

PLASMA CUTTING RANGE

TOMAHAWK® 30K • TOMAHAWK® 45
TOMAHAWK® 1025 • TOMAHAWK® 1538



www.lincolnelectric.eu

LINCOLN®
ELECTRIC

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).

Portable, flexible cutting power up to 16 mm for the model 30A compressor and 20mm for the model 45A.

TOMAHAWK® 30K plasma cutting system arrives ready to go for fast and precise cutting. With the 30K, forget the grinder – simply pick up the torch and cut in seconds **TOMAHAWK® 45** plasma cutting systems are portable enough to carry to any jobsite. Hook up the compressed air, grab the torch and start cutting right away.

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 vertically mounted
- Capable of surviving the harshest testing conditions
- Varnished and potted electronic boards

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



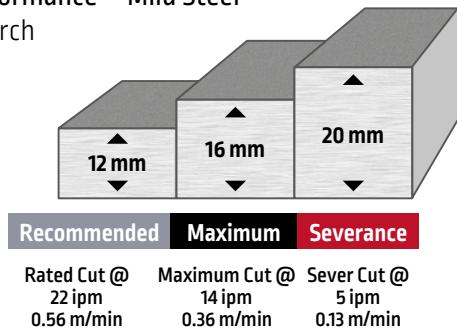
TOMAHAWK® 30K

Features

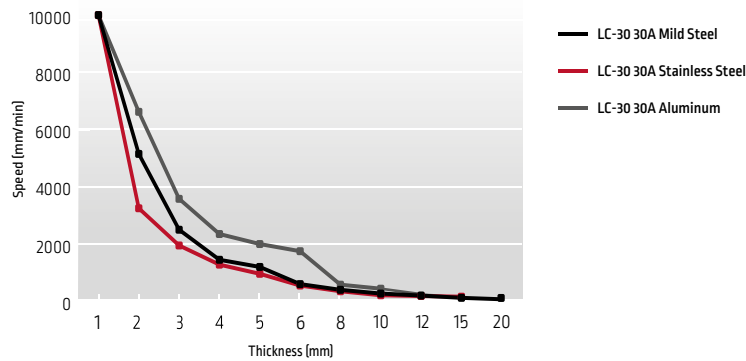
- **Ultimate Portability** – Internal air compressor enables operation in environments where external compressed air is not available.
- **Continuous Output Control** – Focus the arc for different material thickness.
- **Touch Start system** – Reliable plasma arc initiation without high frequency.
- **Rapid Arc Restrike** – Fast cutting through gaps, even expanded metal.
- **Front Panel Purge Control** – Makes it easy to set the air flow rate without initiating the plasma arc.
- **Cool Operation, Long Consumable Life** – New electrode and nozzle design save you money in the long run.
- **Added Safety** – Our Parts-in-Place system detects correct installation of consumables and torch.
- **Engine Drive Compatible** – Select a Lincoln Electric engine driven welder to power your tomahawk in remote locations



Cut performance – Mild Steel Hand Torch



CUTTING PERFORMANCE



Processes

- Plasma cutting
- Grid

Applications

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

Input



Output



Tomahawk® 30K (K12038-3) includes:

- Internal air compressor (external air connection also standard)
- Lincoln Electric LC30 Torch with 4 m cable
- Air regulator and pressure gauge
- Internal water separator
- Work clamp and cable
- Spare consumables
- Input power cord



SPECIFICATIONS

Product Name	Product Number	Input Power	Rated Output Current/ Voltage/Duty Cycle	Fuse (delayed) or Circuit Breaker	Pilot Current	Output Range	Air Pressure Required	Air Flow Rate Required	Dimensions H x W x D (mm)	Net Weight Without Torch (kg)
Tomahawk® 30K	K12038-3	230/1/50	30A@60% 25A@100%	16A	20A	15-30A	5.0bar – 6,0bar	125 ±10% l/min	385 x 215 x 480	18.5

Processes

- Plasma cutting
- Grid
- Gouging
- Piercing

Applications

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

Input



Output



Tomahawk® 45 (K14391-1) includes:

- Lincoln Electric LC45 Torch with 6 m cable
- Air regulator and pressure gauge
- Internal water separator
- Work clamp and cable
- Input power cord



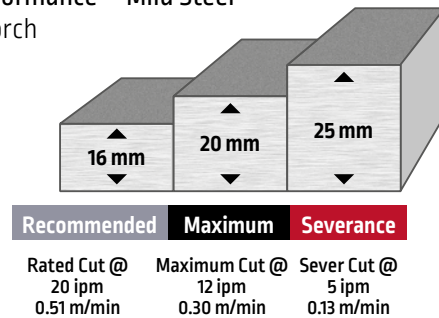
TOMAHAWK® 45

Features

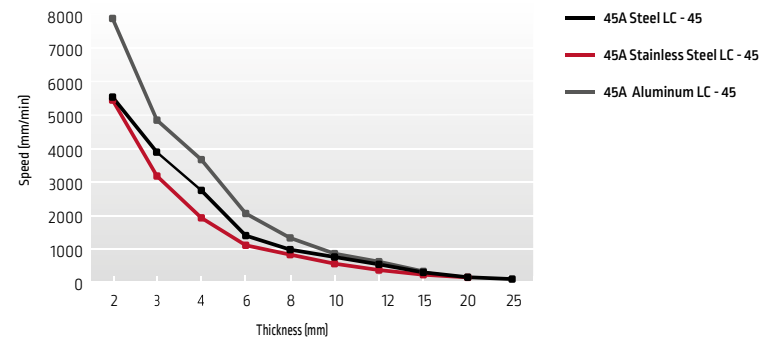
- **TFT 2,8" screen** – For an easier and user friendly user interface
- **Continuous Output Control** – Focus the arc for different material thickness.
- **Touch Start system** – Reliable plasma arc initiation without high frequency.
- **Rapid Arc Restrike** – Fast cutting through gaps, even expanded metal.
- **Front Panel Purge Control** – Makes it easy to set the air flow rate without initiating the plasma arc.
- **Gouging and Grid modes** [adjustable grid's time].
- **Cool Operation, Long Consumable Life** – New electrode and nozzle design save you money in the long run.
- **Added Safety** – Our Parts-in-Place system detects correct installation of consumables and torch.
- **Lightweight and Portable** – Easily carried by one person.
- **Engine Drive Compatible** – Select a Lincoln Electric Outback® or Vantage® to power your Tomahawk® in remote locations



Cut performance – Mild Steel Hand Torch



CUTTING PERFORMANCE



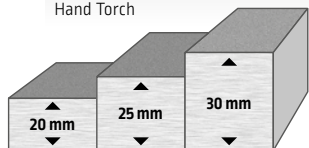
SPECIFICATIONS

Product Name	Product Number	Input Power	Rated Output Current/ Voltage/Duty Cycle	Fuse (delayed) or Circuit Breaker	Pilot Current	Output Range	Air Pressure Required	Air Flow Rate Required	Dimensions H x W x D (mm)	Net Weight Without Torch (kg)
Tomahawk® 45	K14391-1	120/230/1/50/60	at 230Vac 45A@45% 40A@60% 30A@100% at 120Vac 22A@60% 15A@100%	16A	20A	15- 45A [230Vac] 15- 22A [120Vac]	5,0bar – 6,0bar	200 ±10% l/min	385 x 215 x 480	11.1

TH1025

CUT PERFORMANCE – MILD STEEL

Hand Torch



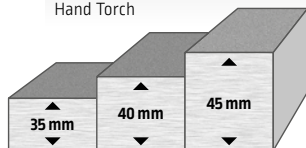
Recommended Maximum Severance

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

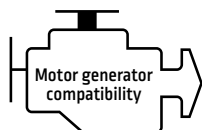


Recommended Maximum Severance

Rated Cut @ 0,38 m/min Maximum Cut @ 0,32 m/min Sever Cut @ 0,18 m/min

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.
- Step less current control.
- Remote kit (optional) that allows the unit to receive an external ON-OFF trigger for mechanized processes (only for TH1538)



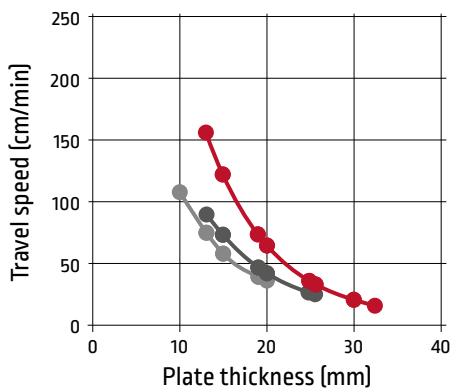
MOTOR GENERATOR COMPATIBILITY:

- 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

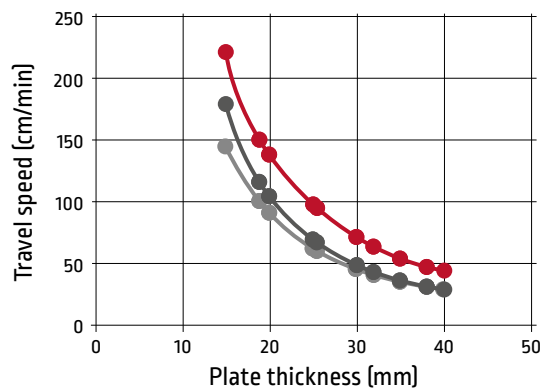
Tomahawk® 1025 with LC65

Comparison at 60A



Tomahawk® 1538 with LC105

Comparison at 100A



● Aluminium ● Mild ● Stainless

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



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 ±15%	60A/40% 40A/100%	25	Max. 12	130 ±20% l/min @ 5,5bar	6,0 - 7,5 bar	20-60	22	389 x 247 x 510
Tomahawk® 1538	K12039-1		100A/40% 60A/100%	40	Max. 20	280 ±20% l/min @ 5,5bar	6,0 - 7,5 bar	20-100	34	455 x 301 x 640

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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
- 7,5 m-hand cutting torch
- Ground clamp and cable
- Air connection kit
- Cutting torch consumables kit



KEY OPTIONS

		Tomahawk® 30K	Tomahawk® 45	Tomahawk® 1025	Tomahawk® 1538
Product Number		K12038-3	K14391-1	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			•	•
Circle kit to suit LC45	W100000338		•		
Bevel tool to suit LC45	W100000339		•		

TORCHES

		Tomahawk® 30K	Tomahawk® 45	Tomahawk® 1025	Tomahawk® 1538
Product Number		K12038-3	K14391-1	K12048-1	K12039-1
LC 30 (Hand)	W100000325	•			
LC 45 (Hand)	W100000327		•		
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				•

RECOMMENDED ACCESSORIES



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)



UNDERCARRIAGE W0200002



UNDERCARRIAGE K2694-1

PLASMA CIRCLE CUTTING GUIDE KIT (CUTTING CIRCLES max diam. 820mm)

W0300699A

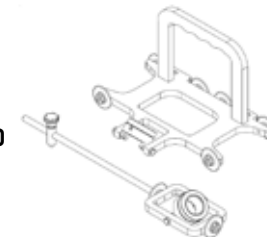


BEVEL TOOL W03X0893-119A



BEVEL TOOL TO SUIT LC45 W100000339

CIRCLE KIT TO SUIT LC45 W100000338



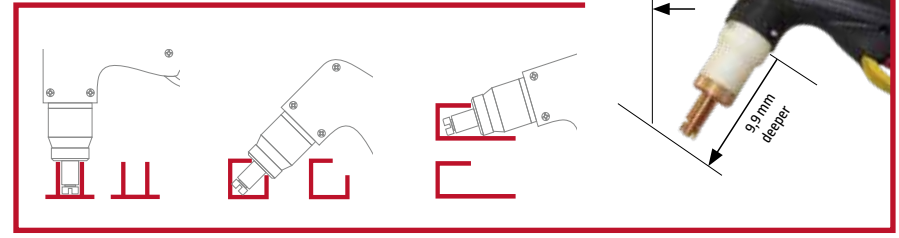
MODERN TORCH TECHNOLOGY

LC65 and LC105

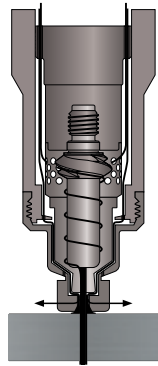
– the new torches with longer life time (running cooler). More cutting thickness, higher speed, standard and grid cutting.

- 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**

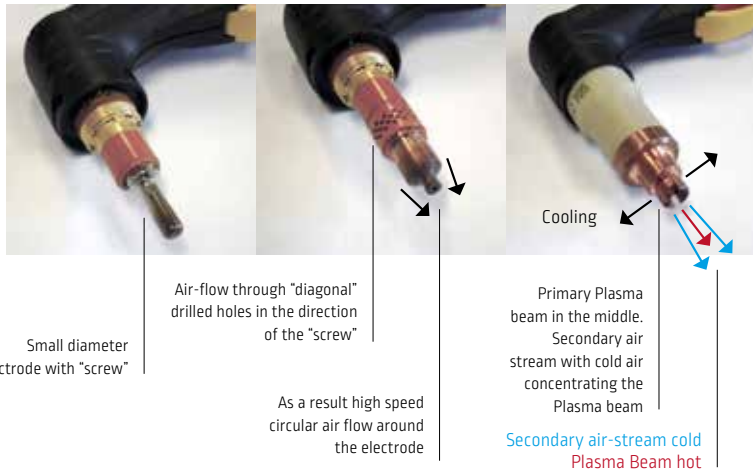


For connection equipment /torch the Tomahawk are provided by **CENTRAL CONNECTOR**



LC105 torch design with drag cup

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



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

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

Secondary air-stream cold
Plasma Beam hot



CONTACT OPTION 1	STAND-OFF OPTION 2	GOUGE OPTION 3
Convenient for the operator, simply drag the nozzle on the plate. Well protected 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 : 90 cm/min
- Suggested torch inclination: 55° from vertical
- Suggested Air pressure : 4,0-4,5 bar
- Print on metal piece : 0,066 cm²
- Material removal capability : 6 cm³/min.

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TOMAHAWK 1538

Gouging application with manual plasma torch LC105

- Material : Mild Steel
- Suggested speed : 90 cm/min
- Suggested torch inclination: 55° from vertical
- Suggested Air pressure : 4,0-4,5 bar
- Print on metal piece : 0,111 cm²
- Material removal capability : 10 cm³/min.

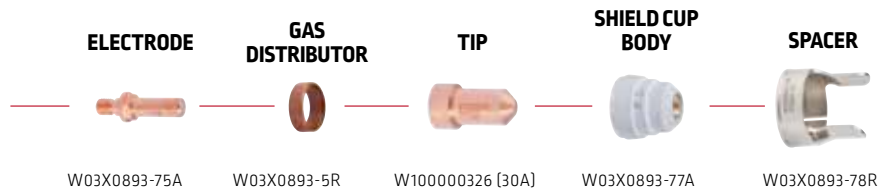
	LC65	LC105
Torch (Hand 7,5 m) (1 pc)	PTH-061A-CX-7M5A	PTH-101A-CX-7M5A
Torch (Hand 15 m) (1 pc)	PTH-061A-CX-15MA	PTH-101A-CX-15MA

LC 30 (Hand)

LC30 Hand 4m | W100000325



12/20 mm



PLASMA-BOX LC30
W100000361



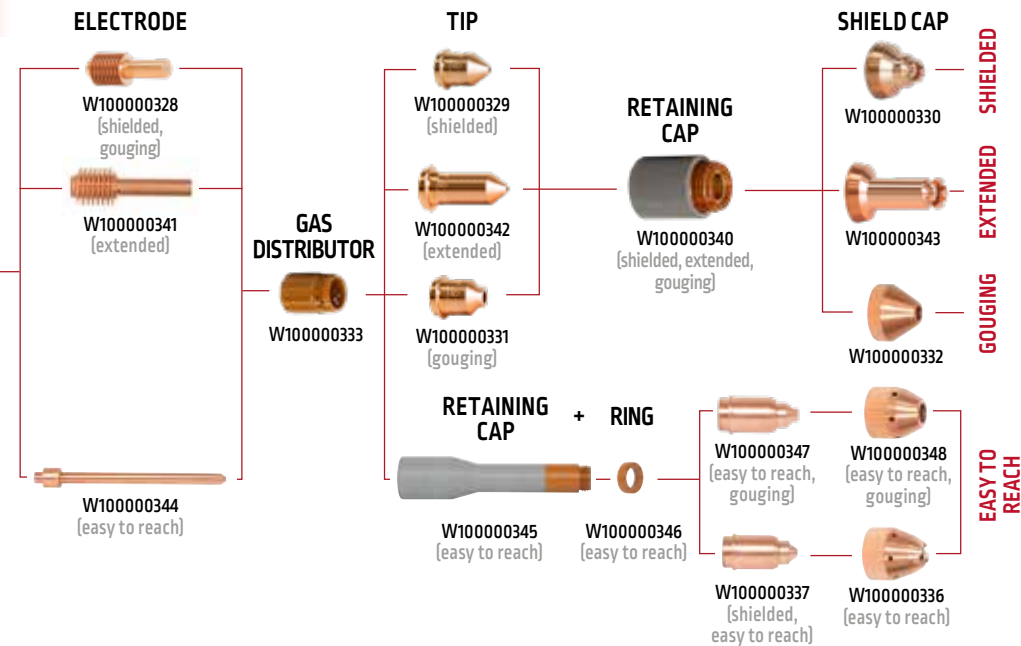
Part	Quantity	Reference	
Electrode	10	W03X0893-75A	
Gas distributor	3	W03X0893-5R	
Tip	shielded - 30A	10	W100000326
Shield cap body	1	W03X0893-77A	
Spacer	40 - 80A	3	W03X0893-78R

LC 45 (Hand)

LC45 Hand 6M | W100000327



16/25 mm



LEVEL CUT
W100000335



EASY TO REACH
CARTRIDGE
W100000334



PLASMA-BOX LC45
W100000362



Part	Quantity	Reference
Electrode	5	W100000328
Gas distributor	1	W100000333
Tip 45A	5	W100000329
Retaining Cap	1	W100000340
Shield Cap	1	W100000330

25/30 mm

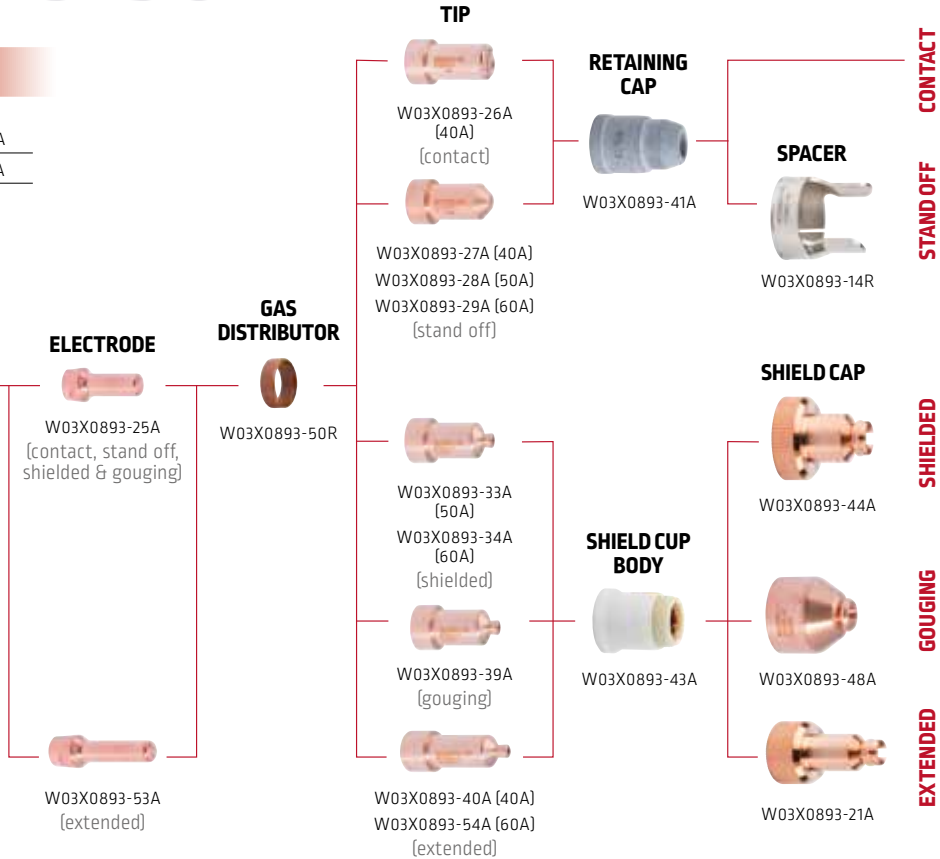
LC 65 (Hand)

LC 65 Hand 7,5M	PTH-061A-CX-7M5A
LC 65 Hand 15M	PTH-061A-CX-15MA



LC 65

Air cooled
130 l/min@5,0 bar
60A@60%
25mm mild steel
30mm severance



Part	Quantity	Reference
Electrode	25	W03X0893-25A
	3	W03X0893-53A
Gas distributor	2	W03X0893-50R
Tip	10	W03X0893-29A
	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
	1	W03X0893-21A
O-ring	2	-
Silicone lubricant for o-ring	1	-



PLASMA-BOX LC65
W03X0893-113A

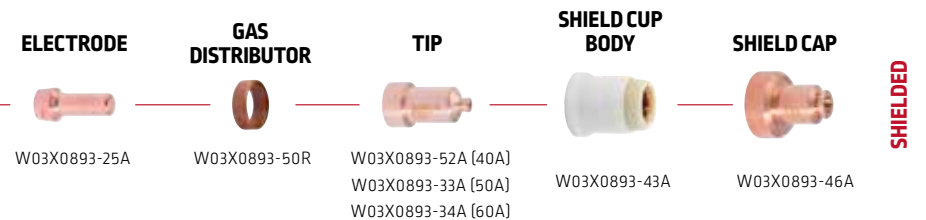
LC 65M (Machine)

LC 65M Machine 7,5M	PTM-061A-CX-7M5A
LC 65M Machine 15M	PTM-061A-CX-15MA



LC 65M

Air cooled
130 l/min@6,0 bar
60A@60%
25mm mild steel
30mm severance



40/45 mm

LC 105 (Hand)

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



ELECTRODE



GAS DISTRIBUTOR



TIP



SHIELD CUP BODY



SHIELD CAP



SHIELDED
GOUGING
EXTENDED

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
O-ring	2	-
Silicone lubricant for o-ring	1	-



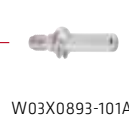
PLASMA-BOX LC105
W03X0893-115A

LC 105M (Machine)

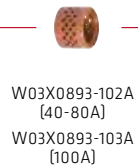
LC 105M Machine 75M	PTM-101A-CX-7M5A
LC 105M Machine 15M	PTM-101A-CX-15MA



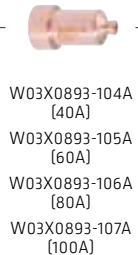
ELECTRODE



GAS DISTRIBUTOR



TIP



SHIELD CUP BODY



SHIELD CAP



SHIELDED

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



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WELDER
BY LINCOLN ELECTRIC



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CUSTOMER ASSISTANCE POLICY

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