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# TWIN-TUBE CUTTING TWINCUT



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BLM GROUP

## TWINCUT

# High productivity twin-tube cutting

**TWINCUT** is an automatic tube cutting system equipped with a circular saw blade. It is capable of cutting two round, square or rectangular tubes at a time while flat-oval and elliptical section tubes can be cut only one at a time. The main feature of **TWINCUT** is its very high productivity.

### TWINCUT

2 x Ø 45 mm

- twin-tube cutting (max Ø 45 mm)
- one tube cutting (max Ø 80 mm)
- simple to use
- easy to adjust
- automatic cutting parameters setup
- easily accessible manual adjustments

The operator has to select the tube characteristics on the large, touchscreen panel and the appropriate cutting parameters are automatically set on the machine.



An automatic bundle loader with 4 tonne capacity ensures long and unmanned production runs. The bundle loader is available in three lengths: 6.5 m, 8.5 m and 12.5 m.

High cutting accuracy and quality is guaranteed by optimised control of saw-blade's speed and feed. After every cut, the successive tube is retracted during the return stroke of the saw-blade to eliminate unnecessary friction. This increases blade life.

Three programmable unloading positions (front and rear) allow separation of cut pieces with different lengths.

Tubes are fed at a controlled speed to ensure accuracy. Wider opening of clamp jaws ensure a scratch-free feeding operation.



The bars are automatically extracted from the bundle and aligned. Tubes are automatically separated from the bundle and fed into the machine. The loader and hydraulic clamp adjustment hand-wheels are grouped around the operator panel and are easily accessible.



The feeding mechanism is equipped with large diameter Vulkollan rollers for optimal feed control.

## TWINCUT

# Optional down-stream operations



### OTHER OPTIONS

- automatic chip conveyor
- additional plastic guards for scratch-free cutting
- saw-blade turbo cooling

#### RT711 belt collection system

A belt system - called **RT711** - can be linked with the Twincut for collecting cut parts. **RT711**, apart from speeding up the handling and packing operations, significantly reduces noise and ensures dent-free cut parts.

#### ST660 deburring system

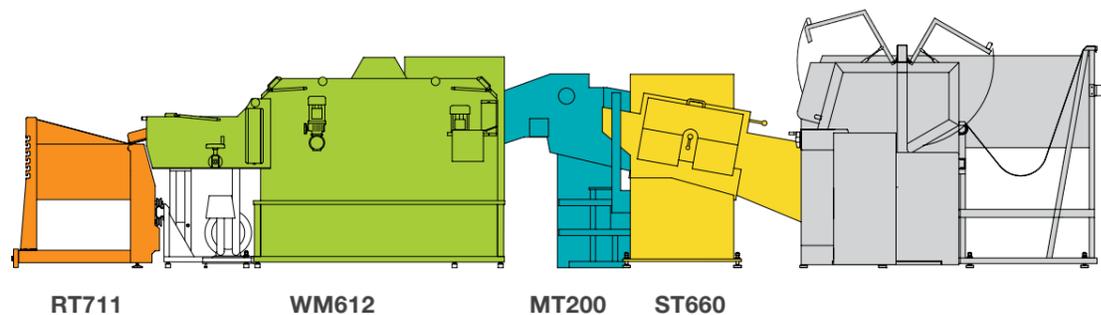
Automatic deburring system **ST660** removes the small amount of burr present on both the ends of the cut tube by means of metallic brushes. After the deburring operation, compressed air-jets clean the tube from inside.

#### MT200 measurement and certification system

The **MT200**, a non-contact, automatic length measurement system can be installed after the deburring system for on-line measurement of cut tubes. The centralised CNC collects the measurement data and carries out statistical analysis. Out of tolerance tubes are automatically separated.

#### WM612 washing system

The **WM612** automatic washing and drying system, washes each tube from inside and outside with warm soap water. Each tube is washed individually and then dried by means of hot air jets. The system is thermally insulated to reduce heat loss and is entirely made of stainless steel to eliminate corrosion.



### RT100 ADVANTAGES

- programmable box dimensions
- box filling state monitoring
- box change without interrupting the process
- unloading of different parts to different boxes

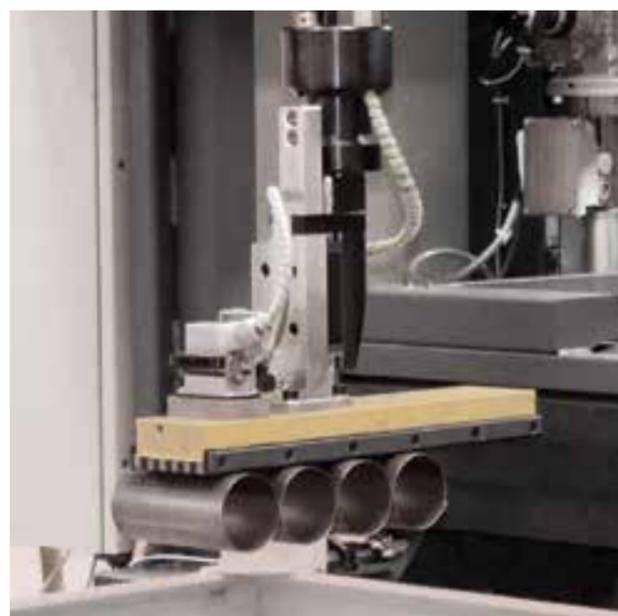


### RT100 cut-tube palletizer

**RT100**, a three-axes CNC part collection and palletizing system, can be linked downstream to automatically have “ready to ship” boxes. The system picks the parts and deposits them tidily in boxes of desired shape and dimensions. Optimized palletizing sequences suitable for shape and dimension of the boxes are implemented.

The production runs can be programmed and constantly monitored remotely by means of a production planning and monitoring system called **Protube**.

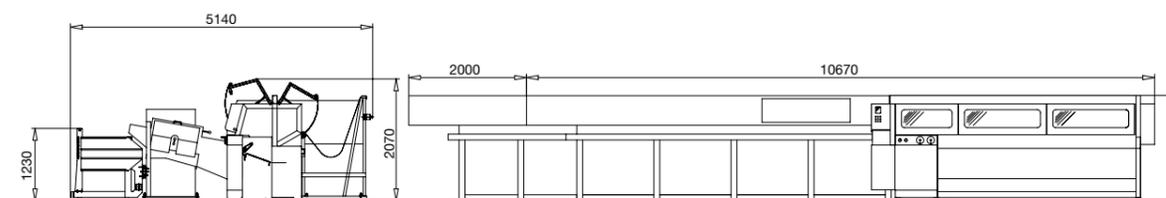
All BLM GROUP systems are equipped with remote service functionality and can be connected to the internet for rapid diagnosis and problem-solving by BLM GROUP technicians from a remote location.



## TWINCUT

# Technical specifications

Round tube cutting capacity (mm)	(one-tube) min. 8 - max. 80 / (two-tube) min.10 - max. 45
Square tube cutting capacity (mm)	min. 10 - (one-tube) max. 70 / (two-tube) max 45
Rectangular tube cutting capacity	min. 15x10 - (one-tube) max. 80 x 70 / (two-tube) max 40 x 45
Min. cutting length	65 mm - optional 25 mm
Max. cutting length	1500 mm - 3000 mm - 4500 mm - 6090 mm
Reference stoppers	2, automatic (manually adjustable stoppers optional)
Unloading positions	3
Loading lengths	from 2 m to 12.5 m
Cutting speed for non-ferrous materials	250 or 500 m/min (blade Ø 250 mm)
Cutting speed for ferrous materials (inverter driven blade)	from 21 to 210 m/min (blade Ø 250 mm)
Minimum blade diameter	175 mm
Maximum blade diameter	275 mm
P/inverter type head motor power	5.5 kW
Total installed power	11/14 kW
Base machine weight (3 m unloader)	2250 Kg



☒ Features, weights, dimensions, capacities and performances of the machines are not binding and may be subject to change without notice. Pictures are for demonstration purpose only.

## CUTTING & END MACHINING

tube bending

endforming

lasertube cutting system

sawing, deburring and washing

combined sheet and tube laser cutting

handling

3d measuring

manufacturing cell

non touch measuring systems

process control software



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