



▶ **Manufacturing
facilities**
at the Hanover plant

Körting

THE EJECTOR COMPANY

Top quality
in-house manufacturing

Based on engineering expertise and
experience since 1871

The company

IN-HOUSE MANUFACTURING AT THE HANNOVER PLANT

By combining profound engineering expertise and extensive experience with in-house manufacturing, Körting Hannover GmbH delivers uncompromising quality. A strong customer focus and cutting-edge manufacturing technologies result in top-tier products or pressure equipment. The company has DIN EN ISO 9001 certification. In addition to other international approvals, it has HP0/DIN EN ISO 3834-2 certification from TÜV NORD for manufacturing pressure tanks.

The company concentrates on core skills to achieve a high level of quality. We invest consistently in personnel upskilling programmes, which result in state-of-the-art production processes that are pivotal to the excellence of Körting products. Our manufacturing and development departments work hand in hand to ensure outstanding quality and reliability. Our quality management system constantly monitors and optimises processes across all departments. Rooted in our core philosophy, our certification validates this dedication and the high standards we uphold throughout the company.

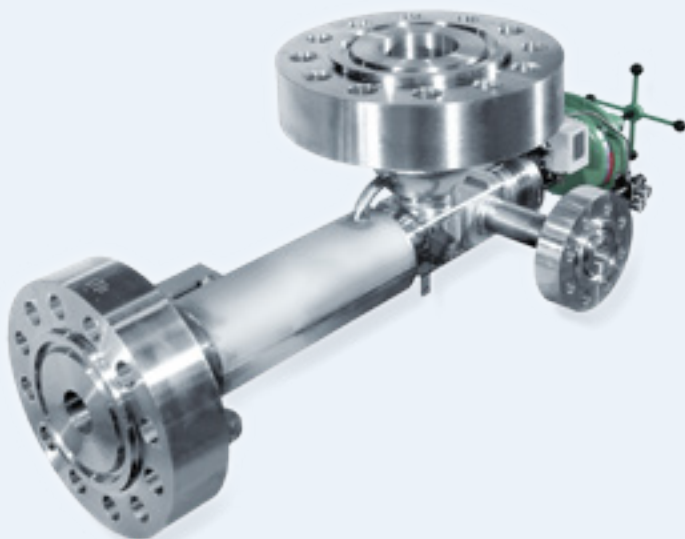
Certificates and approvals (a selection):

- TTÜV-Cert DIN EN ISO 9001
- AD 2000 HP0/DIN EN ISO 3834-2
- PED 2014/68/EU
- ASME Certification Mark
- Manufacture License of Special Equipment People's Republic of China



You can find these and lots more certificates here.

HP ejector made of highly corrosion-resistant duplex steel destined for UREA production equipment



Two-stage steam-jet vacuum system with surface condensers made of graphite and Hastelloy



MANUFACTURING FACILITIES

Due to our in-depth expertise, we can also offer contract manufacturing. This brochure outlines the manufacturing facilities at the Hannover plant.

LOCATION

Körting Hannover GmbH's headquarters are at Badenstedter Strasse 56 in 30453 Hannover, Germany.



Contact

Operations and manufacturing management
manufacturing@koerting.de
 +49 511 2129-465



Directions

Google Maps shows the quickest way to reach us.

WHAT WE OFFER:

- ✓ Mechanical processing
- ✓ CNC oxy-fuel cutting
- ✓ Sheet metal forming/rolling
- ✓ Welding/stainless steel pickling
- ✓ Non-destructive testing/pressure testing
- ✓ Surface treatment



FACILITY CAPACITIES

If required, all finished products can be stored in our warehouse, which is 3,500 m² in size.

Floorspace (m ²)	Door dimensions (m)	Cran capacities (t)	Hook height (m)	
Equipment pre-assembly	2 500	4 × 4	20	6.5
Mechanical fabrication	3 500	4 × 4	5	5
Equipment final assembly and shipping	7 000	3 × 4	5	4

LOADING OPTIONS

We arrange product shipping through freight forwarding partners via road, sea, or air.

Type	Max. component sizes (m)	Lifting capacity (t)
Gantry crane	3.5 × 4 × 20	20



Mechanical processing

MACHINING

Using various CNC machines, we process ferrous and non-ferrous alloys along with diverse plastics by turning, milling, and drilling. The 5-axis CNC turning centres are designed for all-in-one machining. All-in-one machining of welded assemblies is also possible on a vertical turret lathe and boring mill. We also use further drilling and milling centres and cycle-controlled machining tools.



**Multipurpose milling and turning centre
DMG – DMU 125 FD**

	(mm)
X-axis	1 250
Y-axis	1 000
Z-axis	1 000
Turning diameter outside clamp	max. 1 300
Turning diameter inside clamp	max. 1 300



**Various CNC
turning centres**

**max. workpiece
dimensions** (mm)

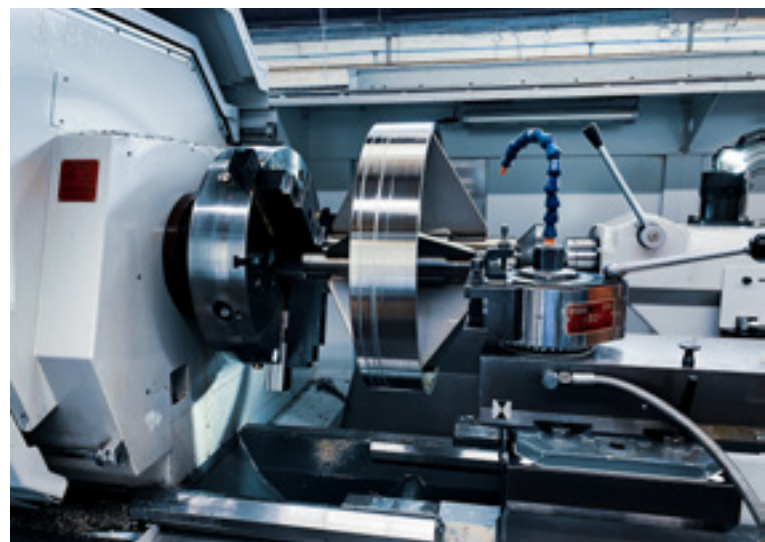
Mazak Integrex Mori DMG e500 HII	Turning diameter 800 max. Turning length 3 000 max.
Okuma Multus B400 - C2000 B400II - W1500 LU3000-M25C DMG MORI CTX beta 2000	Turning diameter 630 max. Turning length 2 000 max.



Various cycle-controlled lathes

(mm)

e.g. Weiler E130	Turning diameter 1300 max. Turning length 4 500 max. Bezel diameter 600 max.
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PLASMA AND OXY-FUEL CUTTING

The CNC-driven oxy-fuel cutting machine combined with a nesting program allows precise positioning of parts and a significant reduction in material waste.

Cutting method

Oxy-fuel cutting of up to 100 mm sheet thickness

Plasma with swirl gas technology

- ESAB iSeries 600i sheets up to 50 mm thick
- ESAB DMX bevelling system

Plasma gases: Air, O₂, Ar/H₂, N₂

O₂ = oxygen
 Ar = argon
 H₂ = hydrogen
 N₂ = nitrogen

Cutting range

Width 3 000 mm

Length 6 000 mm



SADDLE HOLE CUTTING MACHINE

The PLC-controlled pipe cutting machine stands for maximum precision and efficiency in pipe cutting and profiling. Thanks to the circular cutting method, it enables neat, fully automated cuts across a wide range of diameters.

Type SCM 630

Max. Swing Ø	630 mm
Max. Hollow spindle Ø	540 mm
Min. Workpiece Ø	76 mm
Max. Workpiece Ø	630 mm
Max. Cutting length	3 000 mm
Max. bevel cut	+ - 45°

Possible cutting shapes

Nozzle contour	Set-on and set-in
Nozzle contour	On elbow
Offset contours	Set-on and set-in
Bevel cut	0° to 90° branch connections
Intersections	Mit bevel and/or elliptical cuts

SHEET METAL FORMING

Using presses and bending machines, we can manufacture cylinders (e.g. vessel shells) and cones with various taper ratios.

Sheet metal folding machine Sheet size: 1 500 mm max. · Sheet thickness: 3 mm max.

Hydraulic presses Press force: 200 t

3-roll plate bending machines with replaceable cylindrical and tapered top roll Shell size:
 where L_{max} = 2 500 mm with ID > Ø 2 000 mm → t = 50 mm thick
 where L_{max} = 2 500 mm with ID > Ø 440 mm → t = 32 mm thick
 where L_{max} = 3 000 mm with ID > Ø 385 mm → t = 12 mm thick
 where L_{max} = 1 000 mm with ID > Ø 385 mm → t = 16 mm thick



Welding

Körting Hannover GmbH's team consists of qualified and experienced welders, welding engineers, welding technicians, and welding foremen. Numerous certified welding procedures are in place for an extensive array of materials.

HPO and DIN EN ISO 3834-2 certification mean that Körting Hannover GmbH is qualified to manufacture pressure vessels and perform all required in-house inspections.

Welding methods

Welding machines (UP)

MMA

MAG

TIG and TIG hot wire

TIG cold wire mechanised

Hot gas extrusion welding/butt welding
→ for polypropylene (PP)



Non-destructive testing

Our qualified staff (up to Level 3) conducts radiographic inspections per DIN EN ISO 17636-1 and ASME Section V + VIII on all weld seams. Körting's inspection department evaluates all manufactured products in accordance with guidelines and specifications using the processes listed below. It works closely with TÜV NORD and other service providers in the process.

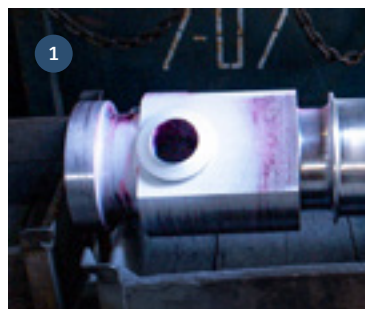
Inspection methods

1) Dye penetrant method

2) Radiographic testing with X-ray tube or isotope

3) Ultrasonic method

4) Hydrostatic testing up to 1 000 bar



Surface treatment

PICKLING

To ensure corrosion resistance, the welded stainless steel assemblies are pickled and passivated.

Immersion pickling is performed in a solution of sulphuric acid and hydrofluoric acid. Depending on the material, it takes 30 to 60 minutes to pickle it at room temperature.

Pickling tank	(mm)
Length	4 000
Width	1 800
Height	1 600
Average filling level	800

Composition

15% vol. HNO ₃	
5% vol. HF	(rest H ₂ O)

BLASTING

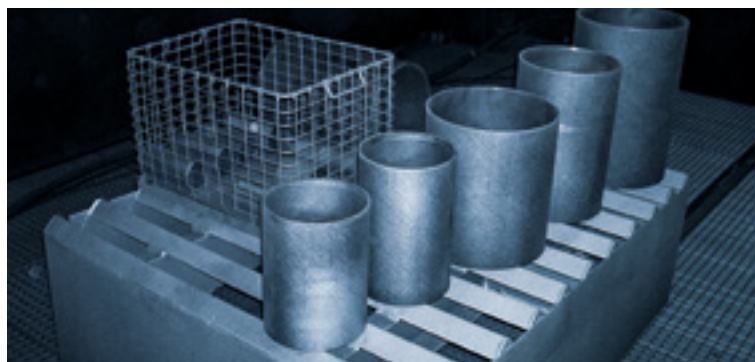
Workpieces are blasted with aluminium oxide or glass beads in the blasting machine. This process is for pre-treatment prior to further coating (e.g., spray painting) or as a final surface treatment for stainless steel parts.

Blasting machine	(mm)
Length	8 900
Width	2 800
Height	2 500

PAINTING

Manual and spray painting, anti-corrosion priming, and top coating in compliance with the required dry film thicknesses.

Paint shop	(mm)
Length	6 000
Width	4 000
Door W × H	2 450 × 2 980





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