

RAS Reinhardt Maschinenbau GmbH

Welcome !



Medium-size family-owned company

▪ Established	1939
▪ Founder	Wilhelm Reinhardt
▪ Owners	Family Stahl
▪ Employees	230
▪ Sales	50 Mio. USD
▪ Export rate	80 %
▪ Apprentices rate	12 %

General Managers



Rainer Stahl

Willy Stahl

Effringen



**Production
Fabrication**

**Property
Production**

**9 Acres
130,000 sq ft**

Sindelfingen

**Assembly
Showroom
3.5 Acres**



Technology Center



RAS Systems

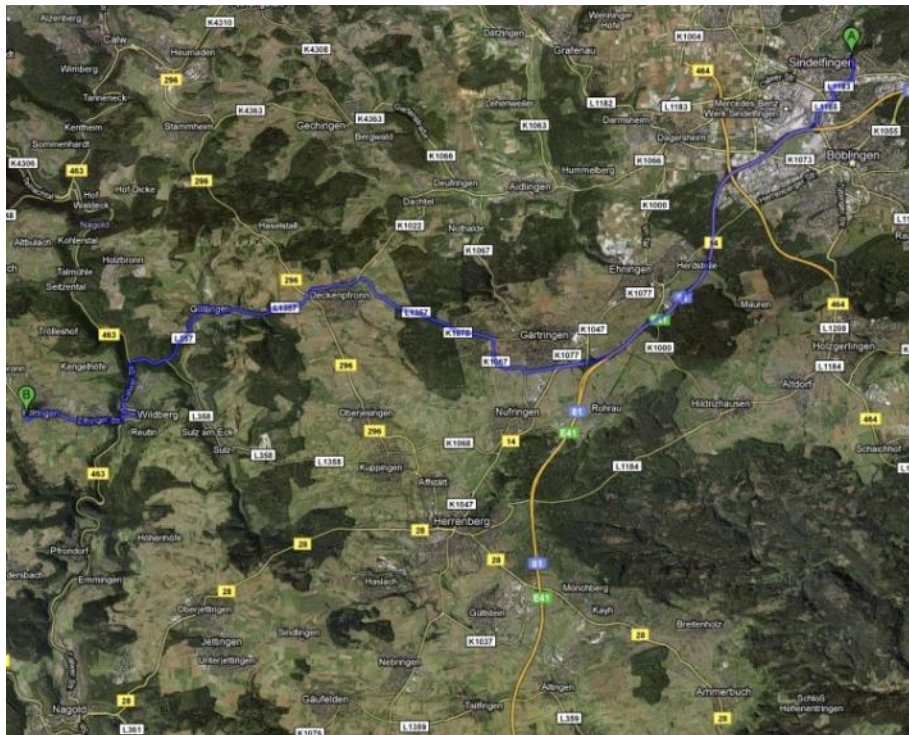
Atlanta, Georgia, USA



Sales and Service
since 1992



Production Flow



Sindelfingen – Effringen

Distance 30 km (20 miles)

Wildberg - Effringen



Production Flow



Effringen
Office building and
Steel Sculpture from Lutz Ackermann



Production Flow



Ausgangsmaterial

- Steel rods
- Sheet metal sandblasted (thick)
- Sheet metal lasered (thin)



Production Flow



Sägezentrum (automatisches Lager)

- Automatic operation
- Part length up to 6 inches

Stangen/Profile Hochregal

- Long parts up to 260 inches
- 69 cassettes



Production Flow



Schneidanlage: Autogen/Plasma

- 2 x Flame > 1.2 inches
- 1 x Plasma < 1.2 inches
- Oscillating conveyor for scrap
- Exhaust system



Production Flow



Grinding

- Roller table for working pool
- Exhaust system



Manual grinding

Production Flow



Horizontal part leveling



Vertical parts leveling

Production Flow



Spot welding



Manual spot welding



Spot welded folding beams

Production Flow



Welding robot / 2 working station / reduced set-up time



Production Flow



Grinding



Manual grinding

Production Flow



Fabrication using RAS folding machines

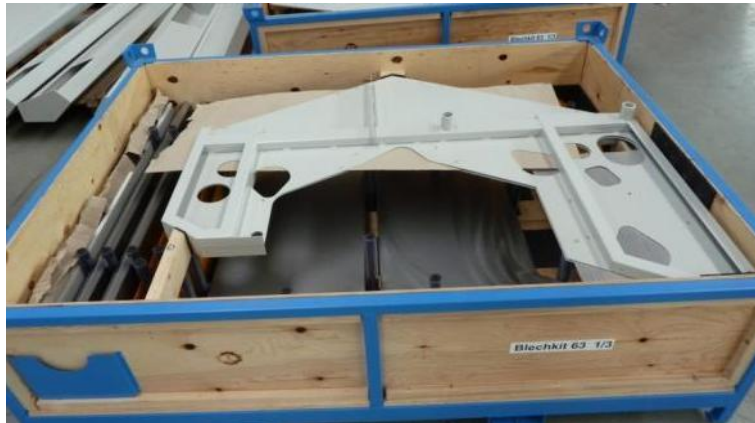
Production Flow



Folding



Welding



Warehouse



Sheet metal kits

Production Flow



Powder coating of Sheet metal and machine components

- Box concept
- Material hanging up to 4 tons
- washing - drying
- Powder coating - baking



Production Flow



Milling machines



Werkzeug-Einstellung



3 axes milling center
with shuttle machining

Production Flow



3 x CNC Milling Centers

- Setup parallel to runtime using 8 cassettes
- Tool changer with 45 tools per carriage



Production Flow



Finishing area

- Drilling, thread cutting for attachment parts

Production Flow



Quality check



- Articulated arm systems
- Altimeter

Production Flow



JIT – Warehouse

- Powder coated
- Machined



Production Flow



Logistic Efringen - Sindelfingen

Main component assembly



Upper beams



Side stands



Folding beams



Lower beams

Integration assembly



Integration
Commissioning
Final inspection



RAS – We l(i)ove progress!!