



## KnotMaster

Groz-Beckert offers knotting machines and tying frames for every application - from standard requirements to special applications

Under the brand name KnotMaster, Groz-Beckert offers high-performance warp tying machines with efficient technology and simple operation for the most diverse range of applications. Customers benefit from rapid warp changes and reduced processing times for more efficient and cost-effective weaving preparation. Different models are available for standard requirements - as well as special applications.

### Benefits

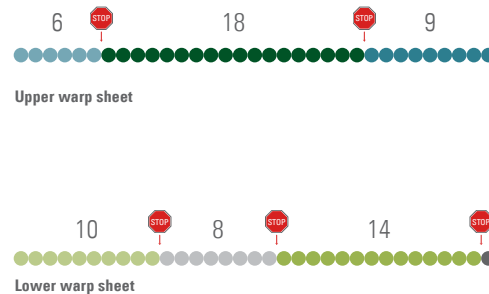
- User and service friendly modular systems
- Compact design
- Single and double knots
- Up to 600 knots per minute
- Yarn break detector

### KnotControl

Machine operation via touchscreen

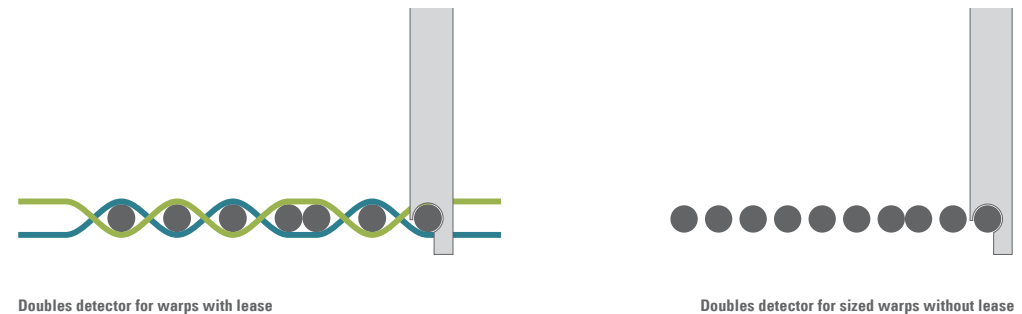


### Repeat control programming example



### Doubles detector

Mechanically with lease (optional electronic control for warps without lease)



# GROZ-BECKERT®

### Groz-Beckert KG

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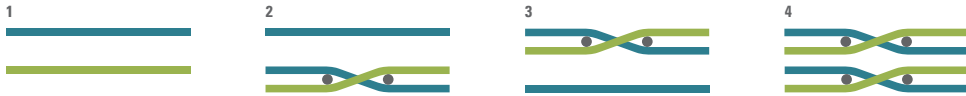
**Variably adjustable knot ends**

Up to 4 mm depending on the type of the machine and application



**Tying methods**

- 1) Upper warp sheet and lower warp sheet without lease
- 2) Upper warp sheet without lease and lower warp sheet with lease
- 3) Upper warp sheet with lease and lower warp sheet without lease
- 4) Upper warp sheet with lease and lower warp sheet with lease



**Knoting machine-Overview**

| Designation                             |      | AS/3  | TS/3   | XS/3Q   | RS/3   | RSD/3   | ZS/3   | TS/3 TapeMaster  |
|---|------|---|--|---|--|---|--|--|
| <b>Material</b>                         |      | <ul style="list-style-type: none"> <li>■ Natural and synthetic fiber yarns</li> <li>■ Mono- and multifilaments</li> <li>■ Textured yarns</li> <li>■ Stretch yarns</li> <li>■ Steel wires</li> </ul> | <ul style="list-style-type: none"> <li>■ Natural and synthetic fiber yarns</li> <li>■ Mono- and multifilaments</li> <li>■ Textured yarns</li> <li>■ Stretch yarns</li> <li>■ Steel wires</li> <li>■ PP and PE tapes</li> </ul> | <ul style="list-style-type: none"> <li>■ Natural and synthetic fiber yarns</li> <li>■ Mono- and multifilaments</li> <li>■ Fancy yarns (Bouclé, slub, chenille)</li> </ul> | <ul style="list-style-type: none"> <li>■ Natural and synthetic fiber yarns</li> <li>■ Mono- and multifilaments</li> <li>■ Stretch yarns</li> <li>■ Steel wires</li> <li>■ Glass fiber</li> </ul> | <ul style="list-style-type: none"> <li>■ Natural and synthetic fiber yarns</li> <li>■ Mono- and multifilaments</li> <li>■ Stretch yarns</li> <li>■ Steel wires</li> </ul> | <ul style="list-style-type: none"> <li>■ Natural and synthetic fiber yarns</li> <li>■ Mono- and multifilaments</li> <li>■ Kevlar</li> <li>■ Glass fiber</li> <li>■ Carbon fiber</li> </ul> | <ul style="list-style-type: none"> <li>■ Natural and synthetic fiber yarns</li> <li>■ Mono- and multifilaments</li> <li>■ Specially for tapes 3–7 mm and for extremely low-sley densities</li> </ul> |
| <b>Tying range ...</b>                  | Ne   | 738,2–1,2   | 738,2–1,2  | 118,1–0,3   | 265,7–3  | 147,6–2,1   | 41,3–0,4   | 76,7–1,2   |
|   | Nm   | 1.250–2   | 1.250–2  | 200–0,5   | 450–5  | 250–3,5   | 70–0,7   | 130–2  |
|   | den  | 7–4.500   | 7–4.500  | 45–18.000   | 20–1.800   | 36–2.600  | 130–13.000   | 70–4.500   |
|   | dtex | 8–5.000   | 8–5.000  | 50–20.000   | 22–2.000   | 40–2.900  | 145–14.000   | 76–5.000   |
| <b>Single knots</b>                     |      | •   | •  | •   | –  | •   | –  | •  |
| <b>Double knots</b>                     |      | –   | –  | –   | •  | •   | •  | –  |
| <b>Automatic repetition unit</b>        |      | •   | •  | •   | •  | •   | •  | •  |
| <b>Tying methods</b>                    |      | 4   | 4 optional   | 4   | 4 optional   | 3 optional  | 4 optional   | 2 (lease/clip optional)  |
| <b>Doubles detector (with lease)</b>    |      | •   | •  | •   | •  | •   | •  | –  |
| <b>Doubles detector (without lease)</b> |      | optional  | –  | –   | –  | –   | –  | –  |
| <b>Yarn break detector</b>              |      | •   | •  | •   | •  | •   | •  | –  |
| <b>KnotControl</b>                      |      | •   | •  | •   | •  | •   | •  | •  |
| <b>Knot counter</b>                     |      | •   | •  | •   | •  | •   | •  | •  |