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### Gouging-Software

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</tr>
<tr>
<td><img src="image" alt="AC/MIG" /></td>
<td>AC/MIG Optimal shrinkage control and gap bridging for thin sheet applications</td>
</tr>
<tr>
<td><img src="image" alt="Penetration Control" /></td>
<td>Penetration Control Ideal seam geometry with safe root detection</td>
</tr>
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<td><img src="image" alt="Wave Pulse" /></td>
<td>Wave Pulse Extended frequency range (0.5–32 Hz) by the AC/DC wave pulse function</td>
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<tr>
<td><img src="image" alt="AC/DC Hybrid (TIG)" /></td>
<td>AC/DC Hybrid (TIG) Controlled heat input with variably adjustable AC frequency (0.1-60 Hz)</td>
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<tr>
<td><img src="image" alt="Standard Pulse" /></td>
<td>Standard Pulse Stable and concentrated electric arc for both high-speed applications and root welding</td>
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<tr>
<td><img src="image" alt="MultiVario Arc" /></td>
<td>MultiVario Arc Easy change between hard and soft arc in the AC/TIG range</td>
</tr>
<tr>
<td><img src="image" alt="Plasma Welding" /></td>
<td>Plasma Welding A highly concentrated arc with up to 20,000 K</td>
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Welding Machine Devices
Welding Machine Devices
Series CPTX (MIG/MAG)

1. CPTX 180 aircooled, Euro-Adapter

- Perfect welding performance
- Easy handling
- Robust wire feeder
- S-Mark

Specifications, CPTX 180:
- Rated input voltage (+/-15%): 1X230 V/50Hz
- Range of output current: 25 - 170 A
- Range of output voltage: 15.2 - 22.5 V
- Rated duty cycle: 20 % with 170 A
  100 % with 80 A
- Weight: 48 Kg
- Dimensions (L/W/H): 733/427/638 mm
- Wire feeder (build in)
  - Diameter: 0,6-0,8 mm
  - Rate: 1-18 m/min

Basic Set

<table>
<thead>
<tr>
<th>Pos.</th>
<th>Art. No.</th>
<th>Description</th>
<th>PARTS</th>
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<tbody>
<tr>
<td>1</td>
<td>0004-04-0001*</td>
<td>CPTX 180 welding machine incl. wire feeder (build-in)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>0050-04-0001</td>
<td>Earth cable 4 m, 25 mm², 200 A with clamp and DIX plug</td>
<td></td>
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<tr>
<td>3</td>
<td>0110-04-0001</td>
<td>Pressure regulator Ar/CO₂</td>
<td></td>
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</tbody>
</table>

(*incl. Adapter and primary plug)

2. CPTX 270 aircooled, Euro-Adapter

- Perfect welding performance
- Easy handling
- Robust wire feeder 4-roll

Specifications, CPTX 270:
- Rated input voltage (+/-15%): 3 X 400 V/50Hz
- Range of output current: 30 - 250 A
- Range of output voltage: 15,5 - 26.5 V
- Rated duty cycle: 30 % with 250 A
  100 % with 180 A
- Weight: 76 Kg
- Dimensions (L/W/H): 841/535/765 mm
- Wire feeder (build in)
  - Diameter: 0,6-1,2 mm
  - Rate: 1-18 m/min

Basic Set

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<th>Pos.</th>
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<td>CPTX 270 welding machine incl. wire feeder (build-in)</td>
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<td>0050-04-0002</td>
<td>Earth cable 4 m, 35 mm², 300 A with clamp and DIX plug</td>
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<td>3</td>
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<td>Pressure regulator Ar/CO₂</td>
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<td>4</td>
<td>0050-04-0001</td>
<td>Earth cable 50xmm PVC, 4 m, 400A with clamp and DIX plug</td>
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</table>

(*incl. adapter /CEE plug 5-pin 32 A)

3. CPTX 330 aircooled, Euro-Adapter

- Perfect welding performance
- Easy handling
- Extremely reliable
- Robust wire feeder 4-roll

Specifications, CPTX 330:
- Rated input voltage (+/-15%): 3 X 400 V/50Hz
- Range of output current: 30 - 300 A
- Range of output voltage: 15,5 - 29 V
- Rated duty cycle: 35 % with 300 A
  100 % with 180 A
- Weight: 88 Kg
- Dimensions (L/W/H): 841/535/765 mm
- Wire feeder (build in)
  - Diameter: 0,6-1,2 mm
  - Rate: 1-18 m/min

Basic Set

<table>
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<tr>
<th>Pos.</th>
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<td>Pressure regulator Ar/CO₂</td>
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(*incl. adapter /CEE plug 5-pin 32 A)
**1. CPTX 400 aircooled, Euro-Adapter**

- Perfect welding performance
- Easy handling
- Extremely reliable
- Synergy control
- Choke function for best welding results

**Specifications, CPTX 400:**

- Rated input voltage (+/-15%): 3 X 400 V/50Hz
- Range of output current: 30 - 380 A
- Range of output voltage: 15,5 - 33 V
- Rated duty cycle: 40 % with 380 A
- 100 % with 250 A
- Rated input power: 22,1 kVA
- Switching steps: 3 X 10
- Protection class / cooling: IP21/F
- Weight: 105 Kg
- Dimensions (L/W/H): 1085/700/1200 mm
- Wire feeder (build in) Diameter: 0.8 - 1.2 mm
- Protection class / cooling: IP21
- Rate: 1-18 m/min

**Basic Set**

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<td>CPTX 400 welding machine incl. wire feeder (build in)</td>
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<td>0050-04-0004</td>
<td>Earth cable 4 m, 70 mm², 400 A with clamp and CEE plug</td>
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<td>0110-04-0001</td>
<td>Pressure regulator Ar/Co</td>
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(*incl. adapter /CEE plug 5-pin 32 A)

**2. CPTX 400w watercooled, Euro-Adapter**

- Perfect welding performance
- Easy handling
- Robust wire feeder 4-Roll
- Synergy control
- Choke function for best welding results

**Specifications, CPTX 400w:**

- Rated input voltage (+/-15%): 3 X 400 V/50Hz
- Range of output current: 30 - 380 A
- Range of output voltage: 15,5 - 33 V
- Rated duty cycle: 40 % with 380 A
- 100 % with 250 A
- Rated input power: 22,1 kVA
- Switching steps: 3 X 10
- Protection class / cooling: IP21/F
- Weight: 155 Kg
- Dimensions (L/W/H): 1085/700/1200 mm
- Wire feeder (build in) Diameter: 0.8 - 1.2 mm
- Protection class / cooling: IP21
- Rate: 1-18 m/min
- Cooling unit (build in) Coolant flow: 2.5 l/min
- Cooling pressure: 3,5 bar
- Cooling capacity: 1300 W

**Basic Set**

<table>
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<th>Art. No.</th>
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<th>PARTS</th>
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<td>CPTX 400w welding machine incl. wire feeder (build in)</td>
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<td>Earth cable 4 m, 70 mm², 400 A with clamp and CEE plug</td>
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<td>3</td>
<td>0043-04-0001</td>
<td>Special coolant for cooling unit (10l)</td>
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<tr>
<td>4</td>
<td>0110-04-0001</td>
<td>Pressure regulator Ar/Co</td>
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</table>

(*incl. adapter /CEE plug 5-pin 32 A)
# Welding Machine Devices

## Series CPTX Synergy (MIG/MAG)

### 3. CPTX 450w watercooled, Euro-Adapter

- **Perfect welding performance**
- **Easy handling**
- **Robust wire feeder 4-roll**
- **Synergy control**
- **Choke function for best welding results**

**Specifications, CPTX 450w:**

**Rated input voltage (+/-15%):** 3 X 400 V/50Hz

**Range of output current:** 40 - 450 A

**Range of output voltage:** 16 - 36.5 V

**Rated duty cycle:** 100 % with 310 A

**Rated input power:** 26.3 kVA

**Switching steps:** 3 X 10

**Protection class / cooling:** IP21/F

**Weight:** 170 Kg

**Dimensions (L/W/H):** 1085/700/1200 mm

**Wire feeder (build-in):**

- **Diameter:** 0.8 - 1.2 mm
- **Protection class / cooling:** IP21
- **Rate:** 1-18 m/min

**Cooling unit (build-in):**

- **Coolant flow:** 2.5 l/min
- **Coolant pressure:** 3.5 bar
- **Cooling capacity:** 1300 W

### Basic Set

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<td>CPTX 450w welding machine incl. wire feeder (build-in)</td>
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<td>0050-04-0004</td>
<td>Earth cable 4 m, 70 mm², 400 A with clamp and DIX plug</td>
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<td></td>
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<tr>
<td>4</td>
<td>0110-04-0001</td>
<td>Pressure regulator Ar/Co</td>
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<tr>
<td>5</td>
<td>0043-04-0001</td>
<td>Special coolant for cooling unit (10l)</td>
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(*incl. adapter /CEE plug 5-pin 32 A)

### 4. CPTX 400-2 aircooled, Euro-Adapter

- **Perfect welding performance**
- **Easy handling**
- **Synergy control**
- **Robust wire feeder 4-roll**
- **Choke function for best welding results**
- **Separate wire feeder**

**Specifications, CPTX 400-2:**

**Rated input voltage (+/-15%):** 3 X 400 V/50Hz

**Range of output current:** 30 - 380 A

**Range of output voltage:** 15.5 - 33 V

**Rated duty cycle:** 100 % with 250 A

**Rated input power:** 22.1 kVA

**Switching steps:** 3 X 10

**Protection class / cooling:** IP21

**Weight:** 146 Kg

**Dimensions (L/W/H):** 1085/700/1200 mm

**Wire feeder (CMX152):**

- **Diameter:** 0.8 - 1.2 mm
- **Protection class / cooling:** IP21
- **Rate:** 1-18 m/min
- **Weight:** 16 Kg
- **Dimensions (L/W/H):** 394/260/416 mm

### Basic Set

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<td>Earth cable 4 m, 70 mm², 400 A with clamp and DIX plug</td>
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<td>4</td>
<td>0110-04-0001</td>
<td>Pressure regulator Ar/Co</td>
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(*incl. adapter /CEE plug 5-pin 32 A)
OTC DAIHEN EUROPE GmbH

Welding Machine Devices
Series CPTX Synergy (MIG/MAG)

5. CPTX 400-2w watercooled, Euro-Adapter

- Perfect welding performance
- Easy handling
- Synergy control
- Robust wire feeder 4-roll
- Choke function for best welding results
- Separate wire feeder

Specifications, CPTX 400-2w:
- Rated input voltage (+/-15%): 3 X 400 V/50Hz
- Range of output current: 30 - 380 A
- Range of output voltage: 15.5 - 33 V
- Rated duty cycle: 100 % with 250 A
- Rated input power: 22.1 kVA
- Switching steps: 3 X 10
- Protection class / cooling: IP21/F
- Weight: 142 Kg
- Dimensions (L/W/H): 1085/700/1200 mm

Wire feeder (CMX152w):
- Diameter: 0.8 - 1.2 mm
- Protection class / cooling: IP21
- Rate: 1-18 m/min
- Weight: 16 Kg
- Dimensions (L/W/H): 394/260/416 mm

Cooling unit (build in)
- Coolant flow: 2,5 l/min
- Coolant pressure: 3,5 bar
- Cooling capacity: 1300 W

Basic Set

<table>
<thead>
<tr>
<th>Pos.</th>
<th>Art. No.</th>
<th>Description</th>
<th>PARTS</th>
<th>Remark</th>
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<tbody>
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<td>CPTX 400-2w welding machine incl. wire feeder type CMX152w</td>
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<td>4</td>
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<td>Pressure regulator Ar/Co</td>
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<td>Pressure regulator Ar/Co</td>
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<td>6</td>
<td>0043-04-0001</td>
<td>Special coolant for cooling unit (10l)</td>
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</table>

(*incl. adapter /CEE plug 5-pin 32 A)

6. CPTX 450-2w watercooled, Euro-Adapter

- Perfect welding performance
- Easy handling
- Synergy control
- Robust wire feeder 4-roll
- Choke function for best welding results
- Separate wire feeder

Specifications, CPTX 450-2w:
- Rated input voltage (+/-15%): 3 X 400 V/50Hz
- Range of output current: 40 - 450 A
- Range of output voltage: 16 - 36.5 V
- Rated duty cycle: 100 % with 310 A
- Rated input power: 26.3 kVA
- Switching steps: 3 X 10
- Protection class / cooling: IP21/F
- Weight: 171 Kg
- Dimensions (L/W/H): 1085/700/1200 mm

Wire feeder (CMX154w):
- Diameter: 0.8 - 1.2 mm
- Protection class / cooling: IP21
- Rate: 1-18 m/min
- Weight: 16 Kg
- Dimensions (L/W/H): 394/260/416 mm

Cooling unit (build in)
- Coolant flow: 2,5 l/min
- Coolant pressure: 3,5 bar
- Cooling capacity: 1300 W

Basic Set

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<th>Remark</th>
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<td>3</td>
<td>0010-04-0004</td>
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<td>Pressure regulator Ar/Co</td>
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<td>Pressure regulator Ar/Co</td>
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<td>6</td>
<td>0043-04-0001</td>
<td>Special coolant for cooling unit (10l)</td>
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</tbody>
</table>

(*incl. adapter /CEE plug 5-pin 32 A)
**Welding Machine Devices**

The Welbee line

**Welding control LSI**

Welding control LSI “Welbee” which realises a significantly improved welding performance and enhanced IT functionalities evolution to nanotechnology is realized by introducing “Welbee”, uniquely developed by DAIHEN.

“Welbee” realizes a precise waveform control by providing exact feedback of the ultra high-speed sampled welding current and voltage, in order to realize a high precision and high quality welding. Additionally the utilization of the integrated USB or LAN functionalities provides a smart welding control.

### Significant improvement in welding performance

- **Flat and beautiful weld bead appearance**
- **Reduction of spatters up to 80% at 200 A even by CO₂ welding**

### The Welbee processor

The Welbee processor allows the control of high innovative joining processes

### Durability / maintainability, and easy connection

**Welbee side flow structure**

**High dust resistance:** Improvement in reliability is realized by adopting a separation structure which prevents dust from entering into the area in which electronic components etc. are mounted.

**Easy maintenance:** Due to the revolution control of the cooling fan according to its duty cycle or ambient air temperature, the design prevents dust from entering the area where electronic components are installed.
### Welding Machine Devices

#### Welbee

**1. WB-W400 watercooled, Euro-Adapter (incl. WavePulse software suite)**

- Optimal control of the energy input by AC pulse welding
- High-speed AC pulse welding with improved characteristics for the respective material
- Seam appearance like TIG welded by AC Wave-Pulse technology
- High melting rate, penetration control
- Extended application range through 400 A at

**Specifications, Welding Machine:**
- Rated input voltage (+/-15%) : 3 X 400 V/50Hz
- Range of output current : 30 - 400 A
- Range of output voltage : 12 - 35 V
- Rated duty cycle : 40 % bei 400 A
  100 % bei 350 A
- Rated input power : 21.4 kVA
- Protection class / cooling : IP23/F
- Switching steps : Infinitely variable
- Max. No-load voltage : 91 V
- Weight : 86 Kg
- Dimensions (L/W/H) : 710/395/762 mm
- Wire feeder (CM, CMA):
  - Applicable wire size (CM) : 0.8 - 1.6 mm
  - Rate : 1.5-22 m/min
  - Weight : 17 Kg
  - Dimensions (L/W/H) : 732/285/394 mm
- Cooling unit SH/F : see page 17

**Basic Set**

<table>
<thead>
<tr>
<th>Pos.</th>
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<td>SH/F Water cooling unit for WE</td>
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<td>Trolley</td>
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<td>Cable hose assy for analog wire feeder, watercooled, 70 qmm, 2.2 m</td>
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<td>0050-04-0011</td>
<td>Earth cable 70 qmm, 5 m, 600 A with clamp und DIX plug</td>
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<td>8</td>
<td>0110-04-0001</td>
<td>Pressure regulator A/TC2</td>
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<td>9</td>
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<td>CEE plug 5-pin 32A</td>
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<td>10</td>
<td>SELB-000001</td>
<td>Pre-Assembly</td>
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</table>

**Remark**

- Optimal control of the energy input by AC pulse welding
- High-speed AC pulse welding with improved characteristics for the respective material
- Seam appearance like TIG welded by AC Wave-Pulse technology
- High melting rate, penetration control
- Extended application range through 400 A at

**2. WB-M400 aircooled, Euro-Adapter**

- Outstanding improvement of the welding arc stability
- Stable welding arc also at changing “stick out” or during weaving
- Growth of the welding speed through the new, integrated high-speed-mode

**Specifications, Welding Machine:**
- Rated input voltage (+/-15%) : 3 X 400 V/50Hz
- Range of output current : 90 - 400 A
- Range of output voltage : 12 - 34 V
- Rated duty cycle : 50 % mit 400 A
  100 % mit 350 A
- Rated input power : 17.7 kVA
- Protection class / cooling : IP23/F
- Switching steps : Infinitely variable
- Max. No-load voltage : 70 V
- Weight : 61 Kg
- Dimensions (L/W/H) : 710/395/592 mm
- Wire feeder (CM, CMA):
  - Applicable wire size (CM) : 0.8 - 1.6 mm
  - Rate : 0.1-22 m/min
  - Weight : 17 Kg
  - Dimensions (L/W/H) : 732/285/394 mm
- Cooling unit SH/F : see page 17

**Basic Set**

<table>
<thead>
<tr>
<th>Pos.</th>
<th>Art. No.</th>
<th>Description</th>
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<td>Earth cable 70 qmm, 5 m, 600 A with clamp und DIX plug</td>
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<td>6</td>
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<td>Pressure regulator A/TC2</td>
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<td>8</td>
<td>SELB-000001</td>
<td>Pre-Assembly</td>
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</table>
3. WB-M400L watercooled, Euro-Adapter

- LOW SPATTER: Maximum spatter reduction for the whole current range: reduction of the spatter up to 80%.
- Excellent viewing of the welding seams
- Boost of the welding speed even at higher tolerances

Specifications, Welding Machine:
- Rated input voltage (+/-15%): 3x400 V /50 Hz
- Range of output current: 30 - 400 A
- Range of output voltage: 12 - 34 V
- Rated duty cycle: 50 % with 400 A
  100 % with 370 A
- Rated input power: 18,2 kVA
- Protection class / cooling: IP23/F
- Switching steps: infinitely variable
- Max. No-load voltage: 70 V
- Weight: 62 Kg
- Dimensions (L/W/H): 710/395/592 mm

Wire feeder (CM, CMA):
- Applicable wire size CM: 0.8 - 1.6 mm
- Rate: 1,5-22 m/min
- Weight: 17 Kg
- Dimensions (L/W/H): 723/285/894 mm

Cooling unit SH/IF: see page 17

Basic Set

<table>
<thead>
<tr>
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<td>4</td>
<td>0045-04-0001</td>
<td>Special coolant for cooling unit (SH)</td>
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<td>Earth cable 70 qmm, 1 m</td>
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<td>Pressure regulator Ar/Co2</td>
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<td>Pre-assembly</td>
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</tbody>
</table>

4. WB-M500 watercooled, Euro-Adapter

- Outstanding improvement of the welding arc stability
- Stable welding arc also at changing “stick out” or during weaving
- Growth of the welding speed through the new, integrated high-speed-mode
- Optimised digital arc welding start
- Optional gouging software

Specifications, Welding Machine:
- Rated input voltage (+/-15%): 3x400 V /50 Hz
- Range of output current: 30 - 500 A
- Range of output voltage: 12 - 39 V
- Rated duty cycle: 50 % with 500 A
- Rated input power: 23,6 kVA
- Protection class / cooling: IP23/F
- Switching steps: infinitely variable
- Max. No-load voltage: 70 V
- Weight: 80 Kg
- Dimensions (L/W/H): 710/395/762 mm

Wire feeder (CM, CMA):
- Applicable wire size CM: 0.8 - 1.6 mm (mm)
- Rate: 1,5-32 m/min (m/min)
- Weight: 17 Kg (Kg)
- Dimensions (L/W/H): 723/285/894 mm

Cooling unit SH/IF: see page 17

Basic Set

<table>
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<tr>
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<td>Special coolant for cooling unit (SH)</td>
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<td>Pre-assembly</td>
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</table>
5. WB-P400 watercooled, Euro-Adapter

- High speed welding at thin stainless steel sheets
- Unique viewing of the welding seams through OTC aluminium-welding characteristics
- High speed-pulse mode

Specifications, Welding Machine:

- Rated input voltage (+/-15%): 3X400 V / 50 Hz
- Range of output current: 30 - 400 A
- Range of output voltage: 12 - 34 V
- Rated duty cycle: 50 % with 400 A
  100 % with 370 A
- Rated input power: 18,2 kVA
- Protection class / cooling: IP23/F
- Switching steps: infinitely variable
- Max. No-load voltage: 70 V
- Weight: 62 Kg
- Dimensions (L/W/H): 710/395/592 mm
- Wire feeder (CM, CMA):
  - Applicable wire size CM: 0.8 - 1.6 mm
  - Rate: 1,5-22 m/min
  - Weight: 17 Kg
  - Dimensions (L/W/H): 723/285/894 mm
- Cooling unit SH/IF: see page 17

Basic Set

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<th>Description</th>
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6. WB-P500L watercooled, Euro-Adapter

- High speed welding at thin stainless steel sheets
- Unique viewing of the welding seams through OTC aluminium-welding characteristics
- High speed-pulse mode
- Increased gap bridge-ability
- LOW SPATTER: Maximum spatter reduction for the whole current range: reduction of the spatter up to 80%

Specifications, Welding Machine:

- Rated input voltage (+/-15%): 3X400 V / 50 Hz
- Range of output current: 30 - 500 A
- Range of output voltage: 12 - 39 V
- Rated duty cycle: 60 % with 500 A
  100 % with 387 A
- Rated input power: 25,0 kVA
- Protection class / cooling: IP23/F
- Switching steps: infinitely variable
- Max. No-load voltage: 80 V
- Weight: 80 Kg
- Dimensions (L/W/H): 710/395/762 mm
- Wire feeder (CM, CMA):
  - Applicable wire size CM: 0.8 - 1.6 mm
  - Rate: 1,5-22 m/min
  - Weight: 17 Kg
  - Dimensions (L/W/H): 723/285/894 mm
- Cooling unit SH/IF: see page 17

Basic Set

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<td>0155-000001</td>
<td>Pre-assembly</td>
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</table>
Welding Machine Devices

Welbee

7. WB-T500P watercooled (synergic)

- High dynamic range up to 500A
- Variable and precise setting of 2-500 A in 0.1 A increments (up to 10 A)
- Synergy function for different seam geometries
- The welding Control function detects faults early

Specifications, Welding Machine (Pulse):

- Rated input voltage (+/-15%): 3x400 V /50-60 Hz
- Rated output current: 2-500 A
- Range of output voltage: 30 V
- Rated duty cycle: 60 % bei 500 A
- Max. No-load voltage: 70-77 V
- Weight: 51 Kg
- Dimensions (L/W/H): 710x395x640 mm

Cooling unit 5H/IF: see page 17

Basic Set

<table>
<thead>
<tr>
<th>Pos.</th>
<th>Art. No.</th>
<th>Description</th>
<th>PARTS</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0004-04-0042</td>
<td>WB-T500P DC/TIG Welding power source 500A</td>
<td></td>
<td></td>
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<tr>
<td>2</td>
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<td></td>
<td></td>
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</tr>
<tr>
<td>3</td>
<td>0042-04-0004</td>
<td>SH/F Water cooling unit for WB</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>0043-04-0001</td>
<td>Special coolant for cooling unit (LH)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>0046-04-0008</td>
<td>Trolley</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>0050-04-0011</td>
<td>Earth cable 70 qmm, 5 m, 800 A with clamp and DX plug</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>0110-04-0001</td>
<td>Pressure regulator Ar/Co2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>0070-05-0002</td>
<td>CEJ plug 5-pin 37 A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>0110-000001</td>
<td>Pre-assembly</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

8. WB-A350P watercooled

- High dynamic range up to 350A
- Frequency range AC 500Hz /DC 999Hz
- Variable and precise setting of DC 2-350 A/ AC 5-350 A in 0.1 A increments (up to 10 A)
- Synergy function for different seam geometries
- Interval TIG welding
- Electrode Formation Function

Specifications, Welding Machine:

- Rated input voltage (+/-15%): 400V
- Range of output current: 1-350A AC / 1-350A DC
- Rated output voltage: 34V
- Rated duty cycle: 40% with 350A AC / 40% with 350A DC
- Max. No-load voltage: 74V
- Weight: 68 Kg
- Dimensions (L/W/H): 959x710x592 mm

Cooling unit 5H/IF: see page 17

Basic Set

<table>
<thead>
<tr>
<th>Pos.</th>
<th>Art. No.</th>
<th>Description</th>
<th>PARTS</th>
<th>Remark</th>
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<td>0004-04-0048</td>
<td>WB-A350P AC/DC TIG Welding Power Source 350A</td>
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<td>3</td>
<td>0042-04-0004</td>
<td>SH/F water cooling unit for WB</td>
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<td></td>
</tr>
<tr>
<td>4</td>
<td>0043-04-0001</td>
<td>Special coolant for cooling unit (LH)</td>
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</tr>
<tr>
<td>5</td>
<td>0046-04-0008</td>
<td>Trolley</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>0050-04-0010</td>
<td>Earth cable 50 qmm, 5 m, 800 A with clamp and DX plug</td>
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<td></td>
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<td>7</td>
<td>0110-04-0001</td>
<td>Pressure regulator Ar/Co2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>0070-05-0002</td>
<td>CEJ plug 5-pin 32 A</td>
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<td>9</td>
<td>0110-000001</td>
<td>Pre-assembly</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Welding Machine Devices

Welbee OPTIONS

Specifications:

- Rated input voltage: 2 / 400 V
- Coolant flow: 2.5 l/min
- Coolant pressure: 3.5 bar
- Cooling capacity: 1200 W
- Weight: 31 Kg
- Dimensions (L/W/H): 756/285/394 mm

1. Cooling

<table>
<thead>
<tr>
<th>Pos.</th>
<th>Art. No.</th>
<th>Description</th>
<th>PARTS</th>
<th>Remark</th>
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</thead>
<tbody>
<tr>
<td>5.1</td>
<td>0042-04-0004</td>
<td>Air/Water cooling unit for WB</td>
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<td></td>
</tr>
<tr>
<td>5.2</td>
<td>0042-04-0001</td>
<td>Special coolant for cooling unit (10l)</td>
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</tr>
<tr>
<td>5.3</td>
<td>0035-04-0000</td>
<td>Bracket mounting assy for aircooled version</td>
<td></td>
<td>for trolley</td>
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</table>

Display Cover

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<th>Art. No.</th>
<th>Description</th>
<th>PARTS</th>
<th>Remark</th>
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</thead>
<tbody>
<tr>
<td>7.2</td>
<td>0042-04-0004</td>
<td>Display cover for Welbee, transparent</td>
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<td></td>
</tr>
<tr>
<td>7.3</td>
<td>0042-04-0001</td>
<td>Display cover for Welbee, coloured</td>
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</tbody>
</table>

Software

<table>
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<th>Art. No.</th>
<th>Description</th>
<th>PARTS</th>
<th>Remark</th>
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</thead>
<tbody>
<tr>
<td>5.1</td>
<td>0010-04-0088</td>
<td>Software Gas Option (CO2, MAG, 1% CO2, MRG (2% O2))</td>
<td>only for WB-P320E</td>
<td></td>
</tr>
<tr>
<td>5.2</td>
<td>0010-04-0099</td>
<td>Software Cored wire Option (Fe, Coated, SS, Coated, SS, Ferritic)</td>
<td>only for WB-P320E</td>
<td></td>
</tr>
<tr>
<td>5.3</td>
<td>0010-04-0100</td>
<td>Software Wave Pulse Option</td>
<td>only for WB-P320E</td>
<td></td>
</tr>
<tr>
<td>5.4</td>
<td>0010-04-0111</td>
<td>Software STICK / TIG Option</td>
<td>only for WB-P320E</td>
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</tr>
<tr>
<td>5.5</td>
<td>0010-04-0077</td>
<td>Software “welding parameter-monitoring”</td>
<td>only for WB-W400</td>
<td></td>
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<tr>
<td>5.6</td>
<td>0023-04-0001</td>
<td>E2475 USB Data transfer stick</td>
<td>only for WB-W400</td>
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Wire Feeder

<table>
<thead>
<tr>
<th>Pos.</th>
<th>Art. No.</th>
<th>Description</th>
<th>PARTS</th>
<th>Remark</th>
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</thead>
<tbody>
<tr>
<td>9.1</td>
<td>0030-04-0026</td>
<td>CM-7403A-D wire feeder unit 4-roll (Fe/308) with analog remote</td>
<td>only for WB-P320E</td>
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</tr>
<tr>
<td>9.2</td>
<td>0030-04-0028</td>
<td>CM-7403D-A wire feeder unit 4-roll (Al) with analog remote</td>
<td>only for WB-P320E</td>
<td></td>
</tr>
<tr>
<td>9.3</td>
<td>0030-04-0023</td>
<td>CM-7403E-D wire feeder 4-roll with analog remote/without wire straightener</td>
<td>only for WB-P320E/M380S</td>
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<tr>
<td>9.4</td>
<td>0030-04-0024</td>
<td>CM-7403D-Wire feeder 4-roll (Al) without analog remote/wire straightener</td>
<td>only for WB-P320E/M380S</td>
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<tr>
<td>9.5</td>
<td>0040-04-0009</td>
<td>Trolley for wire feeder</td>
<td>only for WB-P320E</td>
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<tr>
<td>9.6</td>
<td>0066-04-0001-SET-OP-Al</td>
<td>EX Kit, Software aluminium &amp; brazing aluminium, brazing, Cu/Gi/CuAl, Tin, (nonmetal)</td>
<td>only for WB-P320E</td>
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<tr>
<td>9.7</td>
<td>0066-04-0002-SET-OP-Fe/308</td>
<td>Steel-kit</td>
<td>only for WB-P320E</td>
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</tbody>
</table>

* Contents please page 36
### 8. Job torches

<table>
<thead>
<tr>
<th>Pos.</th>
<th>Art. No.</th>
<th>Description</th>
<th>PARTS</th>
<th>Remark</th>
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</thead>
<tbody>
<tr>
<td>8.1</td>
<td>0020-04-0075</td>
<td>BTW450D-30E Welding torch water cooled, intelligent, 450A, 3m</td>
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<tr>
<td>8.2</td>
<td>0020-04-0076</td>
<td>BTW500D-40E Welding torch water cooled, intelligent, 450A, 4m</td>
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<td></td>
</tr>
<tr>
<td>8.3</td>
<td>0020-04-0077</td>
<td>BTW500D-30E Welding torch water cooled, intelligent, 450A, 3m</td>
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<tr>
<td>8.4</td>
<td>0020-04-0078</td>
<td>BTWOODD-30E Welding torch water cooled, intelligent, 500A, 3m</td>
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<td>8.5</td>
<td>0020-04-0079</td>
<td>BTWOODD-40E Welding torch water cooled, intelligent, 500A, 4m</td>
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<td>8.6</td>
<td>0020-04-0080</td>
<td>BTWOODD-50E Welding torch water cooled, intelligent, 500A, 5m</td>
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<tr>
<td>8.7</td>
<td>0559-2F00</td>
<td>IF-Panel Kit for wire feeder CM-7403A-D for digital torch</td>
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<td></td>
</tr>
<tr>
<td>8.8</td>
<td>0666-04-0008-SET</td>
<td>IF-Kit for Wire Feeder (without Analog) with Digital Torch for cable hose assy 2.2mtr</td>
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</table>

### 9. Remote control

#### Analog Remote Controller

<table>
<thead>
<tr>
<th>Pos.</th>
<th>Art. No.</th>
<th>Description</th>
<th>PARTS</th>
<th>Remark</th>
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</thead>
<tbody>
<tr>
<td>9.1</td>
<td>0021-04-0006</td>
<td>E441200 remote control box analog for WB, 3m</td>
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</tr>
<tr>
<td>9.2</td>
<td>0025-04-0004</td>
<td>E441200 digital CAN I/F card for remote box</td>
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</tr>
<tr>
<td>9.3</td>
<td>0025-04-0003</td>
<td>E441200 digital CAN I/F card for remote box</td>
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</table>

#### Digital Remote Controller

<table>
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<tr>
<th>Pos.</th>
<th>Art. No.</th>
<th>Description</th>
<th>PARTS</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>10.1</td>
<td>0050-04-0029</td>
<td>BTLAN-401 CAN interface connection cable, 5 m</td>
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<tr>
<td>10.2</td>
<td>0050-04-0030</td>
<td>BTLAN-401 CAN interface connection cable, 10 m</td>
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<tr>
<td>10.3</td>
<td>0050-04-0031</td>
<td>BTLAN-401 CAN interface connection cable, 20 m</td>
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</tr>
<tr>
<td>10.4</td>
<td>0050-04-0032</td>
<td>BTLAN-401 CAN interface connection cable for WB</td>
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<td></td>
</tr>
</tbody>
</table>
1. WB-P320E air- or watercooled, Euro-Adapter

- Continuously variable welding inverter for MIG/MAG pulse arc welding
- Rated output current range: 30 - 320 A
- Excellent welding characteristics for mild steel, stainless steel, aluminium
- Robust 4-roll wire feeder (encoder regulated)

Specifications, Welding Machine:
- Rated input voltage (+/-15%): 3x400 V /50 Hz
- Range of output current: 30 - 320 A
- Range of output voltage: 12 - 30 V
- Rated duty cycle: 100 % with 320 A
- Rated input power: 15.1 kVA
- Protection class / cooling: IP23/F
- Switching steps: infinitely variable
- Max. No-load voltage: 80 V
- Weight: 62 kg
- Dimensions (L/W/H): 710/395/592 mm

Wire feeder (CM-7403E, CMA):
- Applicable wire size CM-E: 0.8 - 1.6 mm
- Rate: 1.5-22 m/min
- Weight: 17 Kg
- Dimensions (L/W/H): 723/285/394 mm
- Cooling unit SH/IF: see page 17

<table>
<thead>
<tr>
<th>Pos.</th>
<th>Art. No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0004-04-0039-SET-G</td>
<td>WB-P320E MAG digital inverter pulse welding power source aircooled incl. CM-7403E-D wire feeder unit 4-roll(Fe/SUS)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Trolley</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Cable hose assy air-cooled, 70qmm, 2.2m</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Pre-assembly</td>
</tr>
<tr>
<td>2</td>
<td>0004-04-0039-SET-W</td>
<td>WB-P320E MAG digital inverter pulse welding power source watercooled incl. CM-7403E-D wire feeder unit 4-roll(Fe/SUS)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>SH/IF water cooling unit for WB</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Special coolant for cooling unit (10)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Trolley</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Cable hose assy water-cooled, 70qmm, 2.2m</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Pre-assembly</td>
</tr>
<tr>
<td>3</td>
<td>0004-04-0039-SET-W-AL</td>
<td>WB-P320E MAG digital inverter pulse welding power source watercooled incl. CMX-7405-D wire feeder unit 4-roll(Fe/SUS)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Software aluminium &amp; brazing (alu, brazing, Cu/Al, Titan, Inconel)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>SH/IF water cooling unit for WB</td>
</tr>
<tr>
<td></td>
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<td>Special coolant for cooling unit (10)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Trolley</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Cable hose assy water-cooled, 70qmm, 2.2m</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Pre-assembly</td>
</tr>
<tr>
<td>4</td>
<td>0070-05-0002</td>
<td>CEE plug 5-pin 32A</td>
</tr>
<tr>
<td>5</td>
<td>0505-04-0011</td>
<td>Earth cable 70 qmm, 5 m, 600 A with clamp and DIX plug</td>
</tr>
<tr>
<td>6</td>
<td>0110-04-0001</td>
<td>Pressure regulator Ar/Co</td>
</tr>
</tbody>
</table>
2. M380S air- or watercooled, Euro-Adapter

- Continuously variable MAG inverter
- Excellent welding characteristics for mild steel
- Rated output current range: 30-380 A
- Robust 4-roll wire feeder (encoder regulated)

**Specification, Welding Machine:**
- Rated input voltage (+/-15%): 3X400V/50Hz
- Range of output current: 30 - 380 A
- Range of output voltage: 12 - 36 V
- Rated duty cycle: 50 % with 380 A
  - 100 % with 270 A
- Rated input power: 17,1 kVA
- Switching steps: infinitely variable
- Protection class / cooling: IP21/F
- Max. No-load voltage: 58 V
- Weight: 30 Kg
- Dimensions (L/W/H): 640/250/430 mm

**Wire feeder (CM 7403):**
- Protection class / cooling: IP23
- Rate: 0,1-22 m/min
- Weight: 16 Kg
- Dimensions (L/W/H): 805/214/429 mm

**Cooling unit 4H/IF:** see page 23

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### Basic Set

<table>
<thead>
<tr>
<th>Pos.</th>
<th>Art. No.</th>
<th>Description</th>
<th>PARTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0004-04-0040-SET-G</td>
<td>M380S MAG digital inverter welding power source aircooled</td>
<td>PARTS</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CM-7403E-D wire feeder unit-4-roll (Fe/SuS) without analog remote</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Trolley</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Cable hose air-cooled, 70qmm, 1m</td>
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</tr>
<tr>
<td></td>
<td></td>
<td>Mounting Bracket</td>
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<td></td>
<td>Pre-assembly</td>
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<tr>
<td>2</td>
<td>0004-04-0040-SET-W</td>
<td>M380S MAG digital inverter welding power source watercooled</td>
<td>PARTS</td>
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<td>CM-7403E-D wire feeder unit-4-roll (Fe/SuS) without analog remote</td>
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<td></td>
<td></td>
<td>Trolley</td>
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<tr>
<td></td>
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<td>Special coolant for cooling unit (10L)</td>
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<td></td>
<td>Trolley</td>
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<tr>
<td></td>
<td></td>
<td>Cable hose air-watercooled, 70 qmm, 1 m</td>
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<td></td>
<td></td>
<td>Pre-assembly</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>0050-04-0010</td>
<td>Earth cable 50 qm, 1 m, 600 A with clamp and DIX plug</td>
<td>PARTS</td>
</tr>
<tr>
<td>4</td>
<td>0010-04-0001</td>
<td>Pressure regulator Ar/Co</td>
<td>PARTS</td>
</tr>
<tr>
<td>5</td>
<td>0070-05-0002</td>
<td>CEE plug 5-p pin 3VA</td>
<td>PARTS</td>
</tr>
</tbody>
</table>
3. **DP-270C aircooled, Euro-Adapter** (incl. TIG function and MIG brazing software package)

- High speed welding at thin stainless steel sheets
- Unique viewing of the welding seams through OTC aluminium-welding characteristics
- High speed-pulse mode

### Specification, Welding Machine:
- Rated input voltage (+/-15%): 3 X 400 V/50Hz
- Range of output current: 30 - 300 A
- Range of output voltage: 12 - 30 V
- Rated duty cycle: 40 % with 270 A
- Weight: 51 Kg
- Dimensions (L/W/H): 653/300/664 mm
- Wire feeder (build in):
  - Diameter: 0.8 - 1.6 mm
  - Rate: 0.1-22 m/min

### Basic Set

<table>
<thead>
<tr>
<th>Pos.</th>
<th>Art. No.</th>
<th>Description</th>
<th>Remark</th>
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<tbody>
<tr>
<td>1</td>
<td>0004-04-0020*</td>
<td>DP-270C Digital Inverter Pulse Welding Power Source</td>
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</tr>
<tr>
<td>2</td>
<td>0041-04-0002</td>
<td>Toolbox 100 mm</td>
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</tr>
<tr>
<td>3</td>
<td>0400-04-0001</td>
<td>Trolley</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>0050-04-0010</td>
<td>Earth cable 50 qmm, 5 m, 600 A with clamp and DIX plug</td>
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<td>5</td>
<td>0110-04-0001</td>
<td>Pressure regulator Ar/Co</td>
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<tr>
<td>6</td>
<td>0070-04-0002</td>
<td>CO2 plug 5-pin 32A</td>
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<td>7</td>
<td>0080-04-0001</td>
<td>Pre-assembly</td>
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</tr>
</tbody>
</table>

* welding software on request

### Remark
- High speed welding at thin stainless steel sheets
- Unique viewing of the welding seams through OTC aluminium-welding characteristics
- First class arc start characteristic and stable arc
- Easy operational concept

4. **DT-300P II watercooled** (Synergic)

- DC Pulse TIG welding- machine, equipped with the latest digital technology
- Compact and light weight
- First class arc start characteristic and stable arc
- Easy operational concept

### Specifications, Welding Machine:
- Rated input voltage (+/-15%): 3X400 V/50-60 Hz
- Output voltage (DC): 10-30 V
- Rated duty cycle: 40 % with 300 A
- Weight: 30 Kg
- Dimensions (L/W/H): 640x250x395 mm

### Basic Set

<table>
<thead>
<tr>
<th>Pos.</th>
<th>Art. No.</th>
<th>Description</th>
<th>PARTS</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0004-04-0026*</td>
<td>DT-300PII TIG/DC digital inverter welding power source</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>0042-04-0001</td>
<td>Water cooling unit 250 mm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>0043-04-0001</td>
<td>Special coolant for cooling unit (10l)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>0040-04-0001</td>
<td>Trolley</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>0050-04-0010</td>
<td>Earth cable 50 qmm, 5 m, 600 A with clamp and DIX plug</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>0110-04-0001</td>
<td>Pressure regulator Ar/Co</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>0070-04-0002</td>
<td>CO2 plug 5-pin 32A</td>
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<td></td>
</tr>
<tr>
<td>8</td>
<td>0110-04-0002</td>
<td>Pre-assembly</td>
<td></td>
<td></td>
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<tr>
<td>9</td>
<td>0080-04-0001</td>
<td>Pre-assembly</td>
<td></td>
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</tr>
</tbody>
</table>

* welding software on request
## Welding Machine Devices

### Entry-level Inverter - OPTIONS

#### Specifications:

<table>
<thead>
<tr>
<th>Feature</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Rated input voltage</td>
<td>2 / 400 V</td>
</tr>
<tr>
<td>Coolant flow</td>
<td>2.5 l/min</td>
</tr>
<tr>
<td>Coolant pressure</td>
<td>3.5 bar</td>
</tr>
<tr>
<td>Cooling capacity</td>
<td>1300 W</td>
</tr>
<tr>
<td>Weight</td>
<td>10 Kg</td>
</tr>
<tr>
<td>Dimensions L/W/H</td>
<td>640/250/300 mm</td>
</tr>
</tbody>
</table>

### Cooling

![4H/IF water cooling unit 300 mm](image)

<table>
<thead>
<tr>
<th>Pos.</th>
<th>Art. No.</th>
<th>Description</th>
<th>PARTS</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.1</td>
<td>0042-04-0001</td>
<td>4H/IF-3 Water cooling unit 250mm</td>
<td></td>
<td>For DP-270C, M180S</td>
</tr>
<tr>
<td>1.2</td>
<td>0043-04-0001</td>
<td>4H/IF water cooling unit 300mm</td>
<td></td>
<td>For DP-270C, M180S</td>
</tr>
<tr>
<td>1.3</td>
<td>0043-04-0001</td>
<td>Special coolant for cooling unit (15L)</td>
<td></td>
<td>For DP-270C, M180S</td>
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</tbody>
</table>

### Equipment

<table>
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<tr>
<th>Pos.</th>
<th>Art. No.</th>
<th>Description</th>
<th>PARTS</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.2</td>
<td>0045-04-0001</td>
<td>Toolbox 250 mm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.3</td>
<td>0045-04-0009</td>
<td>Trolley for T5F1, T5F2, wire feeder</td>
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<tr>
<td>2.4</td>
<td>0050-04-0020</td>
<td>Welding cable 25 mm², 200 A, 5 m (with plug)</td>
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<td>For DP-270C</td>
</tr>
<tr>
<td>2.5</td>
<td>0050-04-0021</td>
<td>Welding cable 35 mm², 200 A, 5 m (with plug)</td>
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<td>For DP-270C</td>
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</table>

### Cable hose assy

<table>
<thead>
<tr>
<th>Pos.</th>
<th>Art. No.</th>
<th>Description</th>
<th>PARTS</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.1</td>
<td>0060-04-0001</td>
<td>Cable hose assy aircooled, 70 qmm, 5 m</td>
<td></td>
<td>For M180S</td>
</tr>
<tr>
<td>3.2</td>
<td>0060-04-0002</td>
<td>Cable hose assy aircooled, 70 qmm, 5 m</td>
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<td>For M180S</td>
</tr>
<tr>
<td>3.3</td>
<td>0060-04-0003</td>
<td>Cable hose assy aircooled, 70 qmm, 10 m</td>
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<td>For M180S</td>
</tr>
<tr>
<td>3.4</td>
<td>0060-04-0004</td>
<td>Cable hose assy watercooled, 70 qmm, 1 m</td>
<td></td>
<td>For M180S</td>
</tr>
<tr>
<td>3.5</td>
<td>0060-04-0005</td>
<td>Cable hose assy watercooled, 70 qmm, 5 m</td>
<td></td>
<td>For M180S</td>
</tr>
<tr>
<td>3.6</td>
<td>0060-04-0006</td>
<td>Cable hose assy watercooled, 70 qmm, 10 m</td>
<td></td>
<td>For M180S</td>
</tr>
</tbody>
</table>
## Welding Machine Devices

### Entry-level Inverter - OPTIONS

#### 5. Remote control

<table>
<thead>
<tr>
<th>Pos.</th>
<th>Art. No.</th>
<th>Description</th>
<th>PARTS</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.1</td>
<td>1021-04-0001</td>
<td>65416900 remote control box analog for D-series</td>
<td>for M380P, DT-270C</td>
<td></td>
</tr>
<tr>
<td>5.2</td>
<td>1021-04-0004</td>
<td>62452004 remote box English version digital</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5.3</td>
<td>1021-04-0001</td>
<td>65422000 digital CAN I/F for remote control</td>
<td>for DA-300P, DT-300PH</td>
<td></td>
</tr>
<tr>
<td>5.4</td>
<td>1022-04-0001</td>
<td>66-2868 foot controller</td>
<td>for DA-300P, DT-300PH</td>
<td></td>
</tr>
<tr>
<td>5.5</td>
<td>1021-04-0002</td>
<td>00401600 remote control box, analog</td>
<td>for DA-300P, DT-300PH</td>
<td></td>
</tr>
<tr>
<td>5.6</td>
<td>1021-04-0006</td>
<td>65416900 analog remote control for WB, 3m</td>
<td>only for T500P</td>
<td></td>
</tr>
</tbody>
</table>

#### 6. Connecting cable for remote control

<table>
<thead>
<tr>
<th>Pos.</th>
<th>Art. No.</th>
<th>Description</th>
<th>PARTS</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>6.1</td>
<td>0050-04-0030</td>
<td>BKCAN-0410 CAN interface connection cable, 10 m</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6.2</td>
<td>0050-04-0031</td>
<td>BKCAN-0410 CAN interface connection cable, 20 m</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6.3</td>
<td>0050-04-0032</td>
<td>BKCAN Plug</td>
<td>only for WB-T500P</td>
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</tr>
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</table>

#### 7. Software

<table>
<thead>
<tr>
<th>Pos.</th>
<th>Art. No.</th>
<th>Description</th>
<th>PARTS</th>
<th>Remark</th>
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</thead>
<tbody>
<tr>
<td>7.1</td>
<td>0251-04-0001</td>
<td>E2475 USB data transfer stick</td>
<td>for Low-Budget Inverter</td>
<td></td>
</tr>
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</table>

#### 8. Adapter Set

<table>
<thead>
<tr>
<th>Pos.</th>
<th>No.</th>
<th>Art.No.</th>
<th>Description</th>
<th>PARTS</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>8.1</td>
<td>82612-9001(a)</td>
<td>0271-04-0001</td>
<td>4730-001 socket 2 pins</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>0101-04-0001</td>
<td>Nut 9/16&quot; UNF right</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>0101-04-0001</td>
<td>Hose fitting for 1/4&quot;, 4 mm</td>
<td>for DA-300P, DT-300PH</td>
<td></td>
</tr>
<tr>
<td>8.2</td>
<td>82612-9002(w)</td>
<td>0271-04-0001</td>
<td>4730-001 socket 2 pins</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>0101-04-0001</td>
<td>Nut 9/16&quot; UNF right</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>0101-04-0001</td>
<td>Hose fitting for 1/4&quot;, 4 mm</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>0102-04-0001</td>
<td>1 Clamp 10.5 mm</td>
<td>for DA-300P, DT-300PH</td>
<td></td>
</tr>
</tbody>
</table>
Welding Machine Devices
DTX series (MMA)

1. DTX 1600

- Inverter welding machine DC
- Stick and TIG-liftarc welding
- Portable with shoulder strap
- Arc Force, Hot Start, Anti-Stick-Function

Specifications, DTX 1600:
- Rated input voltage (+/-15%): 1X230 V / 50-60 Hz
- Range of output current: 5 - 160 A
- Rated duty cycle: 25 % with 160 A
  100 % with 105A
- Rated input power: 6,3 kVA
- Open circuit voltage: 80 V
- Welding electrode: 1.5-3.2 mm
- Weight: 4,2 Kg
- Dimensions (L/W/H): 110/310/200 mm

Basic Set

<table>
<thead>
<tr>
<th>Pos.</th>
<th>Art. No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0004-04-0036</td>
<td>DTX-1600 MMA Welding Power Source incl. case, earth cable, welding cable</td>
</tr>
</tbody>
</table>

2. DTX 2000 gen

- Inverter welding machine DC
- Stick and TIG-liftarc welding
- Portable with shoulder strap
- Arc Force, Hot Start, Anti-Stick-Function

Specifications, DTX 2000 gen:
- Rated input voltage (+/-15%): 1X230 V / 50-60 Hz
- Range of output current: 5 - 200 A
- Rated duty cycle: 25 % with 200 A
  100 % with 160 A
- Rated input power: 8,4 kVA
- Open circuit voltage: 90 V
- Welding electrode: 1.5 - 4.0 mm
- Weight: 7,5 Kg
- Dimensions (L/W/H): 160/440/280 mm

Basic Set

<table>
<thead>
<tr>
<th>Pos.</th>
<th>Art. No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0004-04-0037</td>
<td>DTX-2000gen MMA Welding Power Source incl. case, earth cable, welding cable, with hand welding shield and hammer</td>
</tr>
</tbody>
</table>

Remark

<table>
<thead>
<tr>
<th>Pos.</th>
<th>Art. No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0004-04-0037</td>
<td>OTC DAIHEN EUROPE GmbH</td>
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</table>

PARTS

Remark

<table>
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<tr>
<th>Pos.</th>
<th>Art. No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0004-04-0038</td>
<td>OTC DAIHEN EUROPE GmbH</td>
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Remark

<table>
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<th>Pos.</th>
<th>Art. No.</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>0004-04-0039</td>
<td>OTC DAIHEN EUROPE GmbH</td>
<td></td>
</tr>
</tbody>
</table>

Remark
1. DTX 202 (TIG)

- Excellent arc start characteristics by high frequency of lift-start
- High performance on thin metal sheets
- Low energy consumption and high efficiency structure
- Control panel protected against accidental impact
- Sloping front control panel, easy to read and adjust and highly visible from any direction
- IP 23 protection class
- Use of TIG Up/Down torches will enable the remote control of the welding parameters directly from the torch

**Specifications, Welding Machine:**
- Rated input voltage (+/- 20%): 230 V
- Range of output current: 5 - 200 A
- Range of output voltage: 14-26.5 V
- Rated duty cycle: 60 % with 140 A
- Max. No-load voltage: 88 V
- Weight: 7.5 Kg
- Dimensions (L/W/H): 390/135/300 mm
- Power input: 9.0 kVA

### Basic Set aircooled

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<tr>
<th>Pos.</th>
<th>Art. No.</th>
<th>Description</th>
<th>PARTS</th>
<th>Remark</th>
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<tbody>
<tr>
<td>1</td>
<td>0004-04-0050-1</td>
<td>DTX-202 TIG</td>
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<td></td>
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</tr>
<tr>
<td>3</td>
<td>0050-04-0001</td>
<td>Earth cable 35sqmm PVC, 4m, 300A with clamp and DIX SK50 plug</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>0110-04-0001</td>
<td>Pressure regulator Ar/Co2</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

2. DTX 2200 (TIG)

- Built-in innovative PFC Power Factor Correction
- Digital adjustment of all the welding parameters
- High reliability when used with generator sets
- Suitable to be used with main cable lengths over 100 m
- Excellent welding characteristics in TIG and MMA with any type of electrodes
- "Energy saving" function to operate the power source cooling fan and the torch water cooling only when necessary
- Integrated VRD function
- Possibility of memorizing welding parameters (7 JOBS)
- Auto-diagnostic feature for trouble shooting
- IP 23 protection class

**Specifications, Welding Machine:**
- Rated input voltage (+/- 20%): 230 V
- Range of output current: 5 - 220 A
- Range of output voltage: 16-27 V
- Rated duty cycle: 30% with 220 A
- Max. No-load voltage: 60 V
- Weight: 14 Kg
- Dimensions (L/W/H): 495/185/390 mm
- Power input: 6.6 kVA

### Basic Set aircooled

<table>
<thead>
<tr>
<th>Pos.</th>
<th>Art. No.</th>
<th>Description</th>
<th>PARTS</th>
<th>Remark</th>
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<tbody>
<tr>
<td>1</td>
<td>0004-04-0051-1</td>
<td>DTX-2200 TIG</td>
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</tr>
<tr>
<td>3</td>
<td>0050-04-0002</td>
<td>Earth cable 35sqmm PVC, 4m, 300A with clamp and DIX SK50 plug</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>0110-04-0001</td>
<td>Pressure regulator Argon</td>
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<td></td>
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</tbody>
</table>
## Welding Machine Devices
### DTX series (TIG) - portable inverter

**Basic Set watercooled**

<table>
<thead>
<tr>
<th>Pos.</th>
<th>Art. No.</th>
<th>Description</th>
<th>PARTS</th>
<th>Remark</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>0004-04-0051-1</td>
<td>DTX-2200 TIG</td>
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<td></td>
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<tr>
<td>2</td>
<td>0042-04-0010</td>
<td>HR22 Watercooling unit - 230V</td>
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</tr>
<tr>
<td>4</td>
<td>0050-04-0002</td>
<td>Earth cable 35qmm PVC, 4m, 300A with clamp and DIX SK50 plug</td>
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</tr>
<tr>
<td>5</td>
<td>0043-04-0001</td>
<td>Special coolant for cooling unit 4H/IP, 10 liter</td>
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<td>6</td>
<td>0110-04-0001</td>
<td>Pressure regulator Argon</td>
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<td></td>
</tr>
</tbody>
</table>

### 3. DTX 2600 (TIG)

- Standard equipped with pulse mode
- Excellent TIG welding characteristics
- Excellent arc start characteristics by high frequency of lift-start
- "Energy Saving" function to operate the power source cooling fan and the torch water cooling only when necessary
- Use of TIG Up/Down torches will enable the remote control of the welding parameters directly from the torch
- Control panel protected against accidental impact
- Sloping front panel easy to read and adjust and highly visible from any direction
- Reduced weight and size, easy-to-carry
- IP 23 protection class

**Specifications, Welding Machine:**

- Rated input voltage (+/-20%): 400 V
- Range of output current: 5-260 A
- Range of output voltage: 18-30 V
- Rated duty cycle: 60 % with 230 A
- 100 % with 200 A
- Max. No-load voltage: 100 V
- Weight: 17.5 Kg
- Dimensions (L/W/H): 465/185/390 mm
- Power input: 9.6 kVA

**Basic Set aircooled**

<table>
<thead>
<tr>
<th>Pos.</th>
<th>Art. No.</th>
<th>Description</th>
<th>PARTS</th>
<th>Remark</th>
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<td>DTX-2600 TIG</td>
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<td></td>
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<tr>
<td>3</td>
<td>0050-04-0002</td>
<td>Earth cable 35qmm PVC, 4m, 300A with clamp and DIX SK50 plug</td>
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<td></td>
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<tr>
<td>4</td>
<td>0110-04-0001</td>
<td>Pressure regulator Argon</td>
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**Basic Set watercooled**

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<th>Art. No.</th>
<th>Description</th>
<th>PARTS</th>
<th>Remark</th>
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<tbody>
<tr>
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<td>0004-04-0053-1</td>
<td>DTX-2600 TIG</td>
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<td></td>
</tr>
<tr>
<td>2</td>
<td>0042-04-0011</td>
<td>HR 23 Watercooling unit - 400V</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>0043-04-0001</td>
<td>Special coolant for cooling unit (10)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>0050-04-0002</td>
<td>Earth cable 35qmm PVC, 4m, 300A with clamp and DIX SK50 plug</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>0110-04-0001</td>
<td>Pressure regulator Argon</td>
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</table>
Welding Machine Devices

DTX series (TIG) - portable inverter

3. Options for DTX series

<table>
<thead>
<tr>
<th>Pos.</th>
<th>Art. No.</th>
<th>Description</th>
<th>PARTS</th>
<th>Remark</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>0022-04-0002</td>
<td>RSP 7 Foot Pedal with 5m cable</td>
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</tr>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>0230-04-0002</td>
<td>Case silver gray for DTX-202</td>
<td></td>
<td>only for DTX 202</td>
</tr>
<tr>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>0022-04-0004</td>
<td>Y-adapter for Hand remote control &amp; Foot pedal</td>
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<td></td>
</tr>
<tr>
<td>6</td>
<td>0040-04-0011</td>
<td>Trolley VT100</td>
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</tr>
<tr>
<td>7</td>
<td>SELB-000005</td>
<td>Pre-Assembly DTX</td>
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<tr>
<td>11</td>
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</tbody>
</table>
## Welding Machine Devices
### DTX series (AC/DC) - portable inverter

**1. DTX 2200 (AC/DC)**

- Built-in innovative PFC Power Factor Correction
- Digital control of all the welding parameters
- Possibility of memorizing personalized welding parameters (7 JOBS)
- High duty cycle (40°C) 220 A at 30%
- Low current consumption (-30%)
- High reliability when used with generator sets
- Suitable to be used with mains cable lengths over 100 m
- Excellent welding characteristics in TIG and MMA with any type of electrodes
- High frequency TIG arc striking, precise and efficient even from long distance
- "Energy Saving" function to operate the power source cooling fan and the torch water cooling only when necessary
- Use of TIG Up/Down torches will enable to adjust directly from the torch both welding parameters and memorized JOBS
- Auto-diagnostic feature for trouble shooting
- IP 23 protection class
- Possibility of activating the VRD function

### Specifications, Welding Machine:
- Rated input voltage (+/-20%): 230 V
- Range of output current: 5 - 220 A
- Range of output voltage: 16-28 V
- Rated duty cycle:
  - 60 % with 180 A
  - 100 % with 140 A
- Pulse rate: 0.5-2000 Hz
- Max. No-load voltage: 100 V
- Weight: 15.5 Kg
- Dimensions (L/W/H): 465/185/390 mm
- Power input: 7.0 kVA

### Basic Set aircooled

<table>
<thead>
<tr>
<th>Pos.</th>
<th>Art. No.</th>
<th>Description</th>
<th>List price € (EXW)</th>
<th>Remark</th>
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<tbody>
<tr>
<td>1</td>
<td>0004-04-0053-1</td>
<td>DTX 2200 AC/DC</td>
<td>3,230.00 €</td>
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</tr>
<tr>
<td>2</td>
<td>0020-04-0097</td>
<td>TIG Torch SR26-U/D/17, 240A, 4m, aircooled, special*</td>
<td>280.00 €</td>
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<tr>
<td>3</td>
<td>0050-04-0002</td>
<td>Earth cable 35mm² PVC, 4m, 300A with clamp and DIX SK50 plug</td>
<td>47.00 €</td>
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<tr>
<td>4</td>
<td>0110-04-0001</td>
<td>Pressure regulator Argon</td>
<td>63.00 €</td>
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<tr>
<td>Total</td>
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<td>3,620.00 €</td>
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<td>Set Preis, total</td>
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<td>3,511 €</td>
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### Basic Set watercooled

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<th>List price € (EXW)</th>
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<td>3,230.00 €</td>
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<td>2</td>
<td>0042-04-0010</td>
<td>HR 22 Watercooling unit - 230 V</td>
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<tr>
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<td>TIG Torch SR20-U/D, 220A, 4m, watercooled*</td>
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<td>0043-04-0001</td>
<td>Special coolant for cooling unit 4H/II, 10 liter</td>
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<td>Earth cable 35mm² PVC, 4m, 300A with clamp and DIX SK50 plug</td>
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</table>
2. DTX 3000 (AC/DC)

- Digital adjustment of all the welding parameters with Ammeter and Voltmeter
- Integrated monitoring system
- Possibility of memorizing welding parameters (JOBS)
- Adjustable Arc Force function for choosing the best welding arc dynamics
- Adjustable Hot Start function to improve the arc striking with difficult electrodes
- Integrated Anti-Stick function

Specifications, Welding Machine:
- Rated input voltage (+/-20%): 400 V
- Range of output current: 5 - 300 A
- Range of output voltage: 18-30 V
- Rated duty cycle: 35 % with 300 A
  60 % with 250 A
  100 % with 210 A
- Pulse rate: 0.5-2000 Hz
- Max. No-load voltage: 100 V
- Weight: 19 Kg
- Dimensions (L/W/H): 465/185/390 mm
- Power input: 9.6 kVA

Basic Set aircooled

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<th>Remark</th>
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<td>Pressure Regulator Ar/Co2</td>
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Basic Set watercooled

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<td>0042-04-0011</td>
<td>HR 23 Watercooling unit - 400 V</td>
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<td>0043-04-0001</td>
<td>Special coolant for cooling unit 4H/9F, 10 liter</td>
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<td>0050-04-0010</td>
<td>Earth cable 50qmm PVC, 5m, 600A with clamp and DIX plug</td>
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<td>0110-04-0001</td>
<td>Pressure Regulator Ar/Co2</td>
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3. Options for DTX series

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<td>RSP 7 Foot Pedal with 5m cable</td>
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<td>0022-04-0004</td>
<td>Y-Adapter for Hand remote control &amp; Foot pendal</td>
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<td>0040-04-0011</td>
<td>Trolley VT100</td>
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<td>0E18-000005</td>
<td>Pre-Assembly DTX</td>
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</table>
1. CUTTING MACHINE DEVICE - Super Plasma D-12000 watercooled

- High Power and 100% Duty cycle
- Precision High Speed Cutting
- Max. Cutting Capacity 60mm (2.4 in)

Specifications, Welding Machine:
- Rated input voltage: 30 - 120 A
- Range of output voltage: 200 V
- Max. No-load voltage: 270 V
- Weight: 186 Kg
- Dimensions (L/W/H): 902x602x854 mm

Basic Set

<table>
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<th>Art. No.</th>
<th>Description</th>
<th>PARTS</th>
<th>Remark</th>
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<tr>
<td>1</td>
<td>0044-04-0027</td>
<td>FRC-121 transistor air plasma cutting machine D12000</td>
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<td>Earth cable 5 m, 50 mm² with cable lug and clamp</td>
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<td>0050-04-0040</td>
<td>Primary connecting cable, CEE plug 5 A, 5 m, 4x6 mm²</td>
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<td>0043-04-0002</td>
<td>Special coolant for Plasma (10l)</td>
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<td>5</td>
<td>0043-04-0003</td>
<td>TRC-121 plasma torch, watercooled, 120 A, 10 m</td>
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<td>0018-000001</td>
<td>Pre-assembly</td>
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2. Torch, manual

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<th>Remark</th>
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<td>0020-04-0031</td>
<td>CTZWM-1201 plasma torch, watercooled, 120 A, 20 m</td>
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<td>2.2</td>
<td>0020-04-0032</td>
<td>CTZWL-1201 plasma torch, watercooled, 120 A, 10 m</td>
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3. Torch, automatic

<table>
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<th>PARTS</th>
<th>Remark</th>
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<tr>
<td>3.1</td>
<td>0020-04-0033</td>
<td>CTZWM-1201 plasma torch, (straight type) watercooled, 120 A, 20 m</td>
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<td>3.2</td>
<td>0020-04-0034</td>
<td>CTPWM-1201 plasma torch, (straight type) watercooled, 120 A, 20 m</td>
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<td>3.3</td>
<td>0020-04-0035</td>
<td>CTPWM-1201 plasma torch, (straight type) watercooled, 120 A, 30 m</td>
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<td>3.4</td>
<td>0070-05-0002</td>
<td>CTZP-1201 socket 4-pin</td>
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<td>3.5</td>
<td>0070-05-0003</td>
<td>CTZP-1201 socket 5-pin</td>
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<td>3.6</td>
<td>0070-05-0001</td>
<td>CTZWM-1201 plasma torch, watercooled, 120 A, 20 m</td>
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<td>3.7</td>
<td>0070-05-0001</td>
<td>CTZWL-1201 plasma torch, watercooled, 120 A, 10 m</td>
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</tbody>
</table>

2. Plasma welding power supply - WB F300P

- High welding speed and quality by use of the OTC keyhole welding
- Free adjustable pulse frequency from 0.1 Hz until 12 Hz
- Default setting by coded torches enlarges the lifetime of the spare parts
- Standard built-in mass flow controllers allow a stable gas flow
- Large selection of plasma torches available

Specifications, Welding Machine:
- Rated input voltage (+/-10%): 3x400 V/50-60 Hz
- Range of output voltage: 10-37 V
- Max. No-load voltage: 154 V
- Weight: 95 Kg
- Dimensions (L/W/H): 395x710x835 mm

Basic Set

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<th>Pos.</th>
<th>Art. No.</th>
<th>Description</th>
<th>List price € (EXW)</th>
<th>Remark</th>
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<tr>
<td>1</td>
<td>0020-04-0033</td>
<td>CTZWM-1201 plasma torch, (straight type) watercooled, 120 A, 20 m</td>
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<td>0020-04-0032</td>
<td>CTZWL-1201 plasma torch, watercooled, 120 A, 10 m</td>
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<td>3</td>
<td>0070-05-0002</td>
<td>CTZP-1201 socket 4-pin</td>
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<td>0070-05-0003</td>
<td>CTZP-1201 socket 5-pin</td>
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<td>0070-05-0001</td>
<td>CTZWM-1201 plasma torch, watercooled, 120 A, 20 m</td>
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<td>0070-05-0001</td>
<td>CTZWL-1201 plasma torch, watercooled, 120 A, 10 m</td>
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TOTAL: on request
Monitoring

Process access on the silver platter

A simple Tablet PC is enough and the supervisory staff have the possibility to monitor the entire machine with all functions, and if necessary, to take over in the WLAN mode. Using a tablet PC or similar devices, you can perform all front panel operations, display graphical monitor settings, use maintenance functions, perform welding parameter database processing, and control or check welding results. In the analysis of welding problems, an external monitoring entity also receives immediate access to the ongoing process from a distance. This possibility is still completely new for hand-held welding machines.

Quality assurance Network (LAN)

- Changing welding parameters
- Copying welding parameters
- Securing welding parameters

Welding monitoring (optional)

Using an optional module, large amounts of data can be recorded via the USB port or over a network. The logger function allows you to record detailed information about the analysis of production. These data can be used arbitrarily for quality assurance, traceability and error analysis.

System Requirements

- For Windows 7 / Vista: Pentium 4, 1 GHz or more, RAM of 1 GB oder mehr, resolution 1.024 x 768 or more
- For Windows 10 / XP / 2000: Pentium M, 1 GHz or more, RAM of 512 MB or more, resolution 1.024 x 768 or more

A LAN connection (fixed cable) is necessary.

Recording Parameters

- Set welding current
- Set voltage
- Welding current
- Welding voltage
- Wire feed speed
- Start signal
- Input voltage
- Motor current
- Wire threading signal
- WPS internal temperature
- Fan rotation speed
Monitoring

Quality control by introducing IT and its expansibility

<table>
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<th>Pos.</th>
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<th>Description</th>
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<th>Remark</th>
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<td>1.2</td>
<td>0015-04-0033</td>
<td>Weld monitor for Welbee (Software for PC)</td>
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<td>1.3</td>
<td>0015-04-0031</td>
<td>Extension board kit Teaching (for Android tablet)</td>
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<td>Extension board kit Monitoring (for Android tablet)</td>
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<td>0027-04-0002</td>
<td>WLAN Router for Extension board</td>
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Equipment upgrade - Easy connection via existing interfaces
Modification of the welding machine with a SCANNER

- Identification of the welder
- Qualification control of the welder (limitation of welding jobs)
- Authorization of the welder on the welding machine
- Scan of the welding parts for download of the needed parameters
- Scan of the JOB-barcode of the shift plan with automatic takeover of needed welding programs to the Welbee

Visual signal by TRAFFIC LIGHT

- State overview of the complete plant through traffic light mounted on individual welding machines or on the top of welding places/cabinets
- The traffic light can be defined as follows:
  - **GREEN**: Welding machine is working under control
  - **ORANGE**: Welding machine has an error (welder passed a limit)
  - **RED**: Welding machine is in standby mode or has a defect
- An acoustical signal can be added
Gouging - Software

New add-on option "Gouging" for the WELBEE-generation

The new welding-software and the approved Welbee inverter welding technique type M500, will make all different kinds of gouging possible. It is suitable for the handling of steel, stainless-steel, cast iron and main metals like nickel, copper, magnesium and aluminum.

The new software can be installed on the Welbee M500 easily like Plug-and-Play. For further information please contact the OTC-Team.

<table>
<thead>
<tr>
<th>Pos.</th>
<th>Art. No.</th>
<th>Description</th>
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<th>Remark</th>
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<td>Gouging Software for WB-M500</td>
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Wirefeeder conversion kits & spare parts
## Conversion Kit

### 1. From CM-7403 to CMA-7403 (Steel to Aluminium)

**Basic Set**

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<th>Article-No.</th>
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### 2. From CM-7403E to CMA-7403E

**Basic Set**

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<td>65465R02</td>
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### 3. From CMA-7403E to CM-7403E (Aluminium to Steel)

**Basic Set**

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## Parts list CM-7403A/E-D

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# Parts list CM-7403A/E-D

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<tr>
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<td>SHRINKAGE TUBE</td>
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<tr>
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<td>CAP SCREW</td>
<td>M5X12</td>
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<td>/</td>
<td>HEXAGON HEAD BOLT</td>
<td>M6X12</td>
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<tr>
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<td>/</td>
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10. Wire Reel Cover

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<tr>
<th>Symbol</th>
<th>Part No.</th>
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<th>Specifications</th>
<th>Qty</th>
<th>PARTS</th>
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<tr>
<td>1</td>
<td>K5951Q01</td>
<td>COVER A</td>
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<td></td>
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<tr>
<td>2</td>
<td>K5951Q02</td>
<td>COVER B</td>
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<td>K5951B03</td>
<td>PIN</td>
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<td>DOOR KNOB</td>
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<td>K5951B08</td>
<td>DOOR HOOK</td>
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<td>M6X20</td>
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## 11. Attachment

![Diagram of CM-7403A/E-D Attachment](image_url)

<table>
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<tr>
<th>Symbol</th>
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<th>Product Name</th>
<th>Specifications</th>
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<td>1</td>
<td>K5951J50</td>
<td>CENTER GUIDE</td>
<td>For CM-7403E-D, CM-7403A-D</td>
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<td>2</td>
<td>K5951J55</td>
<td>CENTER GUIDE</td>
<td>For CMA-7403A-D</td>
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<tr>
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<td>#</td>
<td>CAP SCREW</td>
<td>M6x20</td>
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<td>3</td>
<td>L10595P00</td>
<td>GEAR</td>
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<td>K5493B12</td>
<td>FEED ROLL</td>
<td>For CM-7403E-D, CM-7403A-D</td>
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</tr>
<tr>
<td>4-1</td>
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<td>HEXAGON SOCKET HEAD BOLT</td>
<td>M4x16</td>
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<td>5</td>
<td>K5493C00</td>
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<td>6</td>
<td>K5493H02</td>
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<td>WIRE STRAIGHTENER</td>
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<td>15</td>
<td>K5951U12</td>
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<td>U5204M03</td>
<td>INLET GUIDE</td>
<td>For CM-7403A-D</td>
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<td>18</td>
<td>K5951D11</td>
<td>OUTLET GUIDE</td>
<td>For CMA-7403A-D</td>
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</table>
Welbee Retrofit Kit

Retrofit Kit for non OTC Robots, without OTC Torch

1. Fieldbus

- OTC supports EtherNet/IP, DeviceNet and PROFIBUS as standard
- To prepare a communication unit, it is possible to connect another communication standard network. (IFR-800BS is required)

<table>
<thead>
<tr>
<th>Pos.</th>
<th>Art. No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.1</td>
<td>IFR-800EI</td>
<td>Ethernet I/F module for Welbee</td>
</tr>
<tr>
<td>1.2</td>
<td>IFR-800BS</td>
<td>Fieldbus I/F for Welbee (without HMS unit)</td>
</tr>
<tr>
<td>1.3</td>
<td>IFR-800PB</td>
<td>Profibus I/F module for Welbee</td>
</tr>
<tr>
<td>1.4</td>
<td>IFR-800DN</td>
<td>DeviceNet I/F module for Welbee</td>
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2. Basic Set

<table>
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<tr>
<th>Pos.</th>
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<tr>
<td>SET</td>
<td>0001-99-0003</td>
<td>Welbee Retrofit Kit</td>
</tr>
<tr>
<td>2.1</td>
<td>0060-01-0005</td>
<td>Cable hose assy water-cooled, 70qmm, 5.0m without connection on robot side for Welbee/Robot</td>
</tr>
<tr>
<td>2.2</td>
<td>0070-01-0001</td>
<td>Central connector with adapter for wire feeder unit 1.100.0055.00b</td>
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<tr>
<td>2.3</td>
<td>4730-009</td>
<td>CONNECTOR 6P PLUG</td>
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<td>16LB-ST.31.013.00</td>
<td>Wasseranschlusswinkel All-Series</td>
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<td>2.5</td>
<td>4813-001</td>
<td>Valve Gas Solenoid (W-L00120)</td>
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<tr>
<td>2.6</td>
<td>RITT-PK9502.000</td>
<td>Terminal box plastic 94x65x57 mm</td>
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<td>2.7</td>
<td>000027</td>
<td>Small parts</td>
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<td>2.8</td>
<td>AF-4012</td>
<td>Wire Feed Unit for FD Series</td>
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<td>2.9</td>
<td>0042-04-0004</td>
<td>3n/F Water cooling unit for WB-serial 3n/F</td>
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<td>0043-04-0001</td>
<td>Special coolant for cooling unit 4n/F, 10 liter</td>
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<td>0040-04-0008</td>
<td>Trolley for WB-Series</td>
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<tr>
<td>2.12</td>
<td>100002</td>
<td>3x working hours in house</td>
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Merchandise articles
Accessories

Merchandise articles

- Cap
- Work jacket
- Winter jacket
- Set (jacket + trousers)
- Fleece jacket
- Sweat shirt
- T-shirt
- Polo shirt

<table>
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<tr>
<th>Pos.</th>
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<th>PARTS</th>
<th>Remark</th>
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<tr>
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<td>0215-99-0004</td>
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<td>0215-99-0005-SET</td>
<td>Set (jacket + trousers)</td>
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<td>0215-99-0005</td>
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<td>6</td>
<td>0215-99-0006</td>
<td>T-shirt</td>
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<td>7</td>
<td>0215-99-0007</td>
<td>Winter jacket</td>
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<td>8</td>
<td>0215-99-0008</td>
<td>Polo shirt</td>
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Welding station

OTC Welding stand including following foilings:
- CREATING METAL ARTISTS
- OTC CREATING METAL ARTISTS

<table>
<thead>
<tr>
<th>Article-No.</th>
<th>Description</th>
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<th>Remark</th>
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<td>Welding station M10 150</td>
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<td>0203-17</td>
<td>Tooling for M10-250</td>
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# Sizetable

## Psychical height 176-184

<table>
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<tr>
<th>Regular sizes</th>
<th>38</th>
<th>40</th>
<th>42</th>
<th>44</th>
<th>46</th>
<th>48</th>
<th>50</th>
<th>52</th>
<th>54</th>
<th>56</th>
<th>58</th>
<th>60</th>
<th>62</th>
<th>64</th>
<th>66</th>
<th>68</th>
<th>70</th>
<th>72</th>
<th>74</th>
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</thead>
<tbody>
<tr>
<td>International</td>
<td>2XS</td>
<td>XS</td>
<td>S</td>
<td>M</td>
<td>L</td>
<td>XL</td>
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<td>3XL</td>
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<td>5XL</td>
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<td></td>
<td></td>
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<td></td>
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</tr>
<tr>
<td>Inch (width/lenght)</td>
<td>27/32</td>
<td>28/32</td>
<td>29/32</td>
<td>30/32</td>
<td>31/32</td>
<td>32/32</td>
<td>33/32</td>
<td>34/32</td>
<td>35/32</td>
<td>36/32</td>
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<td>38/32</td>
<td>40/32</td>
<td>42/32</td>
<td>44/32</td>
<td>46/32</td>
<td>48/32</td>
<td>50/32</td>
<td>52/32</td>
</tr>
</tbody>
</table>

## Psychical height 170-175

| Short sizes     | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 |
|-----------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| International   | XS  | S  | M  | L  | XL | 2XL| 3XL| 4XL| 5XL| 6XL| 7XL| 8XL| 9XL| 10XL| 11XL| 12XL|    |    |
| Inch (width/lenght) | 28/30 | 29/30 | 30/30 | 31/30 | 32/30 | 33/30 | 34/30 | 35/30 | 36/30 | 37/30 | 38/30 | 39/30 | 40/30 | 41/30 | 42/30 | 44/30 | 46/30 | 48/30 | 50/30 | 52/30 | 54/30 |

## Psychical height 183-190

| Slim sizes      | 84 | 88 | 90 | 94 | 98 | 102| 106| 110| 114| 118| 122| 126| 130| 134| 138| 142 |
|-----------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| International   | XS long | S long | M long | L long | XL long | 2XL long | 3XL long | 4XL long | 5XL long |    |    |    |    |    |    |
| Inch (width/lenght) | 28/34 | 29/34 | 30/34 | 31/34 | 32/34 | 33/34 | 34/34 | 35/34 | 36/34 | 37/34 | 38/34 | 40/34 | 42/34 | 44/34 | 46/34 | 48/34 | 50/34 | 52/34 | 54/34 | 56/34 |

---

**Note:** The table above provides size information for different heights and body measurements. It includes regular, international, short, and slim sizes, along with corresponding inch (width/lenght) measurements.
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