



# Bending Pipes

**HANSA FLEX**



***Bending pipe***  
**硬管总成**





## Pipe Bending Centre Introduction

### 弯管中心介绍

#### INTRODUCTION

As a system partner, HANSA-FLEX offers its customers design and production of bent pipes of all kinds – quickly, collaboratively, and to absolute precision.

Fluid systems are inconceivable without bent pipes. They are essential especially where complex engineering needs to be housed in tight spaces. In view of that fact, HANSA-FLEX has established a dedicated pipe bending centre which customers can call upon through any of the company's branches. In China, we have set up the tube bending center in Shanghai headquarter.

The centre focuses on the production of precision pipes for small and medium-sized industrial concerns, from a wide variety of materials and featuring all commonly used connection techniques – and of course all in tried and proven HANSA-FLEX quality.

Specialist staff can also be called upon at short notice to provide customers with on-site advice and support. Services include the production of 3D views and computer-aided feasibility studies. Pipes are produced individually or mass-produced according to prototype or drawing. This includes just-in-time delivery to the assembly location. Whether as original equipment or replacement parts: it's a full-service package customers know they can rely on.

#### 简介

HANSA-FLEX 作为系统供应商，我们也为客户提供各种管路设计和生产，以快速合作以及高精度满足客户的要求。

对于流体系统来说，没有弯管是难以想象的，尤其是在复杂工程中，系统需要安置在狭小空间，弯管是非常重要的。因此 HANSA-FLEX 成立了一个专门的弯管中心，客户可以通过我们在全球的任何一个分支机构定制弯管管路。在中国，我们的弯管中心设立在上海总部。

弯管中心专注于加工中小型的精密管，从各种各样的材料，到各种常用的管路连接技术，当然这些都符合 HANSA-FLEX 一贯的高质量要求。

HANSA-FLEX 的专业团队可以为客户提供现场咨询和支持服务，包括 3D 视图和计算机辅助的可行性研究。我们可以根据样机或者图纸进行单件或者批量生产。无论是作为原始设备或替换备件，HANSA-FLEX 都能根据需求准时交货，客户完全可以信赖我们的全方位服务。





# HANSA-FLEX Advantages

## 汉萨优势

### HANSA-FLEX ADVANTAGES

#### The centre – specialists with hydraulics know-how

At the pipe bending centre, specialist partners provide HANSA-FLEX branches with technical back-up based on their extensive know-how in fluid technology. This is a key resource in delivering professional advice to specify pipes and providing collaborative support all the way through to the manufacture of single items or mass production runs.

#### Ultimate precision – production by mandrel

Computer-controlled bending machines produce pipes in lengths up to 6,000 mm in just seconds, in black and galvanized hydraulic piping, stainless steel, and other materials. The pipes are bent using a mandrel, so as to prevent narrowing of their cross-section and to safeguard laminar operation of the subsequent fluid system. The extreme manufacturing accuracy meets the highest precision demands over the full length. The bending process is continually computer-monitored and automatically readjusts the bending angle. This ensures absolute dimensional accuracy even with large batches.

#### Customized

Prefabricated piping consisting of piping and components are delivered to customers ready to be installed. The precise dimensioning and fabrication of the pipes, which include even pre-engineered supports and hydraulic hoses, ensure high quality as well as fast and easy installation.

## 汉萨的优势

### 弯管中心——精通液压知识的专家

德国弯管中心的专家们在流体技术方面具有丰富的经验，他们为 HANSA-FLEX 全球分支机构提供技术支持，这是我们的宝贵资源。不论是单批样品或批量生产，我们的专家都能从管路设计提出专业化建议，到提供全程协作支持。

### 极致精准——芯轴配合弯制

HANSA-FLEX 采用的弯管机都是由计算机控制 (CNC) 的，可以在短短数秒内弯制长度达 6 米的钢管，加工管材包括磷化管、镀锌管、不锈钢等其他材质。为了保护薄壁管防止弯曲变形和保护流体的层流，弯管时可采用芯棒。这种极端精确的加工可以满足整个管路的高精度要求。所有的弯管过程都由计算机全程监控，并自动调节弯管角度，即使是大批量生产时，也能保证同样的尺寸精度。

### 定制化——满足客户特殊需求

除了弯管，HANSA-FLEX 还提供卡套预安装、挤压式连接、焊接等管路连接方式，同时，除了硬管管路连接，我们还提供软管管路连接，因此我们可以为您提供一站式解决方案。



全自动弯管机



测量



弯管过程

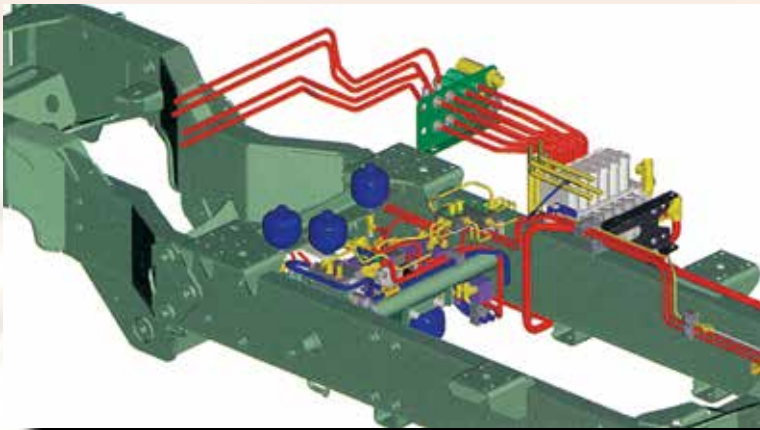


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## Products and Services

### 产品和服务

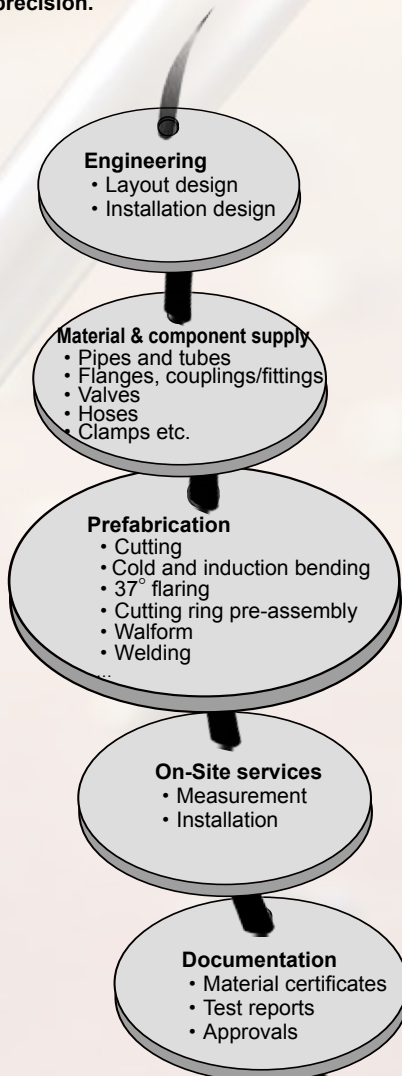


As a system partner, **HANSA-FLEX** also offers its customers design and production of bent pipes of all kinds – quickly, collaboratively, and to absolute precision.

**HANSA-FLEX** 作为系统合作者，从定制设计，弯管成型，到快速提供备件，现场服务和其他认证，为客户提供系统的解决方案



Bending pipes



#### Engineering

- Layout design
- Installation design

#### Material & component supply

- Pipes and tubes
- Flanges, couplings/fittings
- Valves
- Hoses
- Clamps etc.

#### Prefabrication

- Cutting
- Cold and induction bending
- 37° flaring
- Cutting ring pre-assembly
- Walform
- Welding
- ...

#### On-Site services

- Measurement
- Installation

#### Documentation

- Material certificates
- Test reports
- Approvals

## Solution

#### Tube end technical

- Cutting ring
- Triple-Lok 37°
- Walform
- Welding
- Non-standard parts

#### 工程设计

- 管路布置
- 安装设计

#### 材料 & 零件供应

- 管路连接件
- 法兰，快速接头
- 球阀、单向阀等
- 软管总成
- 管夹等

#### 工厂预制

- 切割
- 冷变形弯管
- 37° 扩口
- 卡套预安装
- 挤压式安装
- 焊接
- .....

#### 现场服务

- 测量
- 安装

#### 认证证书

- 材料合格证
- 测试报告
- 各类证书

#### 管端连接方式包括：

- 卡套预安装
- 37° 扩口
- 挤压式
- 焊接
- 非标件



# EXPERIENCE

## 我们的经验

### Industry Segments

- Marine
- Off-shore
- Aerospace and Defence
- Automotive
- Construction and Mobile Equipment
- Metals & Mining
- Plastics and Rubber
- Recycling
- Wood & Forestry
- Pulp & Paper
- Power
- Sugar, Testing, Chemicals etc.

### Construction & Mobile Equipment Industry

Harbour cranes, excavators, wheel loaders, fork lifts, tilt trucks etc.

#### Our Customer

John Deere ,Volvo,LIEBHERR,TEREX,TRUMPF,HIAB,PUTZMEISTER

### 工程机械行业

港口吊机, 挖掘机, 装载机, 叉车, 卡车等

#### 我们的客户

John Deere,Volvo,LIEBHERR,TEREX,TRUMPF,HIAB,PUTZMEISTER



### Automotive Industry

Car factory test equipment, production lines, tools, paste and paint lines, stamping presses etc.

#### Our Customer

MTS, IST, MAHA, FAGOR, SCHULER

### 汽车行业

汽车测试设备, 生产线, 工具, 喷漆线, 冲压机等

#### 我们的客户

MTS, IST, MAHA, FAGOR, SCHULER



### Metals & Mining Industry

Aluminium extrusion presses, forging presses, milling lines, coating lines, drive systems for crushers and, feeders, goods transport & loading equipment etc.

### 冶金采矿业

铝压机, 锻压机, 筛分设备, 涂装线, 破碎机、给料机的驱动系统, 运输和装载设备等



### 各个行业

- 船舶海事
- 海上设备
- 宇航、军工
- 汽车业
- 工程机械
- 冶金和采矿
- 塑料和橡胶机械
- 环保回收行业
- 林业机械
- 造纸行业
- 能源行业
- 制糖, 测试台, 化工

### Marine & Off-shore Industry

Winches, Steering gear, Cranes, Drilling equipment, Dredger equipment, Deep well pump, all kinds of high-pressure piping for hydraulic driven systems and piping systems with high technical requirements.

#### Our Customer

TTS, NORSAFE, Macgregor, ODIM, NMF

### 船舶海事行业

卷扬机, 舵机, 吊机, 钻井设备, 挖泥机, 深井泵, 以及各种液压驱动系统的高压管路, 应用要求高的管路系统。

#### 我们的客户

TTS, NORSAFE, Macgregor, ODIM, NMF



### Pulp & Paper industry

Pulpers, screens paper machines etc.

#### Our Customer

Metso Paper, Andritz, Kvaerner, UPM-Kymmene

### 造纸行业

碎浆机, 压力筛等

#### 我们的客户

Metso Paper, Andritz, Kvaerner, UPM-Kymmene





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