Features & Benefits

- **Multi-function control panel**
  The new digital control panel enables the operator to accurately set a wide range of parameters as they relate to each process. With the use of a LCD display, set-up time is greatly reduced and made more repeatable.

- **Powertrain**
  Allows for extremely accurate positioning and ensures continuous drive speed and pulling force that is not compromised by power fluctuations or varying load weight.

- **Multi-purpose cutting and welding**
  The machine comes standard with the ability to interface to most power sources. Whether cutting or welding, the IK-12 NEXT has a built-in control that will send command signals directly to an attached power source interlock switch.

**IK-12 NEXT is the latest model of straight line cutting & welding carriages**

Designed to replace the rugged IK-12 Max3, one of the most popular and longest selling cutting carriages in the fabrication industry.

The IK-12 NEXT is an incredibly strong, versatile tractor that is specifically designed to be compatible with most applications. With the ability to adapt to each process, the machine is versatile but still retains a simplistic operating system.
Newly equipped with welding and plasma cutting capabilities

**Post Bar** (1/8 in dia)
Compatible with previous machine “IK-12 Max3.”
Existing torch sets can be used.

**Arc control toggle switch**
Used to send signal to welder or plasma power source; On/Off or momentary.

**Digital display**
Used to view speeds and set parameters (imperial or metric units of measure).

**Mechanical clutch**
Used to engage/disengage drive transmission while jogging machine.

**Heat emission mechanism (Patented)**
Bottom of machine is ergonomically designed to displace heat, up to 45% of all heat effect can be deflected from the machine.

**Weaving control connector**
Sends signal to weaver attachment.

**Input power connector**
Combines power input with an interface switch to reduce to the amount of wires required.

**Function Dial**
Single knob will change all parameters to control the machine.

**Data input dial**
Used to input speeds and parameters in conjunction with function dial.

**Running direction toggle switch**
Used to set the direction of the tractor.

**Creep Button (Patented)**
Used to slow down the machine at the beginning and the end of a cut, primarily for thick plate cutting.
**IK-12 NEXT Machine Kits**

**Oxy-fuel cutting torch set**

<table>
<thead>
<tr>
<th>MODELS</th>
<th>DESCRIPTIONS</th>
<th>PART#</th>
</tr>
</thead>
<tbody>
<tr>
<td>S-100</td>
<td>Set Acetylene Kit</td>
<td>MAX3S1001002</td>
</tr>
<tr>
<td>S-100</td>
<td>Set LPG Kit</td>
<td>MAX3S1001006</td>
</tr>
</tbody>
</table>

Each kit includes:
- 1 IK-12 NEXT Unit
- 1 S-100 Torch Set w/ Snap Valve
- 1/6 ft Rail
- 3 Cutting Tips Sizes 0, 1, 2
- 1 Safety-Z Coupling Set

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<tr>
<td>S-200</td>
<td>Set LPG Kit</td>
<td>MAX3S2001006</td>
</tr>
</tbody>
</table>

Each kit includes:
- 1 IK-12 NEXT Unit
- 1 S-200 (3) Torch Set
- 1/6 ft Rail
- 3 Cutting Tips Sizes 0, 1, 2
- 1 Safety-Z Coupling Set

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<tr>
<td>SP-100</td>
<td>Set LPG Kit</td>
<td>MAX3SP1001006</td>
</tr>
</tbody>
</table>

Each kit includes:
- 1 IK-12 NEXT Unit
- 1 SP-100 (1) Torch Set
- 1/6 ft Rail
- 3 Cutting Tips Sizes 0, 1, 2
- 1 Safety-Z Coupling Set

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<tr>
<td>SP-200</td>
<td>Set LPG Kit</td>
<td>MAX3SP2001006</td>
</tr>
</tbody>
</table>

Each kit includes:
- 1 IK-12 NEXT Unit
- 1 SP-200 (2) Torch Set
- 1/6 ft Rail
- 3 Cutting Tips Sizes O, 1, 2
- 1 Safety-Z Coupling Set

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<tr>
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<td>MAX3SP3001002</td>
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<tr>
<td>SP-300</td>
<td>Set LPG Kit</td>
<td>MAX3SP3001006</td>
</tr>
</tbody>
</table>

Each kit includes:
- 1 IK-12 NEXT Unit
- 1 SP-300 (3) Torch Set
- 1/6 ft Rail
- 3 Cutting Tips Sizes 0, 1, 2
- 1 Safety-Z Coupling Set

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<tr>
<td>SP-400</td>
<td>Set Acetylene Kit</td>
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<tr>
<td>SP-400</td>
<td>Set LPG Kit</td>
<td>MAX3SP4001006</td>
</tr>
</tbody>
</table>

Each kit includes:
- 1 IK-12 NEXT Unit
- 1 SP-400 (3) Torch Set
- 1/6 ft Rail
- 3 Cutting Tips Sizes 0, 1, 2
- 1 Safety-Z Coupling Set

**Welding**

**Torch set for butt welding**

- **A type welding holder set**
  - is a single torch clamp that will give torch angle and tilt in all directions.
- **Pendulum Weaver**
  - Weaving unit increasing welding deposition with fewer passes.
  - Numerical control for swing width and speed.

**Plasma cutting**

- **Plasma holder set**
  - Allows torch to tilt +/- 45° for easy and accurate positioning.
  - IK-12 NEXT Plama Kit
    - (Customer must provide plasma unit)
    - Each kit includes:
      1 Machine Unit
      1 Plasma torch holder kit
      1/6 ft Rail
      Integrated power cable (Lincoln 5 pin interface cable)
      Optional Miller Welder Adapter 086583603

IK-12 NEXT has arc stabilization inside, which allows for programmable piercing.
## Accessories

### Optional Accessories

- **Standard rail 6 ft (1800mm)**
  - Part# ZM30400
  - Extendable 6 ft (1800mm) rail
  - Built of special steel to ensure longevity
  - Easy connection/no tools needed

- **Heavy-duty heat resistant rail 6 ft (1800mm)**
  - Part# ZS30407
  - Extendable, robust structure rail that does not bend.
  - Recommended when cutting thick plate over 2 in (150mm)

- **Vertical slide bar**
  - Part# ZS30390 (6in); ZS30430 (10in); ZS30433 (16in)
  - Extends torch up/down stroke, used when cutting from the side of plate.

- **Snap Valve**
  - Part# SNAPVALVEI: 1 torch
  - Part# SNAPVALVEII: 2 torches
  - Part# SNAPVALVEV: 300L Torch
  - Single action gas on/off
  - 2 models; single or two torches

- **Circle cutting rail**
  - Part# BCD19109
  - Cutting diameter:
    - Inside: Ø 1-7/8" - 14-7/8" in (40-360mm)
    - Outside: 30-3/4" - 45-1/4" in (770-1150 mm) with standard length cross bar.
  - Counter weight recommended

- **Circle cutting attachment**
  - Part# ZS31858
  - Cutting diameter Ø15-7/8 to 94-1/8 in (400-2400mm)

- **Twin torch attachment**
  - Part# ZA3312001
  - Enables 2-torch parallel cutting by attaching to a torch.
  - Torch distance 1-1/16" - 11-7/16" in (30-300mm)

- **Extended post bar**
  - Part# 60032374
  - 11.8 in (300mm) long stand
  - Allows torch head to raise above machine

- **Torch bevel attachment**
  - Part# 3311001
  - Accurate bevel cutting with angle indicator
  - Cuts bevel without tilting the torch

### Cross Bars

<table>
<thead>
<tr>
<th>Length (in)</th>
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</tr>
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<tbody>
<tr>
<td>13.7 (350mm)</td>
<td>ZS30300</td>
</tr>
<tr>
<td>19.6 (500mm)</td>
<td>ZS30321</td>
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<tr>
<td>31.5 (800mm)</td>
<td>ZS30424</td>
</tr>
<tr>
<td>47.4 (1200mm)</td>
<td>ZS30426</td>
</tr>
<tr>
<td>98.4 (2500mm)</td>
<td>ZS30429</td>
</tr>
</tbody>
</table>