

Twin-tube high production sawing machine

TWINCUT



The new **TWINCUT** Automatic Circular Saw can cut one tube, or two tubes simultaneously, in round, square and rectangular sections. The main feature of a **TWINCUT** is the high productivity levels that can be maintained, especially when cutting two tubes at the same time.

The advance feed rate of the cutting head automatically adjusts according to the area of blade “tooth-contact” with the material, to ensure each tooth takes the optimum chip-load, thus achieving the fastest cutting performance without overloading the blade, thereby optimizing both productivity and blade life.

- simple to use, quick and easy to changeover;
- data base of machine operating parameters with automatic selection and setting;
- cutting geometry designed for a full exploitation of the blade and high cutting precision;
- air jets to minimise swarf build-up in the vice area.

ASSEMBLAGES:

In developing the **TWINCUT** project, particular attention has been paid to the “automatic link” between the saw and the brush deburrer with a design goal based on achieving the highest productivity and reliability with simplicity of setting.

- the brush deburring machine is directly controlled from the **TWINCUT**'s operator panel;
- the intermediate support, for long and flexible tube, is correctly positioned automatically;
- in addition to brush deburring the **TWINCUT** can also be fully integrated with automated systems for: measurement checking, washing and drying, orderly collection and palletising of cut pieces.

LOADING AND UNLOADING:

The machine is equipped with an automatic bundle loader with a capacity of 4000 Kg, and for stock tube lengths of either 6500 mm, 8500 mm and 12500 mm. Cut pieces can be unloaded to three separate locations allowing the scrap ends to be unloaded separately. Even in twin-tube mode the loading and unloading cycle is all fully automatic.

TECHNICAL DATA:

Cutting capacity round tube (mm)	(single) min. 8 - max. 80 / (twin-tube) min.10 - max. 45
Cutting capacity square tube (mm)	min. 10 - (single) max. 70 / (twin-tube) max. 45
Cutting capacity rectangular tube (mm)	min. 15 x 10 - (single) max. 80 x 70 / (twin-tube) max. 45 x 40
Min. cutting length	50 mm - optionally 25 mm
Max. cutting length	1500 mm - 3000 mm - 4500 mm - 6090 mm
Length stops	2 automatically set (optionally with manual setting)
Discharge positions	3
Cutting length	from 2000 mm to 12500 mm
Blade cutting speeds with two speed head (for non-ferrous materials)	250 or 500 m/min (Ø blade 250 mm)
Blade cutting speed ranges with “P” head with inverter (for ferrous materials)	from 21 to 210 m/min (Ø blade 250 mm)
Minimum blade diameter	175 mm
Maximum blade diameter	275 mm
Power P head with inverter	5.5 kW
Total installed power	11/14 kW
Machine weight L = 3000 mm	2250 Kg

