

# CUTLAM<sup>®</sup>3.1



**Automatic and programmable cut-off machine with 2 or 3 motorised axes\*, equipped with a 300 mm Ø grinding wheel.**

CUTLAM<sup>®</sup>3.1 is the ultimate development of LAM PLAN and is the most advanced automatic 300 mm Ø cut-off machine in its market sector.

**/ Largest cut-off area on the market of 300 mm Ø cut-off machines**

CUTLAM<sup>®</sup>3.1 offers an unprecedented cutting capacity, the machine table can move forward and backward automatically over a distance of 300 mm. New, the cutting wheel has an automatic and linear top to bottom movement. With this linear movement, this new-generation of cutting machine offers a 140 mm space under the grinding wheel. CUTLAM<sup>®</sup>3.1 has a metal canopy, which includes opening side to cut bars.

**/ Easy to use**

CUTLAM<sup>®</sup>3.1 is extremely simple to operate with its large touch screen (5.7 inches) and intuitive interface. The 2 motorised axes of CUTLAM<sup>®</sup>3.1 (the 3rd axis is optional) can be controlled manually by two joysticks located near the control screen. The internal memory of this component makes it possible to save over 300 cutting programs, which can also be imported or exported by the means of a USB port.

**/ A great variety of possible parameter settings**

The rotation speed of cutting wheel and the feed speed of the axes can be programmed so as to prevent any deterioration or deformation of the samples to be collected. 3 cutting modes are possible: manual (joysticks) semi-automatic and automatic. The movements of the axes can be continuous or sequenced.

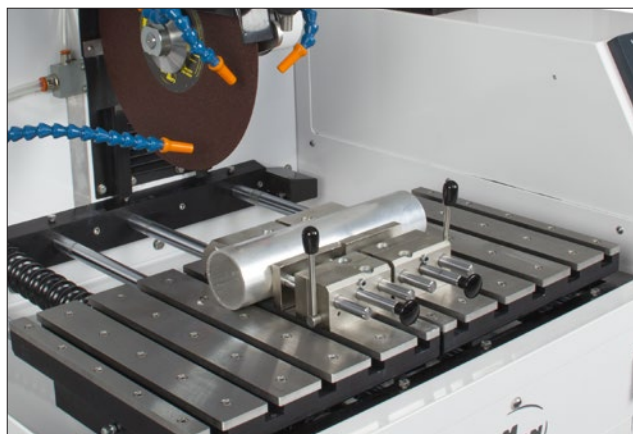
CUTLAM<sup>®</sup>3.1 is also equipped with **a smart motion function.**

The definition of a torque acceptable for the cutting wheel, with the touch screen will automatically regulate the feed speed of the axes.



*\*option 3<sup>rd</sup> Axis (X) motorised*

This option makes it possible to cut materials with different hardnesses (e.g. steel with an HVOF coating) without having to modify the feed speed. This option makes it possible to avoid long and tiresome testing campaigns to define the correct feed speed.



Large stainless steel clamping table 574 x 298 mm.  
Longitudinal stroke 300 mm.



X axis table automatic or manual, stroke 150 mm.

**/ Many cutting possibilities are offered**

This automatic cut-off machine makes it possible to cut vertically (along axis Z), over a maximum distance of 200 mm, or to cut horizontally along axis Y, over a maximum distance of 300 mm.

It is also possible to combine the two Z and Y movements. Thus, your machine is able to perform cutting passes with a pass number and depth, which can be programmed.

This machine can optionally be equipped with a manual or automatic X axis for cutting parallel sections.



Quick positioning with joysticks.  
Touch screen with graphical interface.



Support cabinet with integrated cooling system 60 litres.

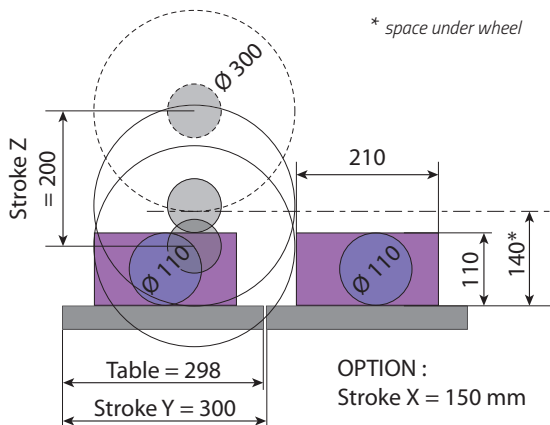


Positioning laser.

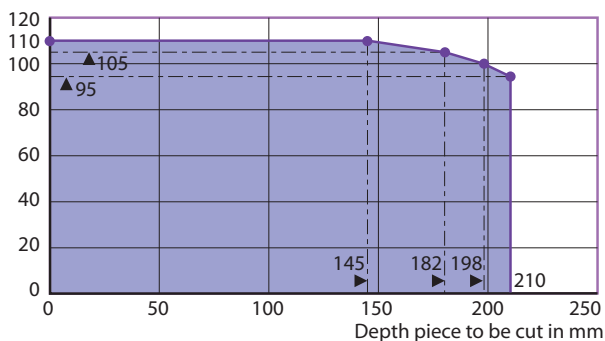
**/ Your safety, our priority**

An interlocking device maintains the cover in its closed position when the cutting wheel is rotating. When the cover is open, any axis movement (controlled by the joysticks) is only possible when the technician presses on the "man present" button.

**/ Cutting capacity CUTLAM 3.1**



Height piece to be cut in mm



**/ Technical data**

Wheel Ø	250 à 300 mm
Shaft Ø	25,4 mm
Space between the cutting wheel and table	140 mm (with 300 mm Ø cutting wheel)
Max cutting capacity	Ø 110 mm
Table	Stainless steel 574 x 298 mm
Vertical movement - wheel	200 mm
Longitudinal movement - table	300 mm
Transversal movement	150 mm (option)
Cooling	Recirculation system, 60 liters decantation tank, 2 chambers, Input 100 µm filter, 800 liters/h pump driven by the machine
Motor power	3,8 kw
Rotational speed	from 1000 to 4000 rpm
Cutting mode	Manual, semi-automatic, automatic
Feed speed control	From 0.1 to 20 mm/s, continuous or sequenced. Intelligent motion: automatic check of the feed motion according to the resulting torque on the grinding wheel motor
Lighting	LED light
Protection	Cover secured by interlocking Man present button for operating the axes when the cover is open
Voltage	400 Volts - 50 Hz (3 phases + earth)
Dimensions - L x H x P	900 x 700 x 1000 (H. canopy open 1100 mm)
Weight	210 kg
Reference	60CT30100

**/ Available accessories**

Double independent vice (left and right) with a screw-type tightening system	60 CT20040
Double independent vice (left and right) with a fast tightening system	60 CT20020
Cabinet for CUTLAM <sup>3.1</sup>	60 M031000

**/ Options**

Manual transverse table (X axis), stroke: 150 mm	60 CT31A20
Automatic transverse table (X axis), stroke: 150 mm	60 CT31A30
Laser positioning device	60 CT31A10