LINC TORCH

TIG TORCHES RANGE

QUALITY MAKES THE DIFFERENCE

www.lincolnelectric.eu
# TABLE OF CONTENTS

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>WHAT’S NEW</td>
<td>4</td>
</tr>
<tr>
<td>RANGE / FEATURES / APPLICATIONS</td>
<td>5</td>
</tr>
<tr>
<td>ERGO &amp; ERGO FLEX MODELS</td>
<td>6</td>
</tr>
<tr>
<td>LEVER MODELS</td>
<td>8</td>
</tr>
<tr>
<td>VALVE MODELS</td>
<td>8</td>
</tr>
<tr>
<td>RANGE OVERVIEW</td>
<td>9</td>
</tr>
<tr>
<td>TECHNICAL SPECIFICATIONS</td>
<td>15</td>
</tr>
<tr>
<td>TUNGSTEN ELECTRODES</td>
<td>15</td>
</tr>
</tbody>
</table>
Lincoln Electric presents new TIG torches

**Linc Torch Premium – LTP Premium**

The Linc Torch Premium (LTP) range is enhancing our current range of TIG torches, providing better performance for the welder’s comfort. Designed to meet the challenges of a variety of applications in maintenance, fabrication or construction sites. New torches are offered in both air-cooled and water-cooled version. High quality components and modern design decide about the welding process efficiency and operator’s comfort.

Both LT and LTP torches are made in Europe, according to high quality standards. Their expendables are compatible with the international standard.

**FEATURES**

- Designed for industrial use
- Modern design
- High quality components
- Improved ergonomics
- High flexibility cables
- First 50cm IN LEATHER(*)
- Twist Mate™ power plug + 5 pins plug
- Expendables conforming the international standard
- Up/down module (1 button + POT10KΩ)

(*) «Valve» version excluded
RANGE / FEATURES / APPLICATIONS

Two ranges:
- LT Standard
- LTP Premium

Four configurations:
- Ergo
- Ergo Flex
- Valve
- Lever

Five sizes:
- 17
- 26
- 20
- 18
- 18 SC

Features / Advantages LTP
- High quality components
- Excellent grip
- High flexibility cable
- Terminal part in leather («Valve» version excluded)
- Optional up/down module
- Expendables conforming the international standard
- CE compliant

Applications
- Home/Farm/Shop
- Maintenance
- Fabrication
- Construction
LTP TORCHES: STRENGTHS

High flexibility cable

Terminal part in leather («Valve» version excluded)

Ball joint

LTP ERGO & ERGO FLEX

Made in Europe

Expendables compatible with the international standard

Switch control housing with extra grip surface

Cap with grip studs for a good grip

Easy to disassemble (no screws)

Bayonet ring to unlock the switch module
The torch comes with **ONE** button and a 5 pin plug.

**Optional Plug & Play UP/DOWN kit**

(Item number: KP10529-1):

- **ONE** button + 10 kΩ poti module
- A 6-pin plug

**Semi - closed switch system,**
Protects from moisture and dirt

**Ergonomic Grip**

**Easy interchangeable switch module**
(no screws)

**Optional Potentiometer**
(analog UP/DOWN)

**Ball joint at the end of the handle**

**First 50cm in leather,**
then neoprene for top flexibility
LTP LEVER

Expendables compatible with the international standard.

Switch lever for high sensitivity

Modern design

Classic “Tube” design

First 50cm in leather, then neoprene for top flexibility

LTP VALVE

Cap with grip studs for a good grip

Ball joint at the end of the handle

Easy to disassemble (no screws)
## RANGE OVERVIEW

<table>
<thead>
<tr>
<th>Cooling</th>
<th>Size</th>
<th>Power rating DC-AC</th>
<th>Length (m)</th>
<th>LTP Ergo</th>
<th>LT Ergo</th>
<th>LTP Ergo Flex</th>
<th>LTP Valve Conn. 10-25</th>
<th>LTP Valve Conn. 35-50</th>
<th>LTP Lever</th>
<th>LT Lever</th>
</tr>
</thead>
<tbody>
<tr>
<td>17</td>
<td>140A DC 100A AC @ 35%</td>
<td>4</td>
<td>K10529-17-4</td>
<td>K10513-17-4</td>
<td>--</td>
<td>K10529-17-4V</td>
<td>--</td>
<td>--</td>
<td>K10513-17-4F</td>
<td></td>
</tr>
<tr>
<td></td>
<td>8</td>
<td>K10529-17-8</td>
<td>K10513-17-8</td>
<td>--</td>
<td>--</td>
<td>K10529-17-8V</td>
<td>--</td>
<td>K10529-17-8F</td>
<td>--</td>
<td></td>
</tr>
<tr>
<td>26</td>
<td>180A DC 130A AC @ 35%</td>
<td>4</td>
<td>K10529-26-4</td>
<td>K10513-26-4</td>
<td>K10529-26-4X</td>
<td>--</td>
<td>K10529-26-4V</td>
<td>--</td>
<td>--</td>
<td>K10513-26-4F</td>
</tr>
<tr>
<td></td>
<td>8</td>
<td>K10529-26-8</td>
<td>K10513-26-8</td>
<td>K10529-26-8X</td>
<td>--</td>
<td>K10529-26-8V</td>
<td>--</td>
<td>K10529-26-8F</td>
<td>--</td>
<td></td>
</tr>
<tr>
<td></td>
<td>12</td>
<td>K10529-26-12</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td></td>
</tr>
<tr>
<td>20</td>
<td>220A DC 165A AC @ 100%</td>
<td>4</td>
<td>K10529-20-4</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>K10513-20-4F</td>
<td></td>
</tr>
<tr>
<td></td>
<td>8</td>
<td>K10529-20-8</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>K10529-20-8F</td>
<td>--</td>
</tr>
<tr>
<td>18</td>
<td>320A DC 290A AC @ 100%</td>
<td>4</td>
<td>K10529-18-4</td>
<td>K10513-18-4</td>
<td>K10529-18-4X</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>K10513-18-4F</td>
<td></td>
</tr>
<tr>
<td>18SC</td>
<td>400A DC 280A AC @ 100%</td>
<td>8</td>
<td>K10529-18SC-8</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td></td>
</tr>
</tbody>
</table>

“F” model torches feature a lever grip

“V” model torches have a gas valve for use with power sources without built-in solenoid valve

“X” model torches feature a flexible head for greater comfort and improved access to tight spaces

## TRIGGER PLUG

The trigger plug is easily interchangeable allowing the use of the UP/DOWN poti module and the connection to third party welders

---

Quick connection system

Standard 5-pin plug
Item number: KP10529-5

Optional 6-pin plug
Item number: KP10529-4

Optional quick connector with loose leads for third party welders
Item number: KP10529-6
STANDARD RANGE
LT 17 G 4M Ergo K10513-17-4
LT 17 G 8M Ergo K10513-17-8
LT 17 G 4M Lever K10513-17-4F

PREMIUM RANGE
LTP 17 G 4M Ergo K10529-17-4
LTP 17 G 8M Ergo K10529-17-8
LTP 17 G 4M Valve Conn. 10-25 K10529-17-4VS
LTP 17 G 4M Valve Conn. 35-50 K10529-17-4V
LTP 17 G 8M Valve Conn. 35-50 K10529-17-8V
LTP 17 G 8M Lever K10529-17-8F

Accessory Kits:
KP10516-11: Short & Long Cap, Collet & Collet Body 1.6mm & 2.4mm, Ceramic Nozzles 6.5mm & 11mm
KP10516-12: Short & Long Cap, Collet & Collet Body 2.4mm & 3.2mm, Ceramic Nozzles 9.5mm & 12.5mm

All the expendables are sold in packs of 10 pcs.
The part numbers in bold are the ones which are standard in the torch.
Air cooled 180A DC-130A AC @ 35%

**LTP 26 G / LT 26 G**

### Standard Range
- LT 26 G 4M  
  - Ergo: K10513-26-4
- LT 26 G 8M  
  - Ergo: K10513-26-8
- LT 26 G 4M  
  - Lever: K10513-26-4F

### Premium Range
- LTP 26 G 4M  
  - Ergo: K10529-26-4
- LTP 26 G 8M  
  - Ergo: K10529-26-8
- LTP 26 G 4M  
  - Valve Conn. 35-50: K10529-26-4X
- LTP 26 G 8M  
  - Valve Conn. 35-50: K10529-26-8X

### Accessory Kits:
- KP10516-11: Short & Long Cap, Collet & Collet Body 1.6mm & 2.4mm, Ceramic Nozzles 6.5mm & 11mm
- KP10516-12: Short & Long Cap, Collet & Collet Body 2.4mm & 3.2mm, Ceramic Nozzles 9.5mm & 12.5mm

All the expendables are sold in packs of 10 pcs.

The part numbers in **bold** are the ones which are standard in the torch.

www.lincolnelectric.eu
Water cooled  

220A DC-165A AC @ 100%

LTP 20 W / LT 20 W

**STANDARD RANGE**
- LT 20 W 4M Lever K10513-20-4F

**PREMIUM RANGE**
- LTP 20 W 4M Ergo K10529-20-4
- LTP 20 W 8M Ergo K10529-20-8
- LTP 20 W 8M Lever K10529-20-8F

---

**Accessory Kits:**

KP10516-10: Short & Long Cap, Collet & Collet Body 1.6mm & 2.4mm, Ceramic Nozzles 6.5mm & 11mm

All the expendables are sold in packs of 10 pcs.

The part numbers in **bold** are the ones which are standard in the torch.

---

**Lincoln Part.n.**
- 1.0 KP10502-10 13N21
- 1.6 KP10502-16 13N22
- 2.4 KP10502-24 13N23
- 3.2 KP10502-32 13N24

**Int. Part.n.**
- 1.0 IN21
- 1.6 IN22
- 2.4 IN23
- 3.2 IN24

**Lincoln Part.n.**
- 6.5 KP10512-4 13N08
- 8.0 KP10512-5 13N09
- 9.5 KP10512-6 13N10
- 11.0 KP10512-7 13N11
- 12.5 KP10512-8 13N12
- 16.0 KP10512-10 13N14

**Int. Part.n.**
- 6.5 IN08
- 8.0 IN09
- 9.5 IN10
- 11.0 IN11
- 12.5 IN12
- 16.0 IN14

---

**PREMIUM**
- All the expendables are sold in packs of 10 pcs.

**ST ANDARD**
- KP10504-10 13N26
- KP10504-16 13N27
- KP10504-24 13N28
- KP10504-32 13N29

**Int. Part.n.**
- 1.0 IN26
- 1.6 IN27
- 2.4 IN28
- 3.2 IN29

---

**GAS LENS**
- KP10506-10 45V4
- KP10506-16 45V43
- KP10506-24 45V44
- KP10506-32 45V45

**Int. Part.n.**
- 1.0 IN4
- 1.6 IN43
- 2.4 IN44
- 3.2 IN45

---

**CERAMIC NOZZLE**
- KP10512-4 13N08
- KP10512-5 13N09
- KP10512-6 13N10
- KP10512-7 13N11
- KP10512-8 13N12
- KP10512-10 13N14

**Int. Part.n.**
- 1.0 IN08
- 1.6 IN09
- 2.4 IN10
- 3.2 IN11
- 6.5 IN12
- 8.0 IN13
**Water cooled  320A DC-230A AC @ 100%**

**LTP 18 W / LT 18 W**

### STANDARD RANGE
- LT 18 W 4M  Ergo  K10513-18-4
- LT 18 W 8M  Ergo  K10513-18-8
- LT 18 W 4M  Lever  K10513-18-4F

### PREMIUM RANGE
- LTP 18W 4M  Ergo  K10529-18-4
- LTP 18W 8M  Ergo  K10529-18-8
- LTP 18W 4M  Ergo Flex  K10529-18-4X
- LTP 18W 8M  Ergo Flex  K10529-18-8X
- LTP 18W 8M  Lever  K10529-18-8F

---

### Accessory Kits:

- **KP10516-11**: Short & Long Cap, Collet & Collet Body 1.6mm & 2.4mm, Ceramic Nozzles 6.5mm & 11mm
- **KP10516-12**: Short & Long Cap, Collet & Collet Body 2.4mm & 3.2mm, Ceramic Nozzles 9.5mm & 12.5mm

All the expendables are sold in packs of 10 pcs.

The part numbers in **bold** are the ones which are standard in the torch.
**LTP 18 W SC**

**PREMIUM RANGE**  
LTP 18 W SC   Ergo  K10529-18SC-8

**Accessory Kits:**  
KP10516-13: Short & Long Cap, Collet & Collet Body 3.2mm & 4.0mm, Ceramic Nozzles 9.5mm & 12.5mm

---

<table>
<thead>
<tr>
<th>Φ (mm)</th>
<th>Lincoln Part.n.</th>
<th>Int. Part.n.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0</td>
<td>KP10503-10</td>
<td>10N22</td>
</tr>
<tr>
<td>1.6</td>
<td>KP10503-16</td>
<td>10N23</td>
</tr>
<tr>
<td>2.4</td>
<td>KP10503-24</td>
<td>10N24</td>
</tr>
<tr>
<td>3.2</td>
<td>KP10503-32</td>
<td>10N25</td>
</tr>
<tr>
<td>4.0</td>
<td>KP10503-20HD</td>
<td>5N20HD</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Φ (mm)</th>
<th>Lincoln Part.n.</th>
<th>Int. Part.n.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0</td>
<td>KP10507-804</td>
<td>8GJL04</td>
</tr>
<tr>
<td>1.6</td>
<td>KP10507-816</td>
<td>8GJL10</td>
</tr>
<tr>
<td>2.4</td>
<td>KP10507-832</td>
<td>8GJL32</td>
</tr>
<tr>
<td>3.2</td>
<td>KP10507-818</td>
<td>8GJL18</td>
</tr>
<tr>
<td>4.0</td>
<td>KP10507-853</td>
<td>8GJL53</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Φ (mm)</th>
<th>Lincoln Part.n.</th>
<th>Int. Part.n.</th>
</tr>
</thead>
<tbody>
<tr>
<td>6.5</td>
<td>KP10515-4</td>
<td>5N18</td>
</tr>
<tr>
<td>8.0</td>
<td>KP10515-5</td>
<td>5N17</td>
</tr>
<tr>
<td>9.5</td>
<td>KP10515-6</td>
<td>5N16</td>
</tr>
<tr>
<td>11.0</td>
<td>KP10515-7</td>
<td>5N15</td>
</tr>
<tr>
<td>12.5</td>
<td>KP10515-8</td>
<td>5N14</td>
</tr>
<tr>
<td>17.5</td>
<td>KP10515-12</td>
<td>5N19</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Φ (mm)</th>
<th>Lincoln Part.n.</th>
<th>Int. Part.n.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0</td>
<td>KP10504-53</td>
<td>NCB-53</td>
</tr>
<tr>
<td>1.6</td>
<td>KP10504-56</td>
<td>NCB-56</td>
</tr>
</tbody>
</table>

All the expendables are sold in packs of 10 pcs.  
The part numbers in bold are the ones which are standard in the torch.
## TECHNICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th></th>
<th>LTP</th>
<th>LT</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>LTP 17G</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>LTP 17G</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>LTP 18W</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>LTP 18W</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>LTP 18W SC</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>LTP 20W</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>LTP 20W</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>LTP 26G</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>LTP 26G</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Power rating</strong></td>
<td>DC</td>
<td>140A</td>
</tr>
<tr>
<td></td>
<td>AC</td>
<td>100A</td>
</tr>
<tr>
<td><strong>Duty Cycle</strong></td>
<td></td>
<td>35%</td>
</tr>
<tr>
<td><strong>Electrode Φ (mm)</strong></td>
<td>1.0÷2.4</td>
<td>1.0÷4.0</td>
</tr>
<tr>
<td><strong>Voltage class</strong></td>
<td>L</td>
<td>L</td>
</tr>
<tr>
<td><strong>Welding gas</strong></td>
<td>Argon DIN 32 526/1</td>
<td>Argon DIN 32 526/1</td>
</tr>
<tr>
<td><strong>Gas flow rate (lt/min)</strong></td>
<td>7÷15</td>
<td>7÷20</td>
</tr>
<tr>
<td><strong>Cooling</strong></td>
<td>Gas</td>
<td>Water</td>
</tr>
<tr>
<td><strong>Medium at entry hose package</strong></td>
<td>-</td>
<td>60°C</td>
</tr>
<tr>
<td><strong>Minimum quantity of cooling flow (lt/min)</strong></td>
<td>-</td>
<td>1.0</td>
</tr>
<tr>
<td><strong>Lowest pressure of entry</strong></td>
<td>-</td>
<td>2.5 bar</td>
</tr>
<tr>
<td><strong>Hightest pressure of entry</strong></td>
<td>-</td>
<td>5.0 bar</td>
</tr>
<tr>
<td><strong>Net weight (Kg) (4mt)</strong> (*)</td>
<td>1.82/2.02</td>
<td>2.00/2.10</td>
</tr>
<tr>
<td><strong>Net weight (Kg) (8mt)</strong> (*)</td>
<td>3.39/3.55</td>
<td>3.95</td>
</tr>
</tbody>
</table>

(* Weight depends on the torch version)

## NON-RADIOACTIVE TUNGSTEN ELECTRODES

A complete range of tungsten electrodes is proposed as alternative to thoriated, offering superior welding characteristics and avoiding problems with radioactivity.

- Longer lifetime
- Smaller diameter with same welding currents
- Less grinding
- Faster starts
- Better arc stability

<table>
<thead>
<tr>
<th>TYPE</th>
<th>COLOUR</th>
<th>APPLICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>WP – Pure</td>
<td>Green</td>
<td>Nickel, Bronze, Nickel Alloys, Aluminium, Aluminium Alloys, Magnesium, Magnesium Alloys</td>
</tr>
<tr>
<td>WR2 – Blended Oxide</td>
<td>Turquoise</td>
<td>Aluminium, Steel, Stainless Steel, Copper and Brass applications</td>
</tr>
<tr>
<td>WLa15 – Lanthanated</td>
<td>Gold</td>
<td>Aluminium, Aluminium Alloys, Stainless Steel, Copper, Bronze, Titanium</td>
</tr>
<tr>
<td>WCe20 – Ceriated</td>
<td>Grey</td>
<td>Steel Carbon, Steel, Stainless Steel, Bronze, Copper, Titanium</td>
</tr>
</tbody>
</table>

*ITEM n°: L = 150mm ITEM n°: L = 175mm Diameter (mm) Pack

<table>
<thead>
<tr>
<th>ITEM n°: L = 160mm</th>
<th>ITEM n°: L = 175mm</th>
<th>Diameter (mm)</th>
<th>Pack</th>
</tr>
</thead>
<tbody>
<tr>
<td>2124095</td>
<td>2124058</td>
<td>1.0</td>
<td>10</td>
</tr>
<tr>
<td>2124096</td>
<td>2124059</td>
<td>1.6</td>
<td>10</td>
</tr>
<tr>
<td>2124010</td>
<td>2124044</td>
<td>2.0</td>
<td>10</td>
</tr>
<tr>
<td>2124043</td>
<td>2124033</td>
<td>2.4</td>
<td>10</td>
</tr>
<tr>
<td>2124046</td>
<td>2124044</td>
<td>3.2</td>
<td>10</td>
</tr>
<tr>
<td>2124060</td>
<td>2105479</td>
<td>1.0</td>
<td>10</td>
</tr>
<tr>
<td>2124077</td>
<td>2105479</td>
<td>1.6</td>
<td>10</td>
</tr>
<tr>
<td>2124078</td>
<td>2105477</td>
<td>2.0</td>
<td>10</td>
</tr>
<tr>
<td>2124089</td>
<td>2105414</td>
<td>2.4</td>
<td>10</td>
</tr>
<tr>
<td>2124060</td>
<td>2105419</td>
<td>3.2</td>
<td>10</td>
</tr>
<tr>
<td>2124046</td>
<td>2105419</td>
<td>4.0</td>
<td>10</td>
</tr>
<tr>
<td>2124057</td>
<td>2105484</td>
<td>4.0</td>
<td>5</td>
</tr>
<tr>
<td>2124070</td>
<td>2104797</td>
<td>1.0</td>
<td>10</td>
</tr>
<tr>
<td>2124071</td>
<td>2103864</td>
<td>1.6</td>
<td>10</td>
</tr>
<tr>
<td>2124072</td>
<td>2103866</td>
<td>2.0</td>
<td>10</td>
</tr>
<tr>
<td>2124040</td>
<td>2103865</td>
<td>2.4</td>
<td>10</td>
</tr>
<tr>
<td>2124051</td>
<td>2103866</td>
<td>3.2</td>
<td>10</td>
</tr>
<tr>
<td>2124062</td>
<td>2103867</td>
<td>4.0</td>
<td>5</td>
</tr>
</tbody>
</table>
CUSTOMER ASSISTANCE POLICY

The business of The Lincoln Electric Company® 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.lincolnelectric.com for any updated information.