TOMAHAWK[®] 1025 & 1538

OPERATOR'S MANUAL



ENGLISH





Declaration of conformity



Lincoln Electric Bester Sp. z o.o.

Declares that the plasma machine:

TOMAHAWK[®] 1025 TOMAHAWK[®] 1538

conforms to the following directives:

2006/95/CEE, 2004/108/CEE

and has been designed in compliance with the following standards:

EN 60529, EN 60974-1, EN 60974-7, EN 60974-10

(15.02.2013)

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07/11

English I English



THANKS! For having choosen the QUALITY of the Lincoln Electric products.

- Please Examine Package and Equipment for Damage. Claims for material damaged in shipment must be notified immediately to the dealer.
- For future reference record in the table below your equipment identification information. Model Name, Code & Serial Number can be found on the machine rating plate.

l Model	Name:				
Woder	riano.				
Code 9 Co	wiel manage au				
Code & Sei	rial number:				
Date & Where Purchased:					
Date & Wilei	c i dichasca.				
	1				

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WARNING

This equipment must be used by qualified personnel. Be sure that all installation, operation, maintenance and repair procedures are performed only by qualified person. Read and understand this manual before operating this equipment. Failure to follow the instructions in this manual could cause serious personal injury, loss of life, or damage to this equipment. Read and understand the following explanations of the warning symbols. Lincoln Electric is not responsible for damages caused by improper installation, improper care or abnormal operation.



WARNING: This symbol indicates that instructions must be followed to avoid serious personal injury, loss of life, or damage to this equipment. Protect yourself and others from possible serious injury or death.



READ AND UNDERSTAND INSTRUCTIONS: Read and understand this manual before operating this equipment. Plasma cutting or gouging can be hazardous. Failure to follow the instructions in this manual could cause serious personal injury, loss of life, or damage to this equipment.



ELECTRICALLY POWERED EQUIPMENT: Turn off input power using the disconnect switch at the fuse box before working on this equipment. Ground this equipment in accordance with local electrical regulations.



ELECTRIC AND MAGNETIC FIELDS MAY BE DANGEROUS: Electric current flowing through any conductor creates electric and magnetic fields (EMF). EMF fields may interfere with some pacemakers, and welders having a pacemaker shall consult their physician before operating this equipment.



CE COMPLIANCE: This equipment complies with the European Community Directives.



ARTIFICIAL OPTICAL RADIATION: According with the requirements in 2006/25/EC Directive and EN 12198 Standard, the equipment is a category 2. It makes mandatory the adoption of Personal Protective Equipments (PPE) having filter with a protection degree up to a maximum of 15, as required by EN169 Standard.



WORK MATERIALS CAN BURN: Cutting generates a large amount of heat. Hot surfaces and materials in work area can cause serious burns. Use gloves and pliers when touching or moving materials in the work area.



SAFETY MARK: This equipment is suitable for supplying power for cutting operations carried out in an environment with increased hazard of electric shock.



EQUIPMENT WEIGHT OVER 30kg: Move this equipment with care and with the help of another person. Lifting may be dangerous for your physical health.



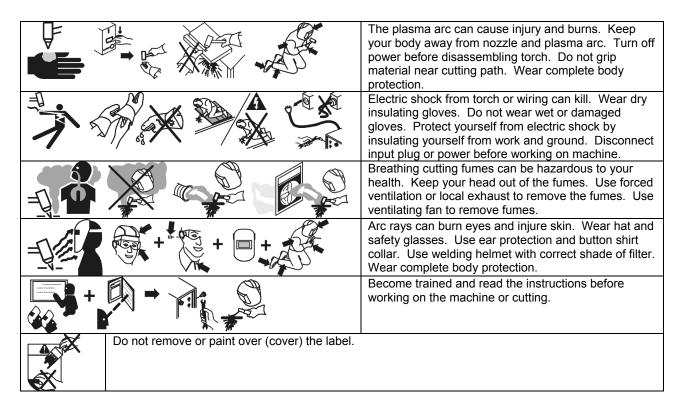
CYLINDER MAY EXPLODE IF DAMAGED: Use only compressed gas cylinders containing the correct shielding gas for the process used and properly operating regulators designed for the gas and pressure used. Always keep cylinders in an upright position securely chained to a fixed support. Do not move or transport gas cylinders with the protection cap removed. Do not allow the torch, work clamp or any other electrically live part to touch a gas cylinder. Gas cylinders must be located away from areas where they may be subjected to physical damage or the cutting process including sparks and heat sources.







Cutting sparks can cause explosion or fire. Keep flammables away from cutting. Do not cut near flammables. Have a fire extinguisher nearby, and have a watch person ready to use it. Do not cut on drums or any closed container.



Installation and Operator Instructions

Read this entire section before installation or operation of the machine.

Location and Environment

This machine can operate in harsh environments. However, it is important that simple preventative measures are followed to assure long life and reliable operation:

- Do not place or operate this machine on a surface with an incline greater than 15° from horizontal.
- Do not use this machine for pipe thawing.
- This machine must be located where there is free circulation of clean air without restrictions for air movement to and from the air vents. Do not cover the machine with paper, cloth or rags when switched on.
- Dirt and dust that can be drawn into the machine should be kept to a minimum.
- This machine has a protection rating of IP23. Keep it dry when possible and do not place it on wet ground or in puddles.
- Locate the machine away from radio controlled machinery. Normal operation may adversely affect the operation of nearby radio controlled machinery, which may result in injury or equipment damage. Read the section on electromagnetic compatibility in this manual.
- Do not operate in areas with an ambient temperature greater than 40°C.

Duty Cycle

The duty cycle of a plasma machine is the percentage of time in a 10 minute cycle at which the operator can operate the machine at rated cutting current.

Example: 60% duty cycle means that is possible cut for 6 minutes, then the machine stops for 4 minutes.

Refer to the Technical Specification section for more information about the machine rated duty cycles.

Input Supply Connection

Check the input voltage, phase, and frequency supplied to this machine before turning it on. The allowable input voltage is indicated in the technical specification section of this manual and on the rating plate of the machine. Be sure that the machine is grounded.

Make sure the amount of power available from the input connection is adequate for normal operation of the machine. The fuse rating and cable sizes are both indicated in the technical specification section of this manual.

This machine is designed to operate on engine driven generators as long as the 400Vac auxiliary can supply adequate power as indicated in the technical specification section of this manual. The auxiliary supply of the generator must also meet the following conditions.

- The AC waveform peak voltage is below 700V.
- The AC waveform frequency is between 50 and 60
 Hz
- The RMS voltage of the AC waveform is always equal to 400Vac ±15%.

It is important to check these conditions because many engine driven generators produce high voltage spikes. Operation of this machine on engine driven generators not conforming to these conditions is not recommended and may damage the machine.

Output Connections

! WARNING

Use ONLY the torch supplied with this machine. For a replacement refer to the Maintenance section of this manual.

! WARNING

TORCH PROTECTION: The torch delivered with the power source is equipped with a safety device that prevents the operator from accidental contact with electrically live parts.

WARNING

Always turn OFF the machine when working on the torch.

WARNING

Do not remove the work clamp during cutting, plasma cutting generates high voltages that can kill.

WARNING

Open Circuit Voltage $U_0 > 100VDC$. For more information refer to the Technical Specification section.

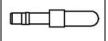


Torch Connector: Connect here the cutting torch. The torch connection to the power source is very easily performed through a quickconnector carrying the torch trigger circuit, the gas line and the torch power cable.

Positive Quick Disconnect: Positive output connector for the cutting circuit. As far the ground connection, this is to be connected to the work piece and to a "DINSE" connector on the front of the power source.

Torch Connector Polarization Key:

This Plasma Cutting Machine shall be used with its specific torch. The polarized torch connector avoid the risk to use the machine with a not proper torch model. The position of the polarized key is shown in the table below.



Polarization Key





Controls and Operational Features Machine Auto-Test:

When the machine is turned ON, an auto-test is executed: during this test all of the LEDs of the Commands Front Panel lights up. If one or some LED remains OFF, contact the nearest technical service center or Lincoln Electric and report the LED Status found on the machine Front Panel.

Front Panel	Controls
30 40	Output Current Knob: Potentiometer used to set the output current used during cutting. Refer to the Technical Specification section for more information about the machine rated current range.
<i>9</i> / 60	Gas Purge: The Output Current Knob completely rotated counterclockwise enables the gas purge function. Power ON/OFF LED:
••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••<l></l>	It lights up when the machine is ON. Blinking LED: Mains out of range condition. The machine is disabled: when the mains returns in the correct range, the machine restart automatically.
	Note: The Fan could be automatically switched OFF if the error condition persist for more than 2seconds.
• 🚱	Output LED: The cutting torch is energized. Blinking LED: Internal auxiliary undervoltage condition. The machine needs to be turned OFF then ON again to restart.
•	Thermal LED: The machine is overheated and the output has been disabled. This usually occurs when the duty cycle of the machine has been exceeded. Leave the machine ON to allow the internal components to cool. When the thermal LED turns off, normal operation is again possible.
	Low gas pressure condition LED: With this LED ON the machine stops cutting or gouging operations. The machine restart automatically when a correct gas pressure is detected.
○ •	To check / adjust the primary gas pressure (see recommended values in the Tecnical Specifications of this manual): • When this LED lights up, for 10
	seconds the machines goes automatically in Purge mode. • During Purge time check and adjust the gas pressure through the manometer and primary gas
	 pressure regulator knob. If necessary, check and adjust also the inlet gas pressure through the commands of the inlet primary gas.

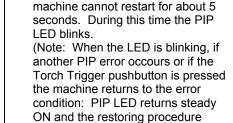
PIP LED:

Part in place condition: the torch retaining cap (or the torch connector) is not properly screwed on the torch head (or in the machine torch connector).

To restore the machine:

begins again).

Screw firmly the torch retaining cap (or the torch connector). After the torch is restored, the



When the PIP LED turns OFF the machine is ready to operate.



Primary Gas Pressure Gauge and Regulator Knob:

Allow to regulate and monitoring the primary gas pressure.

The inlet primary gas pressure is limited by this pressure regulator, set at factory at 5.5bar. In case to adjust the gas pressure, put the machine in Purge mode.



Cutting Operating Mode Selection: Press the pushbutton to select the desired operating mode (the "ON" LED indicates the selected mode):

- CUT (top LED ON): for cutting or piercing operations on a solid work piece.
- GRID (middle LED ON): for cutting operations on a grid work piece.
- GOUGE (bottom LED ON): for removing material from a solid work piece (e.g.: removing a failed welded bead).

It is possible change the Operating Mode with the machine at idle and also during the Purge, Post Flow and Cooling time.

Pressing the pushbutton during Pilot Arc or Cutting time has no effects.

Error condition list.

If occurs, try to turn Off the machine, wait for a few seconds, then turn ON again. If the error remains, a maintenance is required. Please contact the nearest technical service center or Lincoln Electric and report the LED Status found on the machine Front Panel.







On

This occurs if after 4seconds the Pilot Arc isn't transfered to the workpiece. The machine stops the pilot arc to avoid overheating on the Torch Head.

Head Torch

To restore the machine:

- Release the Torch Trigger pushbutton. The blinking LEDs are now permanently ON
- Press again the release the Torch Trigger pushbutton.







On

The Torch Trigger pushbutton is pressed. During this period the machine try to start the pilot arc for 4 times. If the pilot arc doesn't start the machine automatically goes in a safe condition that allow to check as necessary.

No pilot arc estabilished

To restore the machine:

- Turn OFF the Power switch.
- Check the correct placement of the Torch Head consumables and parts.
- Check the Torch electrical connections.
- Turn ON again the machine.









On

On

This occurs if the machine is switched ON (or if it restart after cooling time) with the Torch Trigger pushbutton hold. This status avoids unsafe operating conditions: manual cutting or gouging processes must be started ONLY under the direct control of the operator.

Trigger Pushed

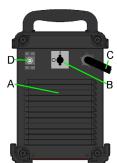
To restore the machine:

- Release the Torch Trigger pushbutton.
- Press again the Torch Trigger pushbutton.

If this error condition persist check for eventual malfunctions of the the Torch Trigger pushbutton.

Rear Panel Controls and Connections

Fan: This machine has a F.A.N. (Fan As Needed) circuitry inside: the fan is automatically turned ON or OFF. This feature reduces the amount of dirt which can be drawn inside the machine and reduces power consumption. When the machine is turned ON the fan will turn ON. The fan will continue to run whenever the torch trigger pushbutton is



English

pressed. If the torch trigger pushbutton is released for more than five minutes, the fan will turn OFF.

- B. <u>Power Switch:</u> It turns ON / OFF the input power to the machine.
- C. <u>Input cable:</u> Connect it to the mains.
- D. <u>Gas Inlet:</u> Connect here the hose carrying the gas to the machine.

! WARNING

A clean, dry primary gas (air or nitrogen) must be supplied to the machine. A pressure setting above 7,5bar could damage the torch. Failure to observe these precautions could result in excessive operating temperatures or damage to the torch.

Cutting Process

The air plasma cutting process uses air or nitrogen as primary cutting gas and as torch cooling gas.

The pilot arc is struck as follow: the torch button energize an electrovalve (solenoid valve). This valve lets the gas flow during the cutting and the post-flow stages.

The design concept at the basis of these power sources is to have available a current which remains constant at the set value, independently from the length of the plasma arc.

When preparing to operate, make sure you have all materials needed to complete the job and have taken all safety precautions. Install the machine as instructed in this manual and remember to attach the work clamp to the work piece.

- With the machine switched OFF, prepare the torch with the consumables adequate to the desired process (CUT / GRID / GOUGE). Refer to the Torches Instruction Manual to select the correct combination of consumables.
- Connect the Torch and the worck cable to the machine.
- Turn ON the Power Switch placed on the back of the machine; the Power ON/OFF LED on the front panel will turn ON. The unit is now ready to operate.
- Check that the primary gas is available through the Gas Purge function.
- Select the desired Operating Mode process.
- Set the desired current value with the Output Current knob.

To start the selected process just press the torch button, making sure you are not aiming the torch gas blow towards people or foreign objects. During the process it is possible to hold the torch away from the work piece for an extended period of time.

Once the process is terminated releasing off the torch button will cause the plasma arc to be turned off; the gas flow will continue to allow the cooling down of the torch. The Post Flow time is proportional to the selected cutting current and it is divided into 4 time ranges:

Selected Cutting Current	Post Flow Time
Less than 30A	15seconds
Between 30A and 40A	20seconds
Between 40A and 50A	25seconds
Greater than 50A	30seconds

Maintenance

WARNING

For any maintenance or repair operations it is recommended to contact the nearest technical service center or Lincoln Electric. Maintenance or repairs performed by unauthorized service centers or personnel will null and void the manufacturers warranty.

The frequency of the maintenance operations may vary in accordance with the working environment. Any noticeable damage should be reported immediately.

- Check cables and connections integrity. Replace, if necessary.
- Regularly clean the torch head, check its consumables and if necessary replace them.

√!\ WARNING

Refer to the torch instructions before changing or servicing the torch.

 Keep clean the machine. Use a soft dry cloth to clean the enclosing case, especially the airflow inlet / outlet louvers.

! WARNING

Do not open this machine and do not introduce anything into its openings. Power supply must be disconnected from the machine before maintenance and service. After each repair, perform proper tests to check safety requirements.

Cutting Speed

The cutting speed is a function of:

- Thickness and of material to be cut.
- Value of set current. The current setting affects the quality of the cut edge.
- Geometrical shape of the cut (whether straight or curved).

In order to provide indications on the most suitable setting, the following table was established, based on tests performed on an automatic test-bench; the best results however can only be achieved from direct experience by the operator in his actual working conditions.

	TH1025				TH1538				
	Current		Speed (cm/min.)	Current	Speed (cm/min.)			
Thickness	(A)	MILD STEEL	ALUMINUM	STAINLESS STEEL	(A)	MILD STEEL	ALUMINUM	STAINLESS STEEL	
4 mm									
6 mm			! !				 		
1/4 "			¦						
8 mm									
10 mm	60	119	206	105					
1/2 "	60	91	157	77					
15 mm	60	72	122	55	100A	180	223	147	
3/4 "	60	48	75	40	100A	117	152	99	
20 mm	60	43	65	36	100A	106	140	91	
25 mm	60	26	36	17	100A	70	98	63	
1 "	60	25	35	16	100A	68	95	61	
30 mm	60		22		100A	50	73	46	
1 1/4 "	60		16		100A	45	66	42	
35 mm			! ! !		100A	38	55	36	
1 ½ "			! !		100A	32	48	31	

Electromagnetic Compatibility (EMC)

01/1

This machine has been designed in accordance with all relevant directives and standards. However, it may still generate electromagnetic disturbances that can affect other systems like telecommunications (telephone, radio, and television) or other safety systems. These disturbances can cause safety problems in the affected systems. Read and understand this section to eliminate or reduce the amount of electromagnetic disturbance generated by this machine.



This machine has been designed to operate in an industrial area. The operator must install and operate this equipment as described in this manual. If any electromagnetic disturbances are detected the operator must put in place corrective actions to eliminate these disturbances with, if necessary, assistance from Lincoln Electric. The Class A equipment is not intended for use in residential locations where the electrical

power is provided by the public low-voltage supply system. There may be potential difficulties in ensuring electromagnetic compatibility in those locations, due to conducted as well as radiated disturbances. This equipment does not comply with IEC 61000-3-12. If it is connected to a public low-voltage system, it is responsibility of the installer or user of the equipment to ensure, by consultation with the distribution network operator if necessary, that the equipment may be connected.

Before installing the machine, the operator must check the work area for any devices that may malfunction because of electromagnetic disturbances. Consider the following.

- Input and output cables, control cables, and telephone cables that are in or adjacent to the work area and the
 machine.
- Radio and/or television transmitters and receivers. Computers or computer controlled equipment.
- Safety and control equipment for industrial processes. Equipment for calibration and measurement.
- Personal medical devices like pacemakers and hearing aids.
- Check the electromagnetic immunity for equipment operating in or near the work area. The operator must be sure that all equipment in the area is compatible. This may require additional protection measures.
- The dimensions of the work area to consider will depend on the construction of the area and other activities that are taking place.

Consider the following guidelines to reduce electromagnetic emissions from the machine.

- Connect the machine to the input supply according to this manual. If disturbances occur if may be necessary to take additional precautions such as filtering the input supply.
- The output cables should be kept as short as possible and should be positioned together. If possible connect the
 work piece to ground in order to reduce the electromagnetic emissions. The operator must check that connecting
 the work piece to ground does not cause problems or unsafe operating conditions for personnel and equipment.
- Shielding of cables in the work area can reduce electromagnetic emissions. This may be necessary for special applications.

Technical Specifications

			INP	UT				
lanu	ut \/oltogo	Inpu	ut Power a	t Rated Output		EMC Class		
inpu	it Voltage	TH1025		W @ 100% Duty Cycle W @ 40% Duty Cycle		Α	Frequency	
	0V ±15% ee Phase	TH1538	7.1kV	:W @ 40% Duty Cycle :W @ 100% Duty Cycle 'kW @ 40% Duty Cycle		Α	50/60Hz	
			PUT AT 40°C	CIE				
1	Duty Cycle	IXA	Output 0			Output Volt	ene	
	on a 10 min. period)		Output	Current		Output voit	lage	
TH1025	100%		40A			96VDC		
	60%		50.			100VDC		
	40%		60.			104VDC		
	1070		00.	, `		10110		
TH1538	100%		60.	Α		104VDC)	
	60%		85			114VDC		
	40%		100			120VDC		
	OUTPUT RANGE							
-			_					
			Maximum Open Circuit Voltage TH1025 320VDC			FIIOLAIC CU	ineni i	
TH1025	20 - 60A			320VDC	TH10		20A	
			25		TH10	025		
TH1025	20 - 60A	TH102 TH153	25 38	320VDC		025	20A	
TH1025	20 - 60A	TH102 TH153 CON	25 38	320VDC 320VDC D AIR or GAS	TH1	025	20A	
TH1025	20 - 60A 20 - 100A Required Flow F	TH102 TH153 CON	25 38 MPRESSEI	320VDC 320VDC D AIR or GAS	TH1	025 538 Inlet Pressure	20A	
TH1025 TH1538	20 - 60A 20 - 100A Required Flow F 130 ±20%	TH102 TH153 COM	25 38 MPRESSED	320VDC 320VDC D AIR or GAS	TH1	025 538	20A	
TH1025 TH1538 TH1025	20 - 60A 20 - 100A Required Flow F 130 ±20% 280 ±20%	TH102 TH153 COM Rate I/min @ 5.5bar I/min @ 5.5bar	25 38 MPRESSED r	320VDC 320VDC D AIR or GAS	TH19 equired l	025 538 Inlet Pressure	20A	
TH1025 TH1538 TH1025 TH1538	20 - 60A 20 - 100A Required Flow F 130 ±20% 280 ±20%	TH102 TH153 COM Rate I/min @ 5.5bar I/min @ 5.5bar ECOMMENDE	25 38 MPRESSED T T D INPUT C	320VDC 320VDC D AIR or GAS	equired 6.0bar	o25 538 Inlet Pressure r ÷ 7.5bar	20A 20A	
TH1025 TH1538 TH1025 TH1538	20 - 60A 20 - 100A Required Flow F 130 ±20% 280 ±20% RE	TH102 TH153 COM Rate I/min @ 5.5bar I/min @ 5.5bar ECOMMENDE	25 38 MPRESSED T T D INPUT C	320VDC 320VDC D AIR or GAS	equired 6.0bar	025 538 Inlet Pressure r ÷ 7.5bar	20A 20A	
TH1025 TH1538 TH1025 TH1538 Fuse (delayed	20 - 60A 20 - 100A Required Flow F 130 ±20% 280 ±20% RE	TH102 TH153 COM Rate I/min @ 5.5bar I/min @ 5.5bar ECOMMENDE "D" characteris	25 38 MPRESSED T T D INPUT C	320VDC 320VDC D AIR or GAS R	equired 6.0bar	o25 538 Inlet Pressure r ÷ 7.5bar ower Cable	20A 20A	
TH1025 TH1538 TH1025 TH1538 Fuse (delayed TH1025	20 - 60A 20 - 100A Required Flow F 130 ±20% 280 ±20% RE	TH102 TH153 CON Rate I/min @ 5.5bar I/min @ 5.5bar ECOMMENDE "D" characteris 20A 32A	25 38 MPRESSED T T D INPUT O	320VDC 320VDC D AIR or GAS R CABLE AND FUSE TH1025	equired 6.0bar	o25 538 Inlet Pressure r ÷ 7.5bar ower Cable 4 x 2.5mm ²	20A 20A	
TH1025 TH1538 TH1025 TH1538 Fuse (delayed TH1025 TH1538	20 - 60A 20 - 100A Required Flow F 130 ±20% 280 ±20% RE	Rate I/min @ 5.5bar I/min @ 5.5bar I/min @ 5.5bar I/min @ 5.5bar COMMENDE D' characteris 20A 32A PH' Width	25 38 MPRESSEI r r D INPUT C stic) Size	320VDC 320VDC D AIR or GAS R CABLE AND FUSE TH1025 TH1538 IMENSIONS Length	equired left 6.0bal SIZES Input Po	o25 538 Inlet Pressure r ÷ 7.5bar ower Cable 4 x 2.5mm ² 4 x 4mm ²	20A 20A	
TH1025 TH1538 TH1025 TH1538 Fuse (delayed TH1025 TH1538	20 - 60A 20 - 100A Required Flow F 130 ±20% 280 ±20% RE d) or Circuit Breaker (TH102 TH153 CON Rate I/min @ 5.5bar I/min @ 5.5bar ECOMMENDE "D" characteris 20A 32A PH' Width H1025	25 38 MPRESSEI r r D INPUT C stic) Size YSICAL D	320VDC 320VDC D AIR or GAS R CABLE AND FUSE TH1025 TH1538 IMENSIONS Length TH1025	equired 6.0bal SIZES Input Po	025 538 Inlet Pressure r ÷ 7.5bar Ower Cable 4 x 2.5mm ² 4 x 4mm ²	20A 20A	
TH1025 TH1538 TH1025 TH1538 Fuse (delayed TH1025 TH1538	20 - 60A 20 - 100A Required Flow F 130 ±20% 280 ±20% RE d) or Circuit Breaker (ght 389mm 455mm	TH102 TH153 CON Rate I/min @ 5.5bar I/min @ 5.5bar ECOMMENDE "D" characteris 20A 32A PH' Width H1025 2 H1538 3	25 38 MPRESSEI r r D INPUT C stic) Size	320VDC 320VDC D AIR or GAS R CABLE AND FUSE TH1025 TH1538 IMENSIONS Length TH1025 TH1538	equired (6.0ba) SIZES Input Po	025 538 Inlet Pressure r ÷ 7.5bar ower Cable 4 x 2.5mm ² 4 x 4mm ² W TH1025 TH1538	20A 20A	
TH1025 TH1538 TH1025 TH1538 Fuse (delayed TH1025 TH1538	20 - 60A 20 - 100A Required Flow F 130 ±20% 280 ±20% RE d) or Circuit Breaker (TH102 TH153 CON Rate I/min @ 5.5bar I/min @ 5.5bar ECOMMENDE "D" characteris 20A 32A PH' Width H1025 2 H1538 3 rature	25 38 MPRESSEI r r D INPUT C stic) Size YSICAL D	320VDC 320VDC D AIR or GAS R CABLE AND FUSE TH1025 TH1538 IMENSIONS Length TH1025 TH1538	equired 6.0bal SIZES Input Po 510mm 640mm Storage	025 538 Inlet Pressure r ÷ 7.5bar Ower Cable 4 x 2.5mm ² 4 x 4mm ²	20A 20A /eight 22kg	

WEEE



Do not dispose of electrical equipment together with normal waste!

In observance of European Directive 2002/96/EC on Waste Electrical and Electronic Equipment (WEEE) and its implementation in accordance with national law, electrical equipment that has reached the end of its life must be collected separately and returned to an environmentally compatible recycling facility. As the owner of the equipment, you should get information on approved collection systems from our local representative.

07/06

By applying this European Directive you will protect the environment and human health!

Spare Parts

Part List reading instructions

- Do not use this part list for a machine if its code number is not listed. Contact the Lincoln Electric Service Department for any code number not listed.
- Use the illustration of assembly page and the table below to determine where the part is located for your particular code machine.
- Use only the parts marked "X" in the column under the heading number called for in the assembly page (# indicate a change in this printing).

First, read the Part List reading instructions above, then refer to the "Spare Part" manual supplied with the machine, that contains a picture-descriptive part number cross-reference.

Electrical Schematic

Refer to the "Spare Part" manual supplied with the machine.