

CNC
Technology-Center

we do it

Mechanical production and assembly | Prefabrication | Custom parts

bps - one source to fulfill all needs

**TÜV
CERT**
DIN EN ISO 9001:2000
Zertifikat: 09 100 4154

Finding optimal **solutions**

bps: Part of a strong **group**

Quality comes first

BUHLMANN-PROJECT-SOLUTIONS GmbH, or **bps** for short, is a part of the greater Buhlmann Group. **bps** specializes in project development and implementation as a service provider in the fields of piping and plant engineering.

The Cadolzburg-based firm is also able to offer services in project planning and management, prefabrication, installation, as well as mechanical manufacturing and assembly.

bps serves its clients by offering complete solutions and minimizing the client's activity. Once **bps** is involved, the client's work is done.

Quality and punctuality are **bps'** top priorities.

In addition to punctual delivery, **bps** can also offer installation of the client's required parts.

The training of young professionals in the machining industry is of particular importance to **bps**. Our competent, motivated team enables us to flexibly fulfill nearly any desire our clients may have.

bps is a trustworthy partner for the preparation and manufacture of standard and custom machine parts, as well as intelligent system solutions. Clients can count on **bps** alone to fulfill all their needs.

- Basic design and stress analysis
- Detail design and technical drawing
- Construction, assembly and refinement
- Welding and heat treatment
- Internal quality control
- Testing/third party inspection
- Installation and maintenance



Meeting the highest standards of quality is of the utmost importance at **bps**. A wide range of certifications and standards are used in conjunction with renowned testing companies.

bps takes great care to stay current in terms of the norms and standards utilized in the industry, and checks compliance with these parameters regularly.

Certifications

- Quality management in accordance with DIN EN ISO 9001
- Quality management in accordance with DIN EN ISO 14001
- Occupational health and safety management in accordance with BS OHSAS 18001
- Industry specialist in accordance with
- Manufacturer in accordance with AD 2000 Merkblatt HPO
- Material manufacturer in accordance with AD 2000 Merkblatt W0
- Production specialist in accordance with PED 97/23/EG - Module G
- Production specialist in accordance with PED 97/23/EG - Module A1

Welding & Materials

- Fusion welding in accordance with DIN EN ISO 3834-2
- Welding procedure qualification records in accordance with ASME Section IX
- Structural grade carbon steel in accordance with DIN EN 10025: S235JR to S355J2G3
- Heat-resistant steel in accordance with DIN EN 10028/2: P26GH, 16Mo3, 13CrMo45, 10CrMo910, 15NiCuMoNb5 (WB36), X10CrMoVNb 9-1, X10CrWMoVNb 9-2, 7CrMoVTiB10-10
- Grain-refined construction steel in accordance with DIN EN 10028/3: from P355NL1 to P460NL1
- Austenitic stainless steel: 1.4301, 1.4539, 1.4541, 1.4571, 1.4462
- Steel in accordance with ASTM A335, A234, A312

Test Certificates

Products with acceptance certificates in accordance with DIN EN 10204

- Factory certification 2.2
- Inspection certificate 3.1
- Inspection certificate 3.2 (TÜV, LRS, GL)



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When it comes to mechanical production, **bps** has chosen to specialize in the areas of pipe fittings and all sorts of customized construction pieces. Our product spectrum also includes all applicable norms and standards, like DIN, EN, ASME, and ASTM, used as both workplace standards and answers to customer specifications.

Fittings

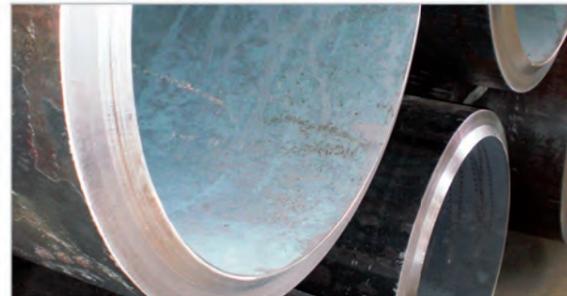
- T-pieces (block or contour-milled)
- Reducers (concentric or eccentric)
- Caps, dished/torispherical and hemispherical caps
- Transition pieces
- Elbows
- Socket weld fittings in accordance with ASME

Contracted Processing & Production

Contour-milled T-pieces

bps has developed an effective system for the production of T-pieces. Through the use of 3D modeling in our CNC-Program, **bps** is able to offer T-pieces as contour-milled pieces.

In this way, **bps** is able to separate its production methods from the typical method of production: so-called block T-pieces. For customers, that means higher quality and a significant reduction in weight from that of normal block T-pieces.

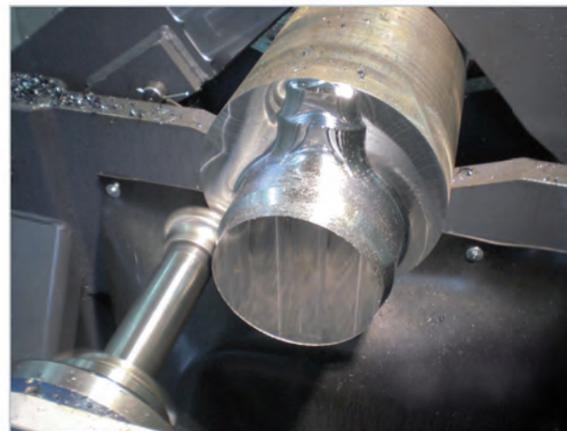


Prefabrication & Contracted Cutting

In our 5-axle processing center, **bps** deals with pipe ends as well as all sorts of pipe accessories, for example flanges, elbows, T-pieces and reducers.

Welding edge preparation/beveling of pipes and pipe pieces up to nominal diameter DN 1200 is done with on our machines with form cutters, regardless of the length or thickness of the pieces. Each cutting form can be matched to any of the applicable norms (ASME/DIN/DIN EN ISO), or customized to meet individual customer requests. Drilling and the creation of collection pipes are also part of the complete service **bps** offers.

With our two large bandsaws, **bps** can cut round bars, pipes, and shapes up to an outer diameter of 810 mm.



Flanges

- Welding-neck flanges
- Blind flanges
- Slip-on flanges
- Custom flanges
- Connection elements (Bolts & Nuts)



Cropped Necks/Nozzles

- Weld-on nozzles
- Weldolets and Sockolets in accordance with ASME
- Welding outlets
- Pipe collars, nipples
- Latrolets
- Branch saddles



Special/Custom Parts

- Measuring orifices
- Thermowells
- Custom parts by sketch
- Machine parts
- Weld seam preparation (contouring) in accordance with ASME B16.25, DIN 2559, and/or DIN EN ISO 9692-1 on pipes up to DN 1200 with thickness up to 200 mm
- Contracted cutting up to 810 mm width/diameter



bps is a trustworthy partner for the preparation and manufacture of standard and custom machine parts, as well as intelligent system solutions. From planning to construction, CNC-processing, welding, heat treatment to assembly and installation, **bps** can fulfill all your needs.

Our super-modern methods and facilities can help you complete even the most challenging of projects to the most demanding of standards. Our 3600 square meter production hall has a crane capacity of 54 tons and contains all of the required facilities, tools, and machines for state-of-the-art production in accordance with current international standards.

Our services in detail

- Basic design and stress analysis
- Detail design and technical drawing
- Construction, assembly and refinement
- Welding and heat treatment
- Internal quality control
- Testing/third party inspection
- Installation and maintenance



We **CONNECT** the things that belong together

Precise and **punctual**

Flexible and modern: **Software**

High-tech for your **demands**



bps' area of expertise also includes the worldwide prefabrication, delivery, and installation of complete piping systems and system parts, such as fittings, tanks and components:

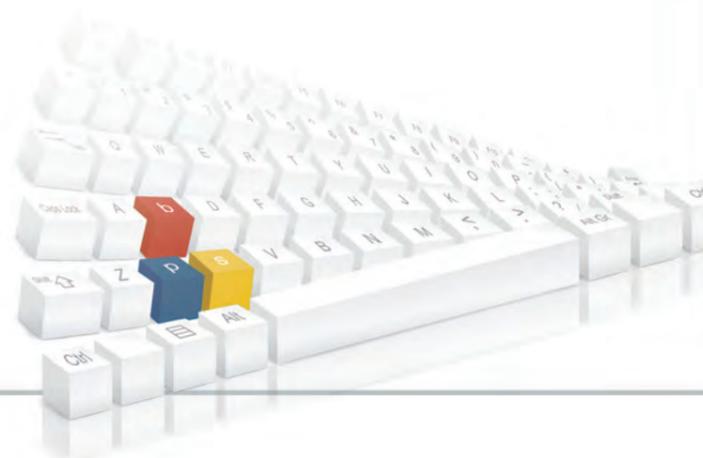
- Delivery of pipe materials and accessories, like bolts, nuts, gaskets, expansion joints, fittings and threaded joints
- Prefabrication of pipe spools, pressure vessels, pipe molds and high pressure pipe pieces
- Production of pipe supports and steelwork
- Installation of pipes and components
- Prefabrication and installation of piping in steam turbines
- Construction and piping of steam turbine packages
- Seaworthy packaging in accordance with HPE-Standard

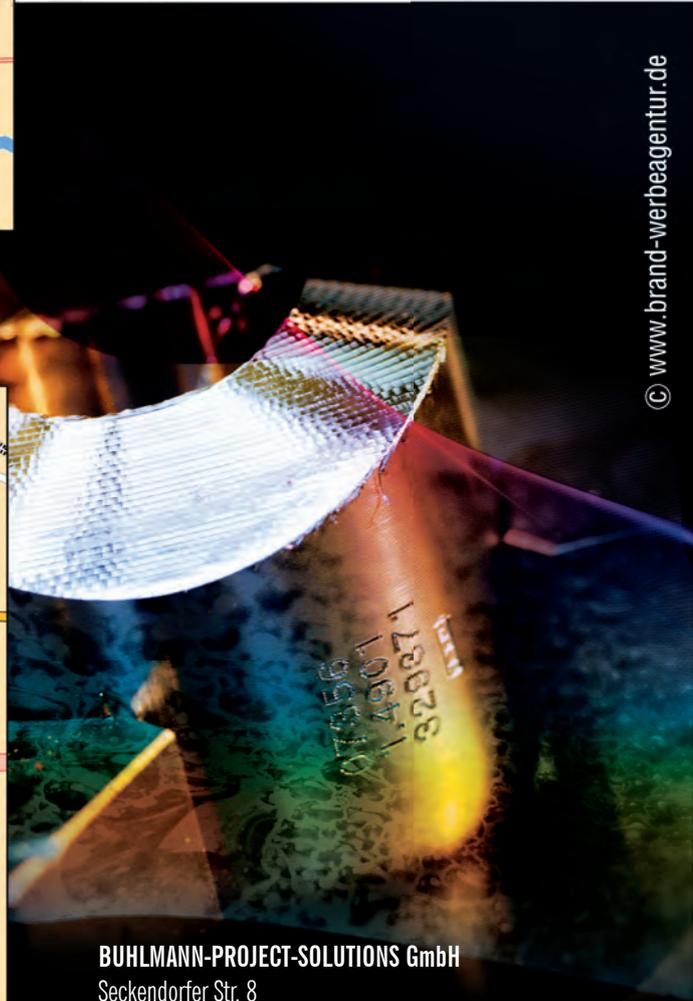
Through the use of modern CAD software, **bps** is able to meet your needs quickly in two or three dimensions. Our integrated CAD/CAM systems using SolidWorks enables construction simulations and allows for complex processing solutions to find optimal targets for cutting and lead time of tools and material elements.

The use of 3D modeling of the finished piece allows for the creation of totally customized molds, shapes and pieces of any sort.

Our ultra-modern industrial park means that we are well-equipped to meet any challenge:

Our 5-axle traveling column milling machine enables the processing of materials with a diameter of 1500 mm and a length of 12 m. Our equipment allows us to cover the areas of milling, drilling, and rotating. Control techniques depend on the job at hand and include traditional methods as well as the newest in CNC techniques.





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