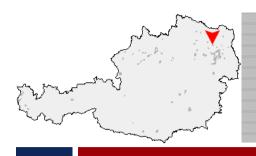
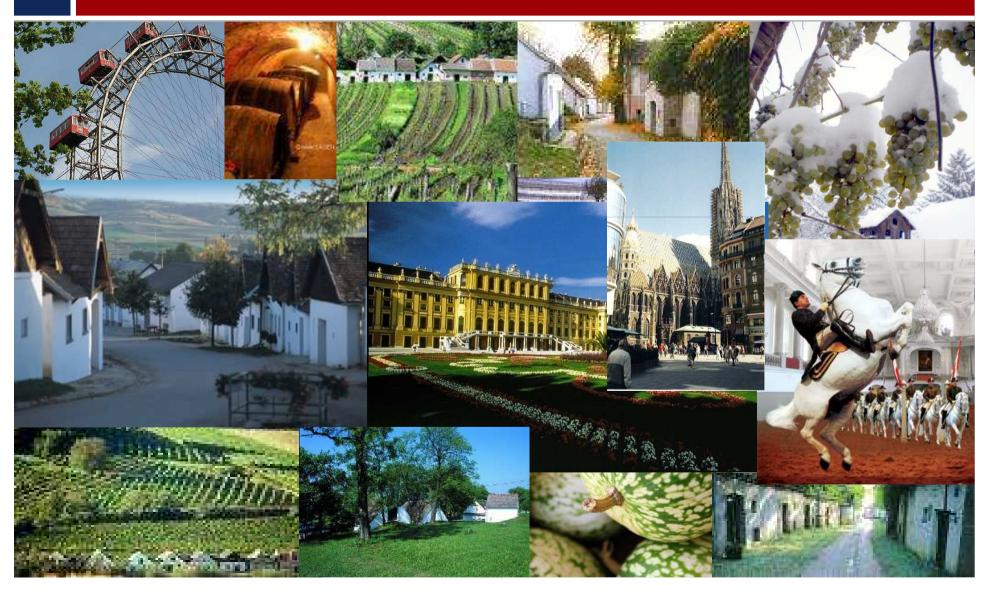
SBI PRODUKTION TECHN. ANLAGEN GMBH





WHERE ARE WE LOCATED



WHAT EXPECTS YOU...

- Company profile
- Mission
- Milestones
- Figures
- Plastic extrusion: Product range, common features
 - Film gauges, Sheet gauges, Thickness controls, Automatic die systems
- Plasma welding: Product range, common features
 - > Spot welding, Seam welding, Brazing, System solutions
- Project innovation assistant
- Discussion

COMPANY PROFILE

is a dynamic company,

offering innovative, client-specific and competent solutions by

developing and producing technical equipment in the business fields

PLASTIC EXTRUSION

PLASMA TECHNOLOGY

MISSION OF THE SBI-TEAM



- · Research,
- · Development,
- Production and
- Distribution

of High tech-Products

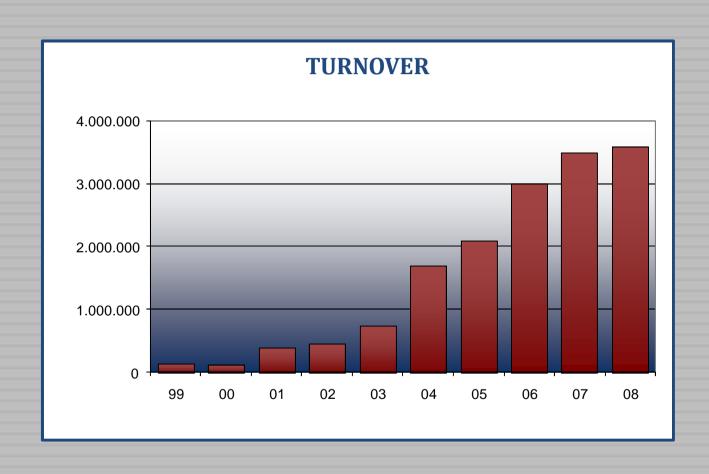
distinguishing from the

"state of the art" !!!

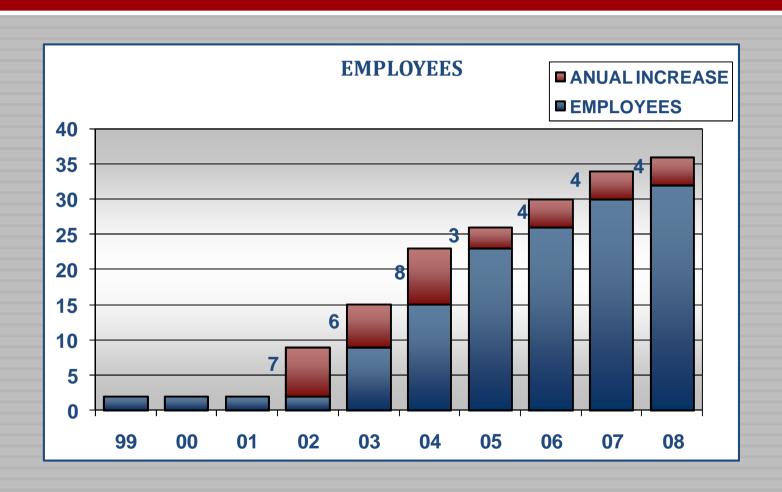
MILESTONES

1999:	√ foundation of the company
2000:	√ 1 st SBI-project for serial production
2002:	✓ PSW-market launch in Germany
	✓ SBI hires first employees
	✓ Start of project "innovation assistant"
	√ Innovation-price at the Euroblech'02
2003:	✓ Relocation to the new SBI plant
	√ Innovation-price 2003 in Lower Austria
2004:	✓ Market launch in Spain, Portugal, Hungary and Switzerland
2005:	✓ Market launch in Russia
2006:	✓ Starting the cooperation with MEC Group
2007:	✓ Turnover 3.5 Million Euro
2008:	√ 35 employees

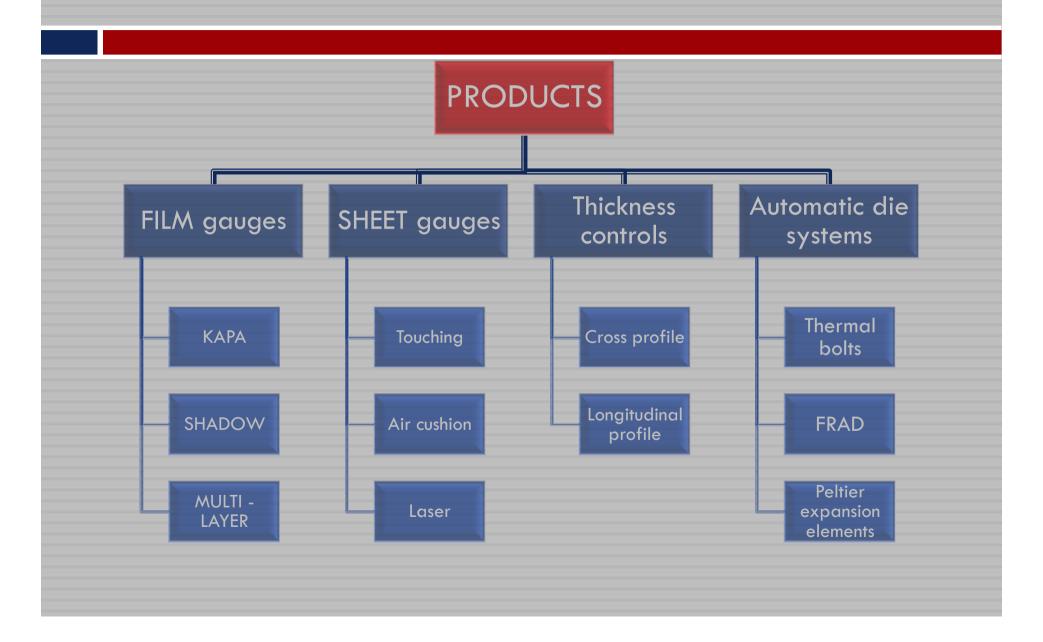
FIGURES



FIGURES



PLASTIC EXTRUSION





THICKNESS GAUGES AND AUTOMATIC SYSTEMS FOR EXTRUSION DIES



Automatic die systems – also for retrofit existing dies



working range: 2 mm

Flat die with automatic system: FRAD

THICKNESS GAUGES AND AUTOMATIC SYSTEMS FOR EXTRUSION DIES



SBI workshop Hollabrunn, Austria

PRODUCT RANGE



Applications



Applications PSW



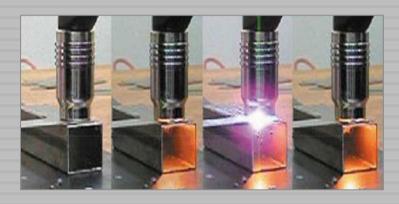
Exterior angle



manual



Interior angle



process



automated

Bus manufacturing





Profil frame construction To cover with 1.4301 Thickness: 1 - 2,5 mm

Manufacturing of wine tank





Zink coated sheets with filler









Upper side

Lower side

Zink coated sheets with filler





Three sheets join:

HX 220 YD + Z 100 MB t=1,0 DC 04 + ZE 75 t=0,8 ZStE 260 + Z 100 MB t= 2,5

PRODUCT RANGE



FEATURES

Common features of Plasma welding

Range of applications: welding, brazing, tempering

Seam properties: free of spatter, non-porous, plane

Process properties: high speed, easy accessibility,

low energy input

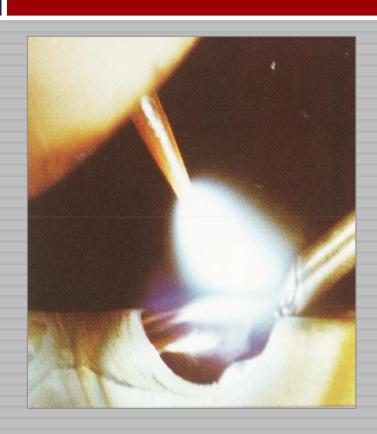
Costs: low investment- and operating costs

compared to laser welding process, low

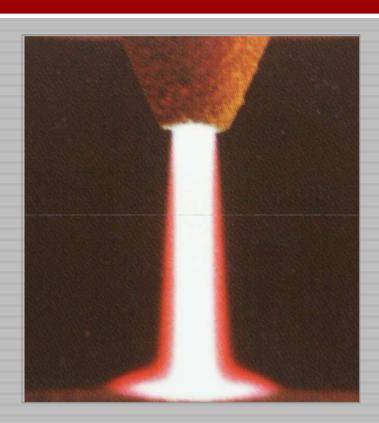
energy input, sound energy shielding

Arc comparison









Plasma-arc

Applications Plasma seam welding



- Barrels for dish washing machines 0,4/0,5 mm butt joint
- Wine tank manufacturing 0,8 on 2,5 overlap seam
- Rail wagon manufacturing
- Zeolith cooling tanks flanged seam 0,8mm
- Fuel tank Audi A8 flanged seam, nipples and service hole
- Seam weld on fire extinguisher
- Flanges on corrugated pipes

Pressure vesse







Material: St 37-2, Thickness 1,25 and 1,5 mm Pressure thight up to 70 bar After burst test: Seam ok

Welding parameter:

Torch: ABIPLAS WELD 150 W with 165 A

Welding speed: 1,6 m/min

Plasma gas: Argon; Shielding gas: Ar/H₂

94/6

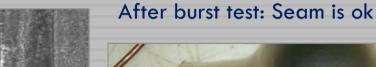
Exhausting pipe







Stainless steel 1.4301; S = 0.2 mmAlternative to TIG and Laser welding





Welding parameter:

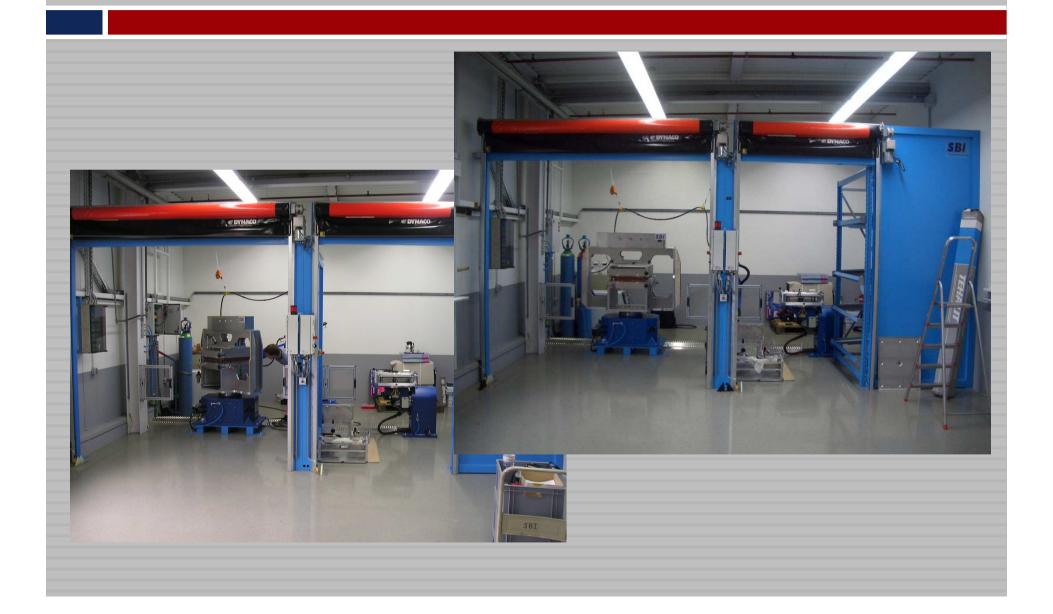
Torch: ABIPLAS WELD 100 W with 35 A

Welding speed: 7 m/min

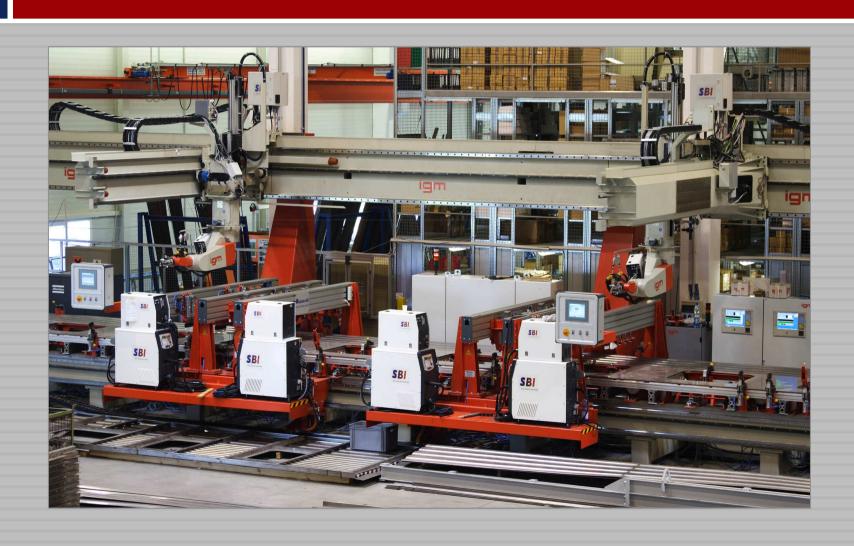
Plasmagas: Ar; Shielding gas: Ar/H₂

94/6

System solutions



Serial production of rail wagons



Innovation Assistant

Start of the pilot project innovation assistant in October
 2002 – 1st innovation assistant in lower austria

Name:

 1) Dipl. Ing. (FH) Hans Uher
 Mr. Uher leave SBI in March 2003 of personal reasons

2) Dr.-Ing. Stefan Gießler (from 01.07.2003)

Education: Technical university of Clausthal (Germany),
 mechanical engineering, scientist on the institute of welding (TU Clausthal)

Innovation Assistant

Target of the project:

> research and development of economic plasma welding solutions for worldwide users

Projects of the innovation assistant:

- Developing of plasma welding machines for longitudinal seam welding
- > Internal quality management system for welding applications
- Data bank for welding parameter (internal & external)
- > Studies for customer applications
- > Cooperation with international research institutes
- > SBI presentation at international welding congresses

Innovation Assistant

Education Donau Uni Krems:

- > Exercises from the companies
- on the weekend
- > Team spirit and the colleagues
- Organization and University

Cooperation with WST3:

Cooperative, clear, friendly, committed

Summary:

- > The response of the project was very positive
- > We can recommend this project all companies



voestalpine

STAHL GMBH





extrusion technology



Creating Solutions























KUHNE































Summary

- Company
- Project innovation assistant
- OPEN ISSUES???