Warp knitting needles and system parts for technical and industrial textiles

Compound needles for the creation of fiber-reinforced composites on warp knitting, raschel and stitch bonding machines

GROZ-BECKERT

Groz-Beckert KG
Parkweg 2, 72458 Albstadt, Germany
Phone +49 7431 10-0
contact-knitting@groz-beckert.com
www.groz-beckert.com

Fiber-reinforced composites:
Fiber-reinforced textiles are suitable for a wide range of lightweight applications. Textile reinforcements made from glass, carbon or aramid fibers form the basis of many of these composites.

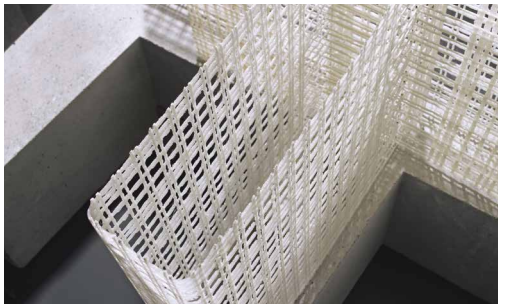
Warp knitting technology plays a key role in producing these textile reinforcements. Pointed hook and compound needles are used on warp knitting, raschel and stitch-bonding machines to manufacture reinforcing textiles that combine low weight with high stability.

Technical feature:
The pointed hook geometry of the compound needles ensures reliable processing of challenging materials during the warp knitting process.



Typical fields of application:

Buildtech:
Composites for construction and civil engineering



Geotech:
Textile reinforcement for bridge construction



Mobiltech:
Composites for aircraft components



Indutech:
Fiber-reinforced composites for lightweight construction



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Products made on warp knitting machines

Warp knitting machines for producing biaxial and multiaxial fabrics, known as non-crimp fabrics, made of carbon, glass and aramid fibers. Warp Knitting machines with weft insertion for the production of technical textiles, especially geotextiles.

Compound needles and closers for warp knitting machines:



Compound needle	Closer
Spec. 47.89 G 103	Spec. 33.44 G 101
Spec. 47.55 G 103	Spec. 33.28 G 101
Spec. 42.55 G 104	
Spec. 58.100 G 101	Spec. 34.41 G 3
Spec. 50.75 G 15	Spec. 10.35 G 501

Products made on stich bonding machines

Specialized stitch-bonding machines for producing fabrics that are primarily used in composite materials and other technical textile applications.

Compound needles and closing wires for stitch bonding machines:



Compound needle	Closing wire
Spec. 39.60 G 101	Spec. 21.28 G 1
Spec. 36.60 G 104	Spec. 21.27 G 501
Spec. 49.93 G 101	Spec. 21.45 G 501

Products made on electronic crochet knitting machines

High-efficiency electronic crochet knitting machines equipped with compound needles for producing a wide range of ribbons and narrow fabrics as well as elastic and non-elastic textiles for technical and industrial, medical and surgical applications.

Compound needle and closer for electronic crochet knitting machines:



Compound needle and closer mounted together	
SN-M 86.68 G 1	
As individual parts:	
SN-N 86.68 G 1	SN-S 61.68-30 G 1

The Technical Center Knitting

Groz-Beckert's fully equipped Technical Center Knitting, located within the Technology and Development Center (TEZ) in Albstadt, helps customers and partners find solutions to their knitting application challenges quickly. Its experts offer comprehensive expertise in circular knitting, flat knitting and warp knitting, covering applications from apparel to technical textiles.

A particular focus is on optimizing processes for manufacturing reinforcement textiles, helping customers and partners realize the potential of fiber-reinforced composites.

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