MACHINE MODEL
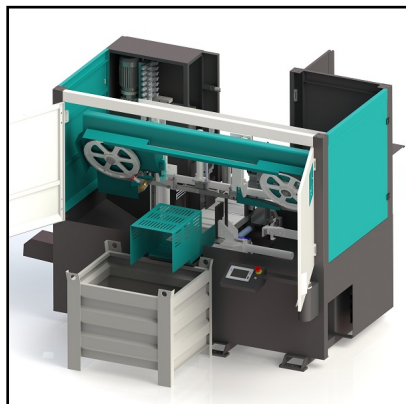
# XSMART4

## Automatic double column bandsaw for solids

Short description

XSMART4 is n 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 motoreducer, 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 | 2.2 KW |
| Hdraulic unit tank capacity | 54 l |
| Coolant tank capacity | 130 l |
| Size - working table height - Weight | 3000x2600x2200mm - 890mm - 2800kg |

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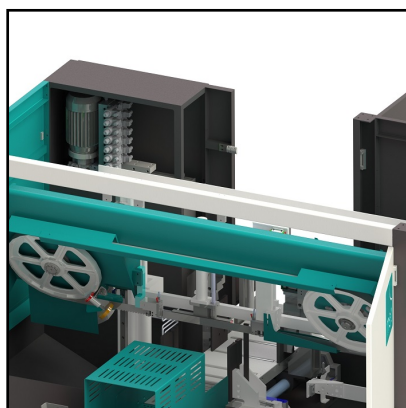imet
sawing technology

## 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 on 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. Downfeed speed view (in mm/min) is supplied as standard.
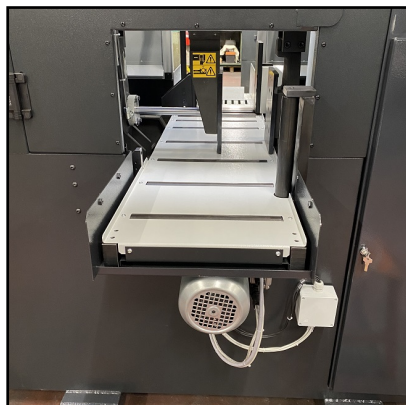


### Sawframe

XSMART3 sawframe has an elctrowelded rigid structure on double column which helps reduce vibrations and binding during descent. Like many IMET bandsaws, 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.
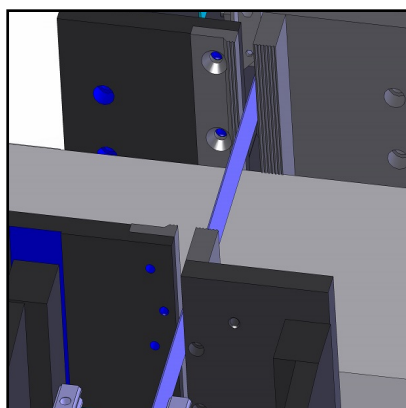
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## Integrated feeder

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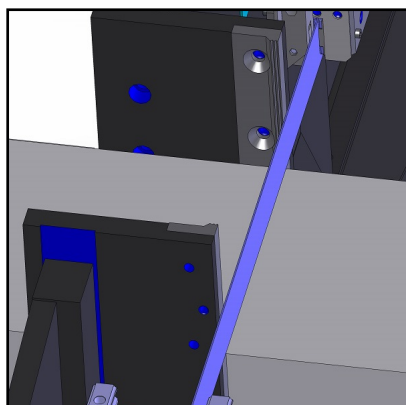


## Vice

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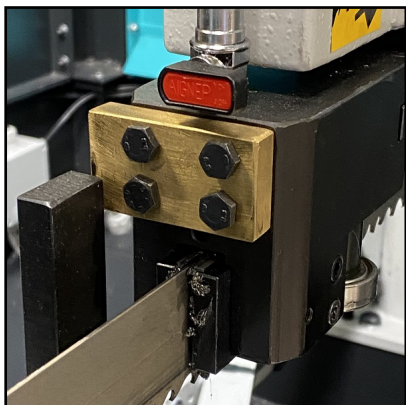


## Vice: 4 jaws (2 before the blade and 2 after)

This configuration presents 4 jaws: 2 lock the material before the blade and 2 after the cut. We strongly ma suggest this configuration in case the user wants to use hard metal blade (WIDIA) so that the stability isn increased during the cutting process. Minimum scrap end: 100mm.
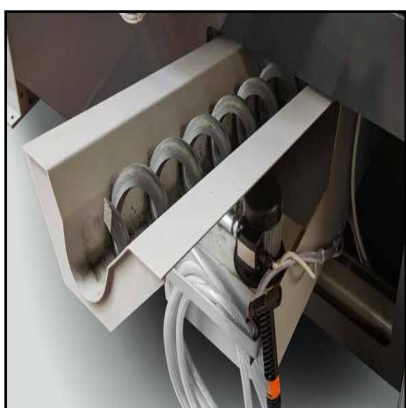


## Vice: 2 jaaws

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 to reduce the scrap end to just 40mm.

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## Blade alignment

Hard metal blade guides with bearings to have an optimal blade allignment during the cutting process. The mobile blade guide is kept automatically next the cutting point.

## Chips conveyor

XSMART4 mounts a standard chips conveyor with laterial exit that ease the cutting process by removiing (together with a brush on the blade) all the remaining and residuals that lays in the cutting are.

## 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 to manage the cutting process from the office desk by setting cutting programs and monitoring the workflow thanks to the dedicated web app. The software also allows to also receive assistance by our technicians remotely. Discover SAWFACTORY: https://bit.ly/2RuxHuX feature is mandatory when the configuration with jaws only after the blade is selected)

## Deluxe Kit (Optional)                    OPTIONAL

DELUXE KIT in an advanced optional dedicated to users that wants to optimize their working performances and get the best from their processes. It includes: the BLADE DEVIATION CONTROL that allows to cut always with the perfect tollerance up to the end of the band's life; SMART SMART system for optimization of the trim cut (the user can choose the trim cut length or start directly with the created program without trim cut); fixed vice with jaws opening on both sides thanks to a supplementary hydraulic cylinder.
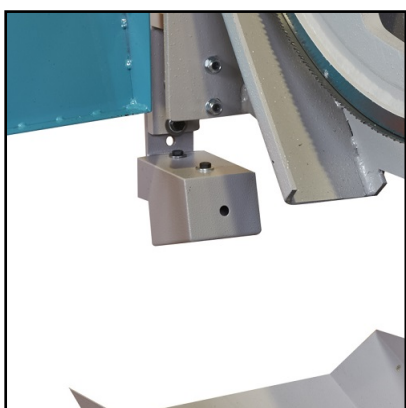
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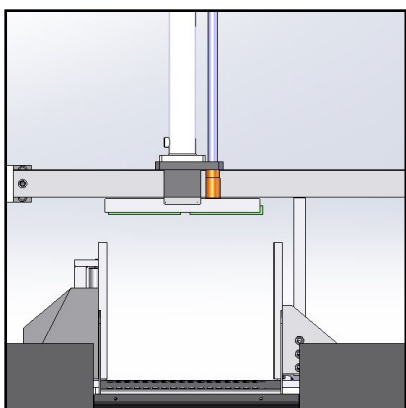## Minimal lubrification system (Optonal)                                    OPTIONAL

It is possible to require, 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 lubrification system for XSMART4 has a 1.3 l tank capacity.



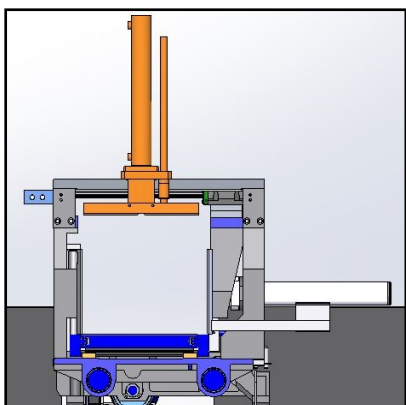## Laser ray (Optional)                                                      OPTIONAL

It's available a laser that helps the user to detect the cutting line on the material before the sawframe descent, easing the operator worflow.



## Bundle cutting device (Optional)                                          OPTIONAL

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



## How to use bundle device (Optional)                                       OPTIONAL

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

## Roller table for loading/unloading (Optional)                                    OPTIONAL
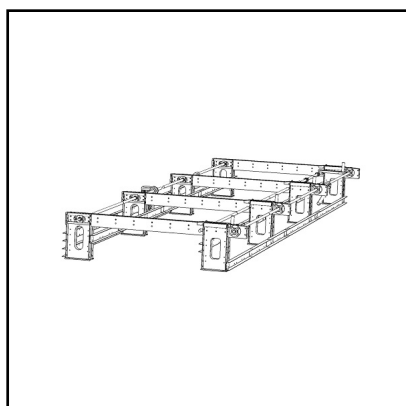
Loading and unloading roller table for XSMART4 with free rolls and 2 vertical rolls. Single module length 2m.

## Roller table for bundle device (Optional)                                         OPTIONAL

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