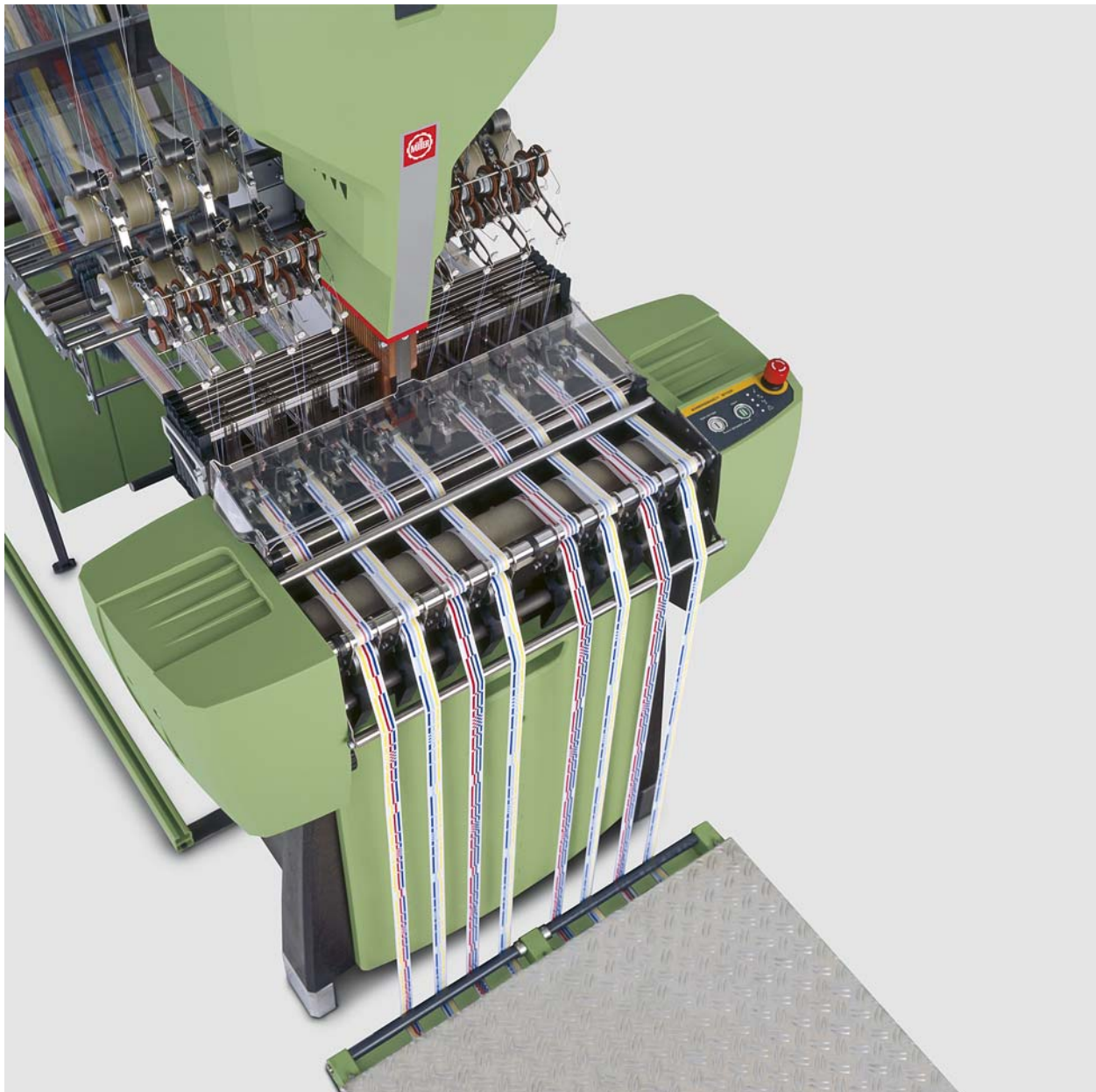


Electronically controlled narrow fabric loom

NH2 53

**for light to medium-weight elastic and non-elastic
narrow fabrics with unlimited repeat lengths**



Concept

The new Müller NH2 53 (various patents registered) employs components that have been in successful use for many years in tandem with innovations, which are set to play a pioneering role in textile machinery design.

As a result of a new type of drive system, the machine has a very low energy consumption. The electronic control of the frames, powered by linear motors, permits unlimited repeat lengths. Both the weft and auxiliary thread transports are electronically controlled and infinitely adjustable. The fabric take-off and the main motor also utilise this drive concept.

Important features

- Compact design
- Very high levels of user-friendliness
- Low energy consumption (less than 1 kW)
- Unlimited repeat lengths due to electronic frame control
- Very quick changes of pattern possible, no requirement for the preparation and use of pattern chains or pattern drums with cam discs
- Positive-controlled electronic thread transport with infinitely adjustable setting
- Electronically controlled fabric take-off
- Electronically controlled main drive for infinitely adjustable weaving speeds
- Electronically controlled creep speed
- Precision fabric take-off with non-slip draught and pressure roller coverings for weave protection
- Minimal maintenance requirement
- Low spare part requirement due to limited number of mechanical components
- Minimal lubrication oil consumption
- Optional execution for 1 needle or 2 needle Z-system for H-M-T

Machine controls

The machine controls consist of two components:

1. A unit attached to the machine, the operation of which is limited to the functions needed for weaving.
2. A portable programming device with wireless data transfer to machine for programming. All relevant data and parameters such as narrow fabric design, speed, weft density, but also downtimes etc. are stored. They can be recalled for statistic analyses at any time. Several machines of this type can be programmed via a cable-free link using only one control device.

This clear separation considerably reduces the burdens on the weaving personnel.



Overview

Machine drives

The main motor, a brushless servo-motor, is positioned directly on the main shaft, which removes the need for intermediate gears and belts. The control print is mounted directly on the motor. This drive concept permits precisely controlled operation with a minimum energy requirement.

Patterning

The frames, powered by linear motors, allow unlimited repeat lengths. Mechanical components such as cam plates or pattern chains are unnecessary and the costs of purchasing, storage and wear-related replacements are saved. Moreover, pattern changes can be completed in a very short time in an uncomplicated manner.

A new pattern is communicated to the machine directly by means of remote control. On the machine type NH2 53 2/130 transfer is also possible via LAN-interface (see leaflet MÜCAD – Supplementary software MÜCAD Direct Transfer). The pattern can either be designed using MÜCAD MINI / MICRO / NANO programming software or directly by means of the remote controls.

Weft and auxiliary threads

The weft and binder threads are driven by separate step motors and thus infinitely adjustable in line with the thread requirement. During a change of pattern, the parameters for weft and auxiliary feeding can be transferred to the machine automatically, thus removing the need for separate setting. The fabric take-off rollers are also powered by a step motor. This permits infinite variations in weft density of 8 –60 threads/cm.

Cone storage of the weft and auxiliary threads

The weft and auxiliary threads are fed from a free standing cone store (Type F) positioned next to the machine. As an option, a cone frame (Type N and Z) can be installed above the machine.

Additional models

NH2 53 4/42 SNO2B

NH2 53 4/42 SNO4B

NH2 53 4/66 SNO2B

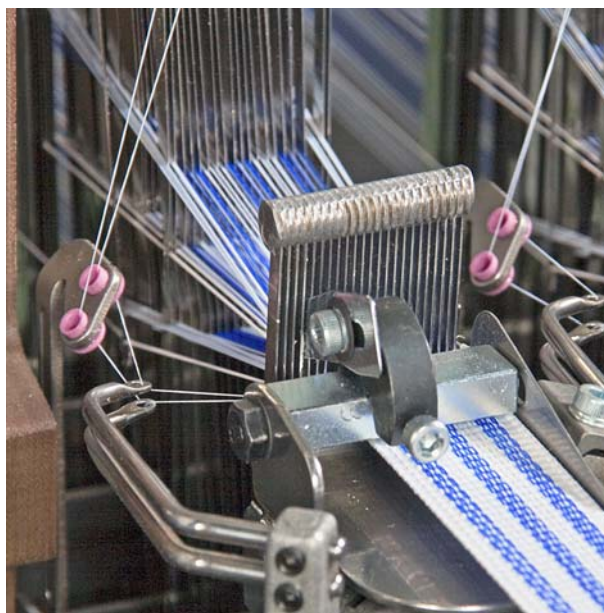
NH2 53 4/66 SNO4B

NH2 53 6/27 SNO2B

Narrow fabric looms with a colour selection device for two or four weft colours for the production of light to medium-weight narrow fabrics with a weft effect.

NH2M 53

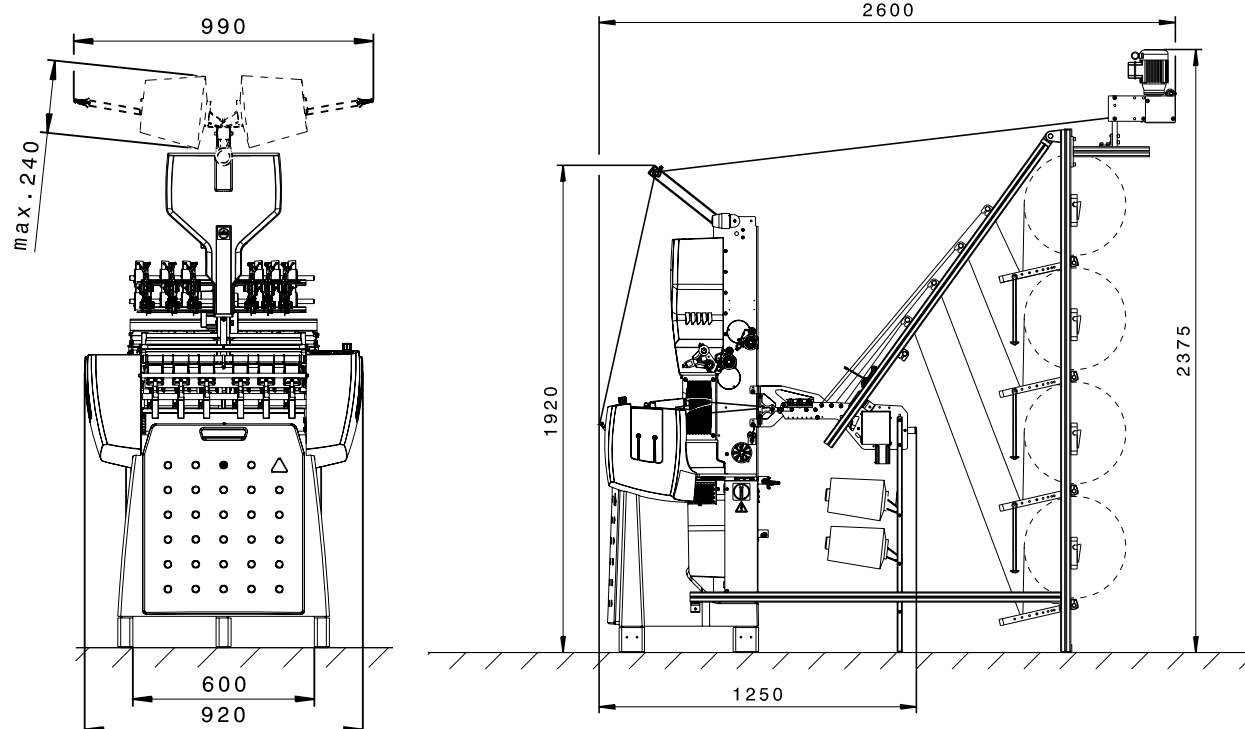
Narrow fabric loom for the production of MultiSphere woven ropes (please see the MultiSphere technology brochure).



2 needle Z-system space with weft insertion needle and auxiliary thread guide

Technical data

Model NH2 53	2/130	4/66	6/42	8/27	10/18
Number of weaving head	2	4	6	8	10
Max. reed width (mm)	130	66	42	27	18
Max. fabric width (mm)	122	62	40	25	16
Z-System (Z4 / Z5)	available	available	available	available	not available
Max. number of shafts	16				
Repeat length	unlimited				
Max. power consumption	<2 kW		1 kW		

Space requirement NH2 53


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Systems and solutions for:

- Warping
- CAD
- Narrow fabric weaving
- Rope weaving
- Warp knitting
- Label production
- Textile printing
- Dyeing, finishing, coating
- Make-up
- Technical textile make-up

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Fascination of Ribbons and Narrow Fabrics Innovation in Machinery

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