

# OXYTOME<sup>2</sup> PLASMATOME<sup>2</sup>

Automatised thermal cutting machine, high-performance, robust, versatile.



# OXYTOME<sup>2</sup> / PLASMATOME<sup>2</sup>

Lincoln Electric has always wanted to offer its customers the best thermal cutting machines for oxycutting and / or plasma processes. Having identified that they pay particular attention to the following key factors: Robust, flexible, cost-effective machine that is quick and easy to install, produces excellent cutting quality, safe and low cost of ownership Lincoln Electric has therefore developed OXYTOME<sup>2</sup> and PLASMATOME<sup>2</sup> to complete its range of cutting machines.

## HPC digital process 2 and Advanced console



The most intuitive and efficient digital control on the market.

It fully manages the cutting machine: from the trajectory to the processes.

The ergonomics of the HMI and its large 19" touch screen make it a user-friendly and easy-to-use tool.

The Advanced swivel console is equipped with a joystick, ergonomic manual controls and a maintenance mode to simplify the use of the machine.

Depending on the configuration, the Advanced console can be positioned to the left or right of the machine.



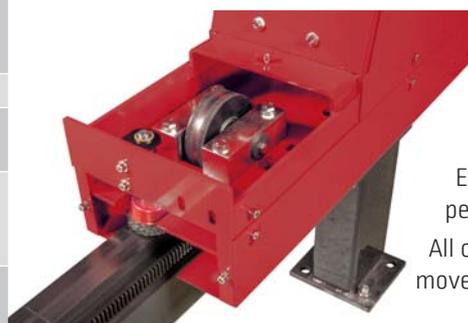
### Hardware and Communication:

- EtherCAT bus management.
- Industrial computer.
- SSD hard drive.
- Real time system.
- USB, NETWORK and TELESERVICE.



### Main characteristics:

Cutting width	Size 15 to 45 (1 500 to 4 500 mm)
Cutting length	· Base 3 000 mm · Optional extension with 1 500 or 3 000 mm element · 32 m Max
Speed	15 m/min
Repositioning accuracy	0,1 mm
Number of tools	Total of 6 tools: · up to 6 oxy torches · up to 2 plasma
Motorisations	Brushless EtherCAT 750W with absolute encoders



### Machine base

The beam is mounted on two large bed bases giving the machine a great stability and rigidity. Each bed base is equipped with a permanent rail brushing system. All contribute to fluidizing machine movements for optimum cutting.



## Transverse guiding

The beam is equipped with a double ball-bearing rail to smooth machine movements and thus optimize cutting quality. The driving is carried out thanks to a rack oriented opposite side of the process for an optimal protection.

## Drive units of the machine

Geared motors with 750W brushless absolute encoders with low backlash and maintenance-free equipped with 30-tooth gear wheels with quick-change system.

The assembly is driven by the latest generation of communication speed variator EtherCAT and guarantees a fluidity of movement to achieve high levels of cutting quality.

With absolute encoder technology, the machine is ready to produce as soon as it is turned on, and production restart in the event of incidents or power failures are simplified.



## Safety and compliance

Safety devices (photoelectric cells and emergency stop buttons) ensuring optimum protection for the operator.

The machine meets the current machine directive 2006/42/EC.

It is also interconnected to its environment: process and treatment of cutting fumes.

Intervention mode provides easy access to cutting tools.

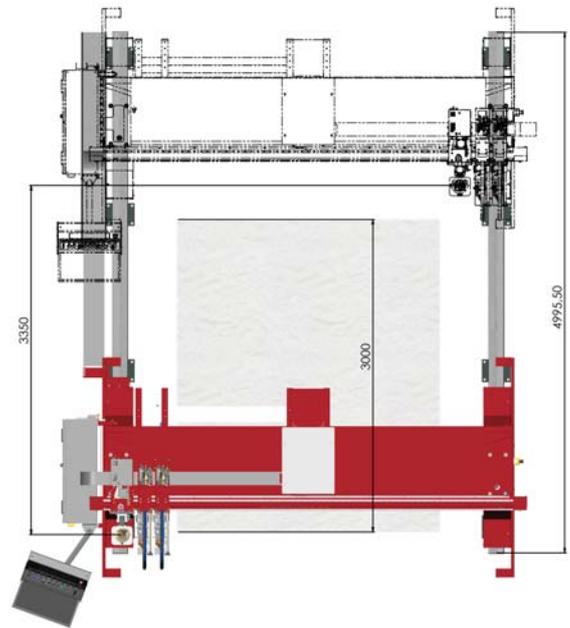
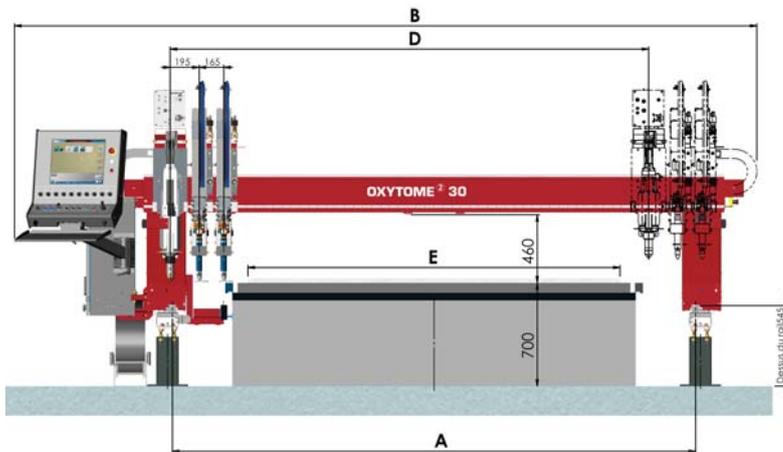
## Longitudinal rails

The longitudinal guide consists of robust rails and racks oriented opposite side of the process for better protection.

Modular, robust and practical to mount even on imperfect floors.



## Dimensions



- A** : Distance between rails.  
**B** : Overall width.  
**C** : Overall dimensions with 2 corridors of 800 mm.  
**D** : Stroke of the 1st tool holder without additional torch holder.  
**E** : Sheet width.

Machine	A	B	C	D*	E**
T 15	2 015 mm	3 500 mm	5 100 mm	2 065 mm	1 500 mm
T 20	2 515 mm	4 000 mm	5 600 mm	2 565 mm	2 000 mm
T 25	3 015 mm	4 500 mm	6 100 mm	3 065 mm	2 500 mm
T 30	3 515 mm	5 000 mm	6 600 mm	3 565 mm	3 000 mm
T 35	4 015 mm	5 500 mm	7 100 mm	4 065 mm	3 500 mm
T 40	4 515 mm	6 000 mm	7 600 mm	4 565 mm	4 000 mm
T 45	5 015 mm	6 500 mm	8 100 mm	5 065 mm	4 500 mm

\* Transverse stroke with 1 tool holder.  
 For several tool holders: remove 185mm for the 1<sup>st</sup> additional tool holder and 165mm for the following ones.

\*\* As a general rule, tables with pneumatic activators allow to cut on the width of sheet indicated.  
 It is important to check beforehand the compatibility of the table with machine width.

## Mains options

Tube cutting, automatic indexing up to 6 torches, 2nd numerised transversal axis, automatic lubricators, cutting table lighting, positioning laser, air conditioning, air cooling, micro-percussion marker (Sic), pneumatic or micro-vibration marker (Wen), thermal protections, Visio Process, Teleservice, aerial chains, pneumatic drill unit, electric clamping...



# OXYTOME<sup>②</sup> / PLASMATOME<sup>②</sup>

Equipment  
for thermal cutting



## Equipment for plasma process



### FLEXCUT 125 CE

Cutting and marking air Plasma installation with inverter technology. The torche LC125 allows to increase speed and quality of cut as well as the lifetime of the components

FLEXCUT 125 CE	125 A @ 100% - Cutting and marking	
<b>Performances:</b> <b>Mid plate /</b> <b>Plate edge</b>	Steel	30 mm / 45 mm
	Stainless steel	20 mm / 40 mm
	Aluminium	20 mm / 40 mm
<b>Numerical torch holder THD</b>		160 mm, 2 m/min
<b>Plasma Bi-torches</b>		Yes



### NERTAJET HPi

High precision Plasma cutting and marking system multiplying the benefits and savings thanks to its advanced features:

- CYCLE BOOST and INSTANT MARKING to reduce production time.
- MASTER HOLE and CDHC to increase cutting quality.

<b>Numerical torch holder THDi</b>	160 ou 350 mm, 15 m/min
<b>Plasma Bi-torches</b>	Yes
<b>Dry cut</b>	CPM400
<b>High power cut with dry process or water vortex**</b>	CPM Wi
<b>Torch tilting following X*</b>	Yes
<b>Torch tilting following X and Y*</b>	Yes

NERTAJET HPi	A	150 A @ 100%	300 A @ 100%	450 A @ 100%	600 A @ 100%
<b>Performances:</b> <b>Mid plate /</b> <b>Plate edge</b>	Steel	25 mm / 40 mm	35 mm / 70 mm	50 mm / 100 mm	50 mm / 100 mm
	Stainless steel	25 mm / 40 mm	40 mm / 60 mm	55 mm / 80 mm	110 mm / 150 mm
	Aluminium	20 mm / 40 mm	35 mm / 60 mm	45 mm / 70 mm	80 mm / 120 mm

\* With CPM400 and bevelling consumables

\*\*Water vortex: possibility of cutting with submerged torch or on water

## Equipment for oxyfuel process



### MACH HP and MACH HPi

- 6 to 300 mm.
- 150mm mid plate.
- Tool-free nozzle assembly: simple and fast.
- Lifetime.
- Productivity.
- Quality of cut.
- MACH HPi offers integrated ignition and visualization of cutting pressure for ease of use and long life.

		OXY Essential	OXY HPi 2
<b>Number of torches</b>		4	6
<b>Gas regulation</b>		Automatic	Automatic
<b>Maximum thickness (mm) / Piercing (mm)</b>		200 / 150	300 / 150
<b>Tool holders</b>	150 mm stroke	Yes	Yes
	250 mm stroke	-	Yes
	Cable chain	-	Yes
	Speed	2 m/min	6 m/min
<b>Oxy torches</b>	MACH HP	Yes	Yes
	MACH HPi	Yes	Yes
<b>Fixed electric ignitor*</b>		Option	-
<b>OXY SAFE PIERCING</b> <i>With integrated choc sensor [igniter* and retractable probe]</i>		Option	Included
<b>Bevelling tool with tilting nozzle**</b>		Yes	Yes
<b>Strip cutting tool**</b>		Yes	Yes
<b>VXK cutting tool</b>		1	2



\* Integrated ignitor if MACH HPi  
\*\* Use without capacitive probe and ignitor

# BEING PRESENT LOCALLY MAKES US MORE AWARE GLOBALLY

Benefit from the Market Leader



**2.6**  
BILLION USD REVENUE

**160**  
ACTIVE IN 160  
COUNTRIES  
WORLDWIDE

**11 000**  
EMPLOYEES WORLDWIDE

**120**  
YEARS OF EXPERIENCE

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