Company Presentation
Diehl Group

Sales: 2.930 billion €*
Employees: 14,500*
Family-owned company since 1902

*Trends 2012

**Diehl Metall**
Semi-finished products in brass, synchronizer rings

**Diehl Controls**
Electronic controls for washer, drier, dish-washer, inverted rectifier

**Diehl Defence**
Guided missiles, Ammunition, Vehicle systems

**Diehl Aerosystems**
Cockpit systems, Flight control, Cabin equipment and -lighting

**Diehl Metering**
Single jet water meter, mechanical heat and cold meter, static gas meter, electricity meter, energy management
Corporate Division Diehl Defence

- Guided Missiles
- Ground Based Air Defence Systems
- Ammunition
- Tracks/Suspensions
- Vehicle Maintenance/Upgrade
- Sensor/Security Systems
- Customer Support/Training
- Components/Packaging

Sales 600 million €*
Employees 3,050*
Headquarters Überlingen

*Trends 2013

Company sites: Überlingen, Bonn, Koblenz, Nürnberg, Röthenbach a d Pegnitz, Nonnweiler, Freisen, Remscheid, Heilbronn, Dunningen, La Ferté St. Aubin/France, Sevilla/Spain, Tucson, Arizona/USA, Troisdorf, Schrobenhausen, Ottobrunn, Abu Dhabi/UAE, Ankara/Turkey, Bangkok/Thailand, New Delhi/India
Organisation Structure

Corporate Division Diehl Defence
Diehl Defence Holding GmbH

Claus Günther (President)
Market / Affiliates/ Defence Systems

Christian Haun
Vehicle Systems

Thomas Bodenmüller
Financial Management

Diehl BGT Defence GmbH & Co. KG
Diehl Raytheon Missle Systeme GmbH
Diehl Defence Land Systems GmbH
JUNGHANS Microtec GmbH
AIM Infrarot-Module GmbH

EuroSpike GmbH
PARSYS GmbH
Diehl Iberia Sistemas S.A.
JUNGHANS T2M S.A.S.
Diehl & Eagle Picher GmbH

RAM-System GmbH

DynITEC GmbH
Guided Missiles

Air-to-Air Missile
Sidewinder

Air-to-Air Missile
IRIS-T

PARS 3 LR –
Tiger Main Armament

Laser Guided Air-to-Ground
Missile LaGS

Air-to-Ground Missile
PILUM

Multi-functional Guided Missile
SPIKE
Missile Systems

Ground-based Air Defence With IRIS-T SLM
Surface-to-Air Missile With IRIS-T SL
Guided Missile for Air Defence

Sea/Land Guided Missile RBS15 Mk3
Shipboard Defence System RAM
The new Submarine Armament IDAS (Project)
Ammunition

Diehl Hand Grenades

Bunkerfaust Warhead

40mm Ammunition against Infantry Targets

76mm Naval Ammunition

PELE® Ammunition

Smoke Products
Sensor- & Security Systems

SIMONE – Ship Monitoring System

CAMCOPTER S-100 Reconnaissance System

DIRCM – Protection System for Military and Civil Aircraft (project)

Carstopper

Counter-IED Convoy Protection

Stand-off Vehicle Protection
Vehicle Systems

Tracks & Suspensions, Repair & Overhaul, Upgrade

Support Rollers
System Tracks & Sprockets
Segmented Rubber-band Track on BV 206

Repair: Wiesel
Remotorisation: Power Pack M109
Upgrade/Modification
Components/Packaging

- Mortar Fuzes
- HuntIR Thermal Imager
- Thermal and Fuze Batteries, Battery Packs

- Artillery Fuzes
- Infrared Modules
- Field and Transport Packaging
Welcome to Diehl Defence Land Systems

Dipl.Ing. Klaus-Peter Furgeri
Area Sales Manager

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F: +49-2191-976-206
Email klaus-peter.furgeri@diehl-dls.com
YOUR COMPETENT PARTNER FOR
SYSTEM TRACKS, WHEELS AND PROTECTION
- Product Range -

TRACKS

WHEELS

PROTECTION
Control of all necessary core - competencies:

- **Research & Design** (Headquarters in Remscheid-Vieringhausen)
- **Simulation, Lab Test & Field Trials** (Remscheid-Vieringhausen)
- **Casting** (Steel foundry in Remscheid-Lüttringhausen)
- **Forging & machining** (Metal components in Mariahütte)
- **Rubber processing** (Rubber plant in Blankenheim)
- **Machining & vulcanization** (Headquarters in Remscheid-Vieringhausen)
- **Assembly** (Headquarters in Remscheid-Vieringhausen)
- **Sales, After-Sales-Service & Training** (Remscheid-Vieringhausen)

Diehl Production depth > 98%
Map of Locations in Germany
Diehl System Tracks
- PRODUCT RANGE

Idler wheel

Hub

Road wheels

Wheel lifter

Tracks / Track pads

Sprockets
We have more than 40 years of experience in design and production of tank tracks.

That is more than 40 years of research and development financed from own resources.
DIEHL System tracks

- High durability [6,000 – 18,000 km]
- Quick-fit® pads and grousers
- Low maintenance
- Maximum safety
- Cost effective [LCC]
- More than 100 designs up to now
- New design within 6 month
DIEHL System Track 156C for BMP 1&2, MT-LB, 2S1
The current system with bold on pads
The DIEHL System Track 156 C
for BMP 1&2
MT-LB, 2S1
1. End-connector
2. End-connector bolt
3. Track body
4. Track pad

**Track Data:**
- Width : 312,5 mm
- Pitch : 145,5 mm
- Weight : 10,8 kg / track-link
- : 74 kg / m
- Max. vehicle weight : 18 t (metric)
What makes the difference?
Road pads

2. *Quick-fit*\(^{(R)}\) system
With the DIEHL System Track 156

1. Bolt-on pads
With the current track
Road pads

A layer of rubber between the steel plates ensures a secure fit and a

Long service life without maintenance

of the rubber pads
End & Centre Connectors

Special treatment of center and end connectors with self-clamping bolts

Easy mounting and handling

Bolts to be tightened only once
• Special rubber mixtures for bushings

  bushings last an entire track life >>> low life cycle costs

  >> no maintenance

• Pin after rubberizing

• Flexible bushing in the link
No / low Maintenance

e.g. Screws to be tightened only once!!!
Low Life Cycle Costs

Standard Track

DIEHL System Track
Wear Indicators
DST – Summary Main Features

**Long service life**
**Easy and quick exchange of pads, even in the field**

**High cost efficiency**
**Easy handling**
- Screws to be checked only once
- No screws for pads

**No/Low maintenance**
**Maximum safety**
- No cracks
- No danger, even if exceeding the wear limits

**High mobility in extreme terrain conditions through very high traction**
References DST 156C on BMP 1 & 2, MT-LB

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DST 840i/840F for T55, T72, T80, T90, PT91, M84
T72 - The current system
Diehl System Track 840 I

1. End-connector
2. End-connector bolt
3. Track body
4. Track pad
5. Centre-connector – outer part
6. Centre-connector – inner part
7. Centre-connector bolt

Track Data:
Width: 548 mm
Pitch: 160 mm
Weight: 26.6 kg / track-link
: 166.2 kg / m
Max. vehicle weight: 49 t (metric
Diehl System Tracks for all kind of tracked vehicles

- **M113**: 513 (10-18 to)
- **BMP3 309C**: (20-30 to)
- **Marder 1028**: (30-40 to)
- **T72 840I**: (40-50 to)
- **Leo 2/ M88 570Px**: (50-65 to)
### References Worldwide

#### EUROPE

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<tr>
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References Worldwide

Middle East / ASIA / Oceania

Leopard 1  YPR  AMX30  BMP 1 / 2
M113       Warrior AMX13  BMP3
M109       Challenger 2 AMX10  T72 / T80 / T84
M110       AS90  Leclerc M84
M88        CVR(T) SHAHINE
MLRS       BIONIX SPH K9
PT-76      KIFV
## References Worldwide

### AMERICA

<table>
<thead>
<tr>
<th>Leopard 1</th>
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ANY QUESTIONS?
Thank you very much for your attention!