

# CUSTOMIZED SOLUTIONS

Erne Fittings makes safe pipe fittings for use in the construction of power stations, oil and gas plants, and in many other demanding applications. Throughout its almost 100-year history, the company has grown to the world's leading supplier of butt-weld fittings for the approved market.

Thanks to high technological expertise in moulding as well as intensive research and efficient production processes, extraordinary solutions can be delivered. Through an in-depth understanding of the corresponding application Erne Fittings develops products together with its customers, which are just as individual as the requirements on them. But there is one thing they all have in common – customer benefit is in the foreground.

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## TEE WITH REDUCED RUN DIAMETER ON ONE SIDE AND LENGTHENED BRANCH

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- Material: 1.4571  
Dimension: Run 114,3 x 3,2 mm – 88,9 x 3,2 mm and branch 76,1 x 2,9 mm  
Features: Two weld seams can be spared through the use of the extended branch with an angled cut and the reduced run pipe diameter on one side. This dramatically reduces the amount of work required during welding. The welds can be performed by a welding robot.  
Application: Pipe system for fire trucks

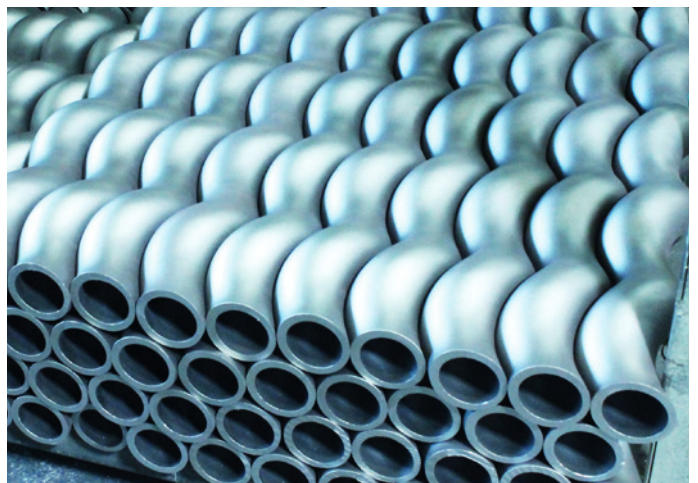


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## ROTORS FOR ECCENTRIC SCREW PUMPS

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- Material: 16MnCr5  
Dimension: DN80 – DN145  
Features: As a result of hot forming the rotors using our Hamburger bending process, we are able to achieve significantly higher tensile strength than with typical cold forming processes. The choice of material also plays a role in greatly improving strength for the customer.  
Application: These types of positive displacement pumps are used in both the food and hygiene industries. They are also used in the processing of biomass.

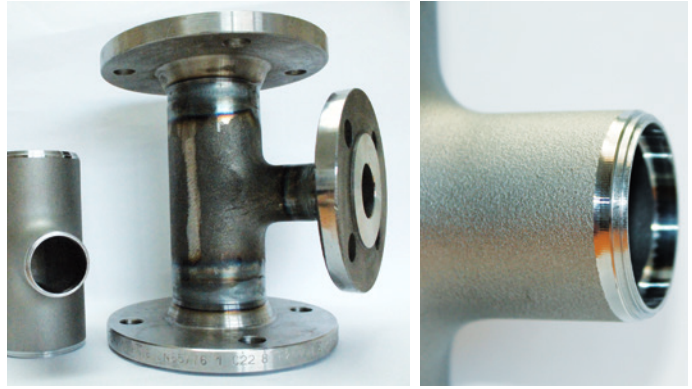


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### SPECIAL TEE WITH LENGTHENED BRANCH AND EASY TO FIT BEVEL

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**Material:** P235GH  
**Dimension:** Run 114.3 mm – branch 76.1 mm  
**Features:** Due to the extended branch, the work-intensive process of welding on an extra length of pipe can be spared. Additionally, through the use of the easy to fit bevel, fittings and flanges can be joined together and welded directly without the need for any extra alignment work.  
**Application:** Bypass for pumping systems



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### CONNECTING NIPPLE WITH EASY TO FIT BEVEL

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**Material:** F91  
**Dimension:** 38.0 x 4.0 mm  
**Features:** Due to the fact that that connection between the nipple and pipe loop contains a buffer layer comprised of the material EPRI 87 approximately 5 mm thick, the weldability of the 304H pipe loop is very good. This also makes the use of an orbital welding head for fully automatic welding possible.  
**Application:** Solar power plant (superheater)



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### 90° ELBOW WITH MAXIMUM ADDITIONAL TANGENT AND EASY TO FIT BEVEL

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**Material:** UNS S31803 / S32205  
**Dimension:** 60.32 x 3.91 mm / 114.30 x 8.56 mm  
**Features:** 2" elbow: Two sided additional tangent.  
Tangent on one side = max. 45 mm,  
Tangent on other side = max. 30 mm.  
4" elbow: Two sided additional tangent.  
Tangent on one side = max. 95 mm,  
Tangent on other side = max. 85 mm.  
**Application:** Primary circuit of nuclear power stations, Offshore



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### WELD END PREPARATION EASY TO FIT

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The stepped design of the weld end preparation enables automatic alignment between the fitting and the tube. Adjusting work, which had previously been required, is thus eliminated. Costs throughout the supply chain can be minimized considerably.

