PLASMA cutting machine

POWER PLASMA 2

RELIABLE, POWERFUL, ECONOMICAL

MADE IN GERMANY

www.jaeckle-sst.de
The plasma cutting machine for cutting all metals up to max. 75mm.

In general:

With plasma-cutting the material to be cut is melted by a plasma cutting arc (up to 30,000°C) and ejected of the cutting gap by the high kinetic energy. The plasma escapes of the nozzle with supersonic speed.

As this is a fusion process and not a combustion (cf. autogenous), rust, paint and corrosion are irrelevant.

In contrast to oxygen cutting there can not only be cut steel, but also all other metals, e.g. stainless steel, aluminium, copper, brass etc.

Usage of compressed air for plasma gas ensures an economical technique with low operating costs.

Not at least the plasma cutting is a secure process in which no combustible gas is used (plasma gas: compressed air or nitrogen)

Description
POWER PLASMA 2:

The JÄCKLE POWER 2 is a modern power source. The transistor control provides a constant cutting current independent of mains voltage fluctuations.

The adjusted cutting current can be read on a large digital display.

Control parts on front side:
- Main switch: ON/OFF
- Gas test: ON
- Change-over: INT/EXT
- Cutting current: 20 - 210A
- Plasma gas: bar (nom. 3,5)

The pilot arc will be started by means of a high frequency ignition (HF).

Focus of attention is on the easy handling and operation of the user.

Manual cutting:

- Straight cutting, circle cutting
- Profile cut
- Bevel cut (weld preparation)
- Hole piercing
- Perforated plate cutting (optional)
- Gouging
- Recycling (scrap metal cutting)

The conversion of cutting to gouging is made by a quick changing of the nozzle.

Air connection, cooling water inlet and supply connection are easily accessible. A well arranged control panel gives information on the complete functions and operating status. These are shown by LEDs.
In addition:

- robust water-cooled cutting torch
- stable sheet steel case
- big tyres for easy movement
- eye hooks for carriage e.g.: in assembly halls, on construction sites, etc.
- water installation separately to the live parts of the machine

The reliable JÄCKLE technology MADE IN GERMANY guarantees durability and big advantage.

The ignition system will be connected with the power source by intermediate hose pack (max. 30m). The plasma torch (6m) is connected with the ignition box. Therefore, an enlargement of the operating radius up to 36m is reached by the handy ignition system (8.8kg).

Options:

- plasma ignition box PZB 21

Overview

Function and equipment in series:

- suitable for water-cooled plasma cutting torches
- integrated water-cooling, big water tank
- transistor controlled: stepless adjustable cutting current 20-210 ampere
- plasma gas: compressed air or nitrogen
- contactless high frequency ignition
- inside torch connection for water-cooled plasma torch; optional central adaptor
- thermostat controlled, low noise fan
- thermal overload protection
- pilot lamp for current, lack of air, excess temperature and arc voltage
- switch and control system in dust-proof room
- diagnostic system, mal function code indication on display
- clearly arranged and service-friendly construction
- sign S
- including remote control socket in series (automation)
- suitable for gouging

Automation:

- remote control
- cnc-interface: signalling of cutting current, arc voltage, control voltage
### Technical Data

<table>
<thead>
<tr>
<th>Description</th>
<th>Specification</th>
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<tbody>
<tr>
<td>Supply Voltage</td>
<td>400 V, 3 phase</td>
</tr>
<tr>
<td>Fuse</td>
<td>63 A slow</td>
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<tr>
<td>Max. Power Draw</td>
<td>45 kVA</td>
</tr>
<tr>
<td>Cos Phi</td>
<td>0.85</td>
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<tr>
<td>Cutting Current</td>
<td>20-210 A stepless</td>
</tr>
<tr>
<td>Open Circuit Voltage</td>
<td>345 V</td>
</tr>
<tr>
<td>Duty Cycle (25°C)</td>
<td>100 %</td>
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<tr>
<td>Quality Cut</td>
<td>210 A / 164 V</td>
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<tr>
<td>Severance Cut</td>
<td>60 mm</td>
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<tr>
<td>Protection</td>
<td>75 mm</td>
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<tr>
<td>Insulation Class</td>
<td>IP 23</td>
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<tr>
<td>Type of Cooling</td>
<td>H (180°C)</td>
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<tr>
<td>Compressed Air Supply (water-cooled torch)</td>
<td>3.5 bar, 40l/min</td>
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<tr>
<td>Weight</td>
<td>366 kg</td>
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<tr>
<td>Dimensions l x w x h (mm)</td>
<td>1020 x 575 x 1070</td>
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<td>Article Number</td>
<td>866.200.001</td>
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</table>

Authorized for cutting under increased electrical hazard.

Manufactured in accordance with the European Standards: EN 60 974-1 and EN 50 199.

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