

OTHON FEY

PIPES AND SHEET METAL TRANSFORMATION



58, RUE DE SILTZHEIM • BP 70804 • Z.I. DE REMELFING • 57208 SARREGUEMINES CEDEX • TÉL. +33 (0)3.87.98.35.29 • FAX +33 (0)3.87.95.14.93 • o.fey@othon-fey.fr

WWW.OTHON-FEY.FR

CONTENTS

03 OTHON FEY

- 03 SPECIALTIES
- 04 AT A EUROPEAN CROSSROADS
- 05 COMMITMENT & PARTNERSHIP
- 06 QUALITY & ENVIRONMENT

07 EXPERTISE

- 08 SHEET METAL WORKING
- 09 CUTTING - LASER CUTTING
- 13 ROBOTIZED LASER CUTTING THERMAL FRICTION DRILLING - MECHANICAL RILLING
- 11 THREAD CUTTING BY ROLLING AND MACHINING
- 12 PIPE END DEFORMATION
- 13 BENDING
- 14 WELDING
- 15 TOOLING - PROTOTYPING METROLOGY
- 16 LOGISTICS - WAREHOUSE INTERNAL FLOWS
- 17 PAINTING - FINISHING - PACKAGING - SHIPPING



OTHON FEY

3



Building on the strength of experience gained since 1932, OTHON FEY is a family owned subcontracting company with a workforce of about 100 people, specializing in the transformation of pipes and sheet metal, primarily made from mild steel but also from stainless steel and copper.

Located in France's Lorraine region, close to the German border, our company has the advantage of offering customers improved communication as most staff speaks two languages.

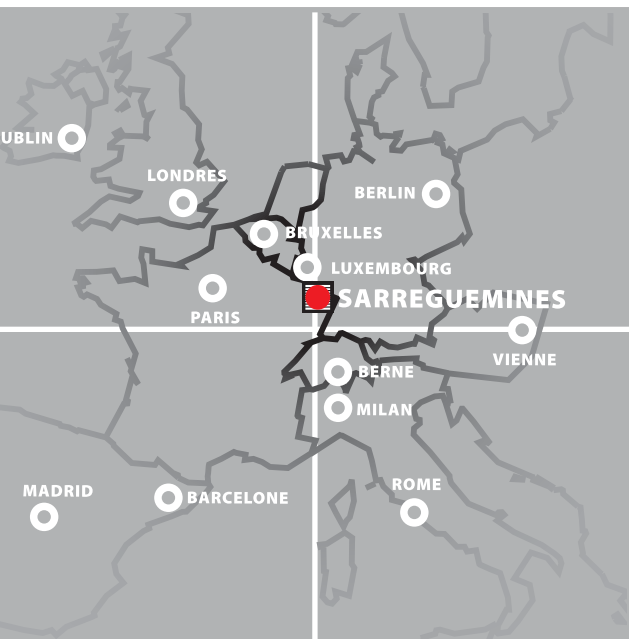
With a facility covering more than 8,000 sq. meters and a fleet of machines that are technologically state of the art, operated by experienced and responsible staff teams, OTHON FEY applies its expertise to serving a highly demanding European clientele.

SPECIALTIES

- Heating
- Air-conditioning
- Preparing hot water
- Furnishings
- Agricultural, public works and gardening machinery...



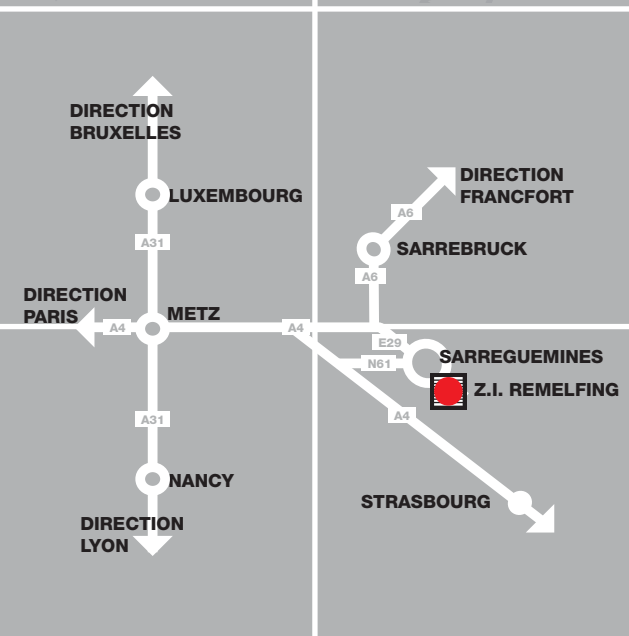
OTHON FEY



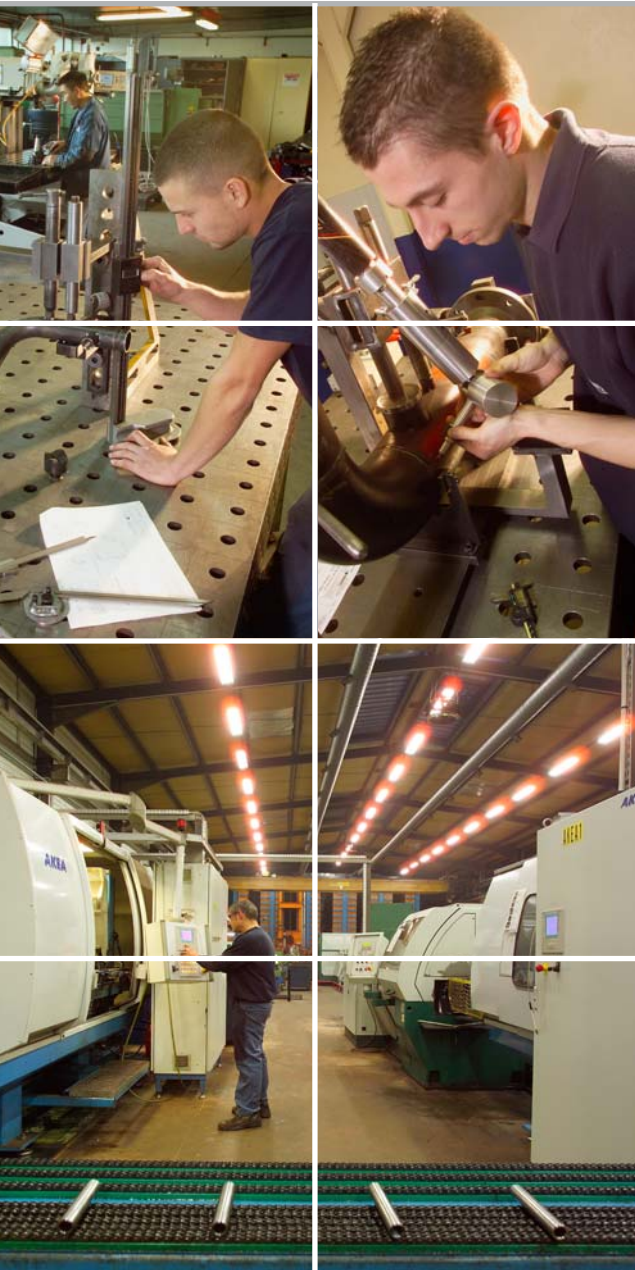
AT A EUROPEAN CROSSROADS

Located in the Remelfing industrial park, close to the Sarreguemines basin motorway network, our company is located at the heart of the North-South and East-West roadways.

The advantages and professionalism that our company has to offer bring us a continually expanding, loyal customer base from Europe and around the world.



OTHON FEY



COMMITMENT

Involved in research and development work, on the job safety and adapting to an automated and robotized working environment, our teams continuously monitor production.

OTHON FEY listens to all customers so as to react quickly and efficiently.

PARTNERSHIP

From design to manufacturing, from prototype to series production, OTHON FEY works closely with customers on the design and simplification of their products.

OTHON FEY shows its competitiveness in production runs of 20 to 10,000 units, thanks to its installed base of high performance machines supported by exceptional in-house logistics.

Furthermore, a department using computerized manufacturing techniques processes data in real-time to offer a full range of solutions for optimizing customer requests.



OTHON FEY



QUALITY & ENVIRONMENT

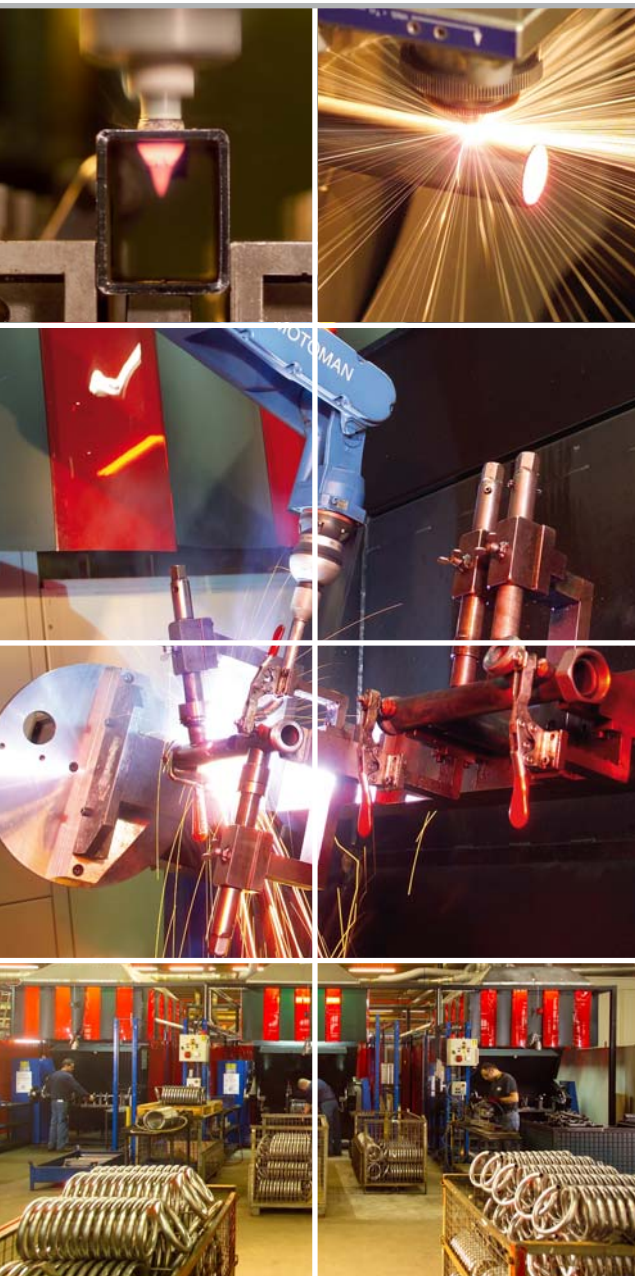
Because customer satisfaction is an ongoing priority for us, just like continuous improvement and staff satisfaction, seeking out improvements is an integral part of our corporate culture. This is why OTHON FEY has committed to following a recognized ISO 9001 quality charter since 1997.

Thanks to the use of non toxic products, waste sorting and implementing processes that limit energy consumption, OTHON FEY commits to environmental protection and plays an active part in achieving this.



EXPERTISE

7



EXPERTISE

- Cutting - Laser cutting
- Thread cutting by rolling and machining
- Pipe end deforming
- Welding
- Bending
- Sheet metal working
- Robotized laser cutting - Thermal friction drilling - Mechanical drilling
- Painting - Finishing - Packaging - Shipping
- Tooling - Prototyping - Metrology
- Logistics - Warehouse internal flows

SHEET METAL WORKING

8



AMADA ARCADE 212 CNC PUNCHING MACHINE

- Sheet metal size: 2,500 x 1,250 mm
- 28 tool turret



ROBOTIZED FOLDING CELL

- MOTOMAN MRC 6 axis robot
- AMADA HFB 50 ton folding press
- Folding length: maximum 2,100 mm

BEYELER 100 TON CNC FOLDING PRESS

- Maximum folding length: 3,100 mm

AMADA GUILLOTINE CUTTER

- Maximum cutting length: 3,000 mm
- Maximum sheet metal thickness: 6 mm

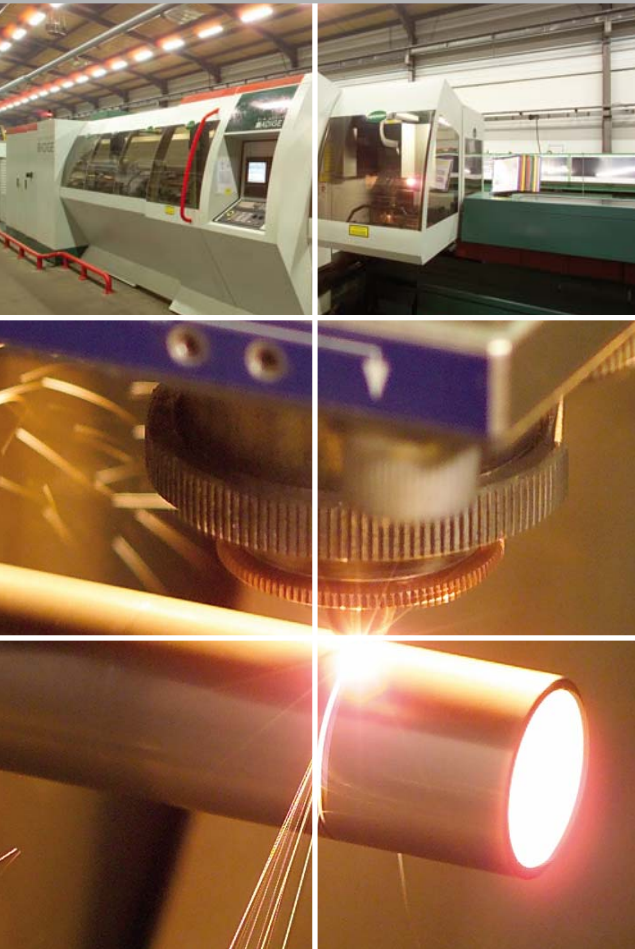
ARO SPOT WELDERS



FASTI SHEET METAL ROLLERS

- Maximum rolling length: 1,520 mm
- Maximum sheet metal thickness: 3 mm

CUTTING - LASER CUTTING



ADIGE ATS 72 PROGRAMMABLE CUTTING LINE

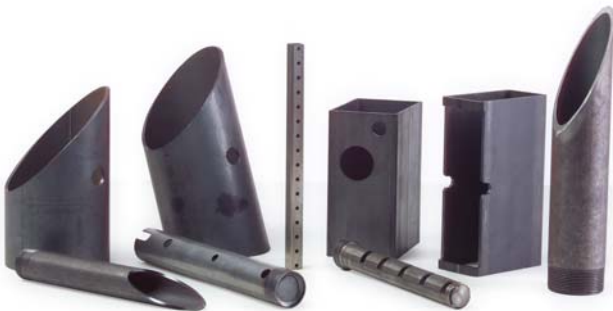
- Cutting capacities
 - Round pipe: 10 to 102 mm diameter
 - Rectangular pipe: up to 100 x 80 mm
 - Square pipe: up to 80 x 80 mm
- Built-in burr removal
- Automatic pipe feeder

ADIGE LT 722 D LASER CUTTING LINE

- Cutting capacities:
 - mild steel - stainless steel - aluminum
 - Round pipe: 12 to 140 mm diameter (152 mm optionally)
 - Square, rectangular and open profile shapes
- Automatic pipe loader
- Laser power source: 2000 watts

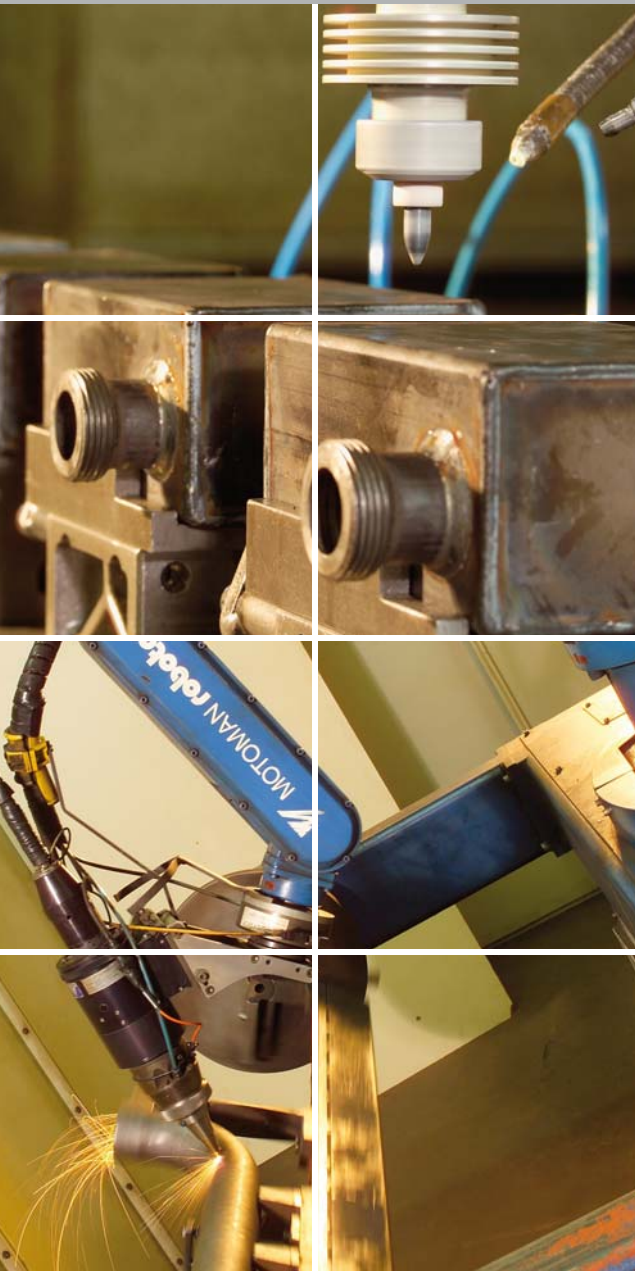
A RANGE OF SEMI-AUTOMATIC CUTTERS WITH BURR REMOVAL MECHANISMS

- Part finish cutting
- Movable table for angle cutting



ROBOTIZED LASER CUTTING THERMAL FRICTION DRILLING - MECHANICAL RILLING

10



ROBOTIZED LASER CUTTING CELL

- MOTOMAN MRC 6 axis robot
- A two station positioner for background time working
- Laser source power : 500 watts

BSI 3 AXIS SPECIAL CNC MACHINE

- Thermal friction drilling, tapping, machining
 - Four station machining transfer table

RMB SPECIAL 3 AXIS CNC MACHINES

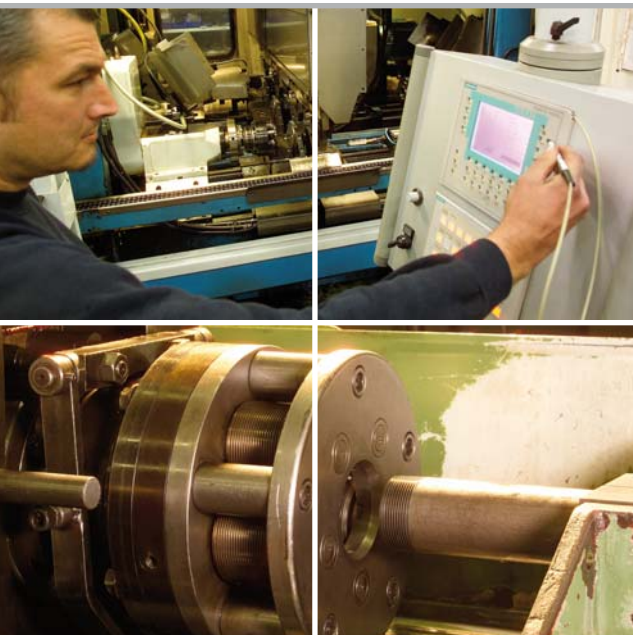
- Thermal friction drilling, tapping, machining
 - Rotary six tool turret
 - Useful table length: 1,200 mm

IBARMIA COLUMN DRILL PRESSES



THREAD CUTTING BY ROLLING AND MACHINING

11



TWO ADIGE-AKEA AUTOMATIC PRODUCTION CELLS

- From cutting to degreasing the finished part
- Production operations are performed simultaneously
 - Cutting with an automatic pipe feeder
 - Burr removal, cutting both ends to length
 - Shaping, machining both ends
 - Thread cutting by rolling up to a maximum of 1 1/2" gas thread, tapping, facing (for a seal surface on a thin wall pipe)
 - Degreasing
 - Packaging

A RANGE OF ROLLING THREAD CUTTERS

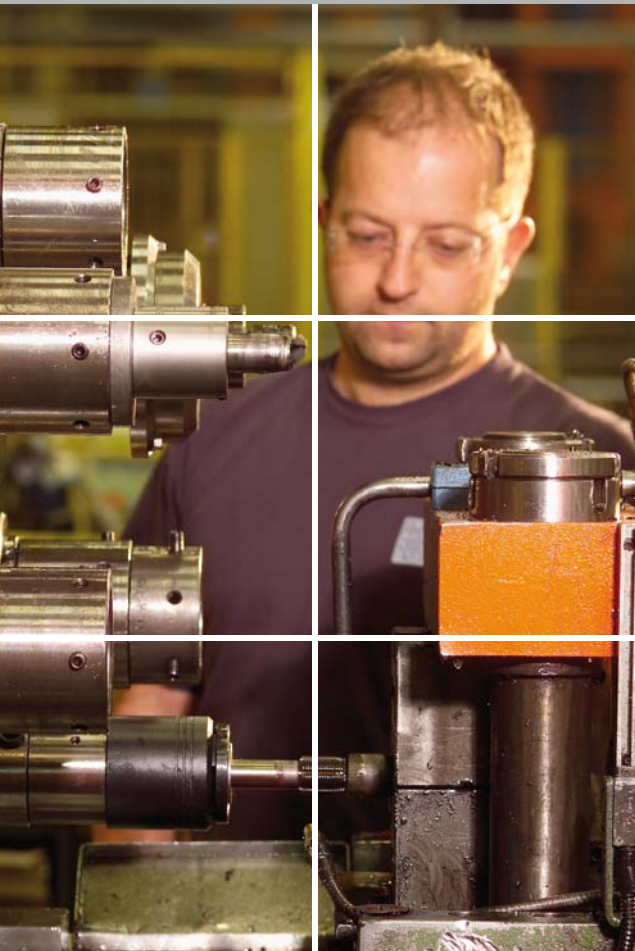
- For gas, NPT and metric threads...
- Capacities:
 - Minimum 1/4" gas
 - Maximum 2" gas

MACHINING THREAD CUTTER

- For gas, NPT and metric threads...
- Capacities:
 - From 1/4" to 4" gas threads



PIPE END DEFORMATION



BEMA AUTOMATIC PRESSES

- Flaring, swaging, boring, facing, tapping
- Applying various deformations
- Six station rotary turret lathe
- Capacities:
 - Maximum diameter: 114 mm
 - Maximum tapping: 1 1/2" gas
 - Maximum pipe length: 1,500 mm
- Automatic part loader

VICTAULIC PRESS AND GROOVE ROLLER

- Minimum capacities:
 - Diameter: 26.9 mm
 - Thickness: 1.7 to 2.9 mm
- Maximum capacities:
 - Diameter: 323 mm
 - Thickness: 4 to 9.53 mm



BENDING

13



BEMA CNC 100 BENDING MACHINE

- Right hand bending with a positioner
- Capacity:
 - Round pipe: maximum diameter 100 mm, thickness 4 mm
 - Square pipe: maximum size 70 x 70 mm, thickness 3 mm

BEMA CNC 65 BENDING MACHINES

- Right hand bending with a positioner
- Capacity:
 - Round pipe: maximum diameter 65 mm, thickness 3 mm
 - Square pipe: maximum size 45 x 45 mm, thickness 3 mm

BEMA CNC 45 BENDING MACHINE

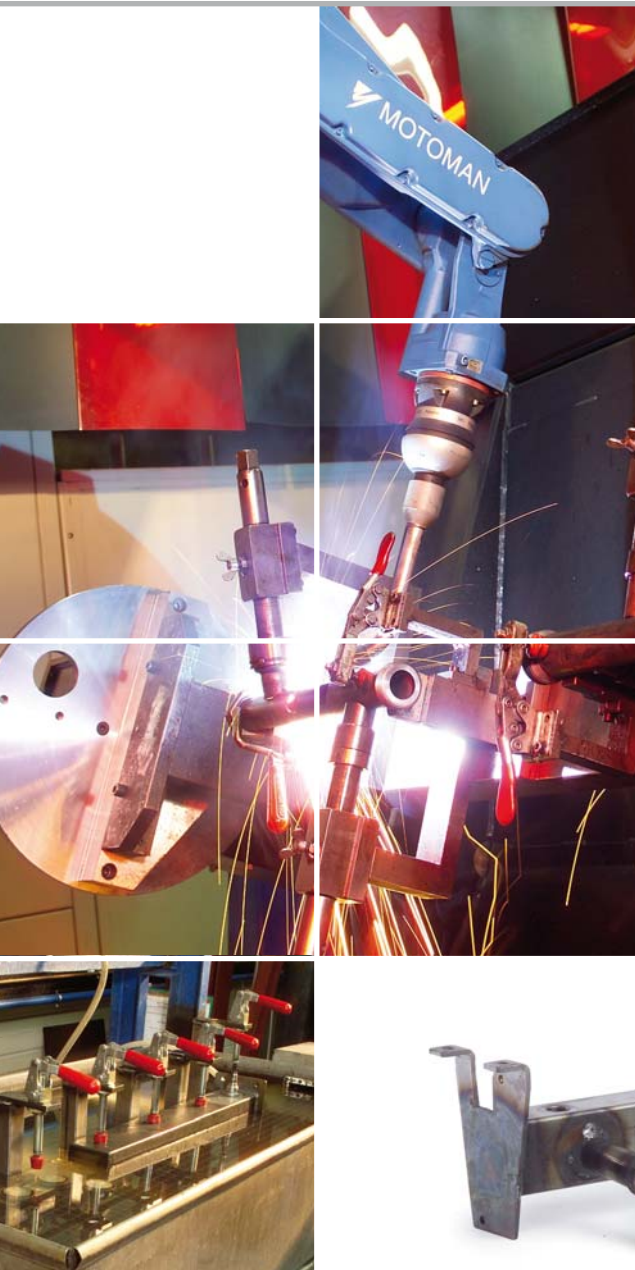
- Right hand bending with a positioner
- Capacity:
 - Round pipe: maximum diameter 42 mm, thickness 2 mm
 - Square pipe: maximum size 35 x 35 mm, thickness 1.5 mm



TAURING THREE ROLLER CNC BENDING MACHINES

- For bending pipes, shaped and solid sections to variable radii
- Capacities:
 - Round pipe: maximum diameter 60.3 mm, thickness 3.2 mm
 - Round pipe: maximum diameter 70 mm, thickness 2 mm
 - Square pipe: maximum size 60 x 60 mm, thickness 3 mm
 - Rectangular pipe: maximum size 80 x 30 mm, thickness 3 mm

WELDING



SIX ROBOTIZED WELDING CELLS

- A six-axis MOTOMAN NX 100 industrial robot
- A two station positioner for background time working

CONVENTIONAL MAG-TIG WELDING STATIONS

KÖSTER STUD WELDER

- Capacities:
 - Diameter: 2 to 22 mm
- Automatic feed

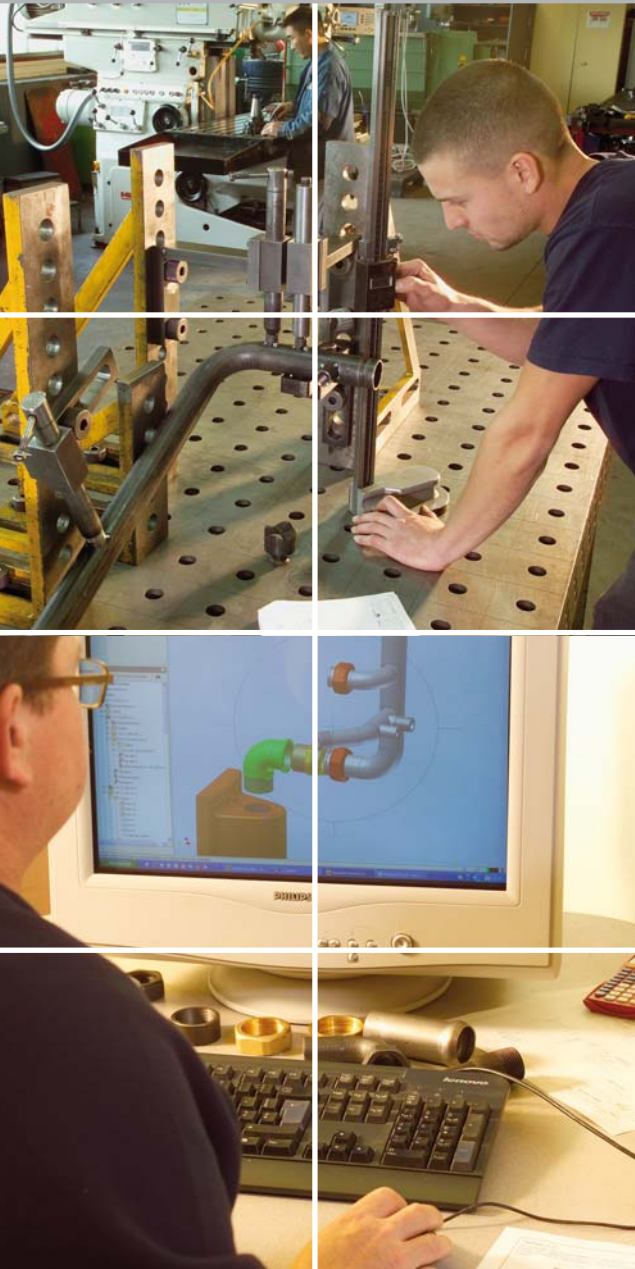
WELD SEALING TEST STATIONS

- Parts pressurized by immersion in water
- Tests performed by measuring pressure variations



TOOLING - PROTOTYPING METROLOGY

15



A RANGE OF CONVENTIONAL MACHINES

For producing our tools, patterns and prototypes and conducting our tests

- Grinders
- Lathe
- Plane rectifier
- Cutters
- Drills
- Press

CAD WORKSTATION

Supporting design work

- Autodesk Inventor type (3D) CAD software
- The ability to read customer files in the following formats:
 - IPT
 - IGES
 - STEP
 - DXF
 - DWG
 - SAT

MEASUREMENT AND QUALITY LAB

- 3D measuring arm
- Various measurement instruments

LOGISTICS - WAREHOUSE INTERNAL FLOWS

16



DORNIEDEN COMPUTERIZED PIPE STORAGE UNIT

- Capacity:
 - 384 tons
 - 128 cassettes with a capacity of 4,000 kg
 - Maximum length: 7 meters

DORNIEDEN COMPUTERIZED SHEET METAL STORAGE UNIT

- Capacity:
 - 215 tons
 - 62 shelves with a capacity of 3,500 kg
 - Maximum size: 1,000 x 2,000 mm

DORNIEDEN COMPUTERIZED CASE STORAGE UNIT

- Capacity:
 - 284 tons
 - 284 cases with a capacity of 1,000 kg
 - Storage is barcode reader controlled

DORNIEDEN COMPUTERIZED WELDING JIG STORAGE UNIT

- Capacity:
 - 94 nacelles

THREE HAENEL COMPUTERIZED PART STORAGE TOWERS

- C.A.M. link
- 3 x 50 storage shelves

PAINING - FINISHING - PACKAGING - SHIPPING

17



ELECTROSTATIC PAINT LINE

- Liquid and power paint
 - Degreasing tunnel
 - Rinsing
 - Drying tunnel
 - Paint units
 - Drying stove

TROWAMAT AUTOMATIC WASHER

- Capacities:
 - Washing in 1,200 x 800 x 800 mm
 - Europe standard cases



PACKAGING AREA READY FOR SHIPPING

- Storage
- Kanban deliveries
- Bespoke packaging and deliveries in line with customer requirements

