

World-Wide Value Offerings

Component Solutions

- Turnkey chip design
- Turnkey package design

Business Solutions

- Manufacturing services
- Technology consulting
- IP management consulting
- Verification and e-design

System Solutions

- System architecture and design services
- High performance packaging services
- Power and mechanical design services
- Industrial solutions

Mission Transfer Services

- Technology outsourcing
- Fab management outsourcing

Translating
Technology
into
Business
Value

IBM E&TS is a new division of IBM within the IBM Technology Group. Specializing in applied technology services, IBM E&TS collaborates with businesses whose success depends on the integration of complex technology.

IBM E&TS enables customers to translate technology into business value, to meet today's challenges such as new technology integration, financial and time to market pressures.

IBM E&TS is your portal to the deep technological expertise and engineering capabilities of IBM.

Business Solutions/Manufacturing Services EMEA (Europe, Middle East and Africa)

End to End Manufacturing Consulting

- Technology procurement
- Manufacturing process optimization
- Manufacturing yield and quality enhancement
- Customer relations

Technology Implementation

- Technology transfer
- Process customization
- Process/product qualification

Facilities Infrastructure

- Project management
- Environmental control systems

Manufacturing Systems & Operations

- Automation and IT solutions
- Manufacturing data systems
- Equipment engineering

Translating
Technology
into
Business
Value

The **IBM E&TS EMEA** organization is an integral part of the world wide IBM Engineering & Technology Services.

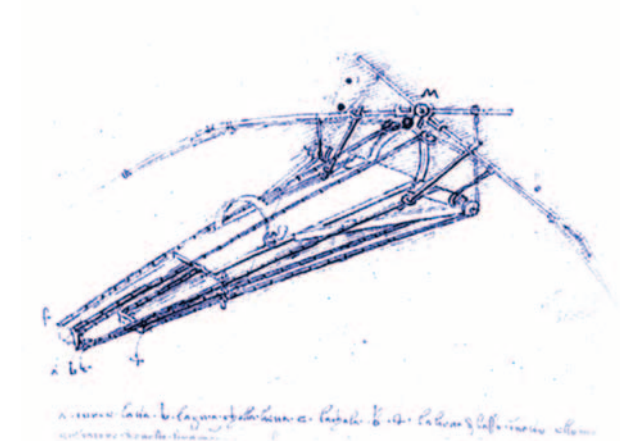
IBM E&TS offers a comprehensive set of technology business solutions. Engagement can occur at any step according to your requirements.

By involving **IBM E&TS EMEA** in your business solutions, you gain access to our world-wide value offerings with a local presence in Europe.



IBM E&TS is your key to success.

Manufacturing Systems & Operations



From Ingenuity to Impact.

e-business on demand

Automation & IT Solutions

For quality and yield improvement:

- *Automation*
 - Customized manufacturing lines
 - Handling systems
 - Assembly modules
 - Test modules
 - Inspection modules
 - Cleaning modules
- *IT environment*
 - Infrastructure
 - Tool application program
 - Automation control



Equipment Engineering

For planning, developing, building and maintaining leading edge equipment and production units:

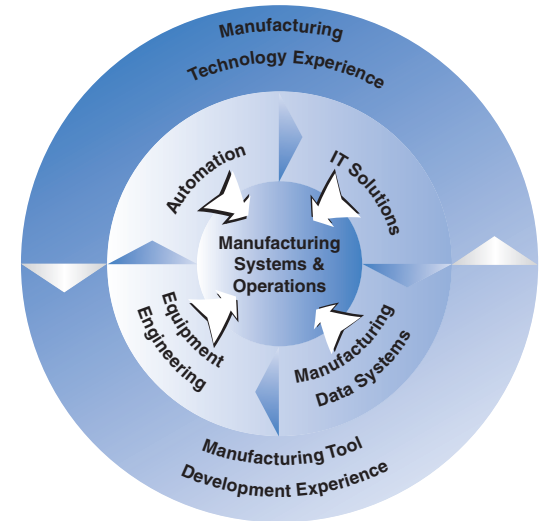
- *Facility automation*
- *Equipment engineering*
- *Software tools for control and factory automation*
- *Ongoing engineering and maintenance services*

Manufacturing Data Systems

For yield, productivity and traceability enhancement:

- *Manufacturing execution system (MES, EAP)*
- *Shop floor control system*
- *Enterprise resource manager*
- *Integrated simulation systems*
- *Data warehouse solutions*
- *Data mining*

We offer Customized Engineering Solutions!



Further Information:

IBM Technology Group

IBM E&TS EMEA

Postfach 2540

55015 Mainz/Germany

E-mail: ets_emea@de.ibm.com

Web: ibm.com/technology/

