



**IMET SPA**  
Località tre fontane, 6 - 24034  
Cisano Bergamasco (BG) Italy  
Tel +39 035 4387911 | Fax +39 035 787066  
imet@imetsaws.com  
www.imetsaws.com

MACHINE MODEL

# KS 652

Double column semiautomatic bandsaw

Short description

KS 652 is the semi-automatic double column sawing machine for cutting metal structural work, pipes, profiles and beams. The machine can cut right and left up to 60 ° and is equipped with a large support surface and visual reference on a graduated scale distant from the center of the machine for greater precision and ease of reading.



Cutting capacity at 0°	Round: 510mm - Square: 480mm - Rectangular:650x450mm
Cutting capacity at 45° left	Round: 440mm - Square: 430mm - Rectangular:430x430mm
Cutting capacity at 45° right	Round: 440mm - Square: 440mm - Rectangular:440x440mm
Cutting capacity at 60° left	Round: 250mm - Square: 250mm - Rectangular:250x450mm
Cutting capacity at 60° right	Round: 250mm - Square: 250mm - Rectangular:250x450mm
Cutting capacity (BUNDLE)	Max: 650x450mm - Min: 125x15mm
Cutting capacity at 0° solids (C45)	280mm (350mm with 4KW motoreducer and blade 41mm)
Min. scrap-end with bundles	250mm
Blade motor	3KW (option 4 KW)
Blade speed	Da 15 a 100 m/min
Blade size	5320x34x1.1mm (option blade 41 mm)
Blade tensioning	2000kg/cm2
Weight	2100kg
Dimensions	1895x2870x2300mm

## Features



### Vice

The vice slides transversally on the work surface, linear guides, locking, complete with standard pressure reducer. All the saws of KS series (450, 502, 620 and 652) allow to fix the material clamping vice only once and then to rotate the arc for cutting both right and left (up to 60 °).



### Large working table

Easy to use thanks to the rotating work surface integral with the arc and the blade passage to optimize the material support system during processing in all angles.



### Cutting precision

The cutting precision is ensured by the graduated scale (on the work surface) which constitutes a visual reference for the operator in case of angle cutting. There're also automatic stops at 45°left, 0 ° and 45 ° right. To increase cutting precision, IMET band saws are equipped of a system for detecting degrees of cut away from the center.



### Rigid sawframe

In electro-welded steel, the blade has an inclination of 6° to improve the penetration in the material and optimize the execution of the cut. The rotation of the arc is done by bearing preloaded. The KS 652 blade has has a tensioning of 2000kg / cm<sup>2</sup> and is equipped with a control microswitch for immediate stop in case of blade breaking or power failure.



### Blade tension

The blade of KS 652 has a tension of 2000 kg / cm<sup>2</sup> and is equipped with a control microswitch for stopping immediately the blade in case of breaking or tension failure. The machine is equipped with blade guide sliding on linear guides for easy adjustment with hard metal inserts and additional bearings to improve alignment.



### Material detection device

To facilitate the approach of the blade to the material KS450 mounts a device for detection automatic cutting start and end point.



### Control panel

KS 652 is equipped with a mobile control console with control LED for tensioning the blade, opening of the blade guard, motor thermal block and electrical tension. Through the control the operator can choose between 3 different ways of cutting end: ascent of the bow with stopped blade, ascent of the bow with blade in movement and end of cycle without bow ascent.



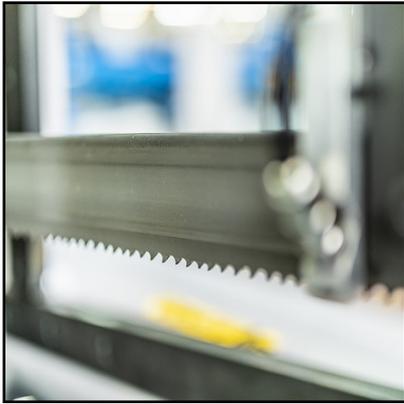
### Blade cleaning

Motorized nylon cleaning brush for blade, driven by motor pulley to always keep in perfect condition the cutting blade.



**IMET SPA**  
Località tre fontane, 6 - 24034  
Cisano Bergamasco (BG) Italy  
Tel +39 035 4387911 | Fax +39 035 787066  
imet@imetsaws.com  
www.imetsaws.com

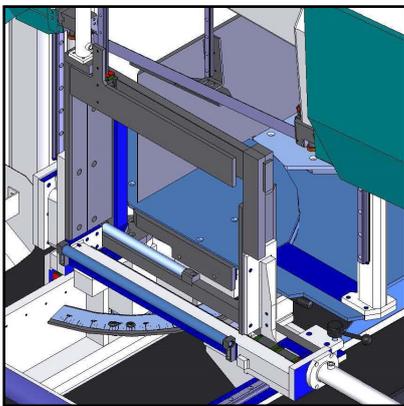
**KS 652**



**High performance package (Optional)**

**OPTIONAL**

KS 652 offers the possibility to increase cutting performance through the 4KW gear motor, blade from 41mm high and hydraulic tension.



**Bundle cutting device (Optional)**

**OPTIONAL**

The bundle cutting device is required when working with bundles of tubes or profiles. Adding the device will change a little bit the machine cutting capacity: max. 650x450mm, min. 125x15mm. When the device is mounted, the machine can only cut at 0°; if the user needs to cut with different angle, the device must be disassembled



**Laser (Optional)**

**OPTIONAL**

It's available a laser ray that points the set cutting line on the material, improving the user's workflow.



**Minimal lubrication system (Optional)**

**OPTIONAL**

The lubrication system cancels the dispersion of the coolant without damaging or affecting the life of the blade. The system is equipped with a 1.3l tank and nozzle.



**Angle display (Optional) OPTIONAL**

It's possible to add on the mobile console an LCD display that shows the set cutting angle, allowing the user to increase position accuracy.



**Loading/unloading roller table (Optional) OPTIONAL**

Roller conveyor suitable for the unloading and loading side. Length 1.5m, 1 pedestal, max loading 1500kg.



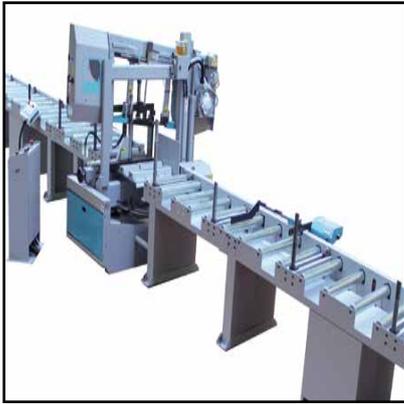
**Unloading roller table (optional) OPTIONAL**

Unloading roller table with digital reading and manual movement. Available : - RTL3KS600 Measuring length of 3m, 3 pedestals, max loading 3000kg; -RTL6KS600 Measuring length of 6m, 5 pedestals, max loading 6000kg.



**Unloading roller table (Optional) OPTIONAL**

Unloading roller table with length stop and selection of the lengths by means of a keyboard Available: -RTP3KS600 Measuring length of 3m, 3 pedestals, max loading 3000kg; -RTP6KS600 Measuring length of 6m, 5 pedestals, max loading 6000kg.



**Motorized loading roller table (Optional)**

**OPTIONAL**

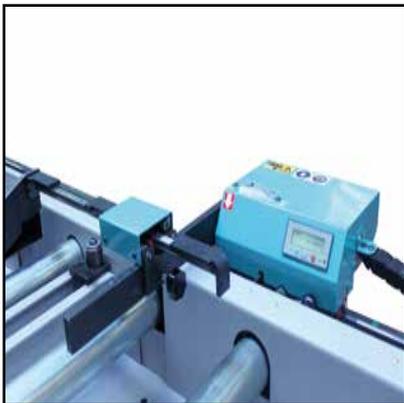
Loading motorised roller tables, with chain transmission and motor reducer managed by inverter, with mobile keyboard. Available : -3m, loading 3000kg; -6m, loading 6000kg; -9m, loading 9000kg; -12m, loading 12000kg.



**Motorized unloading roller table (Optional)**

**OPTIONAL**

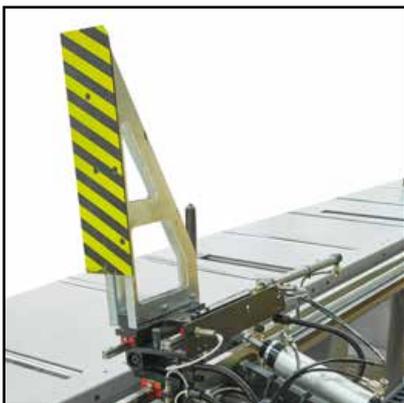
Unloading motorized roller table, with chain transmission and motor reducer managed by inverter, available only together with loading roller table. Available: -3m, loading 3000kg; -6m, loading 6000kg; -9m, loading 9000kg; -12m, loading 12000kg.



**Digital reading length stop (Optional)**

**OPTIONAL**

Digital reading length stop with manual positioning with automatic slowdown sensors, available only together with unloading motorized roller table - Measuring length 3m; Measuring length 6m; Measuring length 9m; Measuring length 12m



**Motorized length stop (Optional)**

**OPTIONAL**

Numerical control motorized measurement RR with fast approaching for automatic slowdown of the piece (to be ordered coupled with automatic conveyors) -RR6S 6m measuring length -RR9S 9m measuring length -RR12S 12m measuring length



**Single vertical roller (Optional)**

**OPTIONAL**

Single vertical roller, height of 250 mm. to prevent falls, max 2 each 1,5 mt.



**Pair of vertical rollers (Optional)**

**OPTIONAL**

Pair of containment vertical rollers, made in steel, max 2 pairs for each element 1,5 mt long.