





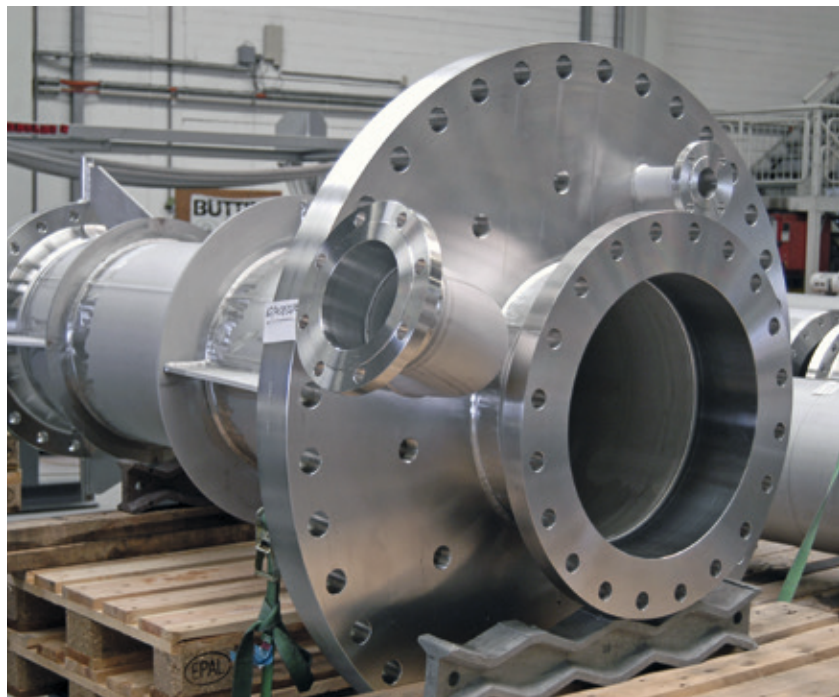


Special materials and nickel alloys

-  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



BUTTING



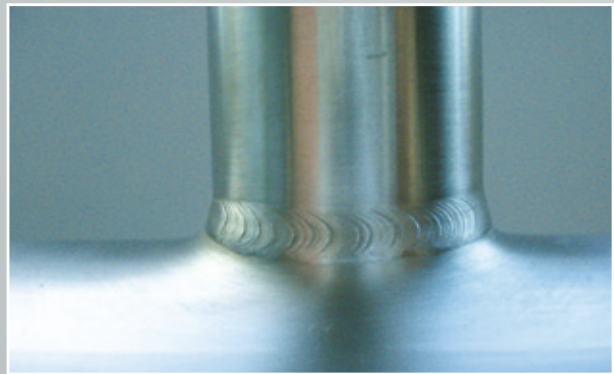
Products made from special materials

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



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.

Excerpt of the BUTTING delivery programme for special alloy							
Material grade	Similar UNS-No.	Other commercial designation	Abbreviation	DIN or SEW for parent metal (coil/plate), pipe	ASTM for the parent metal/pipe	VdTÜV-Werkstoffblatt (data sheet)	Density (g/cm ³)
1.4361	S30600		X1CrNiSi18-15-4	DIN EN 10088-2	A240/A269, A312, A358	-	7.7
1.4429	S31653		X2CrNi-MoN17-13-3	DIN EN 10028-7/ DIN EN 10217-7, DIN EN 10296-2	A240/A249, A269, A312, A358, A376	-	8.0
1.4462	S31803/ S32205	Duplex	X2CrNiMoN22-5-3	DIN EN 10028-7/ DIN EN 10217-7, DIN EN 10296-2	A240/A790, A928	418	7.8
1.4410	S32750	Superduplex	X2CrNiMoN25-7-4	DIN EN 10028-7/ DIN EN 10217-7, DIN EN 10296-2	A240/A790, A928	-	7.8
1.4501	S32760	ZERON100, Superduplex	X2CrNiMo CuWN25-7-4	DIN EN 10028-7/ DIN EN 10217-7	A240/A790, A928	-	7.8
1.4529	N08926		X1NiCrMo CuN25-20-6/ X1NiCrMo CuN25-20-7	DIN EN 10028-7/ DIN EN 10217-7	B625, A240/A249, A269, A312, A358, B673, B674	502	8.1
1.4539	N08904	904L	X1NiCrMo CuN25-20-5	DIN EN 10028-7/ DIN EN 10217-7, DIN EN 10296-2	A240/A249, A269, A312, A358	421	8.0
1.4547	S31254	254SMO	X1CrNiMo CuN20-18-7	DIN EN 10028-7/ DIN EN 10217-7	A240/A249, A269, A312, A358, A409	473	8.0
1.4562	N08031	Alloy 31	X1NiCrMo CuN32-28-7	SEW 400	B625/B619, B626	509	8.0
1.4563	N08028	Alloy 28	X1NiCrMo Cu31-27-4	DIN EN 10028-7/ DIN EN 10217-7	B709	483	8.0
1.4565/ 1.4565 S	S34565	Superaustenit	X2CrNiMn MoNbN25-18-5-4	DIN EN 10088-2	A240/A249, A269, A312, A358	537	8.0
1.4591	R20033	Alloy 33	X1CrNiMo CuN33-32-1	SEW 400	B625/B619, B626	516	7.9
1.4828	S30900		X15CrNiSi20-12	DIN EN 10095, SEW 470/ DIN EN 10296-2	A167	-	7.9
1.4841	S31000		X15CrNiSo25-21	DIN EN 10095/ SEW 470	A167	-	7.9
1.4876	N08800	Alloy 800	X10NiCrAlTi32-20	DIN EN 10095, SEW 470/ DIN EN 10028-7	A240, B409/A358, B514, B515	412, 434	8.0

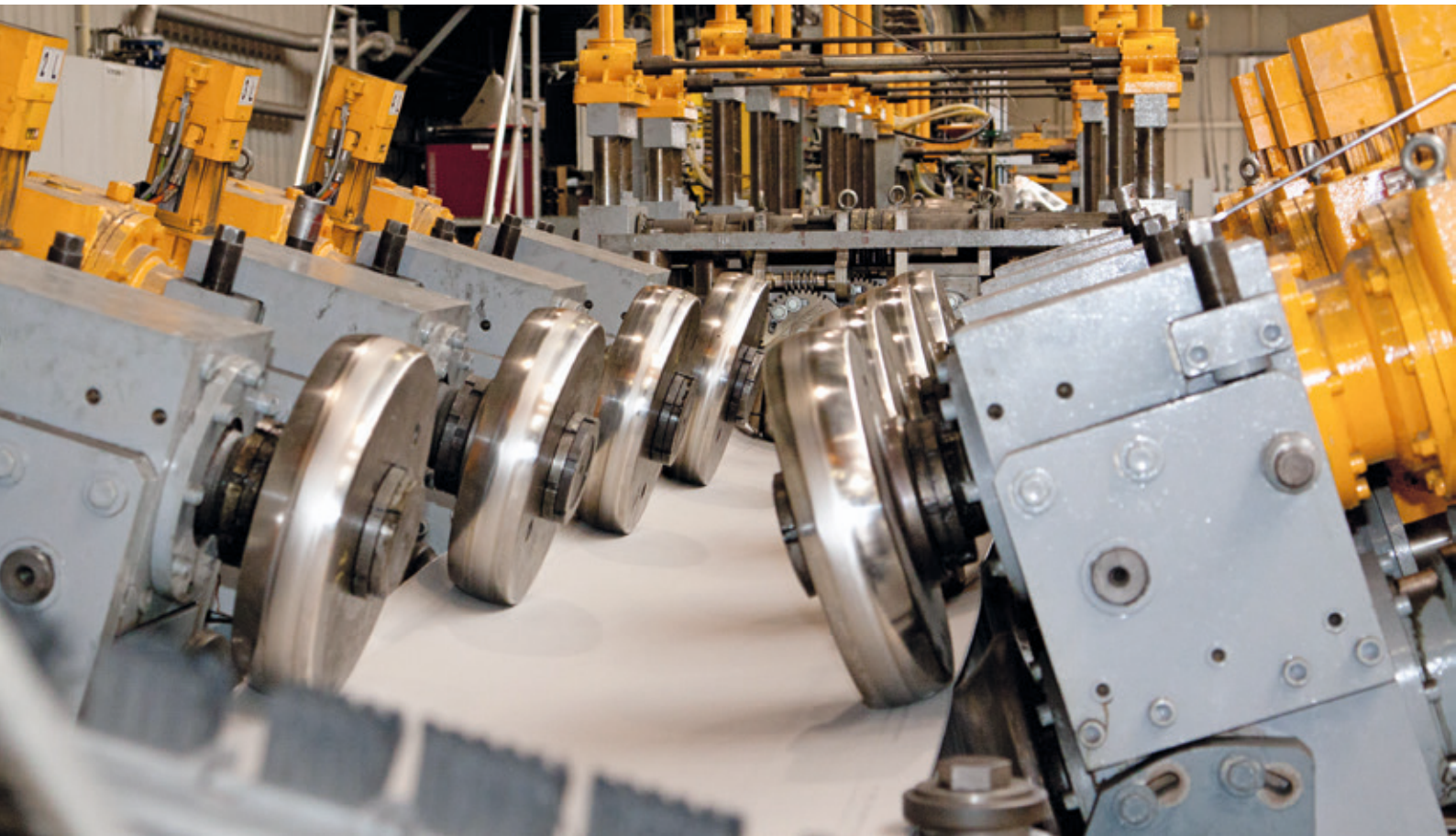
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Continuation >

Excerpt of the BUTTING delivery programme for special alloy (continuation)

Material grade	Similar UNS-No.	Other commercial designation	Abbreviation	DIN or SEW for parent metal (coil/plate), pipe	ASTM for the parent metal/pipe	VdTÜV-Werkstoffblatt (data sheet)	Density (g/cm ³)
1.4958	N08810	Alloy 800H	X5NiCrAlTi31-20	DIN EN 10028-7	A240, B409/A358, B514, B515	-	8.0
1.4959	N08811	Alloy 800HT	X8NiCrAlTi32-21	DIN EN 10028-7	A240, B409/B515	-	8.0
CW352H (previously: 2.0872)	C70600	Cunifer 10	CuNi10Fe1Mn	DIN EN 1652	B122, B171/B466, B467	420	8.9
CW354H (previously: 2.0882)	C71500	Cunifer 30	CuNi30Mn1Fe	DIN EN 1652	B122, B171/B467	420	8.9
2.4066	N02200	Alloy 200	Ni99.0	DIN 17740/ DIN 17751	B162/B725	-	8.9
2.4068	N02201	Alloy 201	LC-Ni99.0	DIN 17740/ DIN 17751	B162/B725	345	8.9
2.4360	N04400	Alloy 400	NiCu30	DIN 17743, DIN 17750/ DIN 17751	B127/B725	263	8.8
2.4600	N10675	Alloy B3/B4	NiMo 29 Cr	DIN 17744, DIN 17750/ DIN 17751	B333/B619, B626	512, 517	9.2
2.4602	N06022	Alloy 22	NiCr21Mo14W	DIN 17744, DIN 17750/ DIN 17751	B575/B619, B626	479	8.7
2.4605	N06059	Alloy 59	NiCr23Mo16Al	DIN 17744, DIN 17750/ DIN 17751	B575/B619, B626	505	8.6
2.4610	N06455	Alloy C4	NiMo16Cr16Ti	DIN 17744, DIN 17750/ DIN 17751	B575/B619, B626	424	8.6
2.4633	N06025	Alloy 602 CA	NiCr25FeAlY	DIN 17742, DIN 17750/ DIN 17751	B168/B516, B517, B546	540	7.9
2.4650	N07263	Alloy C263	NiCo20Cr20MoTi	DIN 17744, DIN 17750	-	-	8.4
2.4700		Alloy 2120 MoN	NiCr21Mo20N			-	8.6
2.4816	N06600	Alloy 600	NiCr15Fe	DIN EN 10095, DIN 17742, DIN 17750/ DIN 17751	B168/B516, B517	305	8.5
2.4819	N10276	Alloy C276	NiMo16Cr15W	DIN 17744, DIN 17750/ DIN 17751	B575/B619, B626	400	8.9
2.4851	N06601	Alloy 601	NiCr23Fe	DIN EN 10095, DIN 17742, DIN 17750/ DIN 17751	B168	-	8.2
2.4856	N06625	Alloy 625	NiCr22Mo9Nb	DIN EN 10095, DIN 17744, DIN 17750/ DIN 17751	B443/B444, B704, B705	499	8.4
2.4858	N08825	Alloy 825	NiCr21Mo	DIN 17744, DIN 17750/ DIN 17751	B424/B704, B705	432	8.1

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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



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.



