# **EUROTOME - OXYTOME - PLASMATOME**

XYTOME<sup>®</sup>

40

LINCOLN

Automatised thermal cutting machines

LINCOLN



::::

6004

# **EUROTOME - OXYTOME - PLASMATOME** AUTOMATISED THERMAL CUTTING MACHINES

#### A range of machines on tracks combining plasma and oxyfuel cutting processes.

Adapted to all needs, the mechanical structure of this range of machines can be adapted according to production, budget, dimensions and applications.

### EUROTOME<sup>2</sup>

Versatile & cost effective

- 1.5m to 3.5m width
- Plasma or Oxy process
- 4 tools / **200mm** (oxy)



## Different uses, but the same level of design and equipment:



**Drive units** 

Low-backlash.

of the machine

maintenance-free

technology motors

encoders and quick-change pinions.

brushless gearmotors

equipped with Ethercat

and drives with absolute

#### Longitudinal rails

The longitudinal guide consists of sturdy rails equipped with several feet for mounting the machine even on rough floors. Permanent rail brushing

system to keep the machine running optimally, even in difficult conditions. Possibility of equipping the TWIN range with the advanced rail option with linear guides.

#### Transverse guiding

The beam is fitted with a double ball bearing rail to make the movements of the machine more fluid and thus optimize the quality cut. The TWIN range also offers a double beam to reinforce its structure to accommodate heavier tools.

#### Safety and compliance

All machines are equipped with safety devices (photocells, emergency stop buttons or sensitive onboard safety) ensuring optimum operator protection in accordance with Machinery Directive 2006/42/EC. Also interconnected with their environment: process and treatment of cutting fumes.

## **OXY/PLASMATOME**<sup>(2)</sup>

#### Versatile, robust for intensive production

- 1.5m to 4.5m width and length up to 32m
- Plasma or Oxy process
- 6 tools / 300mm (oxy)

#### **OXY/PLASMATOME**<sup>(2)</sup> TWIN

Accurate, robust & versatile for high-capacity production and technological applications

- 3m to 5.5m width and length up to 32m
- Plasma or Oxy process
- 8 tools / 300mm (oxy)

#### HPC III. a common centralised control system

Large tactile screen integrates machine management and cutting parameters. Quick access to manual funtions to facilitate cutting operations.





# **HPC DIGITAL PROCESS III**

#### Intuitive, automatic, educational

The most intuitive and efficient numerical control on the market. It fully manages the cutting machine, from the trajectory to the processes. The ergonomics of the HMI and its large 22" 16/9 touch screen make it a user-friendly and easy-to-use tool. All has been design to be intuitive but also educational with different diagrams integrated explaining simply how to use.

In particular, it includes all the important functions suited to the thermal cutting business such as: Cutting recovery menu, parametric shapes, sheet metal alignment, test menus, automatic adjustment of parameters...

#### How does the automatic adjustment of processes work on HPC III ?







#### Main features of HPC III:

- 66 Parametric forms with cutting quality management + customized shapes to customer's needs
- Scale, rotation, symmetry, choice origin program, sheet alignment...
- Plasma and flame cutting processes
- SMART DATA BASE with up to 10 gualities per parameter. Includes lead in & lead out strategy for bolt holes
- Dynamic visualization of the part and tracking of the trajectory in real time
- Skeleton cutting function, function extract part from nesting





ULTRA SHARP2 function integrated database offering up to 10 cutting qualities

The adjustment

of all paraeters

automatically

is done

- Program recovery menu
- Options: Tube cutting, 2<sup>nd</sup> digitized transverse axis, automatic indexing, visio-process, laser positioning or measurement, fume extraction "DIGIFILTER Inside"
- NERTAJET BEVEL HPi, digital drilling (this options) can be offered with version 1 or 2 of HPC)
- 17 languages
- W10, SSD hardrive, Ethercat bus, 22"16/9 touch screen, USB, network, **TeleService ETIC**

# **OXYFUEL CUTTING PROCESS**



\*Integrated igniter with MACH HPi \*\*Use without captive probe and automatic ignition

# PLASMA CUTTING PROCESSES

# FineLine® HD 170/300, High Definition systems



### FineLine<sup>®</sup> HD

FINELINE<sup>®</sup> HD power sources designed for high quality cutting and cost reduced production.

Reliable technology, 3 year warranty,
Reduction of gas consumption,
Increased life time of wearing parts

FineLine®HD	170A@100%	300A@100%	
Production piercing plate	30mm	45mm	
Sheet metal edge	50mm	75mm	

## Plasma air 125A, low operating costs

## FLEXCUT<sup>®</sup> 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

Performances: Mid plate / Plate edge

125A@100% - Cutting and marking				
Steel	30mm / 45mm			
Stainless steel	20mm / 40mm			
Aluminium	20mm / 40mm			

FLEXCUT



# Plasma HPi, High Power 450 & 600A

## 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.
- Torch CPM400 or CPM PROInox, dry or vortex

NERTA	JET HPi	450A@100%	600A@100%
Performances:	Steel	50mm / 100mm	50mm / 100mm
Mid plate /	Stainless steel	55mm / 80mm	110mm / 150mm
Plate edge	Aluminium	45mm / 70mm	80mm / 120mm



#### Advanced Process Control

The FineLine<sup>®</sup> Advanced Process Controller (APC) provides 2 new advance technologies:

- Water injection: increases speed on stainless and aluminum, reducing gas cost and improving cut edge quality, with less dross formation.
- Advanced Piercing Technology, enables 1:1 holes to be cut in heavier gauge material, achieving the same quality as large holes and helping to reduce pierce time, whilst increasing consumable life.



# Equipment



Equipment	FLEXCUT	FINELINE	NERTAJET
	125	HD	HPi
Tool	THd	THdi 160, 350 or 500mm	
holder	160mm	15m/min	
Torch breakaway	~	~	~
Straight Bevel X or Y	1	1	1

# **OPTIONS - MACHINE EQUIPMENT**













Tube cutting

Positioning laser

Bevel HPi

Pneumatic or Wen markers

Bevelling V X K

4<sup>th</sup> axis

EUROTOME	OXYTOME-PLASMATOME	OXYTOME-PLASMATOME <sup>®</sup> TWIN	PLASMATOME <sup>(2)</sup> HD		
15/20/25/30/35	15/20/25/30/35/40/45	30/35/40/45/50/55	15/20/25/30/35/40/45		
1500 to 3500	2065 to 5925	3425 to 5925	2030 to 5030		
3 to 15	3 to 32	3 to 32	3 to 24		
	21.2 m/min, opt	cional 35.3 m/min			
motors and drivers brushless Ethercat with absolute encoders, planetary reducer maintenance free					
Flexcut® 125	Flexcut <sup>®</sup> 125	-	-		
Fineline <sup>®</sup> HD 170/300	Fineline® HD 170/300 NERTAJET HPi 450/600	Fineline® HD 170/300 NERTAJET HPi 450/600	Fineline® HD 170/300 NERTAJET HPi 450		
2	2	2	2		
OXY Essential	OXY Essential / OXY HPi2	OXY Essential / OXY HPi2	OXY Essential		
4	8	б	1		
200	300	300	100		
$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$		
×	×	✓	×		
$\checkmark$	$\checkmark$	✓	×		
×	$\checkmark$	✓	$\checkmark$		
×	$\checkmark$	✓	$\checkmark$		
×	✓	✓	×		
	EUROTOME® 15/20/25/30/35 1500 to 3500 3 to 15 motors and c Flexcut® 125 Fineline® HD 170/300 2 0XY Essential 4 200 × × × × ×	EUROTOME®     OXYTOME-PLASMATOME®       15/20/25/30/35     15/20/25/30/35/40/45       1500 to 3500     2065 to 5925       3 to 15     3 to 32       21.2 m/min, opt       motors and drivers brushless Ethercat with abso       Flexcut® 125     Flexcut® 125       Fineline® HD 170/300     Fineline® HD 170/300       NERTAJET HPi 450/600     2       2     2       OXY Essential     OXY Essential / OXY HPi2       4     8       200     300       ✓     ✓       X     ✓       X     ✓       X     ✓       X     ✓	EUROTOME®     OXYTOME-PLASMATOME®     OXYTOME-PLASMATOME® TWIN       15/20/25/30/35     15/20/25/30/35/40/45     30/35/40/45/50/55       1500 to 3500     2065 to 5925     3425 to 5925       3 to 15     3 to 32     3 to 32       Classified and the seconders, planetary reducer main motors and drivers brushless Ethercat with absolute encoders, planetary reducer main flexcut® 125       Flexcut® 125     Flexcut® 125     -       Fineline® HD 170/300     Fineline® HD 170/300     Fineline® HD 170/300       2     2     2     2       OXY Essential     OXY Essential / OXY HPi2     OXY Essential / OXY HPi2       4     8     6       200     300     300       ✓     ✓     ✓       ×     ×     ✓       ×     ✓     ✓		





Automatic indexing

(\*) the values mentioned are maximum diagonal tool speeds in JOG. Production speeds are 15m/min, optional 25m/min

# EUROTOME<sup>2</sup>

## Quick and easy to implement, excellent cutting quality in a flexible and cost-effective package.

Oxy Essential manage up to 4 oxyfuel cutting torches, with a maximum of 200mm thickness. Plasma cutting is available either with Flexcut® 125, or High Definition Fineline® HD 170/300.

#### Dimensions

Dimensions on a standard railway *(length 4500mm).* Additional roller railway with 3m or 1.5m elements.





<b>A</b> : Distance between rails.	<b>D</b> : Stroke of the 1 <sup>st</sup> tool-holder
<b>B</b> : Overall width.	without an additional tool.
<b>C</b> : Overall length.	E: Sheet width.

30

EUROTOME<sup>2</sup>

Machine	A (mm)	B (mm)	C (mm)	D* (mm)	E (mm)
T15	2015	3300	3600	2040	1500
T20	2515	3800	4100	2540	2000
T25	3015	4300	4600	3040	2500
T30	3515	4800	5100	3540	3000
T35	4015	5300	5600	4040	3500

\* For the 1st additional tool-holder, remove 185mm. For the second additional T.H. remove 185mm (this also applies for the 3sd and 4th one).

# OXY/PLASMATOME<sup>2</sup>: STANDARD OR TWIN VERSION

# High performance, with a full range of options to make your job in the harshest conditions.

Oxy/Plasmatome machines can carry up to 6 tools on standard version and 8 with the Twin version. They can use plasma or flame cutting to produce intensively and on the medium or largest sheet sizes.

The Twin version, reinforced concept with double beam, allows to receive the most advanced technological options such as the 3D beveling head.

#### Dimensions



A: Distance between rails.

**B**: Overall width.

**C**: Overall dimensions with 2 corridors of 800mm.

**D**: Stroke of the 1<sup>st</sup> tool-holder without additional torch holder. **E**: Sheet width.

-74		

Machine*	A (mm)	B (mm)	C (mm)	D** (mm)	E*** (mm)
T15	2015	3500	5100	2065	1500
T20	2515	4000	5600	2565	2000
T30	3515	5000	6600	3565	3000
T40	4515	6000	7600	4565	4000
T45	5015	6500	8100	5065	4500
T30 Twin	3905	4900	5500	2650	2500
T40 Twin	4905	5900	6500	3650	3500
T50 Twin	5905	6900	7500	4650	4500
T55 Twin	6405	7400	8000	5150	5000

\* Also available in T25, T35, T35 twin, T45 twin.

\*\* Standard version: 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.

jor the P<sup>2</sup> additional tool noider and 165mm jor the jollowing of

\*\* Twin version: transverse stroke with 1 Bevel unit + 1 oxy.

\*\*\* 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.

# PLASMATOME<sup>(2)</sup> HD

### High-definition plasma cutting, with separated console and lowered tracks for better accuracy.

This machine is specially dedicated for High-Definition plasma cutting process, with Fineline® HD 170/300 or High-Power plasma with NERTAJET HPi 450. In option, 1 oxyfuel cutting torch can be associated.

#### Dimensions



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



	Machine	A (
E	T15	20
	T20	2!
	T25	30
	T30	3!
	T35	4
c	T40	4

Machine	A (mm)	B (mm)	C* (mm)	D* (mm)	E** (mm)
T15	2015	2890	4600	2030	1500
T20	2515	3390	5100	2530	2000
T25	3015	3890	5600	3030	2500
T30	3515	4390	6100	3530	3000
T35	4015	4890	6600	4030	3500
T40	4515	5390	7100	4530	4000
T45	5015	5890	7600	5030	4500

\* transverse stroke with 1 tool holder. For 2 tool holders: remove 185mm.

\*\* 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.

#### CUSTOMER ASSISTANCE POLICY

The business of Lincoln Electric is manufacturing and selling high quality welding equipment, consumables, and cutting equipment. Our challenge is to meet the needs of our customers and to exceed their expectations. On occasion, purchasers may ask Lincoln Electric for information or advice about their use of our products. Our employees respond to inquiries to the best of their ability based on information provided to them by the customers and the knowledge they may have concerning the application. Our employees, however, are not in a position to verify the information provided or to evaluate the engineering requirements for the particular weldment. Accordingly, Lincoln Electric does not warrant or guarantee or assume any liability with respect to such information or advice. Moreover, the provision of such information or advice does not create, expand, or alter any warranty on our products. Any express or implied warranty that might arise from the information or advice, including any implied warranty of merchantability or any warranty of fitness for any customers' particular purpose is specifically disclaimed.

Lincoln Electric is a responsive manufacturer, but the selection and use of specific products sold by Lincoln Electric is solely within the control of, and remains the sole responsibility of the customer. Many variables beyond the control of Lincoln Electric affect the results obtained in applying these types of fabrication methods and service requirements.

Subject to Change - This information is accurate to the best of our knowledge at the time of printing. Please refer to www.lincolnelectriceurope.com for any updated information.



/ww.lincolnelectric.eu

