

## Sinking EDM machine OPS-INGERSOLL GANTRY EAGLE 500



|                     |                                      |
|---------------------|--------------------------------------|
| Manufacture         | OPS-INGERSOLL                        |
| Type                | GANTRY EAGLE 500                     |
| Year of manufacture | 2015 / only ca. 7.308 eroding hours  |
| Machine number      | 573769                               |
| Control             | EAGLE POWERTEC PC/NC control 3060    |
| Travels             | X – 525 mm / Y – 400 mm / Z – 450 mm |

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## EQUIPMENT

EAGLE POWERTEC PC/NC control 3060

- 22" screen with touchscreen operation
- Multiprog Powertec technology programming on PC/NC (without PC)
- Powertec 2 Easy Burn quick programming
- Powertec Handheld
  - multifunctional Handbediengerät
- manual eroding with Powertec Handheld
- Ethernet and USB interfaces
- MultiControl light

Eagle Powertec fine finishing generator PT60

Eagle Power Jump with 18m/min. interval speed in the Z-axis

C-axis without chuck

Electrode changer 20-fold

Pressure flushing programmable, suction connection manual

Filter system, 16 m<sup>2</sup> paper candle

CO<sub>2</sub> fire extinguishing system

Machine shoes

Painting: Textured in cobalt blue (RAL 5013), tele grey (RAL 7045), rape yellow (RAL 1021)

Machine prepared for connection to central water cooling:

- Connection to the machine via enclosed hydraulic tubes and screw connection R1/2"
- Minimum requirements for the cooling circuit provided:
  - Cooling water supply temperature of 15° C ± 1° C
  - Cooling water pressure of at least 4 bar at the transfer point to the machine and a volume flow of at least 20 liters per minute
- If these requirements are not met, negative influences on machine accuracy and machining results are to be expected..

Eagle Power Jump Plus with 5 m/min. interval speed  
Interval speed X- and Y-axis including linear measuring system  
and high performance servo system in all axes

Electrode clamping system WA-Nr. 84661038  
EROWA ITS (ER-007521)

ECOTEC energy saving function

Eagle Powertec fine finishing package (OKL < VDI 16)

Electrode changer EW30

Preparation of external erosion mist extraction system  
- nozzle

Fire damper

MultiProg Powertec technology programming  
on CD for external programming station

including 4 EROWA plates

Machine parameters on storage medium

User guide / Documentation

All others accessories shown in the photos and video are not included in the scope of delivery, so they are not part of this sale. The scope of delivery only includes the accessories that are expressly listed here, in the offer, confirmation of order and invoice.

## TECHNICAL DATA

|                                                           |                   |                                     |
|-----------------------------------------------------------|-------------------|-------------------------------------|
| <b>Machine</b>                                            |                   |                                     |
| Machine weight                                            | kg                | 4.360                               |
| Generator weight                                          | kg                | 640                                 |
| Power input                                               | kVA               | 16                                  |
| Fuse protection                                           | A                 | 32                                  |
| Voltage/Frequency                                         | V/Hz              | 400/50                              |
| <b>Work tank</b>                                          |                   |                                     |
| Type                                                      |                   | Rise and fall tank, filled moveable |
| Clear dimensions (LxWxH)                                  | mm                | 770 x 670 x 440                     |
| Dielectric fluid level max. programmable/automatic        | mm                | 395                                 |
| <b>Work head</b>                                          |                   |                                     |
| max. head load                                            | kg                | 100                                 |
| Distance electrode-clamping chuck to work table min./max. | mm                | 135/585*                            |
| <b>Integrated C-axis</b>                                  |                   |                                     |
| RPM (adjustable)                                          | 1/min.            | 1 - 20                              |
| Angle positioning                                         | degree            | 0,001                               |
| Loading capacity manual electrode change                  | kg                | 50*                                 |
| Loading capacity automatic electrode change               | kg                | 15*                                 |
| Movement of inertia, max.                                 | kg/m <sup>2</sup> | 0,4*                                |
| Torque                                                    | Nm                | –                                   |
| <b>Worktable</b>                                          |                   |                                     |
| Surface (LxW)                                             | mm                | 750 x 650                           |
| Load capacity                                             | kg                | 1.000                               |

|                                    |                |                        |
|------------------------------------|----------------|------------------------|
| <b>Travel ways</b>                 |                |                        |
| X / Y / Z inside work tank         | mm             | 525 x 400 x 450        |
| Y (by electrode changing position) | mm             | 675                    |
| <b>Control</b>                     |                |                        |
| PC-NC-dialog                       |                | 2 x 32 bit             |
| Type of drive                      |                | digital AC-servo-drive |
| X, Y, Z rapid traverse             | mm/min.        | max. 5.000             |
| High Speed Jump max.               | mm/min.        | 18.000                 |
| <b>Dielectric-supply</b>           |                |                        |
| Filter unit                        |                | Cartridge (integrated) |
| Filter surface                     | m <sup>2</sup> | 16                     |
| Dielectric fluid, total volume     | ltr            | 400                    |
| <b>Electrode changer</b>           |                |                        |
| Type                               |                | Pick-up rotary disk    |
| Positions                          |                | 20                     |
| Combi-magazine positions optional  |                |                        |
| Electrode weight                   |                |                        |
| - Single electrode                 | kg             | 15*                    |
| - Total weight                     | kg             | 60*                    |
| <b>Generator</b>                   |                |                        |
| Type                               |                | adaptive current       |
| Machining power, max. (Option)     | A              | 60 (110)               |

\* Note: The values stated are maximum values, which may vary according to the clamping system used.



# TRANSPORT

## Transport mit einem Kran

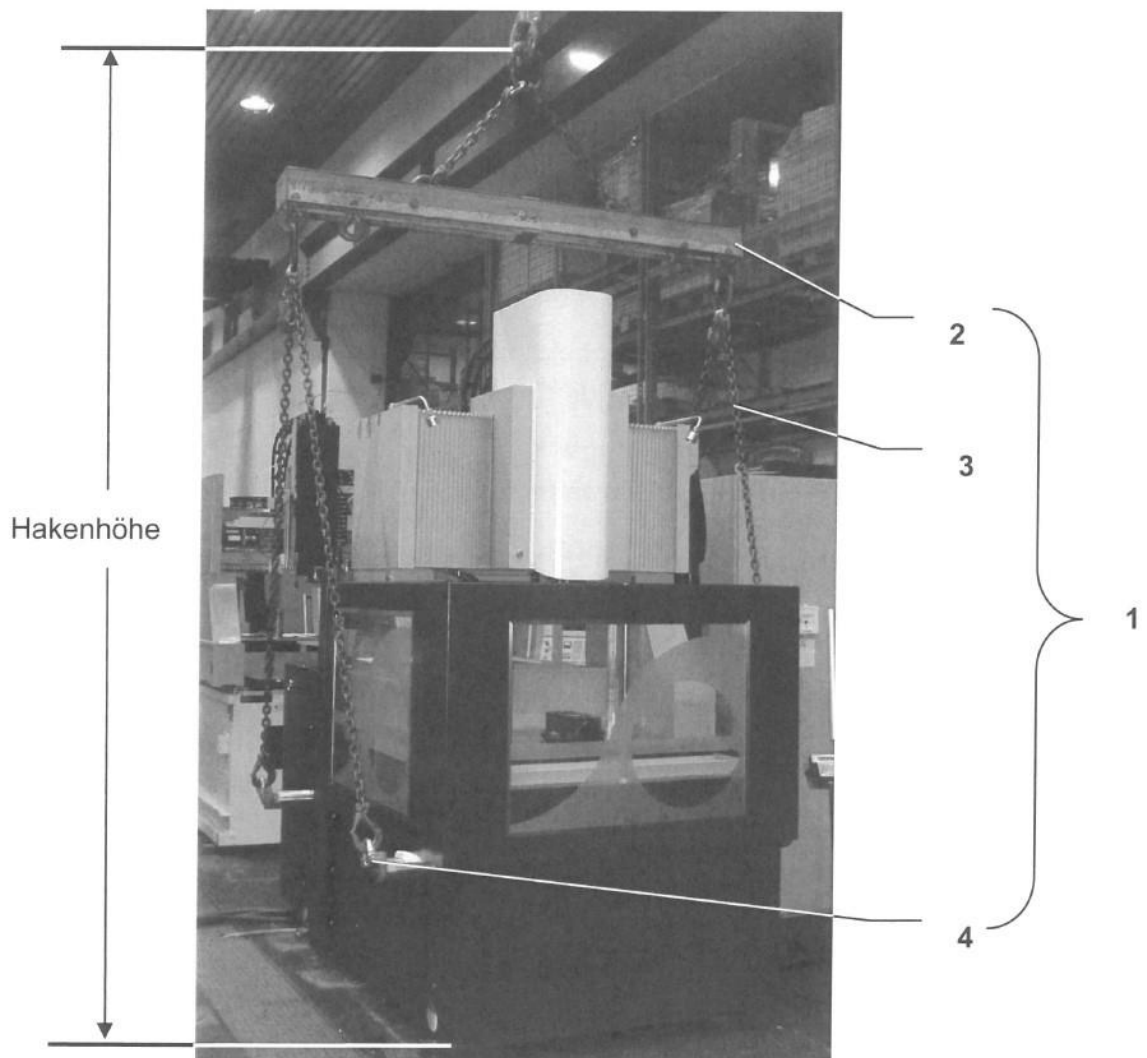


Bild 4-5 Transport mit dem Kran **GANTRY EAGLE 400 / 500**

- |   |                   |   |                      |
|---|-------------------|---|----------------------|
| 1 | Transportgeschirr | 3 | Tragseil oder -kette |
| 2 | Traverse          | 4 | Anhängeschraube      |

### 4.3.3 Abladen

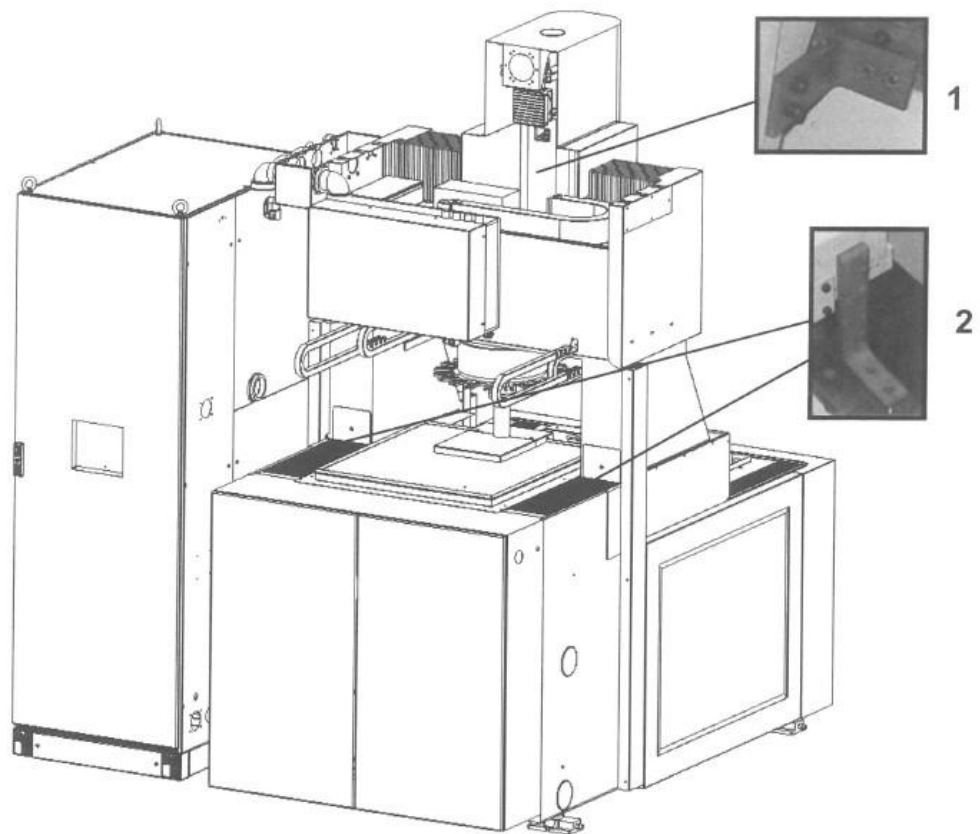
Das Abladen der Funkenerosionsmaschine **GANTRY EAGLE** sollte durch einen beauftragten Krandienst und in dessen Verantwortung erfolgen.

Erfolgt das Abladen in Verantwortung des Betreibers der Funkenerosionsmaschine **GANTRY EAGLE**, sind die folgenden Sicherheitshinweise zu beachten:

#### HINWEIS:

- Die Funkenerosionsmaschine **GANTRY EAGLE** nur mit einem Kran und dem von OPS-INGERSOLL beigestellten Transportgeschirr transportieren.
- Der Kran (Gabelstapler ggf. für Steuerschrank) muss für das entsprechende Gewicht zugelassen sein!
- Nur berechnigte Kranführer bzw. Gabelstaplerfahrer für das Transportieren beauftragen!
- Keine Transportsicherungen an der Funkenerosionsmaschine lösen!
- Keine Personen dürfen sich unter schwebenden Lasten aufhalten.
- Personen müssen beim Transport den Gefahrenbereich um das Transportmittel und die Last verlassen.





**Bild 4-14** Transportsicherungen an der ***GANTRY EAGLE 500***

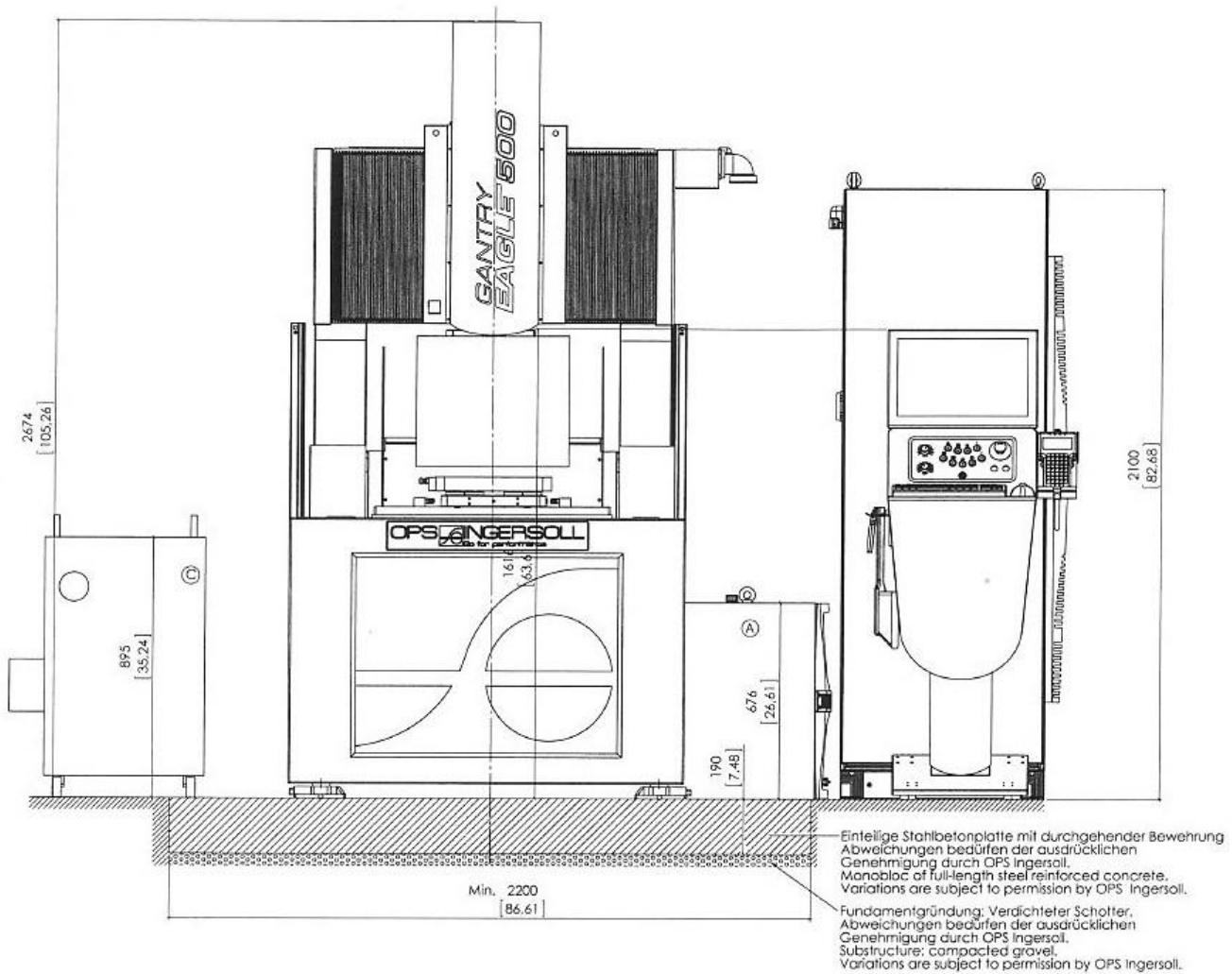
1 Transportsicherung X-Achse

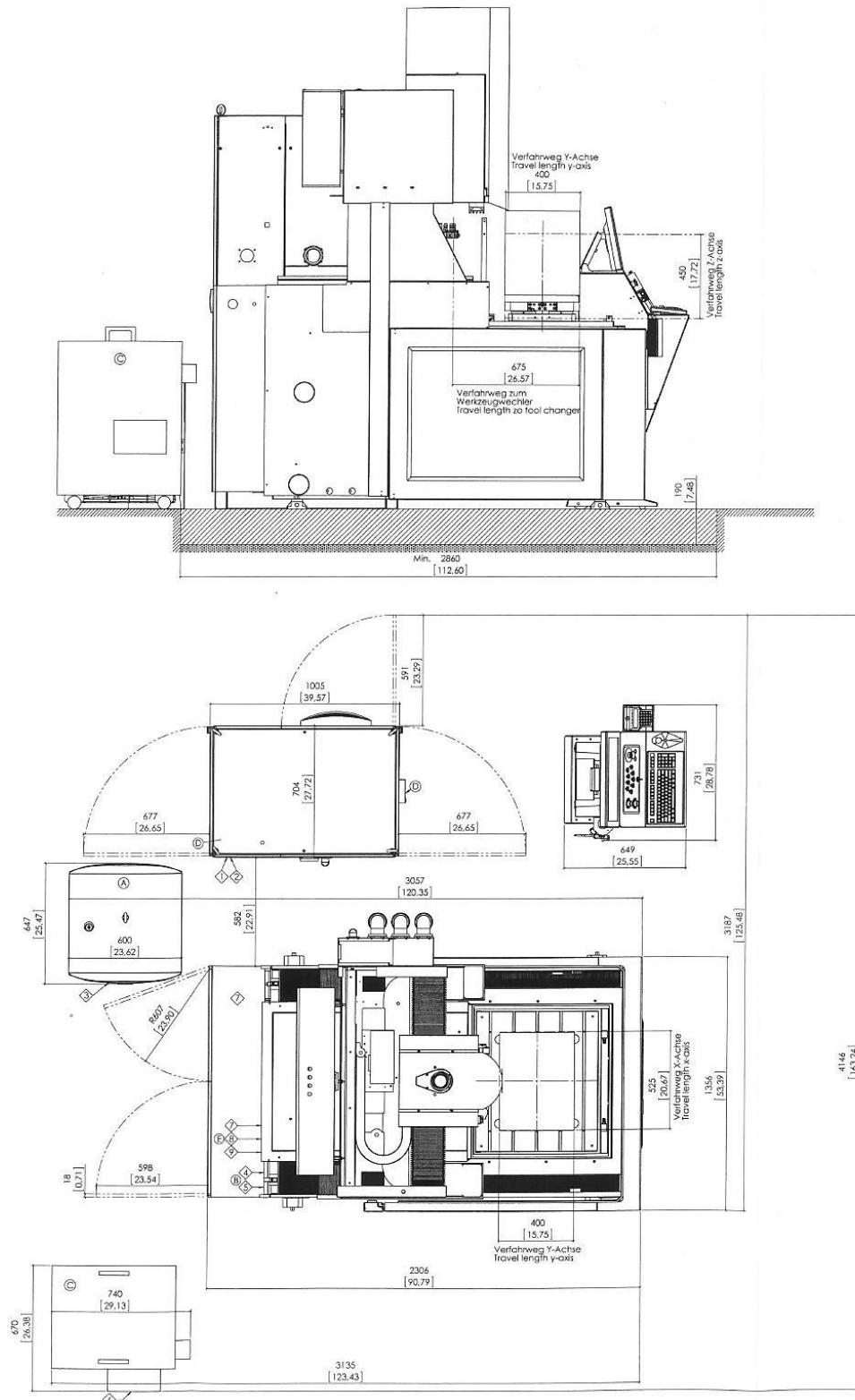
2 Transportsicherung Y-Achse

## PACKING LIST

| POS. | GOOD                                         | Length * | Width *  | Height * | Weight * |
|------|----------------------------------------------|----------|----------|----------|----------|
| 1.   | Machine + generator                          | 2.370 mm | 1.750 mm | 2.630 mm | 5.000 kg |
| 2.   | Control cabinet                              | 1.700 mm | 900 mm   | 2.310 mm | 750 kg   |
| 3.   | Control panel + clamping plates<br>on pallet | 1.200 mm | 800 mm   | 1.500 mm | 250 kg   |
|      | Total weight                                 |          |          |          | 6.000 kg |

# FLOOR PLAN





| Symbol | Bezeichnung / Description                                                                                    | Techn. Daten / Technical data                                        |                                            |                                               |
|--------|--------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|--------------------------------------------|-----------------------------------------------|
|        | Gewicht der Maschine<br>Weight of machine                                                                    | 4360 kg                                                              |                                            |                                               |
|        | Gewicht des Generator<br>Weight of generator                                                                 | 640 kg                                                               |                                            |                                               |
|        | Bodentragfähigkeit<br>Load capacity of floor                                                                 | min. 1500 DaN/m <sup>2</sup>                                         |                                            |                                               |
|        | Tragfähigkeit<br>Load capacity                                                                               | Tisch Table                                                          | C-Achse                                    |                                               |
|        |                                                                                                              | max. 1000 kg                                                         | max. 50 kg                                 |                                               |
| ①      | Netzanschlussspannung Maschine<br>Mains voltage machine                                                      | 3 x 400 V/1NPE, 50 Hz / 60 Hz                                        |                                            |                                               |
|        | Generator Eagle Power Tec.                                                                                   | 60 A                                                                 | 110 A                                      |                                               |
|        | Leistungsaufnahme<br>Power consumption                                                                       | 16 kVA                                                               | 18 kVA                                     |                                               |
|        | Vorsicherung<br>Fuse                                                                                         | max. 32 A                                                            |                                            |                                               |
|        | Kabelquerschnitt<br>Cable cross-section                                                                      | 5 x 6mm <sup>2</sup> (4x AWG 12)                                     |                                            |                                               |
|        | Länge Anschlusskabel: 5m<br>Length of power supply cable: 5m                                                 | 32-A-CEE-Stecker<br>32-A-CEE-plug                                    |                                            |                                               |
| ②      | Netzwerk Anschluss<br>Network connection                                                                     | RJ 45 Buchse<br>RJ 45 female connector                               |                                            |                                               |
|        | Dielektrikummenge<br>quality of dielectric                                                                   | 400 ltr<br>106 gal (US)                                              |                                            |                                               |
|        | Druckluftanschluss<br>Compressed air                                                                         | Anschluss<br>Connection<br>ID 9 mm                                   | Menge<br>Quantity<br>150 l/min             | Druck<br>Pressure<br>min. 7bar                |
|        | Anschluß an externe<br>Oldampfsabsaugung<br>connection to external exhaust system                            | Anschluß<br>connection<br>ID100                                      | vollum eff<br>min 470<br>m <sup>3</sup> /h | static al<br>pressure<br>1400PA               |
| Ⓐ      | <b>Option</b><br>Kühlergerät<br>Cooling Device                                                               | SK3334.609                                                           |                                            |                                               |
| ③      | Netzspannung<br>mains voltage                                                                                | 400V, 50Hz                                                           |                                            |                                               |
|        | Leistungsaufnahme<br>power consumption                                                                       | 2 kW / 3,4 kVA                                                       |                                            |                                               |
|        | Vorsicherung<br>Fuse                                                                                         | max. 16 A                                                            |                                            |                                               |
|        | Länge Anschlusskabel: 5m<br>Length of power supply cable: 5m                                                 | mit 16A CEE-Stecker<br>16 A - CEE plug                               |                                            |                                               |
| Ⓑ      | <b>Option</b><br>Anschluß an externen Wasserkreislauf<br>connection to external cooling-<br>watercirculation | Anschluß<br>connection                                               | Menge<br>quantity                          | Wasser-<br>temperatur<br>water<br>temperature |
| ④      | Kühlwasser Eingang<br>cooling water inlet                                                                    | cable strain<br>lock below                                           | 20L/min<br>4bar                            | 15°C +/- 1K                                   |
| ⑤      | Kühlwasser Ausgang<br>cooling water outlet                                                                   | Rohr NW 16, 3/4" Anschlüsse<br>Tube nominal dia. 16, 3/4" Anschlüsse |                                            |                                               |
| Ⓒ      | <b>Option</b><br>Oldampf Absauganlage<br>Oldmist Exhaust system                                              | INR 10                                                               |                                            |                                               |
| ⑥      | Netzanschlussspannung<br>Mains voltage machine                                                               | 400 V, 50 Hz / 60 Hz                                                 |                                            |                                               |
|        | Leistungsaufnahme<br>Power consumption                                                                       | 0,42 kVA                                                             |                                            |                                               |
|        | Vorsicherung<br>Fuse                                                                                         | max. 16 A                                                            |                                            |                                               |
|        | Länge Anschlusskabel: 5m<br>Length of power supply cable: 5m                                                 | mit 16.A.CEE-Stecker<br>with 16-A.CEE-Stecker                        |                                            |                                               |
| Ⓓ      | <b>Option</b><br>CO2-Feuerlöschanlage<br>CO2-Fire Extinguisher Unit                                          | KLA 6-E                                                              |                                            |                                               |
| Ⓔ      | <b>Option</b><br>Anschluß an externer Filteranlage<br>Connection to external filter system                   | Anschluß<br>connection                                               | Menge<br>quantity                          | Druck<br>Pressure                             |
| ⑦      | Anschluß Füllen/Umwälzen Dielektrikum<br>Connection filling/circulation dielectric                           | Muffe 1-1/4"<br>socket 1-1/4"                                        | 60 L/min<br>16gal/min                      | 1 bar                                         |
| ⑧      | Anschluß Spulen Dielektrikum                                                                                 | Muffe 1-1/4"                                                         | 20 L/min                                   |                                               |

|                                                                                                          |  |                                        |  |                                              |  |
|----------------------------------------------------------------------------------------------------------|--|----------------------------------------|--|----------------------------------------------|--|
| ALLGEMEINERLEISTUNGS- UND LEISTUNGS- U. NENN-<br>ANSÄTZE NACH DIN ISO 2286 METAL (BROUWER)               |  | WERKSTÜCKE                             |  | ✓ Ra 3,0<br>✓ Ra 3,2<br>✓ Ra 0,8<br>✓ Ra 0,1 |  |
| BEZUGS- UND VERGLEICHSPUNKTE<br>(NACH DIN ISO 2286 METAL (BROUWER))                                      |  | DATUM<br>06-01-12                      |  | NAME<br>ide/tech                             |  |
| OPS-INGERSOLL<br>Funktionsbereich<br>Gantry Eagle 500<br>57399 Burbach<br>SCHULSTRASSE 100 67346 BURBACH |  | MASSSTAB<br>1:10                       |  | OPS-INGERSOLL<br>Do it for performance       |  |
| BEZEICHNUNG<br><b>Aufstellungsplan</b><br>Gantry Eagle 500 (ab 573683)                                   |  | TECHNISCHE NR.<br><b>00122638 - 00</b> |  | BLATT NR.<br>1/1                             |  |
| 3                                                                                                        |  | 2                                      |  | 1                                            |  |



## MACHINE PICTURES







*Thank you very much for your interest*

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maschinen  Team



\*We do not guarantee the accuracy and completeness of these documents. We further do not assure any characteristics and qualities. The named machine, which is up for sale, is used.\*