



Automated welding

3D profiling

Customer: Decom Tools

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# MÜLLER OPLADEN & WATTS MUELLER

# Müller Opladen over a 100 years of German machine building tradition and experience





Founder of the company in 1919 Managing director between from 1919 to 1963







Managing director from 1963 to 1979



**Interim management** 



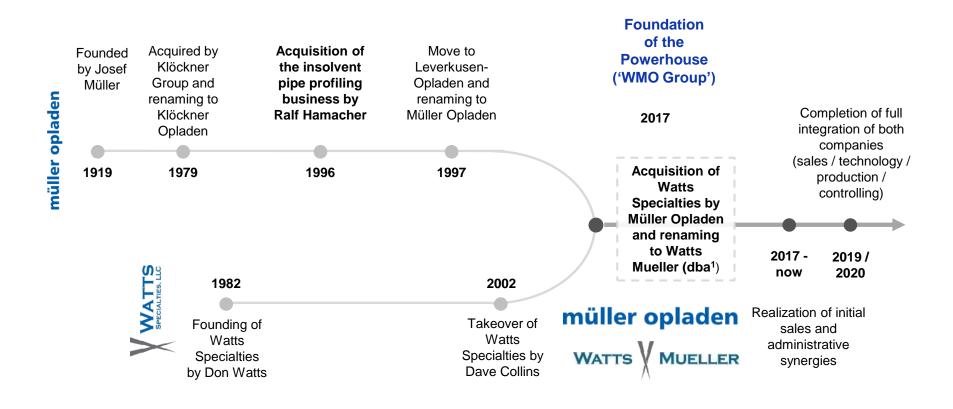
Josef Müller II Managing directors since 1996

Ralf Hamacher





# Watts Mueller – worldwide biggest manufacturer of CNC Pipe Profilers

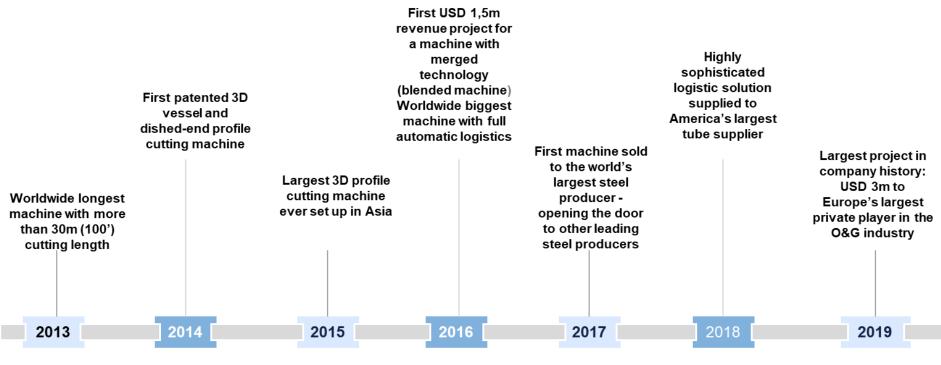




#### Selected corporate information

- Business model: Engineering and fabrication of machines along with sophisticated software (niche player)
- 2. Legal status: Private ownership; limited liability
- 3. Average export level: Mueller Opladen > 75 %, Watts Mueller > 10 %
- 4. Customers: Multinational corporations and mid caps with business in core industries for energy and infrastructure
- 5. Track records: More than 1,000 machines in 72 countries
- 6. Average annual turn-over: about USD 15 Million
- 7. High skilled qualification level of employees (almost 30 % of the employees with university degrees)
- 8. Product characteristics: High innovate machines and software with high and reliable quality

#### **Selected corporate Mile Stones**















**#FERGUSON®** 

#### **Locations in Opladen Germany and Puyallup USA**



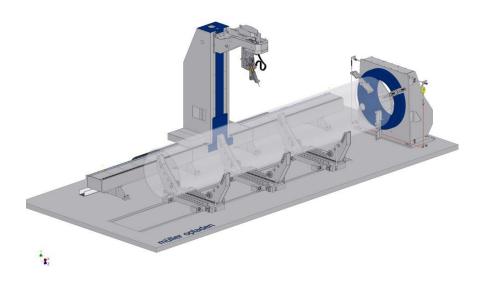


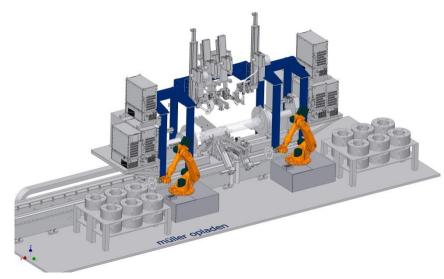
Assembly in Opladen Germany

Assembly in Puyallup WA USA



#### **Business units**





3D profiling machines

Automated welding systems

### **Business unit 3D profiling machines**











### **Business unit automated welding solutions**







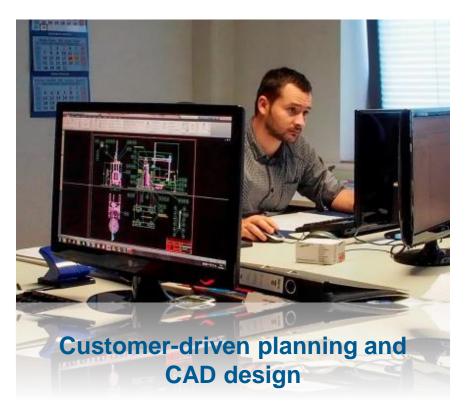




# International sales distribution network of established specialist trading companies

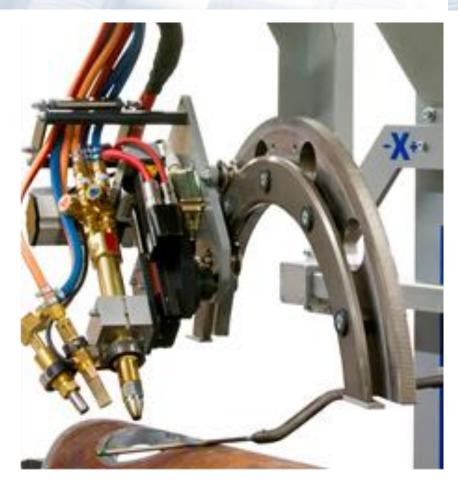


#### Core activities: Research & development



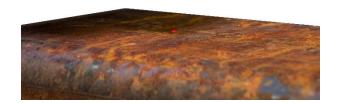


#### **Sensing Systems – Most advanced solutions**



**Electro Mechanical Tracer** 





**Laser Sensor** 

# **MO Heavy-Duty series** for **OD 200 – 4,000 mm (8 – 160")**



MO 4000/6 Heavy-Duty RD



**Cutting module for dished ends** 

### Oxy-fuel cutting with automatic piercing and pre-heating

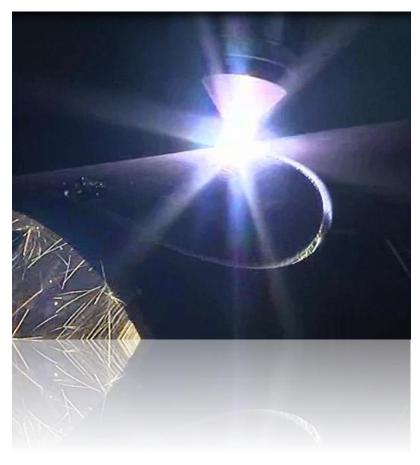


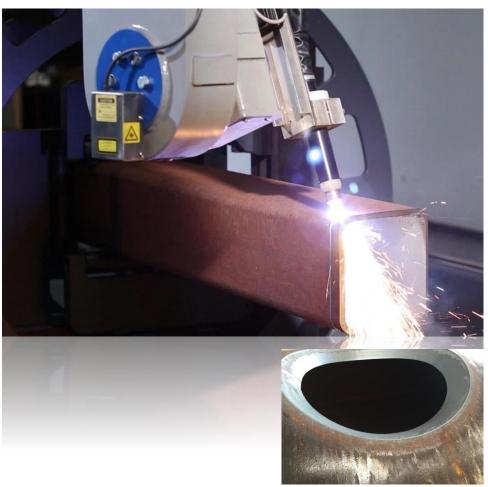






# **Plasma cutting**





#### **Economic solutions for simple cutting tasks**



Straight cut-off fixture W-132

Table top cutting fixture W-60-20-SM

#### **Automated welding systems(1)**



Automatic multi-axis for 1 ton positioner for the MIG-MAG welding of valves



Automatic multi-axis for 15 tons positioner for the MIG-MAG welding of valves

#### **Automated welding systems (3)**



Circumferential welding system for submerged-arc-welding of fittings



Welding system for powder plasma build-up-welding on drilling heads

#### **Automated welding systems (5)**



Longitudinal welding system with 2 welding heads for the MIG welding of the roofs and sidewalls of passenger carriages



Longitudinal welding system with 2 welding heads for the MIG welding of steel beams



#### Column & booms



Column & boom, lean design



Column & boom, heavy-duty design

#### Selection of reference customers (1)



Alstom, Germany

**Automated welding solution** 

#### Selection of reference customers (4)



CB&I, USA

**Combination of MO Classic and Watts series** 

#### World's biggest machine with full automatic logistics



CB&I, USA

**Combination of MO Classic and Watts series** 

#### Selection of reference customers (6)



COOEC, China

#### Largest machine in Asia



COOEC, China

#### **Selection of reference customers (7)**





Dragados Offshore, Spain

#### World's longest machine 30m (100') cutting length



Dragados Offshore, Spain

#### Selection of reference customers (9)



Zamil Steel, Saudi Arabia

#### World's first patented vessel and dome cutter



Zamil Steel, Saudi Arabia

#### Selection of reference customers (10)



Keppel Fels, Singapore

**MO Classic series** 

#### Selection of reference customers (10)



Keppel Fels, Singapore

**Automated welding solution** 

#### Selection of reference customers (12)



Gasanlagenbau Petzold, Germany

**Automated welding solution** 

#### Selection of reference customers (15)





Saipem Brazil

**MO** Robo series

#### Selection of reference customers (16)



Siemens, Germany

**Automated welding solution** 

#### Reference customers in offshore plant construction



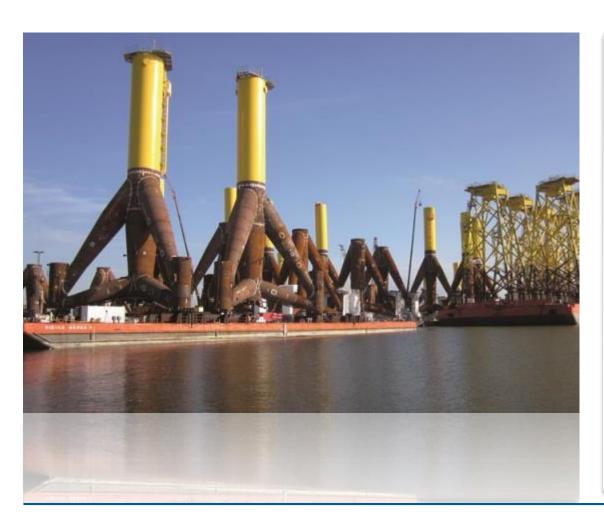
Top side construction

#### Selected reference customers

- Aker Solutions
   Norway
- Bosnor Mexico
- Kencana Petroleum Malaysia
- Larsen & Toubro India, Oman, Qatar, Saudi Arabia, UAE
- Agility Group Norway
- Bosshelf
   Azerbaijan
- COOEC China
- CUEL
   Thailand

- PTSC Vietnam
- Saipem
   Angola, Brazil, Canada,
   Congo, Italy, Nigeria,
   Saudi Arabia
- Sonamet
   Angola, Nigeria
- Techint Brazil
- Dragados
   *Mexico, Spain*
- Keppel Fels Singapore
- Lamprell UAE
- PPL Singapore

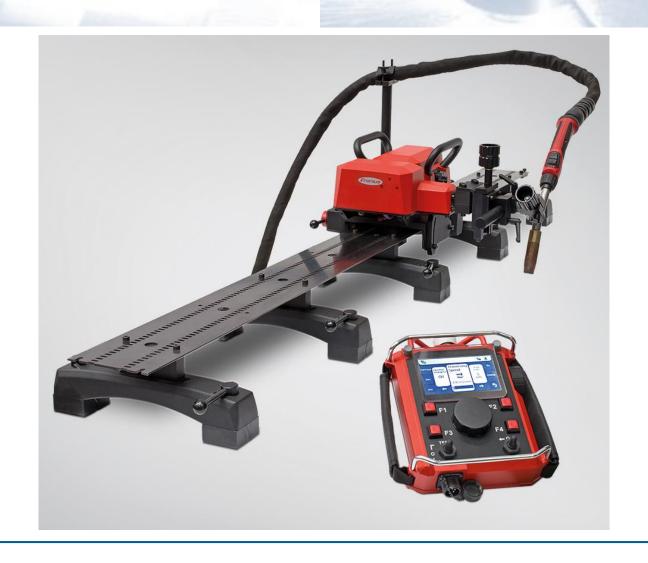
#### Reference customers in wind turbine construction



#### **Selected reference customers**

- Bilfinger Mars Offshore Poland
- Cimtas Turkey
- Dragados Spain
- Navacel Spain
- ST3
  Poland
- Steel Engineering United Kingdom
- Tata Steel United Kingdom
- Vitkovice Power Engineering Czech Republic

#### **Basis Traktor 1**



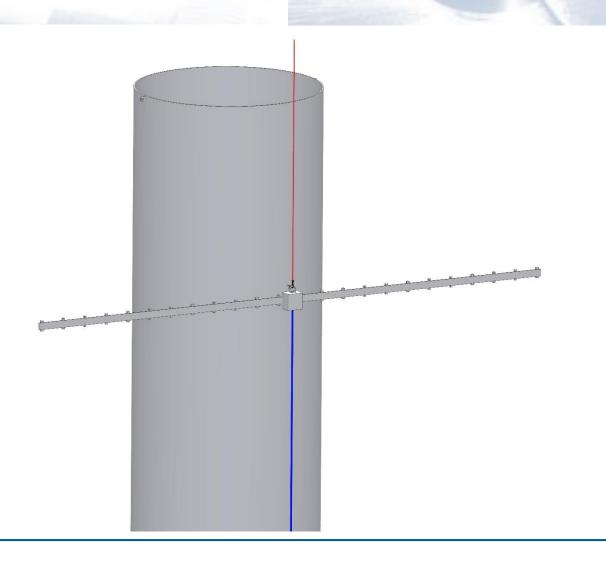
#### **Basis Traktor 2**



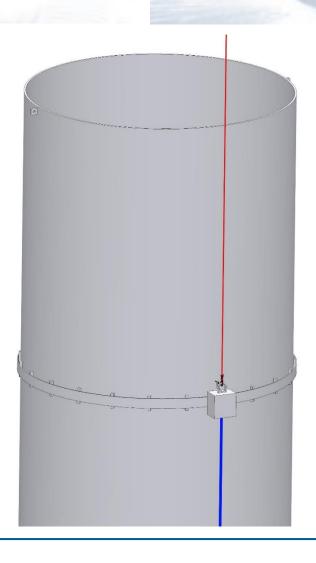
#### **Basis Traktor 3**







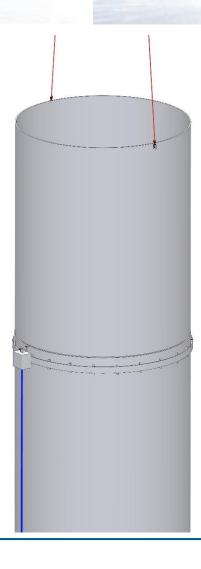












#### **Features Müller Opladen Terminator:**

- For wind towers with a diameter of 3.000 8.000mm
- Only one crane needed
- Same crane that places Terminator can pick up as well tower segment
- Completely remote controlled
- NO operator needs to climb around the tower
- Levels itself once magnetic base is attached to the tower
- Rails move around tower automatically and attach themselves magnetically
- System for rail length adaption to actual tower circumference and selfsecuring hook up
- Terminator can move and cut more than 360° around tower
- With special welding equipment lifting eyes can be welded on as well

#### Müller Opladen Recycling Tandem 1



#### Müller Opladen Recycling Tandem 2

#### **Features Müller Opladen Recycling Tandem:**

- Double wind tower scrapping system with only one operator
- Wind tower segments of 12m 70m are cut with oxyfuel torch
- Oxyfuel torch on motorized automated column and boom system on rails
- Camera system for easy monitoring
- Wind tower segments on protected and re-inforced tank rollers on rails
- Segment gets cut into the desired dimensions with automated software
- No operator programming needed
- Cutting either into long strips and 2 rings or only long strips
- Cutting from outside and inside automatically controlled possible
- Camera system together with software allows very easy point to point cuts if required





#### **Further information:**

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