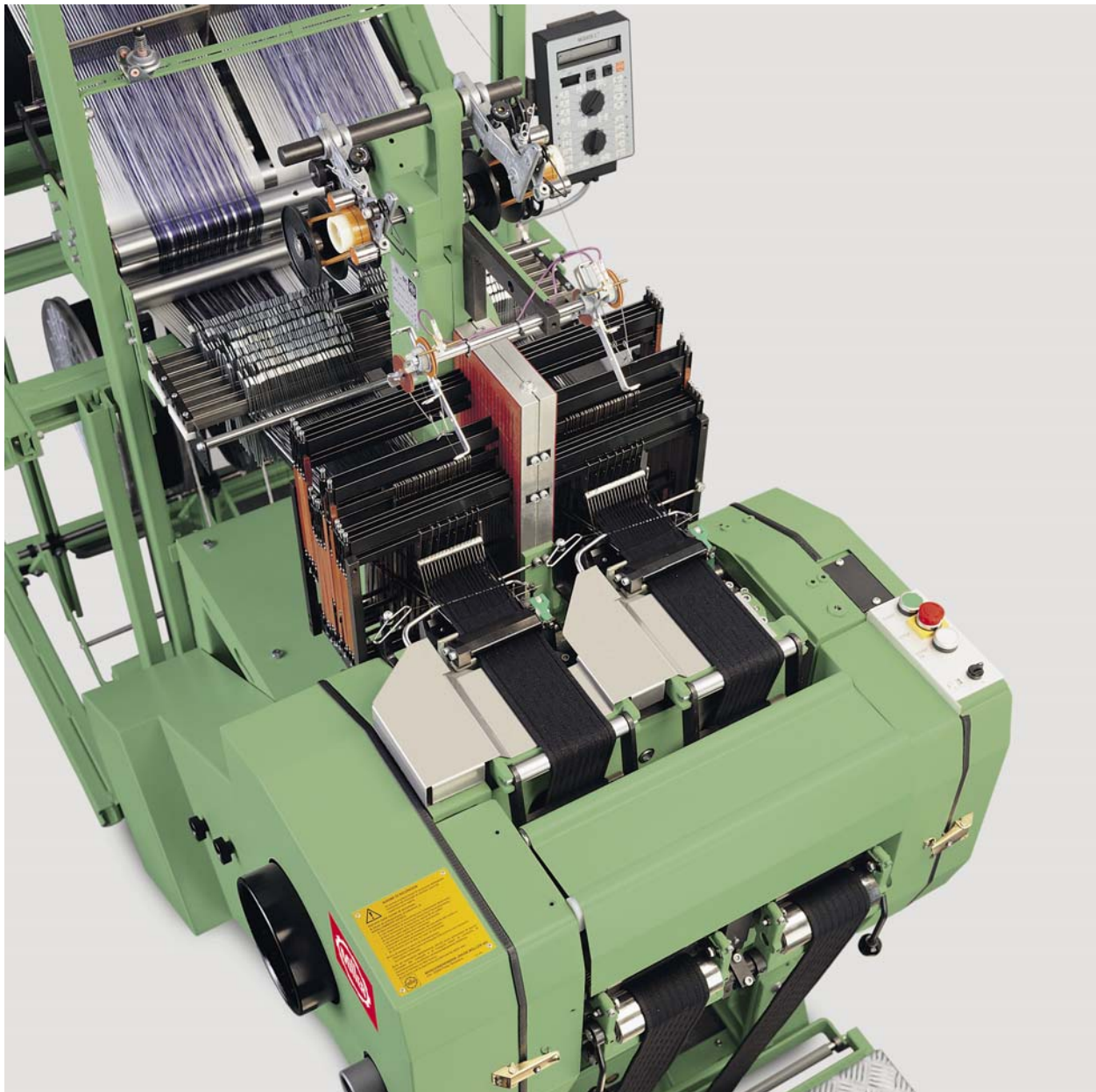


# Narrow Fabric Looms

## NC ... series

**NC-G and NC2-GG for medium-heavy tapes and belts**  
**NC2-S and NC2-SS for velvet and plush tapes**  
**NC2JM for belts with Jacquard pattern**  
**NCE for wide tapes and hand towels**



## NC ... series

### NC-G and NC2-GG for elastic and non-elastic tapes and belts NC2-S and NC2-SS for velvet and plush tapes

#### The basic NC machine

The basis of the machine is a compact, heavy cast structure for smooth, low-vibration running. The three-phase brake motor ensures rapid starting and stopping of the machine. The optimum weaving speed can be set by the infinitely-variably controllable variator.

The ball-bearing supported rocking drive for the weft insertion system as well as the selectable latch needle stroke guarantee a weft insertion free of thread wear and a safe crocheting process.

This machine features simple operation, high operating safety and minimum maintenance.

#### MÜTRANS®2 Weft thread transport (Müller patent)

The operator-friendly and precision-operating weft thread transport unit which can be used for many weft materials can be regulated while the machine is running.

With the opening lever sufficient room can be created between the pressure rollers to permit simple, direct insertion of the thread. Slip-free thread transport and almost complete insensitivity to differences in the prestress levels, ensure a precise thread tension which remains constant. An optional layering roller significantly extends the service life of the thread transport belt.

#### Tape and belt machine

The machine, type NC-G, can be economically used for the manufacture of light to medium-heavy tapes and belts made of chemical and natural fibres.

The NC2-GG is the strongest version of the NC series with the largest possible shed. It is used for the weaving of medium-heavy to heavy belts and tapes for technical applications.



General view of NC-G

#### Velvet and plush machine

The NC2-S is used for the manufacture of velvet and plush tapes up to a max. 2x6 mm pile height. The NC2-SS machine is designed for pile heights of more than 2x6 mm.

The velvet machines are equipped with needle rollers for fabric take-off, double pick needles, double latch needles, 4-fold weft thread transport and a pile cutting device.

Machine type	NC-G		NC2-GG		NC2-S	NC2-SS
No. of weaving points/reed width	2/84	2/130	2/84	2/130	2/130	2/130
Max. tape width (guide value in mm)	80	120	80	120	120	120/110/100
Max. pile height in mm						2x6,5/2x8/2x10
Weaving systems						
I (without binder thread)	Standard	Standard	–	–	Option	Standard
II + III (with binder thread)	Option	Option	Option	Option	Standard	–
V (with binder and catch threads)	Option	Option	Standard	Standard	–	–
Shaft drive	Cam disc, pattern chain or combined				Cam disc 1 : 8	
No. of shafts	4 / 8 / 12 / 16				12	12
Weft density/cm	3 – 45 / 0,5 – 8 / 2,2 – 14 Other ranges upon request				6 – 90	5 – 70

**NC2JM for medium-heavy to heavy belts with Jacquard warp effect**

**Application**

This machine is used for elastic and non-elastic belts with woven-in motifs such as names, imprints and symbols in warp effect. The options for patterns or for the marking of loading data, manufacturer, expiry date etc. are virtually limitless in the repeat length. Endless yarns (multifilament and monofilament) as well as staple fibre yarns can be woven.

**Jacquard machine, SPE3 192**

The electronically-controlled double-stroke Jacquard machine is mounted on a solid frame structure directly on the loom. The Jacquard machine is equipped with a max. 192 harness mountings for the figure threads.

**Standard equipment**

The NC2JM is fitted as standard with double fabric take-off, strengthened drive motor, increased reed stroke as well as spring-loaded warp thread deflection for heavy belts. A separate motor with creep speed gearing permits slow weaving for precise setting-up.

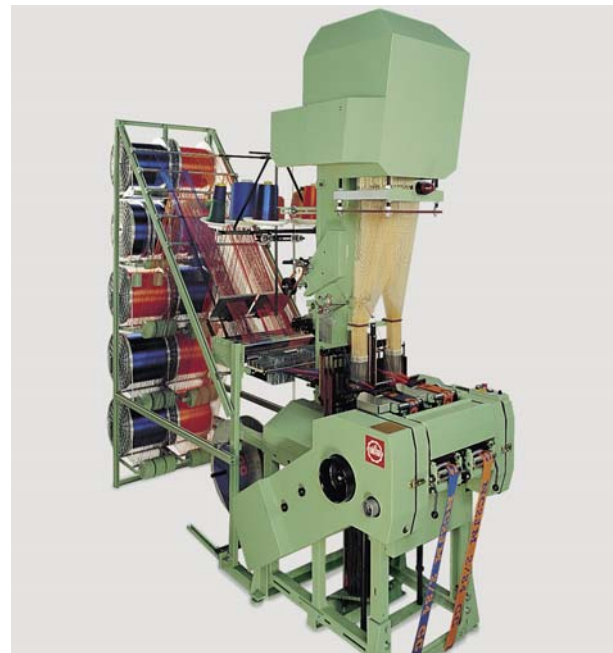
**Supplementary shed forming device**

For the ground weave a supplementary shed forming device for 4 – 12 shafts is available. Shaft drive is via cam discs or pattern chain. The repeat length is 8 and with pattern chain it is also 16 – 42 wefts.

**Reliable, operator-friendly machine controller**

Programming can be done directly on the machine using the MÜDATA®4 data input and acquisition unit.

Even more user-friendly is programming on a PC, which is independent of the machine, with MÜCAD and then to transfer the data to the loom. These options are described in more detail in separate brochures.



NC2JM with Jacquard machine

The main features of this controller are:

- Short conversion times during pattern changes
- Correction options on the machine
- The whole control unit including USB-interface is fitted in a separate, vibration-free cabinet (Option: integrated disk drive)
- RAM memory with battery back-up
- User-friendly set-up

**Space requirement**

Width	935 mm	
Depth (incl. warp rack)	3200 mm	
Height	2700 mm	max.
Room height	2900 mm	min.

Machine type	NC2JM 2/84 GG	NC2JM 2/130 GG
No. of weaving points/ reed width	2/84	2/124
Max. tape width (guide value in mm)	80	120
Weaving systems	V – with binder and catch threads (standard) II + III – with binder (option)	
Jacquard machine	SPE3 192	
No. of control functions for figure threads	96 / 112 / 128 / 144 / 160 / 176 / 192	
Shaft drive	Cam disc or pattern chain	
Number of shafts	4 / 8 / 12	
Weft density/cm	2,2 – 14, other ranges upon request	



## NC ... series

### NCE for wide tapes and hand towels

#### Applications

The NCE is used for the manufacture of elastic and non-elastic fabrics up to a width of about 340 mm. The main applications are for example hand towels for automatic dispensers, corset tapes, kidney-protection belts, wreath tape or table sets, but also filter cloth, light tubular fabric or belts. Endless yarns (multifilament and monofilament) as well as staple fibre yarns can be applied.

#### Shed forming device

Shed forming can take place with cam discs, pattern chains or also combinations of these. The repeat length can thus be adapted to many requirements. Diverse options from a repeat of 8 with cam disc or pattern chain, via repeat lengths of 16 – 36/44 with pattern chain and tensioning roller right up to 60 – 200/300 weft are all available.

#### Special weft insertion system

Weft thread insertion takes place with the aid of a pair of weft needles. The thread is transferred in the middle from the left to the right-hand needle. Weft feed is carried out with the electrically-controlled feed wheel unit, thread compensation and cone run-out monitor.

The NCE can optionally be equipped with an insertion system for up to 4 weft colours.



NCE for wide tapes and hand towels up to 340 mm



Weft insertion system with one pair of weft needles

Mashine type	NCE 1/280	NCE 1/365
No. of weaving points	1	1
Max. reed width mm	280	365
Max. tape width mm	270	340
Min. tape width mm	150	192
Weaving systems	I, II + III	
Shaft drive	Cam disc, pattern chain or combined	
Number of shafts	4 / 8 / 12	
Weft density/cm	3 – 45 / 0,5 – 8	

Copyright © 2002 by Jakob Müller AG Frick  
5070 Frick Switzerland

Printed in Switzerland. All rights reserved.

No part of this publication may be reproduced by any means, nor translated, nor transmitted into a machine language without the written permission of the publisher.

This leaflet contains photos and technical data for information only, without contractual engagement.

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

Rep.:



**Jakob Müller AG Frick**  
5070 Frick Switzerland  
Tel +41 62 8655 111  
Fax +41 62 8655 777  
www.mueller-frick.com

