



# ThyssenKrupp System Engineering

Drauz Nothelfer | Krause | EGM



A company of  
ThyssenKrupp  
Technologies

**ThyssenKrupp System Engineering (Shanghai) Co., Ltd.**



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# ThyssenKrupp: Focused Industrial Group With Three Pillars

**ThyssenKrupp**  
Employees: 195,826

**Steel**



Employees:  
40,480

**Stainless**



Employees:  
12,100

**Technologies**



Employees:  
54,260

**Elevator**



Employees:  
41,230

**Services**



Employees:  
45,440

**Steel**

**Capital Goods**

**Services**

Employees: 30. Sep. 2008; rounded

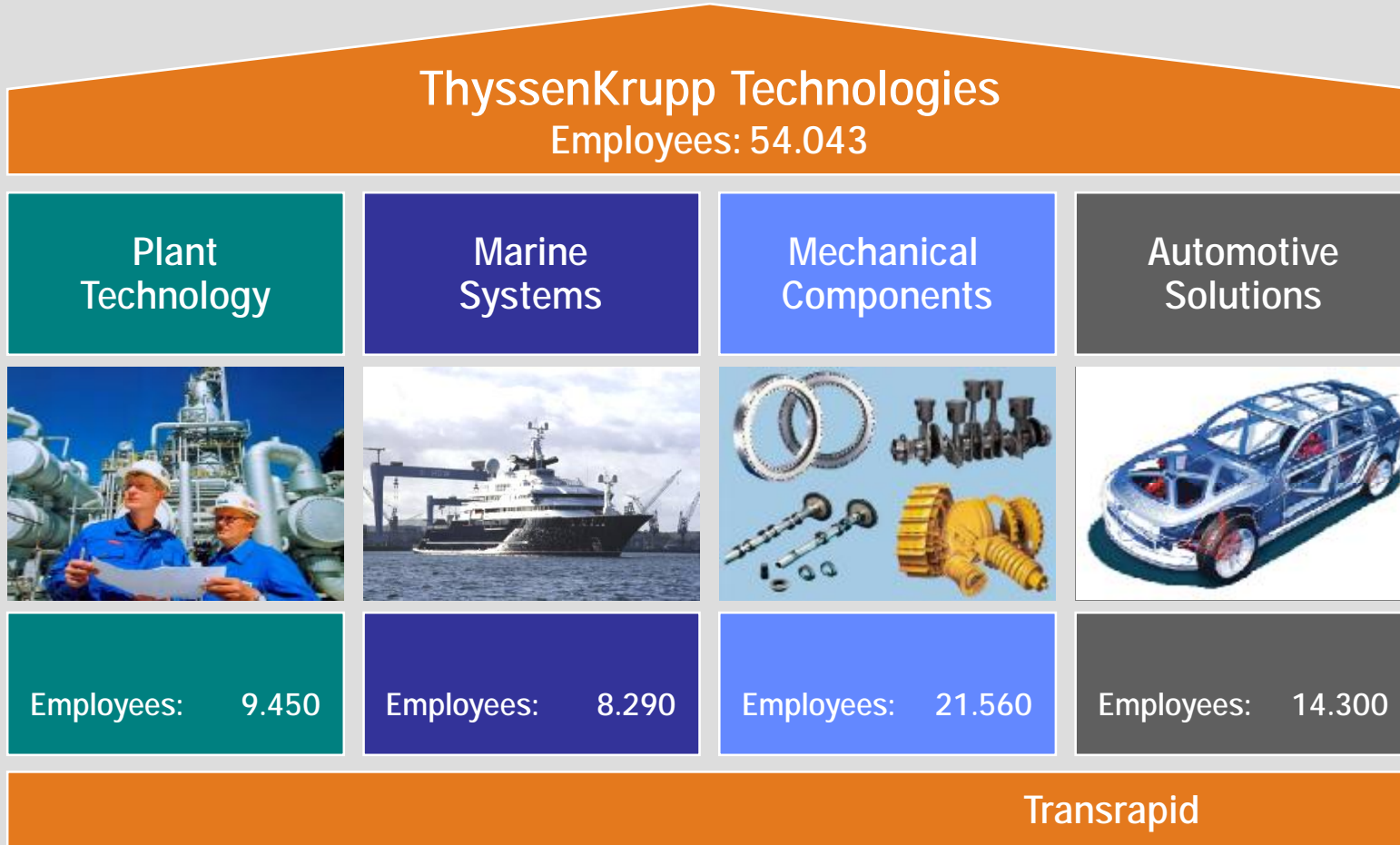
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# ThyssenKrupp Technologies - Overview



Employees: 30. Sep. 2008; rounded

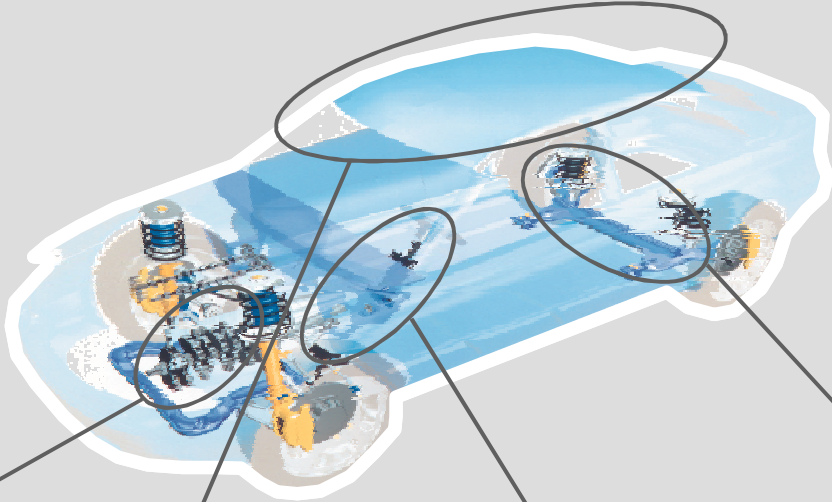
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# Automotive Solutions: Innovative Systems



## ThyssenKrupp System Engineering

**Krause**  
 Assembly/test systems  
 for engines, trans-  
 missions, axles

**Drauz Nothelfer**  
 System partner  
 body solutions, dies,  
 body-in-white, assembly,  
 production

**Presta Steering**  
 Steering columns, gears  
 and systems (EPAS, HPS)

**Bilstein Suspension**  
 Air suspension systems,  
 dampers, springs, stabilizers

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# ThyssenKrupp System Engineering - Organization

<b>ThyssenKrupp System Engineering</b>		
Bernd Becker (CEO)	Dr. Joachim Haats (CSO)	Dr. Johannes Dippel (CFO)



Krause / EGM <b>Testing Solutions</b> Peter Kohlwig	Krause <b>Assembly Systems</b> Dr. Joachim Haats	Drauz Nothelfer <b>Body-in-White</b> Josef G3rgen	Drauz Nothelfer <b>Forming Dies</b> Josef G3rgen	Drauz Nothelfer <b>Part Production</b> Bernd Becker
				
<ul style="list-style-type: none"> <li>• Engine testing</li> <li>• Transmission testing</li> <li>• Axle testing</li> <li>• Measuring machines</li> </ul>	<ul style="list-style-type: none"> <li>• Engine assembly</li> <li>• Transmission assembly</li> <li>• Axle assembly</li> </ul>	<ul style="list-style-type: none"> <li>• Body-in-White</li> <li>• Final assembly</li> </ul>	<ul style="list-style-type: none"> <li>• Tools &amp; Dies</li> <li>• Prototypes</li> </ul>	<ul style="list-style-type: none"> <li>• Body assembly</li> <li>• Hydroforming</li> </ul>

▶ 3 Brands, 4 Continents, 11 Countries, 4000 People ...

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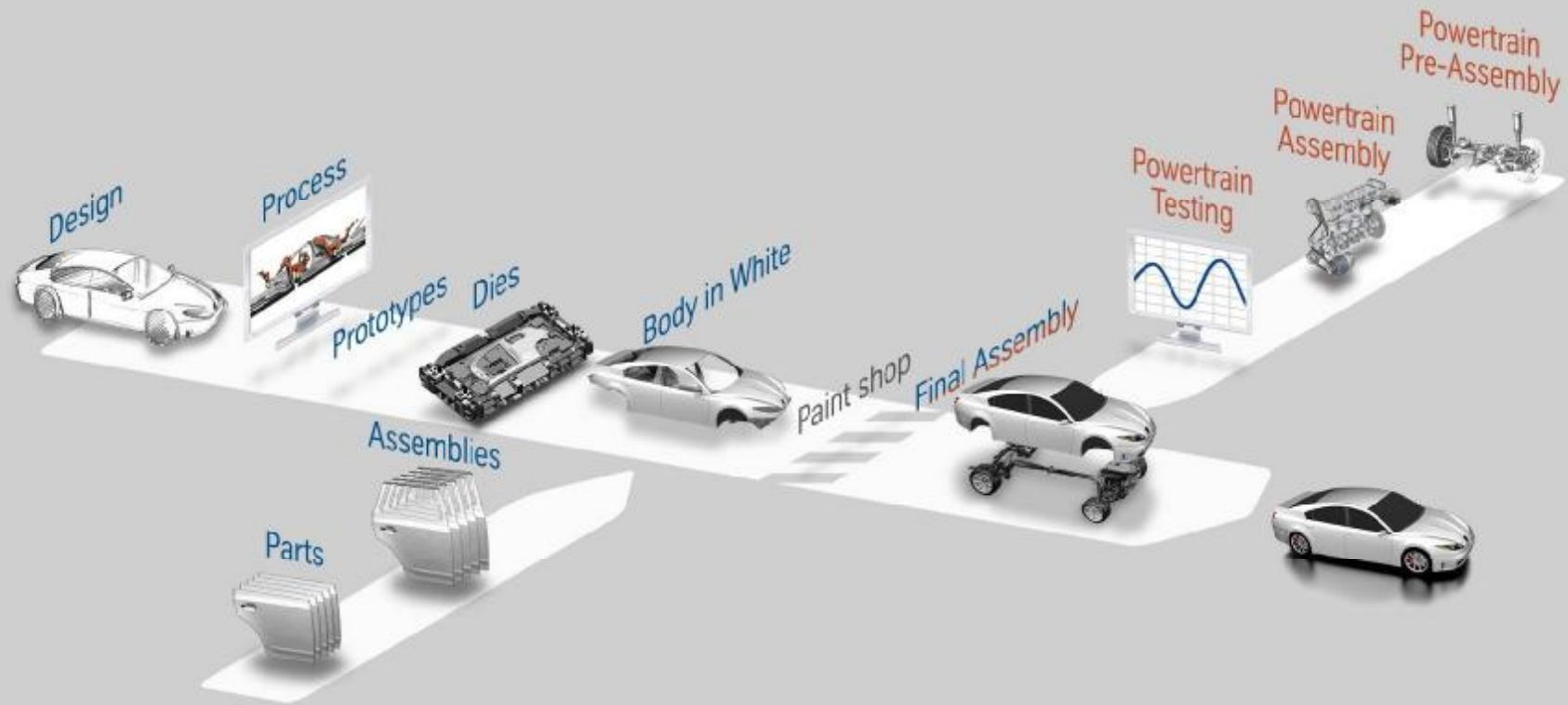
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# Products and Services along the Automotive Value Chain

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# Global Company - Local Presence



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# Customer References

America	Europe	Asia/Australia

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# Awards and Certificates

## Recent Awards



- Ford - Q1 Award
- Best Factory Award
- County of Saxonia Price for Quality
- BMW – “7-series Partner”
- GM - Supplier of the Year: Body Shop Equipment & Service
- VW - Global Supplier Award
- S-VW - Golden Prize for Best Commercial Performance (China)
- Ford / Jaguar - Reliability & Maintainability compliment

## Certificates



- DIN EN ISO 9001:2000 Quality Management System
- IQNet ISO 9001:2000 International Certification Network for Quality Management System
- VDA 6.4 Quality Management System for production equipment
- TS 16949 Quality System Management for the parts supply into the automotive industry
- DIN EN ISO 14001 Environmental Management



# TK System Engineering – Development in China

ThyssenKrupp Krause, founded in 1950, Bremen, Germany

ThyssenKrupp Krause Shanghai Representative Office established early 2006

Business focus in China:  
testing solutions, assembly systems for power trains

Merged into TKSE CN

ThyssenKrupp System Engineering (Shanghai) Co., Ltd.  
Officially rename early Aug. 2008

ThyssenKrupp Drauz Nothelfer, merged company of Drauz (since 1900) and Nothelfer (since 1921)

TKCBT

ThyssenKrupp Car Body Technologies (Shanghai) Co., Ltd., 100% subsidiary of TKDN, has been established in early 2006

Business focus in China:  
BIW welding lines, stamping dies, final assembly

Business focus in China:  
Testing Solutions, Assembly Systems, Body-In-White, Forming Dies, and Service.

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# TKSE CN – Projects in China

## Brand: Drauz Nothelfer

### SHAC – Global GM Project

Epsilon II (2007-2008):  
welding lines  
(front & rear cradles, control arm)

### Dies – Export to Europe

Ford EUCD (2006-2007):  
wheelhouse bracket piercing dies

Jaguar X 250 (2007):  
doors inner & reinforcement  
blanking dies

### S-VW

Polo HB (2001 - 2004):  
welding lines (side panel, underbody, sunroof),  
door sealing assembly, side panel dies.

Polo NB (2001 - 2004):  
welding lines (side panel, underbody, sunroof),  
door sealing assembly.

Touran (2003 - 2004):  
welding lines (side panel-including laser line),  
door sealing assembly.

Passat GP (2004 - 2005):  
welding lines (side panel-semi-automated,  
underbody), closures hemming equipment.

Model Y (2007):  
welding lines (closures)

Model F (2007 - 2008):  
welding lines (closures, framing), dies ( 4 doors -  
engineering & project management).

Model X (2008):  
cycle reduction of welding lines (side panel,  
closures, framing, underbody)

Model K (2009-2010)  
welding lines (side panel, 4 doors, framing)

### FAW-VW

Bora (2002 - 2003):  
welding lines (side member)

Sagitar (2004 - 2005):  
welding lines (closures), door sealing  
assembly.

Caddy (2004 - 2005):  
welding lines (side panel, closures, framing),  
door sealing assembly, dies (4 doors )

Magaton (2006 - 2007):  
welding lines (closures) and its cycle reduction,  
door sealing assembly.

Audi A6L (1998 - 1999):  
welding lines (underbody)

Audi A6L (2004 - 2005):  
vehicle development, prototype, welding lines  
(underbody)

Audi C6L (2007 - 2008):  
concept for BIW cycle reduction, cycle  
reduction of welding lines (closures) incl.  
relocation of rear door roller hemming stations

Audi A4 (2007 – 2008):  
welding lines (underbody)

Model G (2008 - 2009):  
welding lines (fenders, hood, tailgate)

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# TKSE CN – Projects in China

Brand: Krause | EGM

Citroen Dongfeng (1997)

Assembly machines integrated in the machining process:  
miscellaneous assembly machines eg. back out / run down conrod cap  
Complete differential assembly line with KSR transport system, pallets,  
presses, deburring stations, miscellaneous manual workstations

VWTS (2002)

Complete transmission assembly line MQ200 with:  
Krause FR conveyor, pallets, 16 automatic machines, 18 semi-  
automatic machines, miscellaneous manual workstations, 2 measuring  
stations (EGM) and 2 test stands (EGM)

Copeland Suzhou (2002)

Complete compressor assembly line with (11) automatic stations, (39)  
semi-automatic stations or manual stations, interlinked by a transport  
system with pallets

SVW Powertrain (2005)

End Function Test for EA 111 petrol engines

Yuchai Diesel – Yulin (2005)

Assembly line for 4 & 6 Cylinder Diesel engines

Beijing Jeep Corp. (2006)

End Function Test: M112,M271&M272 engines

S-GM (2006)

Test volumes for L850 engine

FAW-Dalian (2006)

End Function Test for EA 888 petrol engines

AAM Changshu (2006)

300C IRDA axle assembly line with 4  
automatic stations, 13 semi-automatic  
stations and 6 manual stations, interlinked by  
a transport system with pallets

Schaeffler Group – Taicang (2006)

Clutch hub calk line with 2 automatic press  
stations and 2 automatic gauging stations

Dongfeng (DPCA) 2007

Test Stands Balance Shaft

VWTS (2007) 3rd Transmission Test Bench

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# TKSE CN – Business & Capacity

## Business Scope

- Project Management for  
(Assembly, Testing Solutions, B-I-W, Forming Dies)
  - locally for China OEM
  - export business
  - take part in Global projects
- Service (tech. training, spare parts, modification& extension, etc.)
- Local Support for TK SE Group worldwide
  - sourcing
  - purchasing
  - manufacturing
  - after-sales service

We are a team of 21 employees and  
we have 500 m<sup>2</sup> office area and 900 m<sup>2</sup> production hall.



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# TKSE CN – Address & Contact

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