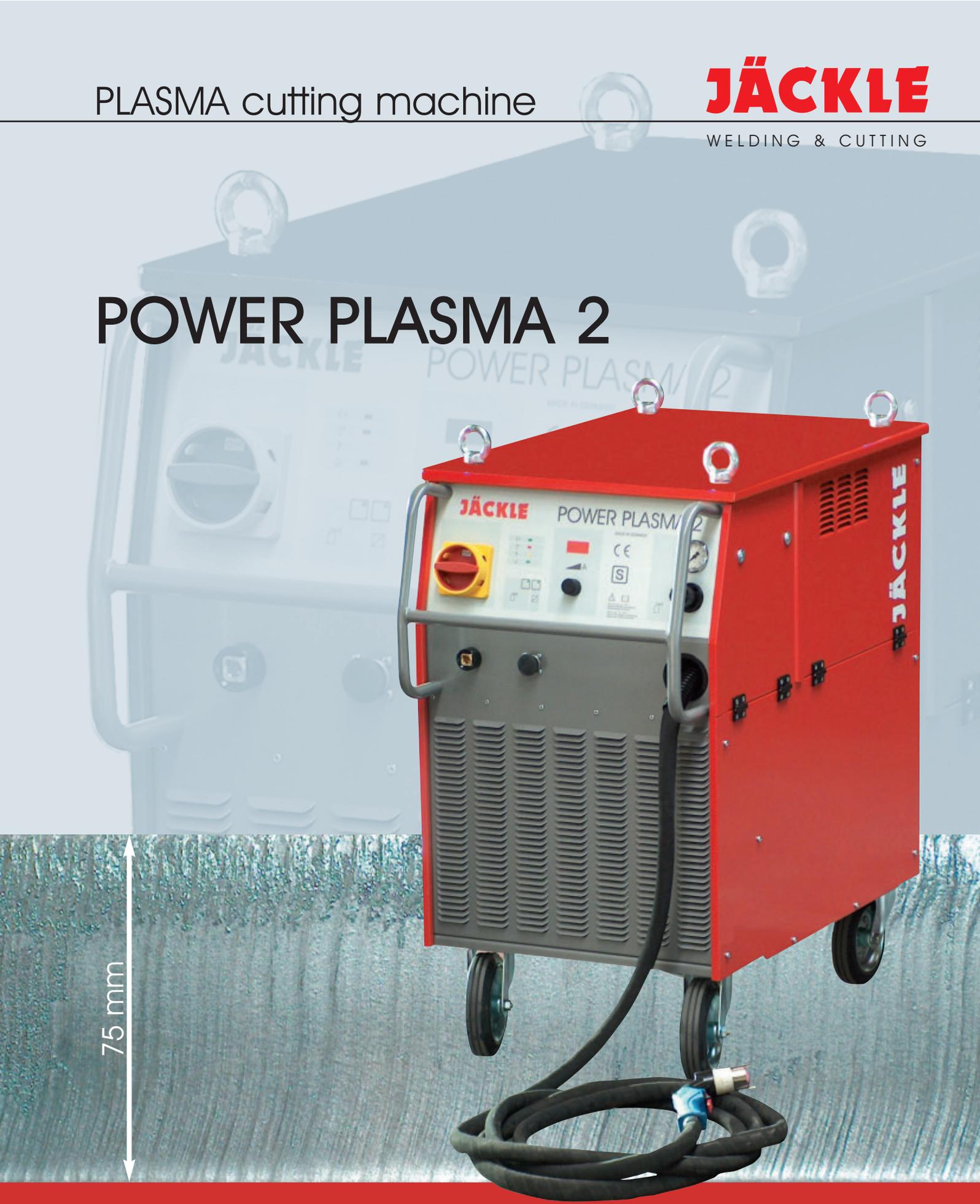


PLASMA cutting machine

**JÄCKLE**

WELDING & CUTTING

# POWER PLASMA 2



75 mm

RELIABLE, POWERFUL, ECONOMICAL

MADE IN GERMANY

[www.jaeckle-ssst.de](http://www.jaeckle-ssst.de)

## POWER PLASMA 2

- powerful
- economical
- water-cooled



front view

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.

Due to the high energy the material can be cut very fast, that means:

few heat input  
few distortion

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.

back view



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.

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.



cap for torch protection



accessories

**Options:**

plasma ignition box PZB 21

**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).

**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

# PLASMA cutting machine



technical data	Power 2
supply voltage, 50 Hz	400 V, 3 phase
fuse	63 A slow
max. power draw	45 kVA
cos phi	0,85
cutting current	20-210 A stepless
open circuit voltage	345 V
duty cycle (25°C) 100 %	210 A / 164 V
quality cut	60 mm
severance cut	75 mm
protection	IP 23
insulation class	H (180°C)
type of cooling	F
compressed air supply (water-cooled torch)	3,5 bar, 40l/min
weight	366 kg
dimensions l x w x h (mm)	1020 x 575 x 1070
article number	
water-cooled	866.200.001



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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