Executive Summary
Medical Device Industry Edition

Located at the core of Europe Mannheim includes a population of approximately 320,000, and its greater metropolitan region a population of 2.4 million.

Mannheim and the region have become one of the Medical Technology and Biotechnology hotspots across Europe.

Learn more about the unique commercial, clinical, skilled labour and research opportunity that the MANNHEIM medical technology cluster offers to medical device companies expanding in Europe, while providing you safety in numbers.

www.mannheim.de/en/medtech
GET CONNECTED

Your fast track to get connected with EMEA, US, ASPAC and ROW

People buy from people. Being able to easily visit your customers, business partners or affiliates for personal meetings is a key to your success. Located at the core of Europe the MANNHEIM medical technology cluster provides an optimal hub for time-saving and efficient business travel.

Mannheim Main Station includes one of the most frequent ICE high-speed train connections to all major cities every hour. Get e.g. to Munich by rail in 2:58hrs, and get to Paris by rail in just 3:09hrs.

This includes a direct 31-minutes ICE high-speed train connection to Frankfurt Airport Terminal 1, a worldwide hub for direct flights to EMEA, US, ASPAC and ROW destinations.

Source: Google
http://maps.google.de/maps?hl=de&q=europa&safe=active&um=1&ie=UTF-8&sa=N&tab=wl
COMMERCIAL OPPORTUNITY

The MANNHEIM medical technology cluster provides you quick access to a broad environment of medical device industry partners that help you leverage your own resources and capabilities. Just a one hour car drive away from you.

Your fast track to medical device industry partners and resources

The MANNHEIM medical technology cluster provides you access to both, domestic hidden champions and mature world market leaders across a large variety of disease states and medical technologies. Just a one hour car drive away from you.

The following shortlist presents just a sample of companies in Mannheim and 60 miles around.

1stQ
Abbott Diagnostics
Admedes Schüssler
AGA Medical
ALCOM
Angiomed
Angiopro
Angioslide
Applied Critical Fluids
Atomic Force F&E
Bausch & Lomb Medical
Becton Dickinson
Bruker AXS
Buddeberg
C.R. Bard
CatHi
Culavis
Dammeyer&Selzer
Datascope MAQUET
DeVilbiss Healthcare
Dentsply Friadent
DFine RF Kyphoplasty
Digital Instruments / Veeco Metrology Group
Euro Engineering
Ferchau Engineering
Fresenius Medical
Freudenberg Helix Medical Europe / VistaMed
Friatec
Fitage

GE Healthcare
Geuder Ophthalmology
Heraeus Medical
ISIS sentronic
Johnson & Johnson DePuy
Johnson & Johnson LifeScan
Konplan
Leica Microsystems CMS
LeMaitre
LiMedlon
MAQUET
Medtronic Eureka
Metecon
Nestlé Healthcare
OMRON Medizintechnik
Optimed
Orthoclinical Diagnostics
Promega
Roche Diagnostics
Siemens Healthcare
Sirona
Spectra Group
St. Jude
Terumo
Vita Phone
VRmagic
Your fast track to leading pharmaceutical companies

The **MANNHEIM medical technology cluster** provides you access to mature world market leaders across a large variety of disease states. Just a one hour car drive away from you.

The following shortlist presents just a sample of global pharmaceutical companies in Mannheim and 50 miles around:

- Abbott
- Archimedes Pharma
- Horizon Pharma
- Merck
- Merck Serono
- Pfizer
- Reckitt Benckiser
- Sanofi Aventis

Your fast track to Simulator Training Centres in Mannheim

Physician training is key to launching medical devices, and to drive adoption and diffusion of new medical technologies. The **MANNHEIM medical technology cluster** provides you quick access to simulator centers dedicated to physician training in surgical and transcatheter therapies.

- CatHi Cathlab Simulator Training Center (Mannheim City)
- Eyesi Intraocular Surgical Simulator Training Center (Mannheim City)
- CardioSkills Cathlab Simulator Training Center (50 miles from downtown Mannheim)

Your fast track to biotechnology resources

Beyond the **MANNHEIM medical technology cluster** the BioRN Biotechnology Cluster is also located in the greater Mannheim metropolitan region. BioRN includes about 80 companies from the field of red biotechnology involved in the development of drugs, biotechnology platforms and diagnostics.

Your fast track to commercial excellence

Financial performance and compliance according to international standards present key metrics for managing your business. Four worldwide leaders in business & strategy consulting run offices in Mannheim City, and provide business consulting, finance, taxation, accounting, and payroll services to you on site.

- Ernst & Young
- Deloitte
- KPMG
- PriceWaterhouseCoopers

Visit us at [www.mannheim.de/en/medtech](http://www.mannheim.de/en/medtech) Email to elmar.bourdon@mannheim.de
CLINICAL OPPORTUNITY

Your fast track to University & Major Academic Teaching Hospitals in Mannheim and 10 miles around

Feedback from clinical routine practice and quick access to key opinion leaders is critical to launching medical devices, and to drive market penetration. The MANNHEIM medical technology cluster provides you access to KOLs in high-volume centres, whose top ICD-10 diagnoses include chronic diseases such as cancer, diabetes, cardiovascular disease, obesity disorders, and musculoskeletal disorders.

Mannheim University Hospital (1,400 beds)
Heidelberg University Hospital (1,600 beds)
Mannheim Theresien-Hospital & St. Hedwig Clinic (660 beds)
Mannheim-Speyer Diakonie Hospital (530 & 440 beds)
Ludwigshafen Hospital (940 beds)
Ludwigshafen BG Casualty Hospital (415 beds)

SKILLED LABOUR OPPORTUNITY

Your fast track to skilled medical device labour

People make the difference. Investing and growing your business goes along with an increasing demand for skilled medical device labour. The MANNHEIM medical technology cluster comprises leading academic institutions dedicated to providing a ready pool of graduates for medical device R&D, Operations, Supply Chain, QA, Regulatory, Marketing, Sales and Distribution.

The following shortlist presents just a sample of academic institutions in Mannheim City:

University of Applied Sciences (Medical Technology), Mannheim
Medical Faculty Mannheim, Heidelberg University
DHBW University of Applied Sciences (Business, Public Health), Mannheim
Mannheim University (Business, Public Health, Healthcare)
Graduate School Rhein-Neckar (Life Science Management), Mannheim

Beyond those, the MANNHEIM medical technology cluster also hosts vocational colleges for qualified medical care staff, such as nurses, nurse-technicians, and paramedics.
RESEARCH OPPORTUNITY

Regardless of the sphere in which it is implemented, new medical technology presents a key success factor for medical device companies. The MANNHEIM medical technology cluster comprises research units and organisations that facilitate your research and development programs every step of the way along your value chain. From research into new medical technology platforms and medical devices, through research in medical device manufacturing engineering and automation up to clinical research.

Your fast track to dedicated medical device research

Clinical and procedural knowledge, engineering excellence and understanding of product development in medical devices are key factors to be first-to-market, and to meet your expectations for return on investment. The MANNHEIM medical technology cluster includes two medical technology research units, focused on the development of medical technologies for commercialisation.

IMT Mannheim Institute of Medical Technology
Fraunhofer Institute of Production and Process Automation, Project Group for Automation in Medical Engineering and Bioengineering, Mannheim

Your fast track to leading Clinical Research Organisations

Deep therapeutic knowledge and understanding of clinical development drives more efficient pathways to commercialization. Whether you are conducting a clinical study or are managing a product life-cycle, the MANNHEIM medical technology cluster includes CROs dedicated to support you.

The following shortlist presents just a sample of CROs in Mannheim:

AMS Advanced Medical Services
CONET Clinical Operations Network
CRS Clinical Research Services Andernach
Dr. Knoell Consult
FORIM
IST Clinical Research
PharmaLex
PRA International
QUINTILES Innovex
Scope International
SAFETY IN NUMBERS

Beyond achieving net sales growth, today's medical device market environment requires solid management of both, your gross profit from operations, and your income from customers. Located in the MANNHEIM medical technology cluster, you are able to benefit from competitive labour cost and taxation schemes that help you drive bottom line growth.

Competitive Labour Cost

The EU Labour Cost Index includes salaries, social insurance charges for employers, and labour-related tax deducting labour-related subsidies.

EU Labour Cost Index Q2/2010

<table>
<thead>
<tr>
<th>Country</th>
<th>Index</th>
</tr>
</thead>
<tbody>
<tr>
<td>UK</td>
<td>102.3</td>
</tr>
<tr>
<td>Germany</td>
<td>102.9</td>
</tr>
<tr>
<td>Netherlands</td>
<td>104.0</td>
</tr>
<tr>
<td>France</td>
<td>104.1</td>
</tr>
<tr>
<td>Belgium</td>
<td>104.2</td>
</tr>
<tr>
<td>Italy</td>
<td>106.7</td>
</tr>
</tbody>
</table>

Source: Eurostat – The Statistical Office of the European Commission

Competitive Local Business Tax

Local Business Tax is charged by all territorial authorities. Its key indicator forms the so-called Gewerbesteuer-Hebesatz %.

Local Business Tax comparison for major german commercial areas 2010

<table>
<thead>
<tr>
<th>City</th>
<th>Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Berlin</td>
<td>410%</td>
</tr>
<tr>
<td>Mannheim</td>
<td>415%</td>
</tr>
<tr>
<td>Stuttgart</td>
<td>420%</td>
</tr>
<tr>
<td>Duesseldorf</td>
<td>440%</td>
</tr>
<tr>
<td>Cologne</td>
<td>450%</td>
</tr>
<tr>
<td>Frankfurt</td>
<td>460%</td>
</tr>
<tr>
<td>Hamburg</td>
<td>470%</td>
</tr>
<tr>
<td>Munich</td>
<td>490%</td>
</tr>
</tbody>
</table>

Source: Federal Chamber of Commerce
DIHK:http://www.dihk.de/inhalt/themen/rechtundfairplay/steuerrecht/gewerbesteuer/hebesetze_2010.xls
Competitive Corporate Income Tax

The Corporate Income Tax does not include other taxes, like local business tax, and other comparable taxes of federal and territorial authorities.

Corporate Income Tax comparison of european and industrial countries 2010
standard tax rates in %

<table>
<thead>
<tr>
<th>Country</th>
<th>Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Germany</td>
<td>15,0</td>
</tr>
<tr>
<td>Netherlands</td>
<td>25,5</td>
</tr>
<tr>
<td>Italy</td>
<td>27,5</td>
</tr>
<tr>
<td>United Kingdom</td>
<td>28,0</td>
</tr>
<tr>
<td>Belgium</td>
<td>33,0</td>
</tr>
<tr>
<td>France</td>
<td>33,3</td>
</tr>
</tbody>
</table>

Source: Federal Ministry of Finance

Competitive Company Tax

The Company Tax includes local business tax, corporate income tax and other comparable taxes of federal and territorial authorities.

Company Tax comparison of european and industrial countries 2010
tax burden of incorporated companies (nominal) in %

<table>
<thead>
<tr>
<th>Country</th>
<th>Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Netherlands</td>
<td>25,50</td>
</tr>
<tr>
<td>United Kingdom</td>
<td>28,00</td>
</tr>
<tr>
<td>Germany</td>
<td>29,83</td>
</tr>
<tr>
<td>Italy</td>
<td>31,40</td>
</tr>
<tr>
<td>Belgium</td>
<td>33,99</td>
</tr>
<tr>
<td>France</td>
<td>34,43</td>
</tr>
</tbody>
</table>

Source: Federal Ministry of Finance
Your fast track to emerging markets in eastern Europe

Germany has always been a natural gateway to emerging markets in Eastern Europe, particularly following the German reunification in 1990. Medical device companies located in the MANNHEIM medical technology cluster thus benefit from established political and commercial relationships facilitating your access to emerging markets in Poland, Russia, Czech Republic, Hungary, Turkey, Slovakia, Romania, and the Baltics.

Incremental german export growth to emerging market countries 2000-2007 in billion Euro

<table>
<thead>
<tr>
<th>Country</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Poland</td>
<td>21.68</td>
</tr>
<tr>
<td>Russia</td>
<td>21.50</td>
</tr>
<tr>
<td>Czech Republic</td>
<td>13.30</td>
</tr>
<tr>
<td>Hungary</td>
<td>7.00</td>
</tr>
<tr>
<td>Turkey</td>
<td>6.73</td>
</tr>
<tr>
<td>Slovakia</td>
<td>5.18</td>
</tr>
<tr>
<td>Romania</td>
<td>5.27</td>
</tr>
<tr>
<td>Baltics</td>
<td>3.79</td>
</tr>
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START-UP PROMOTION

Medical device founders and start-up companies located in the MANNHEIM medical technology cluster benefit from a start-up promotion programme that is considered a benchmark. This start-up promotion programme includes business consulting, funding, premium office space, and shared services at the MAFINEX Technology Centre, a dedicated resource for MedTech and other innovative entrepreneurs in early stages.

BUSINESS PARTNER

The MANNHEIM medical technology cluster provides both to you, hands-on support for your operational challenges as well as management advice for strategy and execution of your medical device business.

Our MedTech industry senior professional, Mr. Elmar Bourdon, is your dedicated business partner, backed-up with 15 specialist staff in the Office of Economic Development.

A business graduate with postgraduate education in public health, Mr. Bourdon’s medical device industry track record includes more than 14 years experience in product management, marketing, and sales roles in multinational and US-companies. He provides experience in building organisations, growing businesses in profit and revenue, and launching products, both, in Germany and in Europe. Prior to assuming his role for the MANNHEIM medical technology cluster, Mr. Bourdon’s positions included Product Manager at Siemens Healthcare/Sirona (NASDAQ: SIRO), Marketing Director Europe at Abbott (NYSE: ABT), and Business Unit Manager DACH at C.R. Bard (NYSE: BCR).