Special materials and nickel alloys

- Corrosion resistant pipes
- Special pipes and components ready for installation
- Clad pipes
- Spools and components in CRA or clad materials
- Vessels, tanks and apparatus
- Assemblies
Products made from special materials

The focus of BUTTING’s business activities is the manufacturing of high-quality longitudinally welded pipes made from stainless steels. We have also specialised in the production of special materials and nickel alloys for more than 30 years. Few companies in the world can point to such long-standing experience and diversity in the production of pipes in various material grades.

Highly corrosion resistant alloys

A wide range of high-performance production facilities offers you a large number of possibilities:

- Longitudinally welded pipes which we produce ourselves
  - With outer diameters from 15 to 2,032 mm (80") and wall thicknesses up to 70 mm
  - With demanding tolerance requirements
  - In special geometries
  - Acc. to internationally valid standards, including DIN EN, NORSOK, API and ASTM

- Specially shaped parts and long radius piggable bends
- Special pipes and components ready for installation
- Spools

Your contact
Phone: +49 5834 50-0
info@butting.de
Production technology

Our core skills lie in forming, welding and materials technology and in quality assurance.

BUTTING makes continuous investments in its manufacturing facilities. Extensive capacities for the production of longitudinally welded pipes and pipelines are available to you.

For this purpose, we use all the current welding processes in production, including:

- Plasma
- TIG
- SAW
- Laser beam
- Electron beam

Our expertise in relation to welding processes appropriate to the material ensures the ideal use of a product.

A crucial prerequisite for corrosion resistance is a “clean metallic surface”. BUTTING always cleans and passivates all products by means of a chemical full body pickling process. We implement project-specific surface requirements through mechanical processes e.g. by grinding or peening the inner and outer surfaces.
Quality as the decisive factor

The quality management system at BUTTING is certified under DIN EN ISO 9001 by the DNV GL. We hold many other approvals. In order to ensure that we meet project-specific demands, a wide range of testing equipment is available for destructive and non-destructive tests. We supply pipes according to international standards, including DIN EN, ASTM, NORSOK and API.

Our production technology ensures that your project-specific requirements can be implemented:

- Restricted tolerances
- Special surface treatment
- Individual quality requirements
Individual material selection

The BUTTING manufacturing programme offers you a broad spectrum of high-quality materials for your individual corrosive application.

<table>
<thead>
<tr>
<th>Material grade</th>
<th>SimilarUNS-No.</th>
<th>Othercommercial designation</th>
<th>Abbreviation</th>
<th>DIN or SEW for parent metal (coil/plate), pipe</th>
<th>ASTM for the parent metal/pipe</th>
<th>VdTÜV-Werkstoffblatt(data sheet)</th>
<th>Density (g/cm³)</th>
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## Excerpt of the BUTTING delivery programme for special alloy (continuation)

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<tr>
<th>Material grade</th>
<th>Similar UNS-No.</th>
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<th>Abbreviation</th>
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<th>ASTM for the parent metal/pipe</th>
<th>VdTÜV-Werkstoffblatt (data sheet)</th>
<th>Density (g/cm³)</th>
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</tbody>
</table>

No guarantee for correctness.
Longitudinally welded pipes

BUTTING produces longitudinally welded pipes with wall thicknesses up to 70 mm and outer diameters from 15 to 2032 mm (80").

The fully automated production process from coil is chosen when larger quantities with wall thicknesses up to 12 mm are accepted.

We produce small quantities specific to a project from individual plates and random lengths of up to 24 m.

You can coordinate all the technical product features of the pipes for your project with us, for example the size, mechanical and technological properties and quality requirements.

BUTTING supplies the entire range – high-quality pipes including the precise fittings. In so doing, we supplement our delivery with connection pieces which are necessary to install pipelines. These include:

- Elbows
- Weld necks
- Flanges
- Reducers
- Saddles and shoe branches
- Long radius piggable bends
Special pipes

BUTTING takes on the further processing of the pipes which it produces itself. Our combination of modern production technology and craft skills allows us to produce special pipes for our customers which have special:

- Surfaces
- Tolerances of form and position
- Geometries
- Mechanical finishings
- Laser finishings
- Forming processes
- Joining technologies

By individually combining our high quality pipe with the production possibilities, we create your components ready for installation. When manufacturing complex components, we guarantee you first-class processing through:

- The use of high-quality primary products
- A high degree of automation
- Well-qualified staff who are trained in the specific area
Spools

The prefabrication of pipelines is a form of installation moved forward into the production plant. BUTTING offers its customers very extensive and efficient prefabrication of pipelines according to isometric drawings, pipe-work drawings and models.

In this respect, we offer you:

- Optimum product quality
- A high level of cost-effectiveness
- Increased flexibility
- Smooth project completion
- Improved environmental friendliness
- The comprehensive expertise of our experienced staff

We are your experts for prefabricated pipe systems – from production and prefabrication through supervising on your construction site to the installation of our pipelines and vessels.
Projects all over the world

All over the world, companies put their money on the longevity and reliability of our products. We have been producing pipes and pipe components made from special alloys since the mid-1980s. Renowned customers from the chemical and petrochemical industry as well as many other industrial sectors have been supplied with products which we have produced ourselves.

We have been able to incorporate our skills into projects with the highest technical requirements, involving for example:

- Prefabricated piping systems made from the nickel-based Alloy 59 and Alloy C276, which were used for flue gas scrubbers in Canada
- Pipes made from Alloy 602CA, which were used for a flue gas system in Denmark
- Pipes made from Alloy 625, which were used for the Umm Schaif project in Abu Dhabi
- Pipes made from Alloy 825, which were used for the Karachaganak project in Kazakhstan
- Spools made from Alloy C276, which were used for a petrochemical plant in Jubail, Saudi Arabia
- Heat exchanger tubes made from Alloy C22, which were used in the USA
- Pipelines made from Alloy C4, which were used for a MDI plant in Shanghai/China
- Pipes made from 6 Moly and Alloy 825, which were used for the BARZAN project in Qatar
- Large pipes made from Alloy 600 which were used in the United Arab Emirates