

# PLASMA CUTTING RANGE

INVERTEC® PC-210 • TOMAHAWK® 1025 • TOMAHAWK® 1538



**LINCOLN**<sup>®</sup>  
**ELECTRIC**

## CHOOSE LINCOLN FOR CLEAN, EFFICIENT AND COST-EFFECTIVE PLASMA CUTTING



# Value for money

Cut through any conductive material in seconds.

Choose a model just right for your typical material thickness. Our plasma cutters are as good as the best in Class, with prices far below competitors (the machine as well as the consumable parts).

**INVERTEC® PC-210** – portable, flexible cutting power up to 10 mm, powered from a standard 230V input supply, ideal for work on site.

**TOMAHAWK® 1025 & 1538** – high performance plasma cutting machines, built to handle harsh environmental conditions, suitable for operation on site with a generator or within a workshop environment.

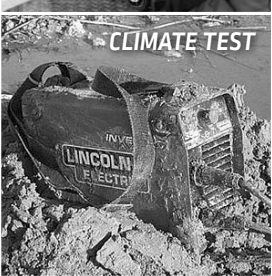
Up to 25 mm mild steel (Tomahawk® 1025) and up to 40 mm mild steel (Tomahawk® 1538).

**ALL MACHINES**

## BUILT FOR THE HEAVIEST INDUSTRIAL CONDITIONS

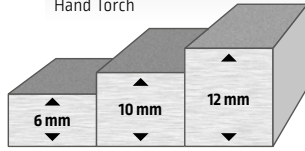
Developed and tested under the hardest conditions (TRUE HD) to grant the reliability you need.

- PCB board made in Lincoln Electric Company
- Fully encapsulated and vertical mounted
- Capable of surviving the harshest testing conditions
- Varnished and potted electronic boards



## PC-210

CUT PERFORMANCE – MILD STEEL  
Hand Torch



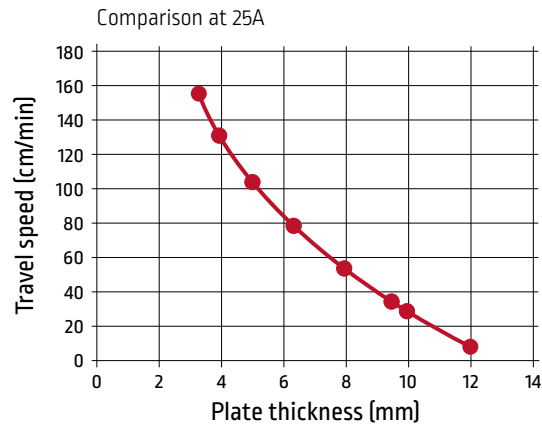
Recommended Maximum Severance

Rated Cut @ 0.47 m/min  
Maximum Cut @ 0.2 m/min  
Sever Cut @ 0.11 m/min

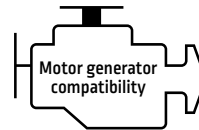
# INVERTEC® PC-210

- Flexible: only 230 V input required.
- High performance: innovative advanced electrode and nozzle design.
- Robust: long life compressor.
- Portable: only 18.5 kg, small and compact.
- Different materials: mild steel, stainless steel, aluminium and many more.
- Concentrated plasma stream: less heat input, less distortion.
- Internal compressor or external.

## PERFORMANCE



PC-210 external compressed air



PC-210 MOTOR GENERATOR COMPATIBILITY:

- minimum power 4kW
- Vac peak voltage: below 410V.
- RMS voltage of the AC waveform: 230Vac ± 10%.

INTERNAL  
COMPRESSOR  
OR EXTERNAL  
AIR



## SPECIFICATIONS

Product	Item Number	Primary Voltage (50-60Hz)	Rated Output	Cutting Capacity (mm)	Flow Rate	Inlet Pressure	Output Range (A)	Weight (kg)	Dimensions HxWxD (mm)
Invertec® PC210	K12038-1	230V/1Ph	25A/90V/35% 20A/88V/60% 15A/86V/100%	10	80l/min+/- 20% @ 5.0bar	6.0 bar	10-25	18.5	385 x 215 x 480

### Processes

- Plasma cutting

### Applications

- On site maintenance
- Service tasks
- Small construction sites
- General installations
- Air ducting installation (HVAC)
- Demolition work
- Rental

### Input



### Output



### Unit Includes

- 2 m input cable with 16A plug
- Mounted 3 m hand cutting torch
- Ground clamp and cable
- Air connection kit
- Cutting torch consumables kit



**TRUE HD**  
HEAVY DUTY TEST

VIBRATION TEST  
ENVIRONMENTAL TEST  
DROPP TEST  
DUST TEST

LINCOLN ELECTRIC  
www.lincolnelectric.eu

## Processes

- Plasma cutting *[all]*
- Plasma gouging
- Grid Mode

## Type of Gas

- Air compressed
- Nitrogen

## Applications

- On site maintenance
- Service tasks
- Small construction sites
- General installations
- Air ducting installation (HVAC)
- Demolition work
- Rental

## Input



## Output



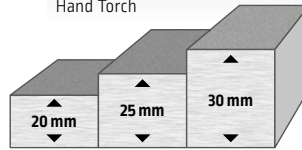
## Unit Includes

- 2 m-input cable
- 3 m-hand cutting torch
- Ground clamp and cable
- Air connection kit
- Cutting torch consumables kit



### TH1025

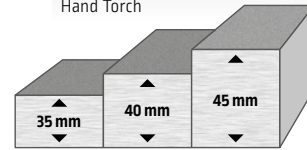
CUT PERFORMANCE – MILD STEEL  
Hand Torch



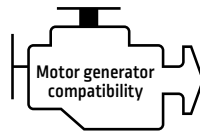
Recommended	Maximum	Severance
Rated Cut @ 0.5 m/min	Maximum Cut @ 0.3 m/min	Sever Cut @ 0.18 m/min

### TH1538

CUT PERFORMANCE – MILD STEEL  
Hand Torch



Recommended	Maximum	Severance
Rated Cut @ 0.38 m/min	Maximum Cut @ 0.32 m/min	Sever Cut @ 0.18 m/min



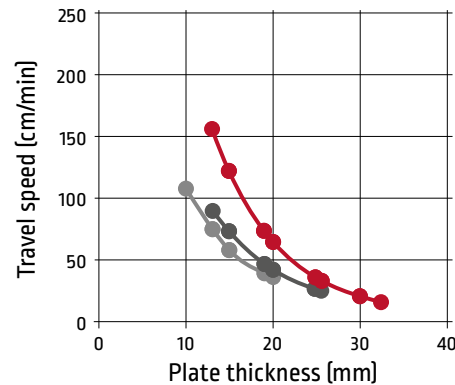
#### MOTOR GENERATOR COMPATIBILITY:

- minimum power 9,2kW (TH1025), 18kW (TH1538)
- AC waveform peak voltage below 700V.
- RMS voltage of the AC waveform is always equal to 400Vac ±15%.

## PERFORMANCE

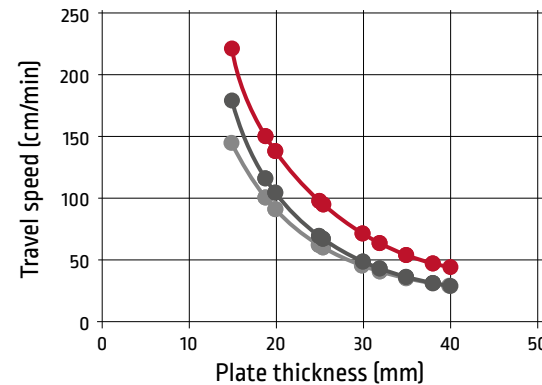
### Tomahawk® 1025 with LC65

Comparison at 60A



### Tomahawk® 1538 with LC105

Comparison at 100A



● Aluminium ● Mild ● Stainless

## SPECIFICATIONS

Product	Item Number	Primary Voltage (50-60Hz)	Rated Output	Cutting Capacity (mm)	Piercing Capacity (mm)*	Flow Rate	Inlet Pressure	Output Range (A)	Weight (kg)	Dimensions HxWxD (mm)
Tomahawk® 1025	K12048-1	400V/3Ph	60A/40% 40A/100%	25	Max. 12	130l/min+/- 20%@5.0bar	6.0 bar	20-60	22	389 x 247 x 489
Tomahawk® 1538	K12039-1		100A/40% 60A/100%	40	Max. 20	280l/min+/- 0%@5.0bar	7.0 bar	20-100	36	455 x 301 x 618

## TOMAHAWK® 1025 & 1538

- Starting: innovative advanced arc starting without HF.
- Performance: innovative advanced electrode and nozzle design.
- Longer lifetime: innovative advanced design increases lifetime of consumables.
- Faster: higher travel speeds and plate thickness.
- Flexible: multiple torch configurations.
- Different materials: mild steel, stainless steel, aluminium and many more.
- Concentrated plasma stream: less heat input, less distortion.
- Torch Connection – central connector, 9-pin.
- Stepless current control.
- Remote kit (optional) that allows the unit to receive an external ON-OFF trigger for mechanized processes (only for TH1538)

AS GOOD AS THE  
BEST IN CLASS,  
WITH PRICES FAR  
BELOW



## KEY OPTIONS

		Invertec® PC-210	Tomahawk® 1025	Tomahawk® 1538
Product Number		K12038-1	K12048-1	K12039-1
Air Filter LAF1250	W88X1456A	•	•	•
Filter Cartridge	W8800117R	•	•	•
Cutting circle	W0300699A	•	•	•
Undercarriage	W0200002	•		
Undercarriage	K2694-1		•	
Remote Control	K12049-1			•
Remote Control Kit	W05X1086A			•
Bevel Tool	W03X0893-119A		•	•

## TORCHES

		Invertec® PC-210	Tomahawk® 1025	Tomahawk® 1538
Product Number		K12038-1	K12048-1	K12039-1
LC25 (Hand)	PTH-C25A-SL-3MR	•		
LC65 (Hand)	PTH-061A-CX-7M5A		•	
	PTH-061A-CX-15A		•	
LC65M (Machine)	PTM-061A-CX-7M5A		•	
	PTM-061A-CX-15A		•	
LC105 (Hand)	PTH-101A-CX-7M5A			•
	PTH-101A-CX-15A			•
LC105M (Machine)	PTM-101A-CX-7M5A			•
	PTM-101A-CX-15MA			•

### UNDERCARRIAGE

W0200002



### UNDERCARRIAGE

K2694-1



### AIR FILTER LAF1250

Sub-micron filter for compressed air designed to remove moisture, oils and sprays particles from air compressors, thus providing clean, free of oil and dry air.

W88X1456A

W8800117R (filter cartridge)



### BEVEL TOOL

W03X0893-119A



### CUTTING CIRCLES (max diam. 820mm)

W0300699A

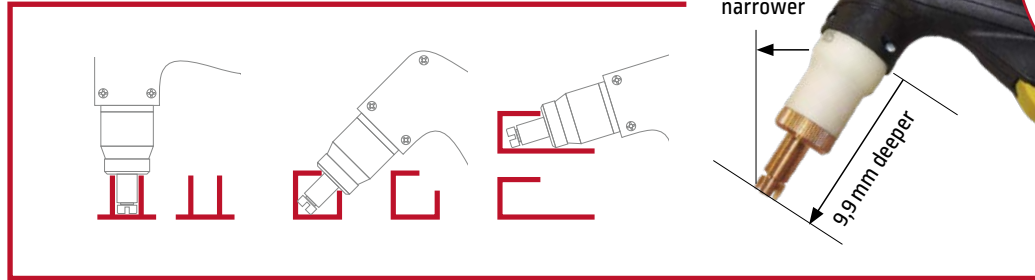


# MODERN TORCH TECHNOLOGY

## LC65 and LC105

– the new torches with longer life time (running cooler). More cutting thickness, higher speed, standard and grid cutting.

- NO HF
- Small electrode diameter
- High air-flow
- High speed rotating air
- Primary and secondary flow
- Concentrated plasma
- Long life electrodes and nozzles
- Torch Connection – central connector, 9-pin

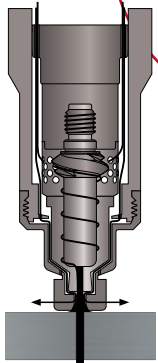


**ALSO AVAILABLE:  
EXTENDED REACH  
CONSUMABLES  
HELPFUL FOR CONFINED  
SPACES**

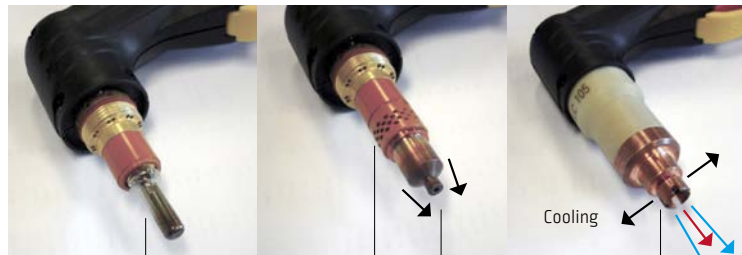
For connection equipment /torch the Tomahawk are provided by **CENTRAL CONNECTOR**



**HIGHER TRAVEL  
SPEED AND  
LONGER LIFE TIME  
CONSUMABLES**



LC105 torch design with drag cup



Small diameter Electrode with "screw"

Air-flow through "diagonal" drilled holes in the direction of the "screw"

As a result high speed circular air flow around the electrode

Cooling  
Primary Plasma beam in the middle.  
Secondary air stream with cold air concentrating the Plasma beam

Secondary air-stream cold  
Plasma Beam hot

CONTACT	STAND-OFF	GOUGE
OPTION 1	OPTION 2	OPTION 3
Convenient for the operator, simply drag the nozzle on the plate. Wellprotected nozzle.	Maximum flexibility and visibility of the plasma stream.	Allowing you to gouge different materials.

# GOUGING WITH TOMAHAWK® 1025 & 1538

Plasma gouging was developed as a tool for weld removal and weld preparation. Back-gouging was used to remove metal from the reverse side of arc-welded joints to eliminate defects and improve strength. Weld defects such as cracks, porosity, and lack of fusion could be gouged out using a plasma torch and then repaired with a new, sound weld.

## TOMAHAWK 1025

*Gouging application with manual plasma torch LC65*

Material : Mild Steel  
 Suggested speed : 90cm/min  
 Suggested torch inclination: 55° from vertical  
 Suggested Air pressure : 4.0-4.5 bar  
 Print on metal piece : 0.066 cm<sup>2</sup>  
 Material removal capability : 6 cm<sup>3</sup>/min.

## TOMAHAWK 1538

*Gouging application with manual plasma torch LC105*

Material : Mild Steel  
 Suggested speed : 90cm/min  
 Suggested torch inclination: 55° from vertical  
 Suggested Air pressure : 4.0-4.5 bar  
 Print on metal piece : 0.111 cm<sup>2</sup>  
 Material removal capability : 10 cm<sup>3</sup>/min.

	LC65	LC105
Torch (Hand 75 m) (1 pc)	PTH-061A-CX-7M5A	PTH-101A-CX-7M5A
Torch (Hand 15 m) (1 pc)	PTH-061A-CX-15MA	PTH-101A-CX-15MA

# 10/12 mm

## LC 25 (Hand)

LC 25 Hand 3M | PTH-C25A-SL-3MR



Part	Quantity	Reference
Electrode	10	W03X0893-75A
Gas distributor	3	W03X0893-5R
Tip shielded - 25A	10	W03X0893-76A
Shield cap body	1	W03X0893-77A
Spacer 40 - 80A	3	W03X0893-78R

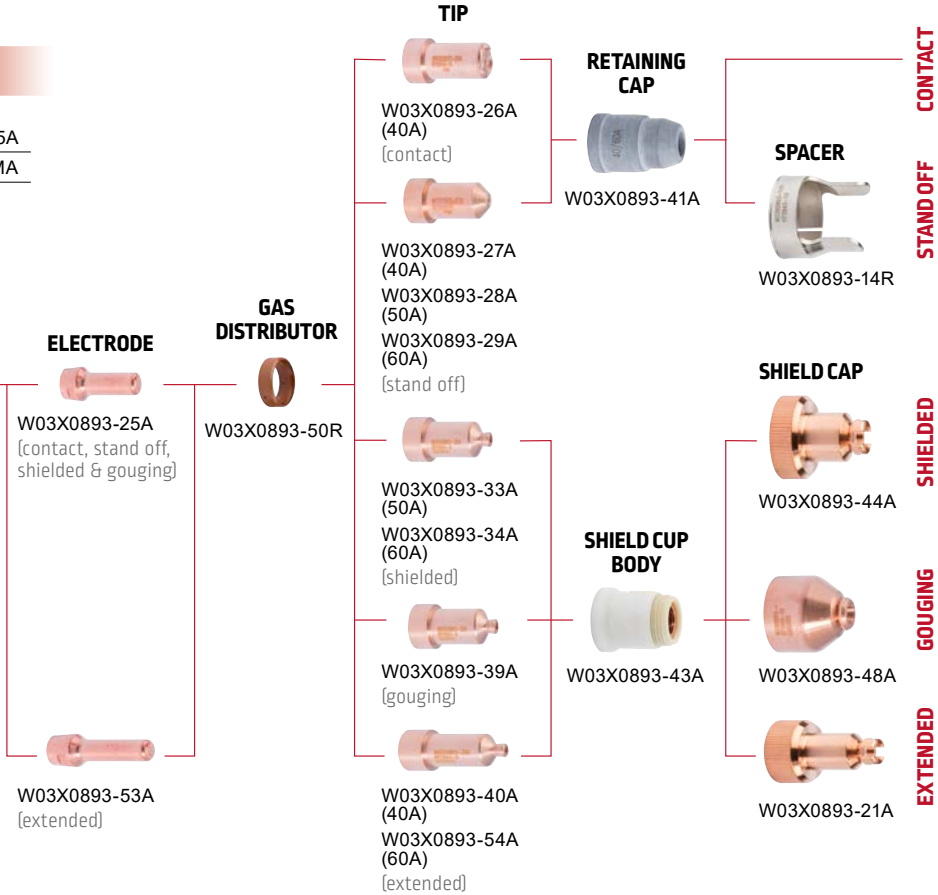


**PLASMA-BOX LC25**  
 W03X0893-118A

# 25/30 mm

## LC 65 (Hand)

LC 65 Hand 75M	PTH-061A-CX-7M5A
LC 65 Hand 15M	PTH-061A-CX-15MA



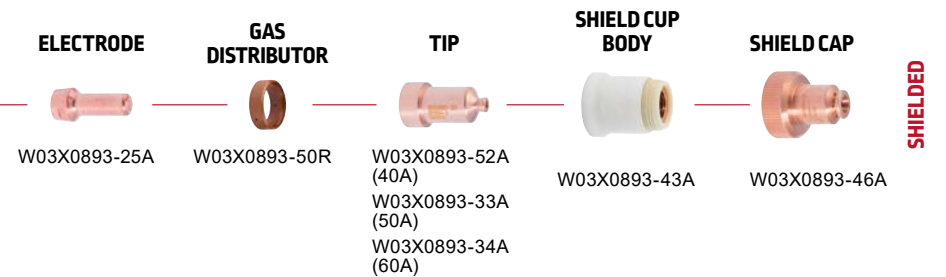
Part	Quantity	Reference
Electrode	25	W03X0893-25A
	3	W03X0893-53A
Gas distributor	2	W03X0893-50R
	10	W03X0893-29A
Tip	5	W03X0893-34A
	3	W03X0893-39A
	3	W03X0893-54A
	1	W03X0893-41A
Retaining cap	1	W03X0893-41A
Shield cap body	1	W03X0893-43A
Spacer	1	W03X0893-14R
Shield cap	1	W03X0893-44A
	1	W03X0893-48A
O-ring	2	-
Silicone lubricant for o-ring	1	-



**PLASMA-BOX LC65**  
W03X0893-113A

## LC 65M (Machine)

LC 65M Machine 75M	PTM-061A-CX-7M5A
LC 65M Machine 15M	PTM-061A-CX-15MA

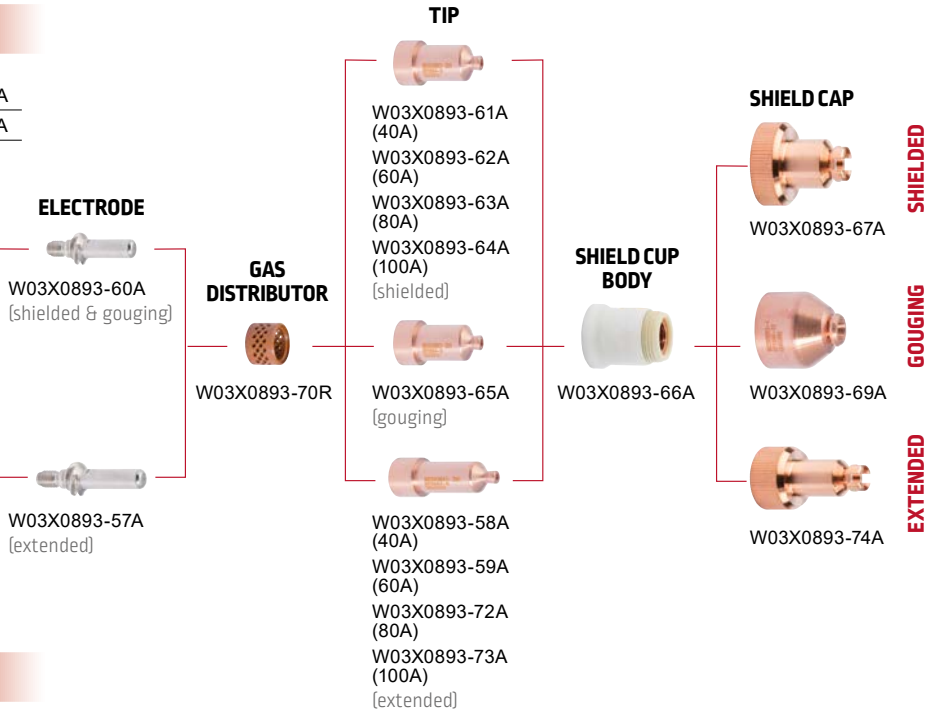




# 40/45 mm

## LC 105 (Hand)

LC 105 Hand 75M	PTH-101A-CX-7M5A
LC 105 Hand 15M	PTH-101A-CX-15MA



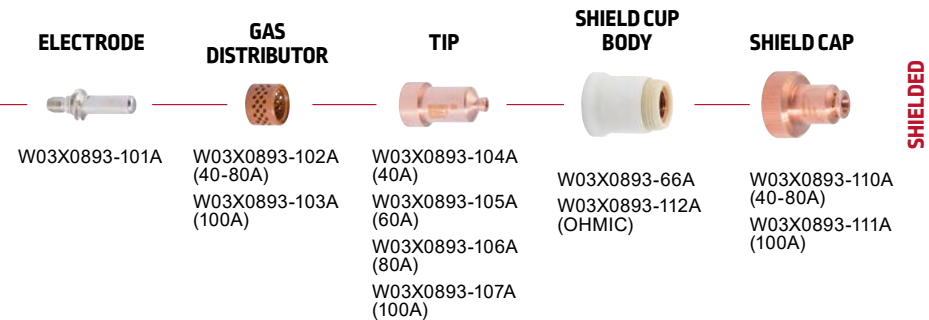
Part	Quantity	Reference
Electrode	20	W03X0893-60A
	3	W03X0893-57A
Gas distributor	2	W03X0893-70R
	5	W03X0893-62A
Tip	15	W03X0893-64A
	5	W03X0893-65A
	3	W03X0893-73A
Shield cap body	1	W03X0893-66A
	1	W03X0893-67A
Shield cap	1	W03X0893-69A
	1	W03X0893-74A
	2	-
O-ring	2	-
Silicone lubricant for o-ring	1	-
O-ring	2	-
Silicone lubricant for o-ring	1	-



**PLASMA-BOX LC105**  
W03X0893-115A

## LC 105M (Machine)

LC 105M Machine 75M	PTM-101A-CX-7M5A
LC 105M Machine 15M	PTM-101A-CX-15MA



Part	Quantity	Reference
Electrode	20	W03X0893-101A
	1	W03X0893-102A
Gas distributor	2	W03X0893-103A
	5	W03X0893-105A
	10	W03X0893-106A
Tip	20	W03X0893-107A
	1	W03X0893-112A
Shield cap body	2	W03X0893-110A
	2	W03X0893-111A
O-ring	2	-
Silicone lubricant for o-ring	1	-



**PLASMA-BOX LC105M**  
W03X0893-117A

#### **CUSTOMER ASSISTANCE POLICY**

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