

Questionnaire for suppliers - appendix for apparatus manufacturers

company: _____

address: _____

filled in by: _____ date: _____

function: _____

phone: _____

e-mail: _____

fax: _____

scope of business (mark with a cross)

- | | |
|---|---|
| <input type="checkbox"/> pressure apparatus manufacturing | <input type="checkbox"/> process engineering / dimensioning |
| <input type="checkbox"/> vessel manufacturing | <input type="checkbox"/> engineering services |
| <input type="checkbox"/> special designs | <input type="checkbox"/> on-site assembly |
| <input type="checkbox"/> steel and piping manufacturing | <input type="checkbox"/> plant engineering |
| <input type="checkbox"/> machine manufacturing | <input type="checkbox"/> mechanical processing |
| <input type="checkbox"/> own products | <input type="checkbox"/> contract manufacturing |
| <input type="checkbox"/> others: _____ | |



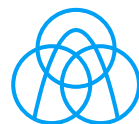
Questionnaire for suppliers - appendix for apparatus manufactures

already produced types of apparatuses

- | | |
|--|---|
| <input type="checkbox"/> pressure apparatuses | <input type="checkbox"/> scrubbers |
| <input type="checkbox"/> vessels | <input type="checkbox"/> droplet separators |
| <input type="checkbox"/> special apparatuses | <input type="checkbox"/> tanks with on-site assembly |
| <input type="checkbox"/> columns | <input type="checkbox"/> tanks without on-site assembly |
| <input type="checkbox"/> dryers | <input type="checkbox"/> tube bundle heat exchangers |
| <input type="checkbox"/> filters | <input type="checkbox"/> plate heat exchangers |
| <input type="checkbox"/> agitator vessels | <input type="checkbox"/> spiral tube heat exchangers |
| <input type="checkbox"/> agitators / impellers | <input type="checkbox"/> finned tube heat exchangers |
| <input type="checkbox"/> reactors | <input type="checkbox"/> air coolers |
| <input type="checkbox"/> others: | |
-

manufacturing dimensions

length	min.	mm	-	max.	mm
diameter	min.	mm	-	max.	mm
wall thickness	min.	mm	-	max.	mm
weight	min.	t	-	max.	t
hook clearance	max.	m			
hook capacity:	max.	t			
number of hooks:		pc.			



applied materials

steels

- non or less alloyed steels
- high-temperature CrMo - steels
- cryogenic Ni-alloyed steels
- grain refined constr. steels
- ferritic Cr - steels
- austenitic CrNi – steels
- duplex - steels
- clad steels
- special steels
- _____
- _____

special metals

- nickel
- nickel – based alloys
- aluminum / -alloys
- copper
- copper – nickel – alloys
- titanium
- zirconium
- tantalum
- precious metals
- _____
- _____

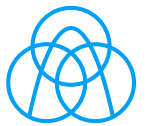
special materials

- plastics
- glas
- rubber
- enamel
- graphite
- ceramic
- coating
- _____
- _____



equipment

machine	max. dimensions of workpieces [mm]	number of machines
welding:		
<input type="checkbox"/> Autogenous / OFW		
<input type="checkbox"/> manual arc / SMAW		
<input type="checkbox"/> TIG / GTAW		
<input type="checkbox"/> MIG / MAG / Cy MAW		
<input type="checkbox"/> submerged / SAW		
<input type="checkbox"/> Plasma / PAW		
<input type="checkbox"/> Resistance / RW		
<input type="checkbox"/> circular welding machine		
<input type="checkbox"/> tube welding machine		
<input type="checkbox"/> carousel machine		
<input type="checkbox"/> horizontal drilling machine		
<input type="checkbox"/> deep hole drilling machine		
<input type="checkbox"/> trying plane bench		
<input type="checkbox"/> plate edge planing bench		
<input type="checkbox"/> press		
<input type="checkbox"/> circular plate roll		
<input type="checkbox"/> band saw		
<input type="checkbox"/> tube bending machine		
<input type="checkbox"/> profil bending machine		
<input type="checkbox"/> flanging machine		
<input type="checkbox"/> tube rolling		
<input type="checkbox"/> drilling		
<input type="checkbox"/> conventional lathe		
<input type="checkbox"/> CNC lathe		
<input type="checkbox"/> round outside grinding		
<input type="checkbox"/> round inside grinding		
<input type="checkbox"/> honing		
<input type="checkbox"/> broaching / planing		
<input type="checkbox"/> conventional mill		
<input type="checkbox"/> CNC mill		
<input type="checkbox"/> bending press		
<input type="checkbox"/> sheet metal bender		
<input type="checkbox"/> plasma cutting machine		
<input type="checkbox"/> laser cutting machine		
<input type="checkbox"/> Water jet cutting machine		
<input type="checkbox"/> eroding machine		
<input type="checkbox"/> others		



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heat treatment

- | | |
|---|--------------------------------------|
| <input type="checkbox"/> inductive furnace | <input type="checkbox"/> gas furnace |
| <input type="checkbox"/> resistance furnace | <input type="checkbox"/> Oil furnace |

dimensions of the furnace	wide	_____	mm
	high	_____	mm
	length	_____	mm

surface treatment

- | | | |
|---|------------------------------------|---|
| <input type="checkbox"/> pickling / passivating | <input type="checkbox"/> blasting | <input type="checkbox"/> electrolytic polishing |
| <input type="checkbox"/> lapping | <input type="checkbox"/> hardening | <input type="checkbox"/> polishing |
| <input type="checkbox"/> others | _____ | |

workpiece testing

- | | | |
|--|--|------------------------------------|
| <input type="checkbox"/> surface treatment | <input type="checkbox"/> rubberizing | <input type="checkbox"/> coating |
| <input type="checkbox"/> plasma spraying | <input type="checkbox"/> galvanizing | <input type="checkbox"/> nitriding |
| <input type="checkbox"/> enameling | <input type="checkbox"/> hot-dip galvanizing | <input type="checkbox"/> tinning |
| <input type="checkbox"/> others | _____ | |

workpiece testing

material testing

machine testing

- | | | |
|--|---|--|
| <input type="checkbox"/> x-ray test | <input type="checkbox"/> hardness measuring | <input type="checkbox"/> balancing, dyn. |
| <input type="checkbox"/> dye penetration test | <input type="checkbox"/> spectroscopy | <input type="checkbox"/> balancing, stat. |
| <input type="checkbox"/> ultrasonic test | <input type="checkbox"/> tension test | <input type="checkbox"/> mech. test run |
| <input type="checkbox"/> helium – leakage test | <input type="checkbox"/> surface roughness | <input type="checkbox"/> performance test
kW_____ |
| <input type="checkbox"/> bubble formation test | <input type="checkbox"/> others | <input type="checkbox"/> acoustic measuring |
| <input type="checkbox"/> others | _____ | <input type="checkbox"/> vibration measuring |
| _____ | | <input type="checkbox"/> others |

- static pressure test**



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accreditations

- | | | |
|-----------------------------------|--|--|
| <input type="checkbox"/> HP 0 | <input type="checkbox"/> ASME U-Stamp | <input type="checkbox"/> EAC |
| <input type="checkbox"/> EN 1090 | <input type="checkbox"/> SVTI | <input type="checkbox"/> ASME U2-Stamp |
| <input type="checkbox"/> § 19 WHG | <input type="checkbox"/> China Quality License | <input type="checkbox"/> _____ |

calculations

- | | |
|--|--|
| <input type="checkbox"/> process engineering calculation | <input type="checkbox"/> strength calculation |
| <input type="checkbox"/> thermotechnical calculation | <input type="checkbox"/> nozzle load calculation |
| <input type="checkbox"/> _____ | <input type="checkbox"/> pipeline stress calculation |

static calculations

- | | | |
|------------------------------|-------------------------------|-------------------------------------|
| <input type="checkbox"/> TRB | <input type="checkbox"/> TEMA | <input type="checkbox"/> Stoomwezen |
| <input type="checkbox"/> AD | <input type="checkbox"/> FEM | <input type="checkbox"/> GB 150 |
| <input type="checkbox"/> BS | <input type="checkbox"/> ASME | <input type="checkbox"/> EN 13445 |

place, date, signature:

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