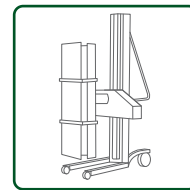


NEEDLE MASTER

+



GEBE SCOOT

+



GEBE STORE

## PERFECT NEEDLE BOARD LOGISTICS WITH THE BOARD MASTER SYSTEM

Groz-Beckert is continuously developing from a proven full assortment provider for felting and structuring needles into a comprehensive systems partner for needling. One example of this is the Board Master system.

GROZ-BECKERT®  
*Board / Master System*

## ALL BENEFITS AT A GLANCE.

- Longer board service life, due to gentle needle insertion and removal
- Higher productivity and improved reaction times – thanks to sharply faster needle exchange and minimized needling errors
- Simple one-man operation – across the entire logistics chain, and without the need for prior training
- Uniform quality – thanks to precisely defined processes and reliable repeatability
- More safety – no more risks from metal projectiles during manual needle removal; needle breakage is generally ruled out
- Ergonomic working – with the help of specially designed, user-friendly components, e.g. angle-adjustable indexing table and needle catch container
- New transparency – thanks to immediate and comprehensive overview of board status via idents
- **All in all: production that is clean and efficient all round, plus improved working conditions**

### GROZ-BECKERT® *Needle Master*

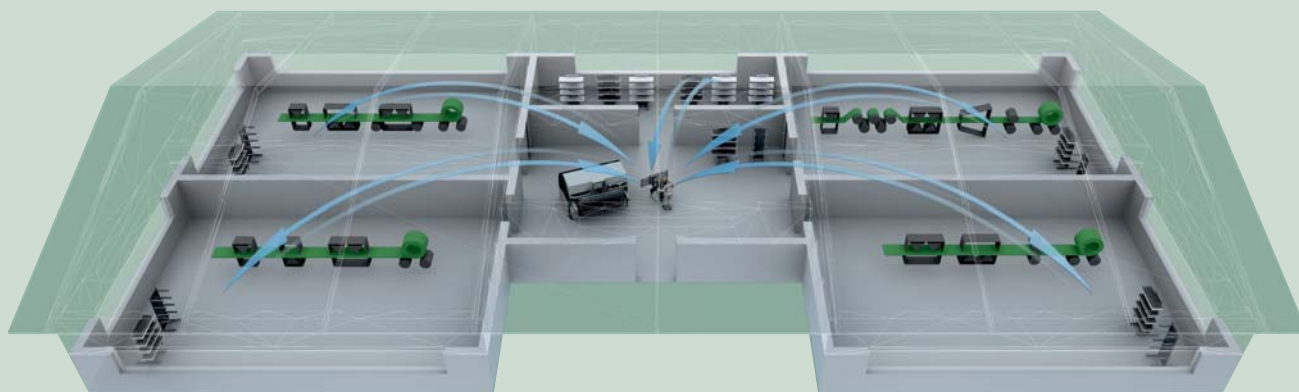
Function of the Needle Master is semi-automatic insertion and removal of needles from prevalent needle boards via multi-needle-looper, guide comp and customer-specific pitch-rails.



POTOTYPE OF THE NEEDLE MASTER

## COMPREHENSIVE PROCESSES ALL ROUND.

With the new Board Master System – consisting of Needle Master, GEBE Scoot and GEBE Store – Groz-Beckert is taking a universal approach to board logistics. In an ideal scenario, several production lines can be operated simultaneously by one single person.



### *GEBE/Scoot*



The GEBE Scoot, an ergonomically designed high-lift truck, is like an interface combining warehouse, GEBE Store and the automatic needling machine. The complete logistics of the bulky boards – between storage, needle exchange and place of use – can thus be handled by one single operator.

The GEBE Store, a rack for the temporary storage of needle boards, is optimally adapted to the design of the Needle Master and GEBE Store.

All in all, Groz-Beckert has provided a complete periphery and logistics solution that convinces on every level.

### *GEBE/Store*



## DATA, FACTS, BENEFITS.

**GEBE**/Scoot

### Technical data:

Dimensions W/D/H:	2000 x 1800 x 2100 mm*
Weight:	max. 350 - 400 kg
Board length:	1100 - 1700 mm
Board depth:	190 - 400 mm

\*Width when board is transferred to Needle Master

### Special features:

- Suitable for approx. 80 % of all board sizes
- Safe removal and storage of boards using existing shelf systems – as well as GEBE Store, the specially designed shelf system from Groz-Beckert
- Removal and storage of boards in vertical and horizontal positions
- Safe transport of boards from storage system to needling machine
- Safe and simple transfer of boards to the Needle Master

### Operation:

- Flexible operation via lift mechanism and adjustability of boards in three axes
- Conversion of turning and tipping movements of boards via self-locking worm gears
- Deflection of turning movements via deflection rods at the respective locations, thus avoiding any high forces
- Operating height independent of shelf system and freely selectable
- Stepless adjustment of board-absorption to board dimensions

### Safetys:

- Safe absorption of boards
- Good overview thanks to compact dimensions
- Simple, safe clamping of the boards by turning a lever
- Ideal personnel protection via industry-standard board covering
- Handbrake provides optimal protection against accidental rolling away

### Benefits in practice:

#### Before – manual handling

- Minimum of two people required for board transport.
- Unwieldy, because board impossible to grip firmly.
- Unpredictable, wobbly board handling.
- Needles entirely unprotected during board transport.
- No reproducibility possible.

#### Now – handling with GEBE Scoot

- Far better and safer handling by just one person.
- Stable handling/fixing thanks to ergonomic grip locations on the GEBE Scoot.
- Safe and free turning in the special holder.
- Safe removal of boards at heights of up to two metres.
- Precise definition of board transfer position for exact reproducibility.

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