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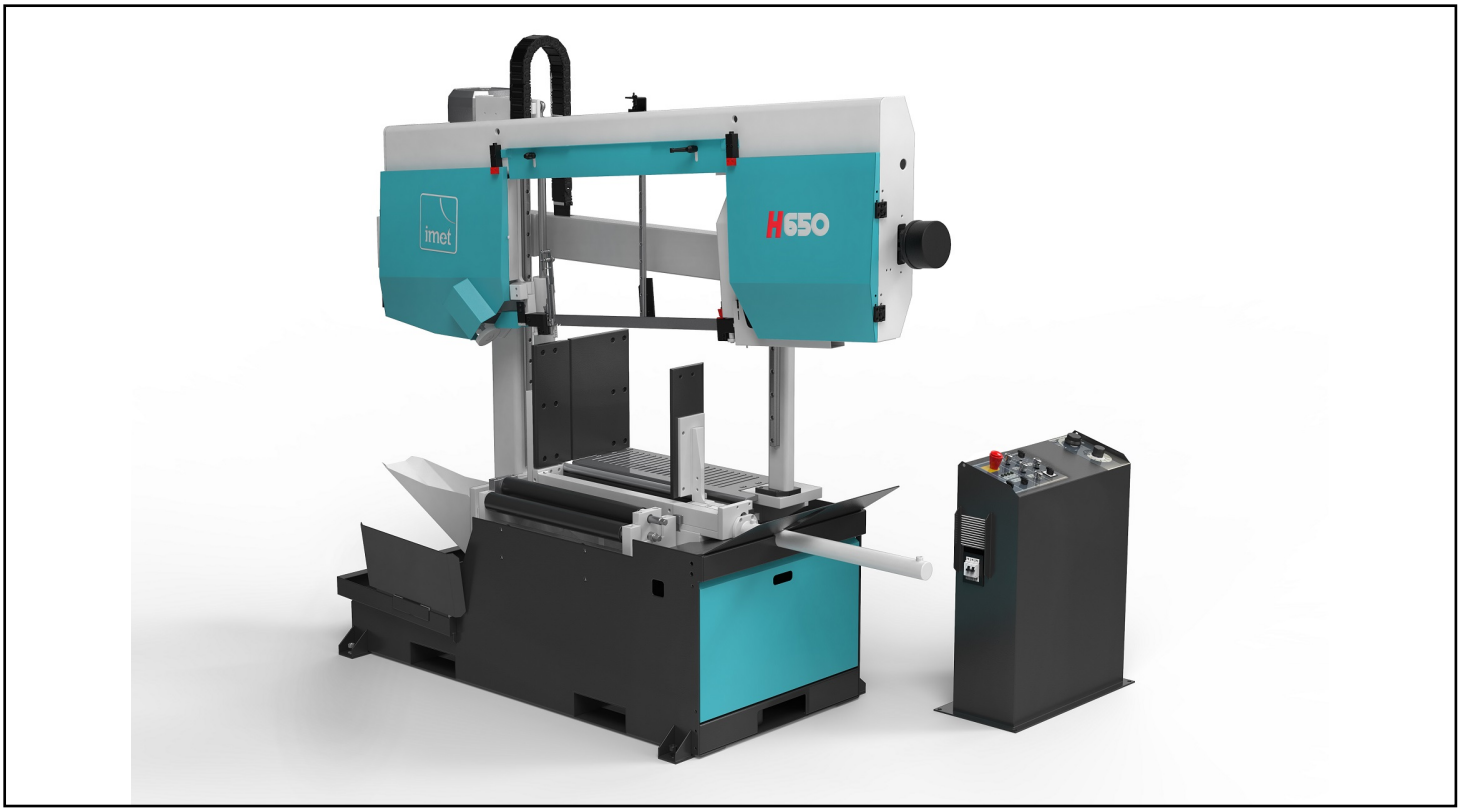
MACHINE MODEL

H 650

Semiautomatic double column straight cut bandsaw

Short description

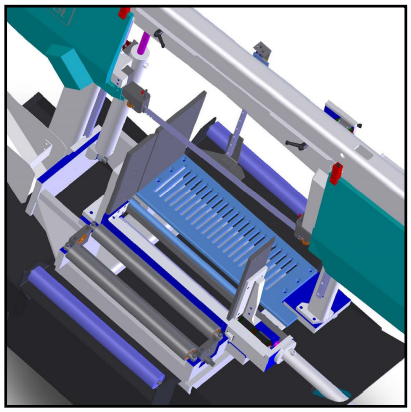
H 650 is a double column, semiautomatic bandsaws for straight cut of tubes, pipes, profiles, beams and and solids (up to 280mm) suitable for carpentries, steel works factories, structural steels and tubes producers.The machine has a wide working area to support material before and after the blade and electrowelded sawframe structure with hydraulic descent.



Cutting capacity at 0°	Round: 510mm - Square: 480mm - Rectangular: 650x450mm
Cutting capacity with bundle device	Max: 650x450mm - Min: 130x20mm
Cutting capacity at 0° for solids (C45)	280mm (350mm con motoriduttore 4KW e lama 41mm)
Minimum scrap-end with bundle device	250mm
Fixed vice full stroke	650mm
Blade motor	3KW (4kw in option)
Blade speed	15-100 m/min
Blade size	5320x34x1.1mm (option: blade h. 41mm x 1.3mm)
Blade tension	1900kgf/cm2
Blade inclination	6°
Weight	2100kg
Machine size	1895x2870x2300mm

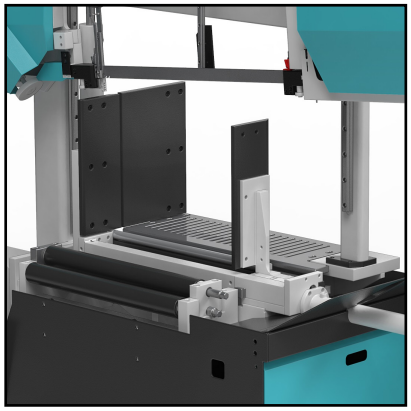
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Features



Wide working area

The machine is equipped with a wide working area to have full material support while cutting (even on solid material and big diameters and sections). To ease material loading the machine has 2 free rollers before the blade (one more lifting roller is optional); after the cutting line the material is supported by a perforated plate..



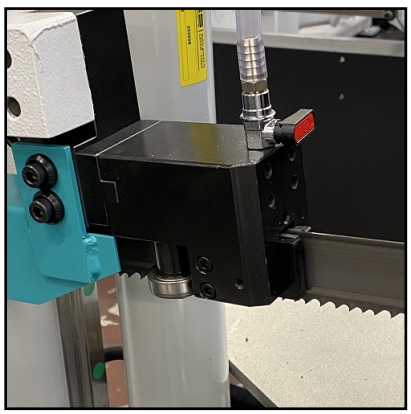
Fixed vice

The bandsaw's fixed vice has an hydraulic cylinder with 650 single full stroke that provides for a complete an and accurate material blocking. All movements are on recirculating ballscrews. The vice is equipped as standard with a pressure regulator positioned on the hydraulic power unit.



Electrowelded sawframe

The sawframe as an electrowelded, rigid structure with hydraulic descent (the user can regulate pression and speed by selectors on mobile consolle); the bow slides on double linear guides and recirculating ballscrew metal pads. Thanks to the rigid structure and the perfectly balanced sawframe descent the machine can keep a constant feeding rate while cutting; also vibration are reduced. All this details allow to have a perfect cutting process on a wide range of materials and diameters.



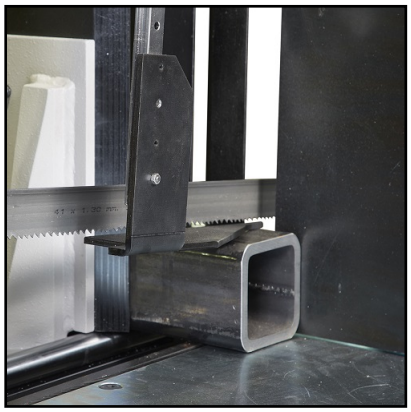
High blade tension

Imet bandsaws have a high blade tension to avoid failuers and breakages during the cycle: H 650 blade is quipped with control microswitch for immediate stop if the blade loose tension. Band allignment is provided by hard metal bladeguides sliding on linear guides with supplementary bearings.



Inclinated blade

All Imet bandsaws for structural steels and profiles have an inclinated blade (6° for H 650) that optimize cutting cycle and feed rate: the band is never is never parallel to the working plate and the material so that the machine is always working only on a material section (even on solid plates or square tubes) even while doing the end-cut. This gives relief to the blade, avoiding stress, increasing performances and extending blade-life.



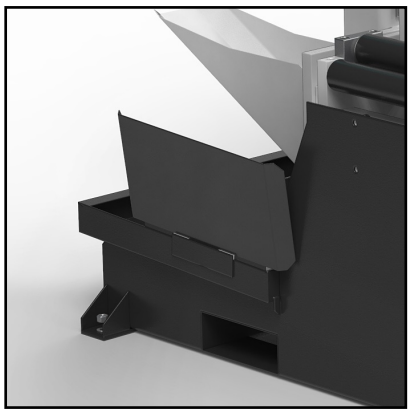
Material detection device

The machine has a mechanical material detection device that goes down together with the bow and allows to have fast approach to the material and detect the first-cut point. This allows to have a fast descent while not cutting, when the device "touches" the material the machine uses the feed rate set by the operator optimizing the cutting time.



Mobile panel control

H 650 is aquipped with a mobile panel consolle with control LED for blade tensioning, blade guard opening, motor thermal block and electrical tension. Through the coontrol the operator can select the cutting mode he wants between 3 different end-cutting modes: bow goes up with blade turned off, the blade still on when the sawframe came back in original position, the sawframe doesn't go up when cycle ends.



Chips tray and brush

The machine has a standard motorized brush with nylon teeth (also available with metal teeth) to remove chips from the blade while in the back of the machine there's a tray to collect all the remainings (transported by the coolant liquid during the process).

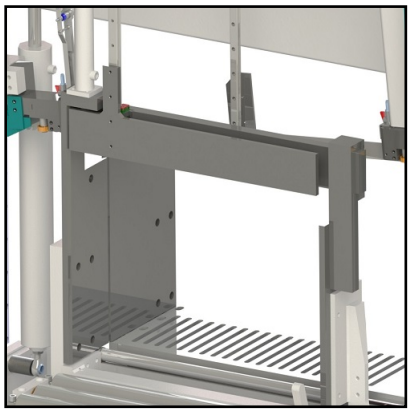
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High performances pack — OPTIONAL

Art. A-0018

It's possibile to optimize cutting performances both on solids and profiles (big diameters and increase capacities for solids from 280mm to 350mm) by adding the pack with: blade motoreducer with 4KW power, 41mm blade height and hydraulic tensioning system.



Bundle cutting device — OPTIONAL

Art. A-0006

Bundle cutting device is hydraulic driven with horizontal adjusting mechanical device that gives the possibility to cut a pack of tubes, pipes or bars. Maxmimum size is 650x450mm, minimum 130x20mm.



Laser ray — OPTIONAL

Art. A-0021

The laser ray (installed under the sawframe and descending together with the bow) points the cutting line on the material, giving the user the possibility to see where the machine's going to cut.



Minimal lubrification — OPTIONAL

Art. 000947-09

Minimal lubrification system with nozzle and 1.3l tank.

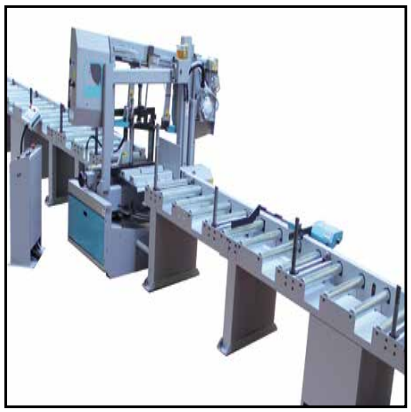
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Loading and unloading roller table — OPTIONAL

Art. RTSKS652

Free roller table that can be applied to both loading or unloading side. The table is equipped with 1 supporting leg and steel rollers. Connection element are not required with H 650 (machine has already one roller on each side to attach the table). Single module is 1.5 meter long with 1500kg capacity.



Loading side motorized roller table — OPTIONAL

Art. RTR LOADING

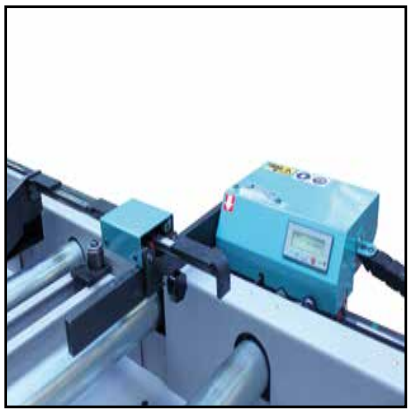
Loading side motorized roller table with mobile controller with easy button system to start/stop the system. Movement is provided by a brushless motor with rack and pinion; motoreducer managed by inverter. Lengths available: 3, 6, 9 and 12 meters.



Unloading side motorized roller table — OPTIONAL

Art. RTR UNLOADING

Unloading side motorized roller table with mobile controller with easy button system to start/stop the system. Movement is provided by a brushless motor with rack and pinion; motoreducer managed by inverter. Lengths available: 3, 6, 9 and 12 meters. Unloading table can be ordered only together with loading RTR.

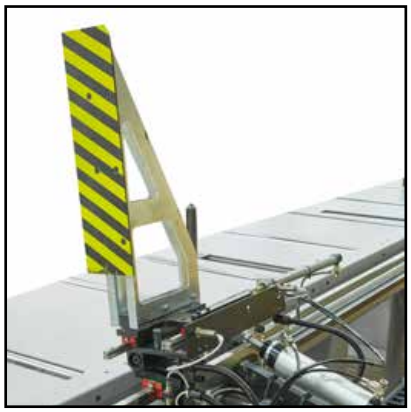


Digital reading length stop with manual position — OPTIONAL

Art. RL

Only suitable with RTR roller tables, the RL has manual positioning with digital reading (by LCD display) length stop. The system is equipped with automatic slowdown sensors. Availbale: 3, 6, 9 and 12 meters.

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Motorized length stop — OPTIONAL

Art. RR

Only suitable with RTR roller tables, the RR system has numerical control measurment functiongin with fast approaching and automatic slowdowns by material detection. Availbale: 6, 9 and 12 meters



Pair of vertical rollers — OPTIONAL

Art. RI-W60

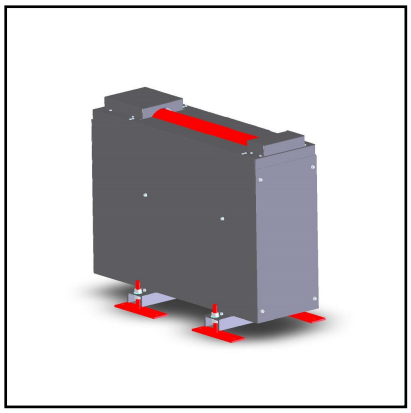
Piar of vertical rollers to prevent material falls, made in steel. Max. 2 pair on a single RTS table.



Single vertical roller — OPTIONAL

Art. RI-300

Single vertical roller to prevent material falls, made in steel. Max. 2 element on a single RTS table.



Motorized lifting roller — OPTIONAL

Art. A-0076

Compatible with all the saws of the KS and H line, the single motorized piece lift roller can be used both with other roller tables and alone to facilitate the loading of the material. The device is hydraulic and is equipped with a control panel and independent control unit.