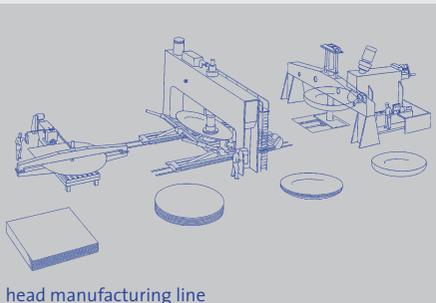


## Head Manufacturing Lines

smt - Head manufacturing lines for precise production of tank and vessel heads.

Wherever cylindric vessels and tanks made of metal must be closed, tank heads are required. The fields of application are various, whether in the food industry or in general in transportation and logistics. Solid, liquid or gaseous material is stored in there.

The requirements for the tanks and the tank heads, respectively, are of most different kinds. They must be light and / or corrosion-resistant and / or pressure-proof.



head manufacturing line

Tank heads with most different diameters and wall thicknesses, in different shapes, made of different materials can be manufactured most efficiently in three generally accepted production processes, see pic on the left:

- 1. Step:  
Cutting out a round from a steel plate with the help of a **circular shears** or a burning system.
- 2. Step:  
Step-by-step, partial forming (dishing) of the round to form a dished disk, on a hydraulic **dishing unit**, consisting of a press with manipulator.
- 3. Step:  
Bending (flanging) the edge of the dished disk to guarantee that there is no clear-cut to the cylindric tank, on a **flanging machine**.

We are the pioneers for these production procedures and have been dealing with the improvement of the production lines and processes for decades:

- increase of the repetitive accuracy
- decrease of production times
- reduction of personnel costs
- reduction of production material costs

- increase of production quality
- automation of production
- conversion of operator know-how into control know-how of the machine

As outstanding characteristics of our machines only two examples are highlighted here:

**PLAYBACK-Control** for the dishing units. Automatic setting to a new round diameter in less than 3 minutes.

**Electronic Gap Control** for the flanging machine. Automatic and material-friendly running along the forming roll contour with a specified distance to the pressure roll.

Apart from using the latest controls you can rely on the familiar Schleifstein-quality. We also guarantee the well-known longevity and high availability of Schleifstein-machines by our worldwide service.

Specify your application to us and we will find an appropriate solution together with you.

## Technical Data



600 t PLAYBACK-Dishing Unit

### Dishing Units

- efficient dishing of rounds and segments, consisting of dishing press and manipulator
- in various sizes and designs according to your application

Pressing force	2000 kN – 16000 kN
Diameter range	500 mm – 10000 mm
Sheet thickness range	2 – 130 mm cold
Material	boiler plates, grain refined steel, stainless steel, aluminium, other nonferrous metals
Control	Siemens S7 / <b>Schleifstein-Automatic Dishing Mode</b>
Hydraulics	Bosch-Rexroth
Features	optional working speeds and short production times with very high repetitive accuracy with only little personnel required.
Options	PLAYBACK-Control with automatic setting
Accessories	dishing dies



Flanging Machine

### Flanging Machines

- material-friendly and economic flanging without center hole
- in various sizes and designs according to your application

Diameter range	500 mm – 10000 mm
Sheet thickness range	2 – 50 mm cold
Material	boiler plates, grain refined steel, stainless steel, aluminium, other nonferrous metals
Control	Siemens S7 / <b>Schleifstein-Electronic Gap Control</b>
Hydraulics	Bosch-Rexroth
Features	<ul style="list-style-type: none"> <li>• electronic gap control</li> <li>• controllable forming roll drive</li> <li>• hydraulic displacement drive</li> <li>• clamping device without hole</li> <li>• powerful, accurate and material-friendly deforming for very thick and very thin material</li> </ul>
Options	<ul style="list-style-type: none"> <li>• automatic charging</li> <li>• PLAYBACK-Control</li> <li>• laser measuring device</li> <li>• additional pressure rolls</li> <li>• auxiliary drive for pressure roll</li> </ul>
Accessories	dishing dies



Circular Shears

### Circular Shears

- for rapid cutting of rounds from square and octagonal plates
- in various sizes and designs according to your application

Design	closed clamping bow or "C"-shape clamping bow
Diameter range	500 – 5000 mm
Sheet thickness range	8 – 20 mm cold
Material	boiler plate, stainless steel, aluminium, other nonferrous metals
Control	Siemens S7
Features	hydraulic upper blade adjustment
Options	automatic charging
Accessories	spare blades