



Hydraulic cutter on test stand



Vario cutter during cutting process



Cutter with 5 rovings

Advantages

- Suitable for nearly all fibres and for many applications, where continuous fibre cutting is required
- Length of cut may be changed whilst running at full speed
- Cutting speed: up to 20 m/sec
- Cutting length: from 3 - 100 mm available, longer on request
- Automatic knife roll adjustment to compensate for wear of rubber roll
- Adjustable cutting force between knife roll and rubber roll
- Compact size, adaptable to all robot system
- Speed sensor
- Low weight (less than 6 kg) with choice of drive systems (hydraulic or electric)

We are able to supply all the sensors (fibre motion failure, etc.) and all necessary accessories and equipment for guiding the fibre from the spool to the cutter.

Technical data

Drive	hydraulic motor
Oil Volume:	1.6 cc / revolution
Max. Revolution:	6000 rpm
Max. Oil pressure:	100 bar
Max. Oil consumption:	9.6 l/min
Weight:	5.8 kg
Fibre length:	12.5 / 25 / 50 / 100 mm (standard)

Nearly all types of roving materials can be cut by selection of appropriate rubber and cutting rolls. As an option, the cutter can be equipped with a sensor, which measures the actual stream volume and allows this to be adjusted exactly. The system can also be equipped with a fibre motion sensor to stop the machine if the fibre supply fails.

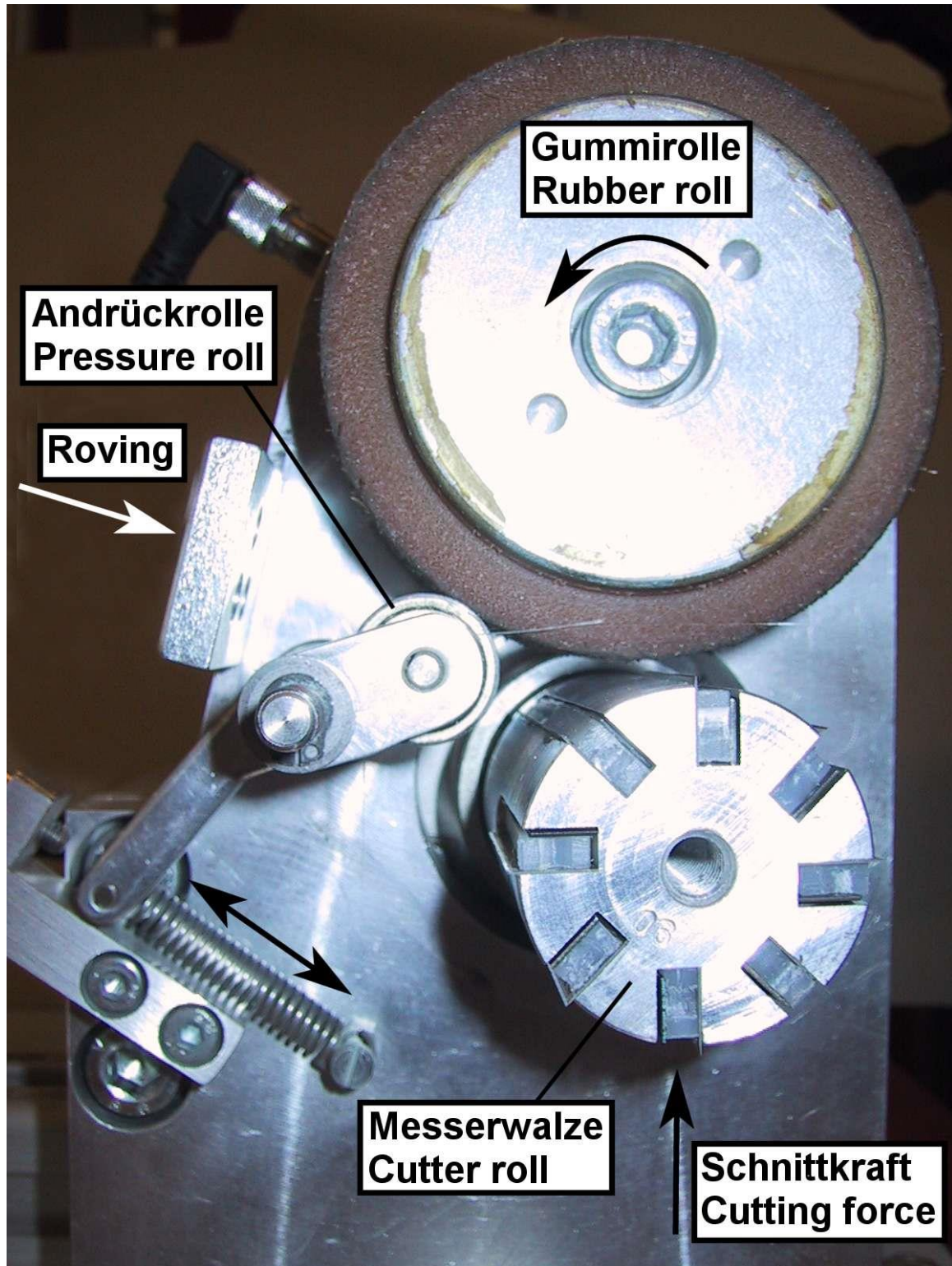
Knife rollers and cutting lengths

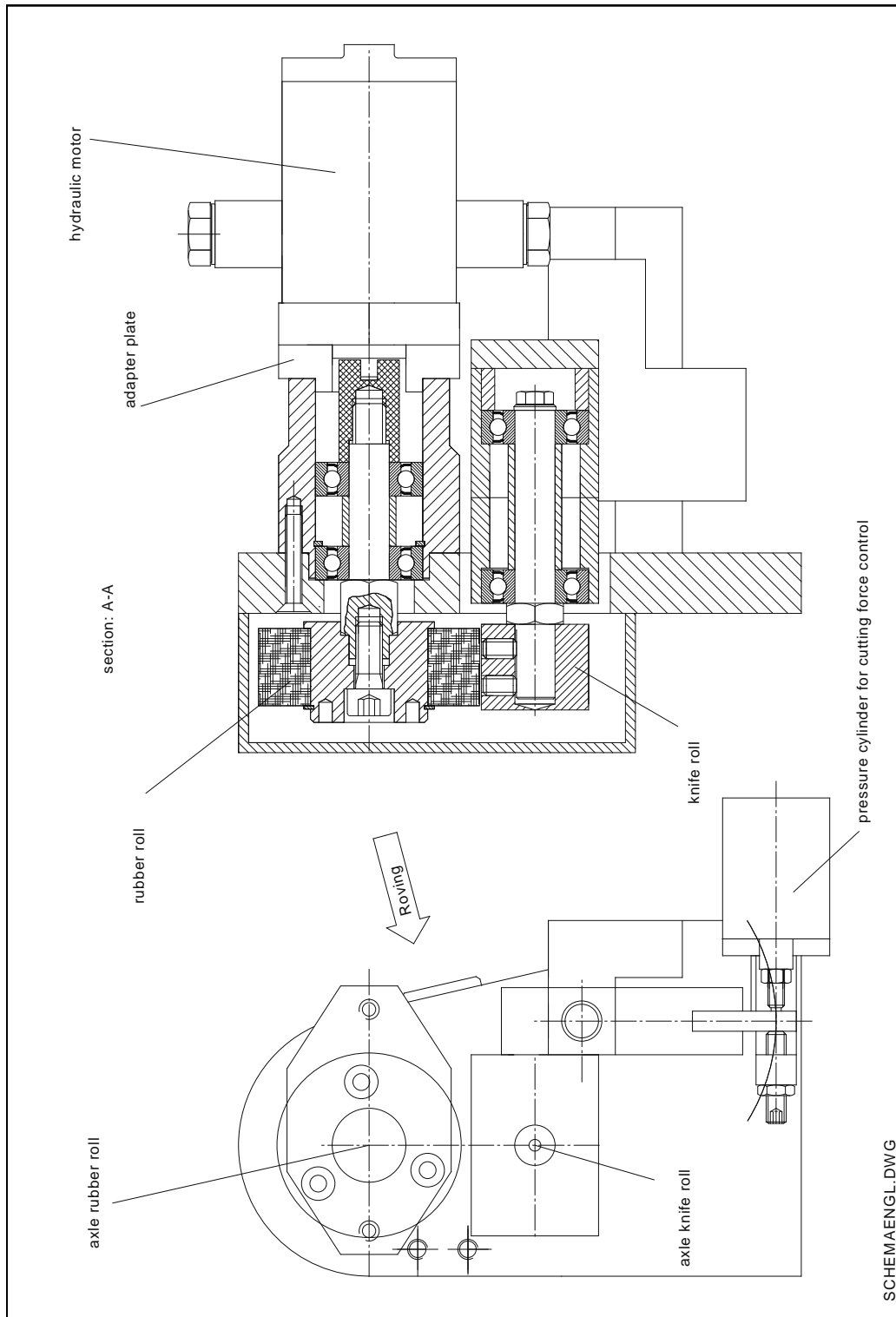
Quantity/knives	Cutting length in mm		
	Article-No.:		
	89121190	89126120	89110840
1	100.5	100.5	100.5
3	-	33.5	-
6	-	16.7	-
9	11.2	-	11.2
12	-	8.4	-
18	5.6	-	5.6
24	-	4.2	-
36	-	-	2.3

The Vario system is not applicable with item no. 89110840.

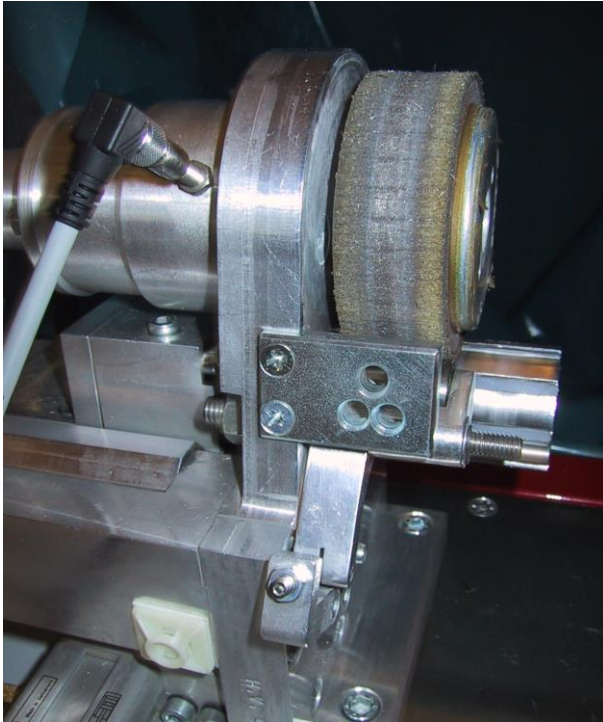
Performance

At a revolution of 3000 rpm, there is a speed of 10 m/s, which corresponds to 600 m/min. When working with a roving of 2400 tex (2400 g/km roving), you will achieve a quantity delivery of 0.6 km/min x 2.4 kg/km = 1.44 kg/min.





Vario Cutter



Vario cutter



Cutter for 5 rovings

Video available @ <https://www.youtube.com/watch?v=3N-Ay6ifs6s>