

CUTLAM[®]3.1

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

The CUTLAM[®]3.1 is the ultimate development of LAM PLAN and is the most advanced automatic Ø 300 mm cut-off machine in its market sector.

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

The CUTLAM[®]3.1 offers an unprecedented cutting capacity, the machine table can move forward and backward automatically over a distance of 300 mm. New, the cut-off 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 cutting wheel. The CUTLAM[®]3.1 has a cover which includes opening side to cut bars.

/ Easy to use

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

/ A great variety of possible setting configuration

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

The CUTLAM[®]3.1 is also equipped with **the smart motion function**: the definition of an acceptable torque for the cutting wheel, with the touch screen will automatically regulate the feed speed of the axes.



**Optional motorised 3rd Axis (X)*

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 allows to avoid long testing campaigns to define the correct feed speed.



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 stroke of 200 mm, or to cut horizontally along axis Y, over a maximum stroke of 300 mm.

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

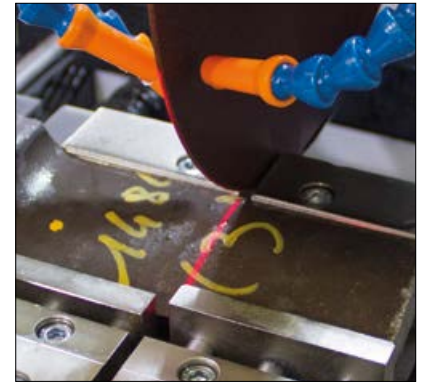
This machine can optionally be equipped with a manual or automatic X axis for cutting parallel sections.



Quick positioning with joysticks.
Touch screen with graphical interface.



Support cabinet with integrated cooling system (60 litres).

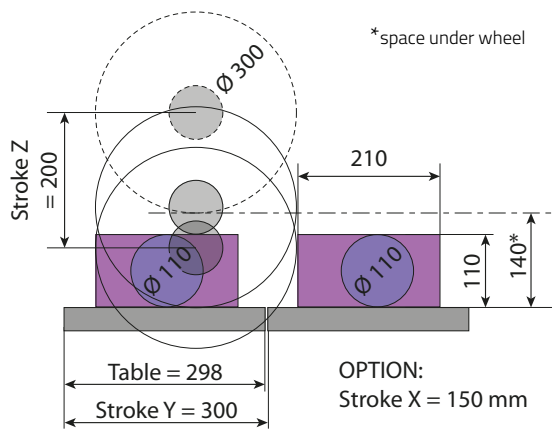


Positioning laser.

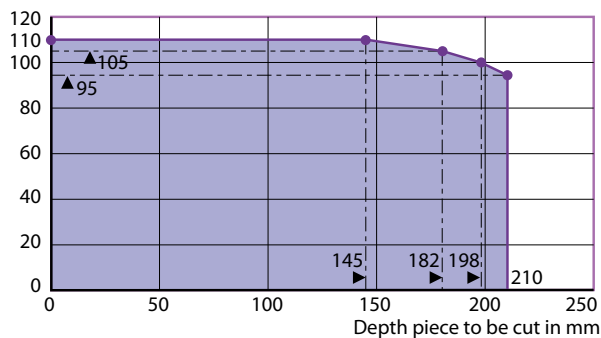
/ Your safety, our priority

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

/ Cutting capacity CUTLAM® 3.1 - Ø 300 mm



Height piece to be cut in mm



/ Technical Data

Wheel Ø	250 to 305 mm
Shaft Ø	25,4 mm
Max cutting capacity	Ø 110 mm
Space between the cutting wheel and the table (with wheel Ø 300 mm)	140 mm
Table	Stainless steel 574 x 298 mm
Longitudinal movement - table	300 mm
Vertical movement - wheel	200 mm
Transversal movement	150 mm (optional)
Motor power wheel	3,8 kw
Cooling/Lubrication	Recirculation system, 60 litres decantation tank, 2 chambers, Input 100 µm filter, 800 L/hour pump driven by the machine
Wheel rotation 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 cutting wheel motor
Lighting	LED strip
Protection	Cover secured by interlocking Man present button for operating the axes when the cover is open
Voltage	400 Volts - 50 Hz (three-phase + ground)
Dim. W x H x D	900 x 700 x 1000 (H. cover open 1100 mm)
Weight	210 kg
Reference	60CT30100

/ 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®3.1	60 MO10000

/ Options

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