MACHINE MODEL

XSMART4

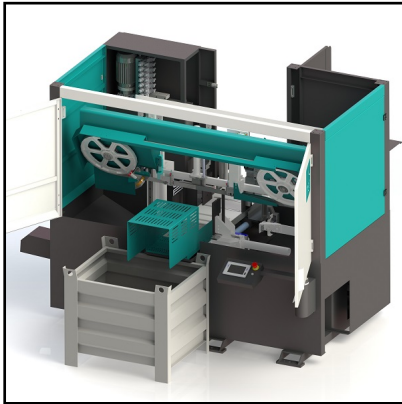## Automatic double column bandsaw for solids

Short description

XSMART4 is an automatic double column bandsaw suitable for straight cut of solids up to 360mm diameter, the ideal working tool for professionals and workshops who look for the best efficiency and productivity on an easy-to-use and affordable machine. XSMART4 is equipped with 4KW motor reducer, blade height 41mm, 7" touch screen display and integrated feeder.

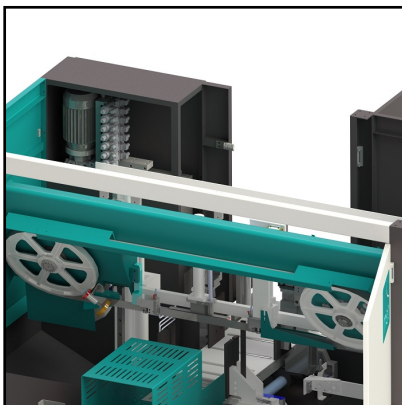|	
Cutting capacity at 0°	Round 360mm - Square 360mm - Rectangular 360x360mm
Cutting capacity with solids (C45)	350mm
Cutting capacity with bundle device	Max 360x250mm - Min 130x10mm - Minimum scrap-end 210mm
Minimum cutting length	10mm
Minimum scrap-end	100mm (in option 40mm)
Blade size	5050x41x1.3mm
Blade inclination	0°
Blade motor power	4 KW
Blade speed	15-100 m/min
Feeder length and single stroke	500 mm
Feeder motor power	0.75 KW
Hydraulic unit motor	0.75 KW
Hdraulic unit tank capacity	56 l
Coolant tank capacity	130 l
Size - working table height - Weight	3000x2600x2200mm - 890mm - 2800kg

Features

User safety and easy maintenance

XSMART4 bandsaw gives the user maximum protection and safety while in use thanks to the full metal carters system that protect all the moving parts. and two tunnel on loading and unloading that prevent access (while in action) to the cutting area. Once the machine is put in stand-by, the operator can easily access to all the internal components thanks to big frontal, laterial and back doors.
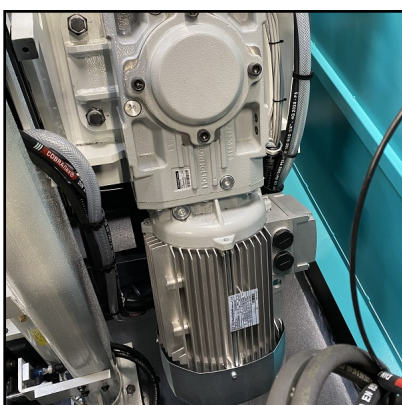

Touch screen display

XSMART4 is equipped with a 7" touch screen display with easy and intuitive interface: the display gives full control of all the main machine settings (like manual movement of XSMART axes) and allows to easily create cutting programs and launch a working cycle with just few clicks.
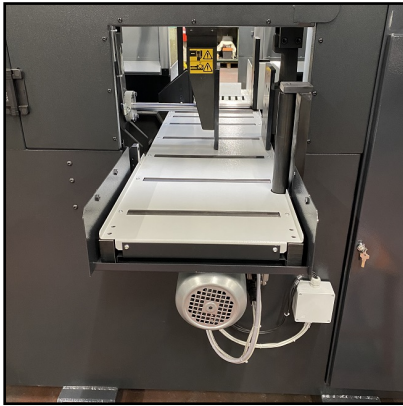

Sawframe

XSMART4 sawframe has an elctro-welded rigid structure on a double column which helps reduce vibrations and binding during descent. Like many IMET band saws, its blade is canted (30°) to reduce the band strain and have better and constant sawframe descent while cutting with optimized performances on every material, profiles or solid.

High power motoreducer

XSMART4 uses a high power, high efficiency and reliable Bonfiglioli motoreducer by 4 kw for its blade, which has 41 mm height with hydraulic tensioning system.
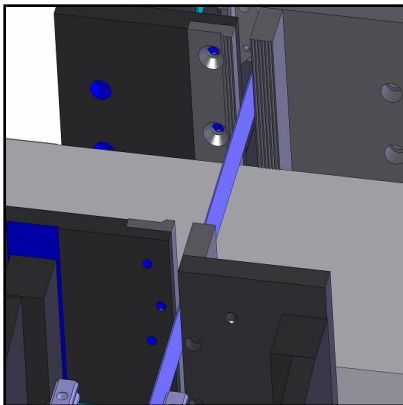
Integrated feeder

XSMART feeder has a single stroke of 500mm with integrated roller table for material support. **Ball screw feeder** and electric motor with inverter, portal structure that ease material movement and loading.
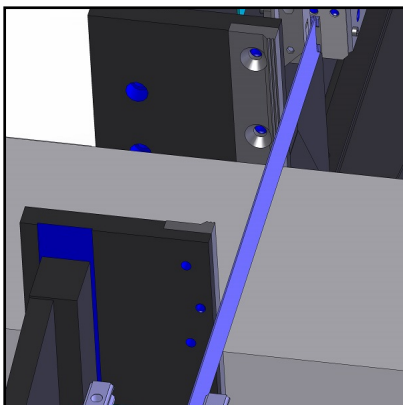

Vice

Blocking vice provides perfect material locking and is equipped with an innovative system that allows opening of all 4 jaws independently; this helps to load even not-linear bars. The user can choose between two main configurations for the vice: 4 jaws (2 placed before the blade and 2 after) or with 2 jaws placed only after the blade.
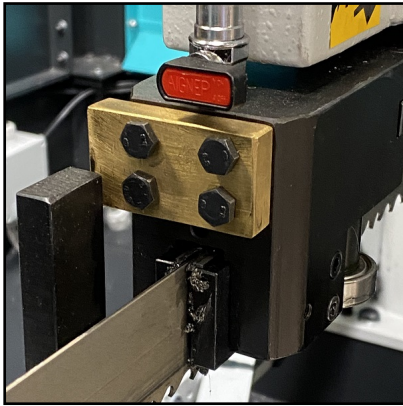

Vice: 4 jaws (2 before the blade and 2 after)

This configuration presents 4 jaws: 2 lock the material before the blade and 2 after the cut. We strongly suggest this configuration in case the user wants to use hard metal blade (WIDIA) so that the stability isn't effected during the cutting process. Minimum scrap end: 100mm.
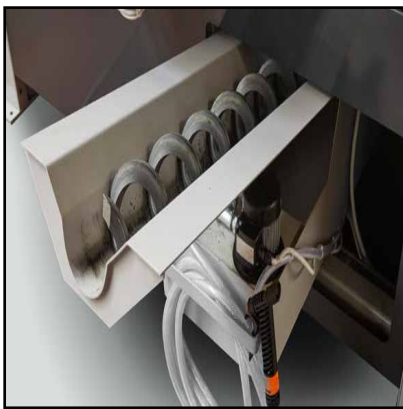

Vice: 2 jaaws

The user can select this configuration with 2 jaws on the vice placed only after the blade so that the material is locked only after the cut line. This configuration allows reduction of the scrap end to just 40mm.

Blade alignment

Hard metal blade guides with bearings for optimal blade alignment during the cutting process. The mobile blade guide is kept automatically next the cutting point.

Chip conveyor

XSMART4 mounts a standard chip conveyor with lateral exit that eases the cutting process by removing (together with a brush on the blade) all the remaining residue that lays in the cutting area.

Industry 4.0 Ready - SAWfactory (Optional)   OPTIONAL
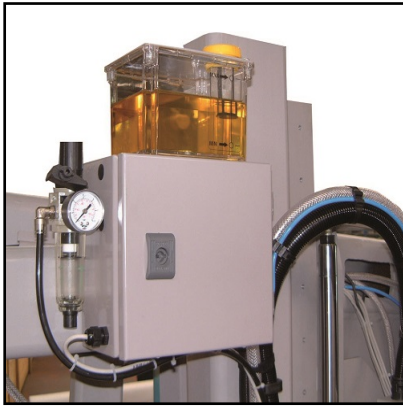
IMET automatic machines can be connected to the company network and be used remotely thanks SAWFACTORY and modem. SAWFACTORY is a dedicated software which allows users to manage the cutting process from an office desk by setting cutting programs and monitoring the workflow. All thanks to the dedicated web app. The software can also connect to assistance from our technicians remotely. Discover SAWFACTORY: https://bit.ly/2RuxHuX

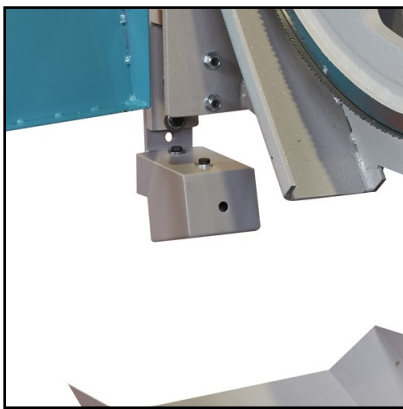## Deluxe Kit (Optional)   OPTIONAL

Deluxe Kit - advanced option dedicated to users that want to optimize their working performances and get the best from their processes. It includes the blade deviation control and the SMART START system that helps to save time while using the machine.
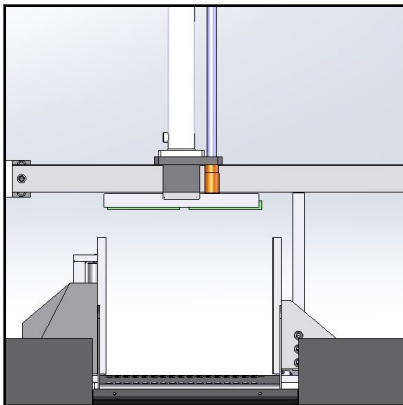
Minimal lubrification system (Optonal)   OPTIONAL

It is possible to fit, for all Imet machines, the minimal lubrication system, it avoids the dispersion of refrigerant liquid typical in the use of emulsifiable oil, the life of the blade is not in any way affected. Minimal lubrication system for XSMART4 has a 1.3 l tank capacity.
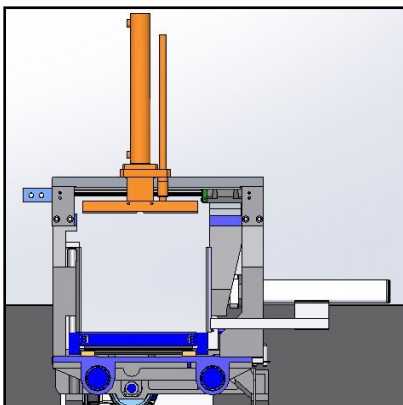

Laser ray (Optional)   OPTIONAL

Laser that helps the user detect cutting line on the material before sawframe descent, easing the operator's workflow.

Bundle cutting device (Optional)   OPTIONAL

It's possible to apply the hydraulic device for bundle cutting on the XSMART4, made by a vertical pressure on the feeder vice and another on the fixed one. Cutting capacity with bundle device mounted is reduced: max 360x250mm, min 130x10mm, scrap-end 210mm.

How to use bundle device (Optional)   OPTIONAL

The device includes two vertical cylinders with 2 horizontal metal bars placed transversely. To use it with a minimal scrap-end of 100mm (or 40mm if the user chooses a different configuration for the fixed vice), the vertical device on the feeder vice must be removed, allowing full capacity machine use.

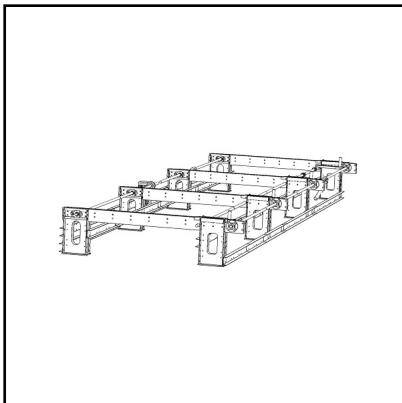## Roller table for loading/unloading (Optional)   OPTIONAL

Loading and unloading roller table for XSMART4 with free rolls and 2 vertical rolls. Single module length of 2m.

Roller table for bundle device (Optional)   OPTIONAL

Loading and unloading roller table with containment vertical roll and adjustable width. Single module length is 2m. This model is compatible with bundle cutting, also equipped with trail to collect remnants and liquid.

Automatic warehouse and loading system (Optional)   OPTIONAL

Automatic bar warehouse driven by the saw control software where the bars are automatically fed, consisting of supporting surfaces with a drag chain and loading stations (from 5 to 15). The supporting surfaces can be easily moved thanks to a modular structure. The feeder is provided with a system of blockage of the bar and with vertical aligning rollers and gearboxes to move the drag chains. The system is driven by the software.