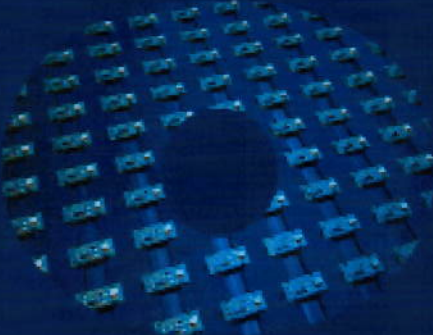
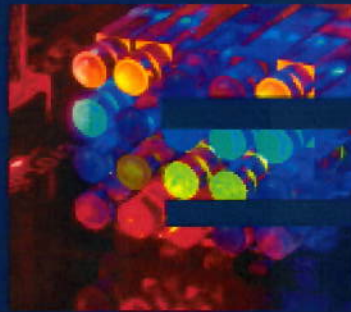




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WE CONNECT WORLDS



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Mehr als 100 Hersteller aus einer Hand

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MRO WERKZEUGBAU
INSTANDHALTUNG
MAINTENANCE
REPAIR TOOLING
OPERATIONS EQUIPMENT
SCHEDULED DEVICES
SERVICE SUPPLY FUNCTION ACTIONS
CORRECTIVE PREVENTIVE
MECHANICAL ENGINEERING



MENTOR[®]

As an internationally successful corporate group, MENTOR has been setting standards in the technical development and implementation of mechanical, electronic and optoelectronic components for diverse areas of application in industry for decades. Trendsetting ideas and top quality products.

STANDARD PRODUCTS

LIGHT GUIDE FOR SMD-LEDs & THT LEDs

HANDLES · HOUSING- AND CABINET ACCESSORIES

PLASTIC / METAL KNOBS · MECHANICAL COMPONENTS

KEYPAD COMPONENTS AND ACCESSORIES

OPTOELECTRONIC COMPONENTS

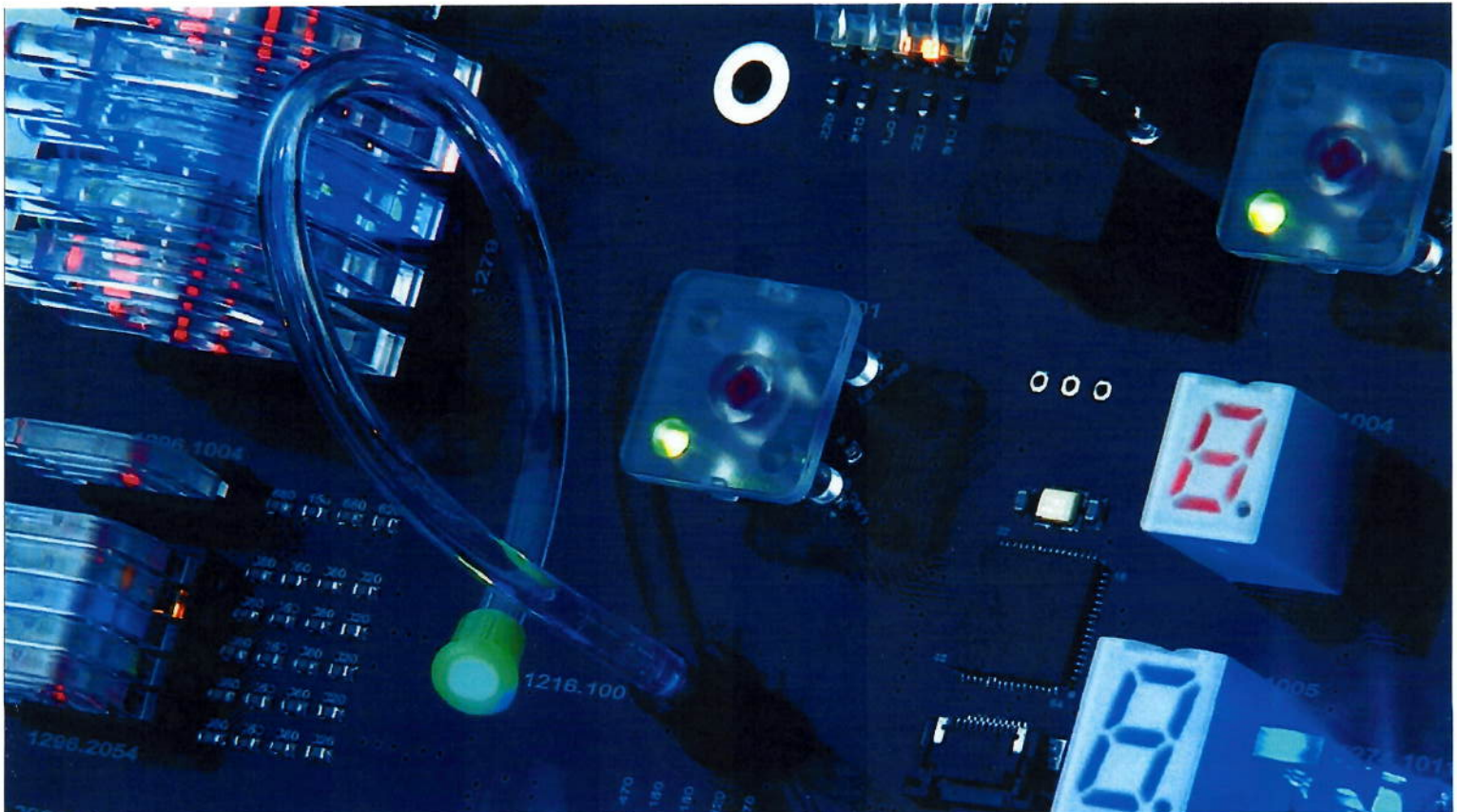
ELECTROMECHANICAL COMPONENTS SMD/THT

CUSTOMISED SOLUTIONS

AREA LIGHTING FOR LOGOS, SYMBOLS AND TEXT

M-FIBRE

INTEGRATED LIGHTING SOLUTIONS



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DEVICE ACTION
CORRECTIVE PREVENTIVE
MECHANICAL ENGINEERING



MENTOR[®]

HANDLES · HOUSING- AND CABINET ACCESSORIES

Opening and closing. Holding, gripping and operating. Pulling, pushing and lifting. The tasks, which have to be fulfilled by such an apparently simple product like a handle, are versatile and demanding. In addition, there are requirements for design, load bearing capacity and ergonomics, temperature and weather resistance, but also for ease of installation, cost effectiveness and long durability depending on the specific field of application. For decades, MENTOR has been one of the leading specialists for high-quality handles that are primarily used in professional applications: tooling and fixture construction, machinery, equipment and plant construction, metrology, laboratory- and medical technology and many more.



Plastic Handles



Stainless Steel Handles



Aluminium Handles



Tray, Collapsible and Carrying
Handles



Steel Handles



Carrying and Rear up Handles

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ACTION PREVENTIVE
SUPPLY MECHANICAL ENGINEERING
FUNCTION



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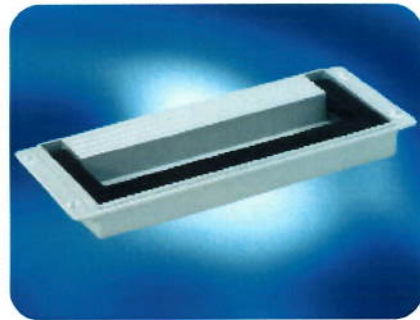
Plastic Handles



Stainless Steel Handles



Aluminium Handles



Tray, Collapsible and Carrying
Handles



Steel Handles



Carrying and Rear up Handles

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OPERATIONS EQUIPMENT
SCHEDULED SERVICE
DEVICE ACTION
CORRECTIVE PREVENTIVE
MECHANICAL ENGINEERING



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PLASTIC / METAL KNOBS · MECHANICAL COMPONENTS

Turning, pushing, adjusting, controlling and displaying. A knob has to perform many tasks, which can be challenging and varied. Depending on the application, there are also requirements in terms of design, temperature-resistance and weather-resistance as well as ease of installation and profitability. Within MENTOR's modular knob system, a knob can be fully customised to achieve the set-up required for the application in question. For decades, MENTOR has been one of the leading specialists in plastic and metal knobs for the music industry, domestic appliance technology and many other industries.



Digital and Analog Turning Knobs



Aluminium Turning, Wing, Pointer and Adjusting Knobs



Plastic Turning, Wing, Pointer and Adjusting Knobs



Accessories

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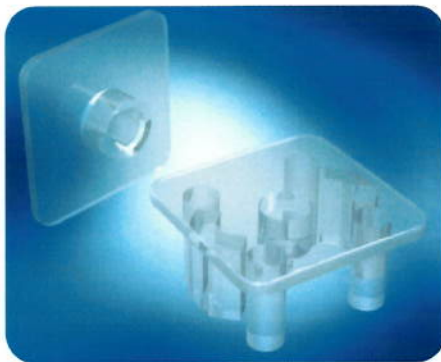
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WERKZEUGBAU
INSTRUMENTHALTUNG
MRO MAINTENANCE
REPAIR TOOLING
OPERATIONS EQUIPMENT
SCHEDULED SERVICE
DEVICE ACTION CORRECTIVE
PREVENTIVE
MECHANICAL ENGINEERING



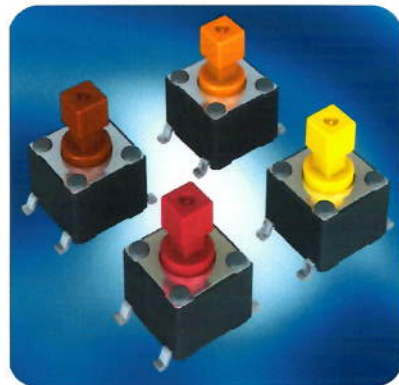
MENTOR®

KEYPAD COMPONENTS AND ACCESSORIES

Modern keycaps show their strengths whenever safety concerns are paramount. For instance, when an operator has to simultaneously monitor both the control panel and the resultant operation. The tactile response provided by the keycaps delivers direct feedback of the input. Further advantages of the keycaps are their robustness and sealing that prevents the ingress of dirt and dust. They can also be operated whilst wearing gloves.



Plunger / Plunger with Point Illumination



SMD Pushbuttons



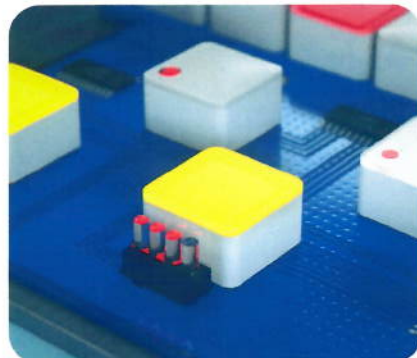
Pushbutton Caps with Full Illumination Flat Version for Keypads



7-Segment Displays



Customized Solutions

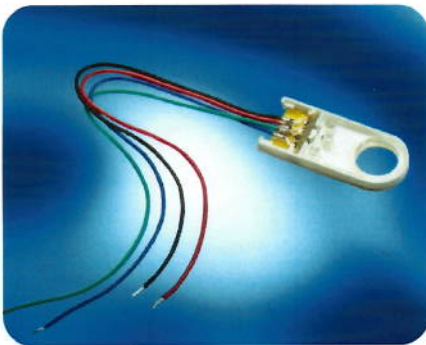


Light Guides for Stand-Alone Indicators

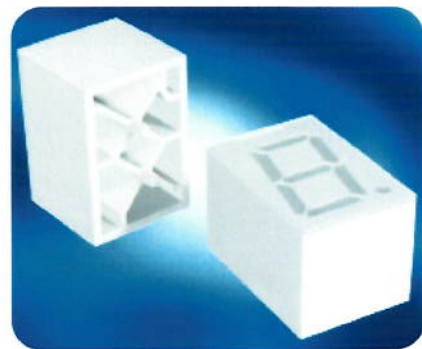


OPTOELECTRONIC COMPONENTS

The whole range of LED-based optoelectronic components is focused on active construction elements in the field of visible light. These components are classic features in human-machine interfaces and are used wherever light signals are required to draw attention to functions or operating states. Reliable, durable and versatile, they are the result of decades of experience in the development and production of construction elements for a wide range of applications in industrial electronics.



Ring LED Light



7-Segment Displays



Indicator Lamps and Sensors



Surface Symbol Illumination System



LED Display Systems



Holders

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Ring led light

Features + Benefits

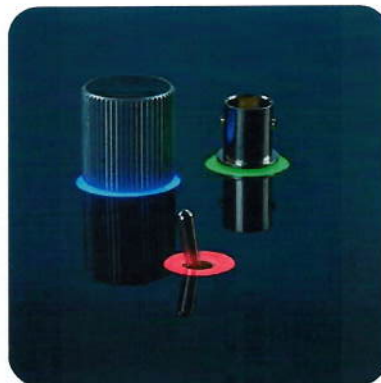
- Modular system with current standard products and a wide variety of options for customised solutions, many of which can be implemented with only minor investment.
- Compact shape and very flat structure (only 4 mm): Can be used for a wide range of applications, for example for a BNC connector or laboratory connector.
- Simple and rapid assembly: Fastened via studs in the front panel. Can be adjusted to existing fastening systems.
- Various options in LED selection, circuit board equipment and electric connection.

Standard Products

- Corona inner diameter: 12mm or 16mm
- Lighting ring: max. 2mm
- LED color: RGB or white
- Diffuser necessary, is not contained in the scope of delivery
- Connection: wire connection or plug for pin header 2 x 2 (grid 2.54mm)

Customised Solutions

- Special shapes and individual beam characteristics, such as square, elliptical, triangular, following contours (key-hole), crescent form, etc.
- Special sizes
- Freely-selectable LEDs: single color, two-color, RGB, special color or low current
- Variable circuit board equipment
- Alternative electric connections



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ACTION PREVENTIVE
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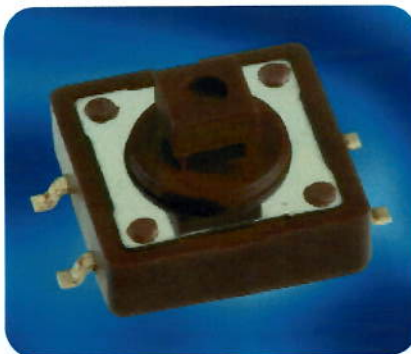
ELECTROMECHANICAL COMPONENTS SMD/THT

As a specialist for precision components, MENTOR offers a comprehensive range of electromechanical components as surface mounted devices (SMD) or through-hole technology (THT). Reliable, durable and versatile. Functionality, processing efficiency, thermal stability and, of course, compliance with pertinent standards and regulations.

SMD devices



Switches

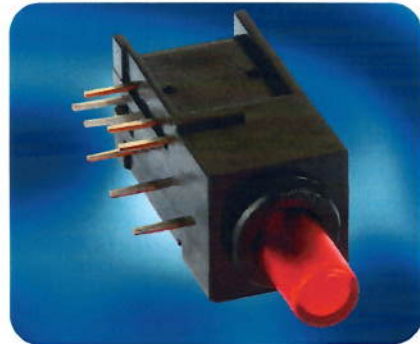


Pushbuttons



SMD-Bridges

THT devices



Switches



Pushbuttons



Potentiometers

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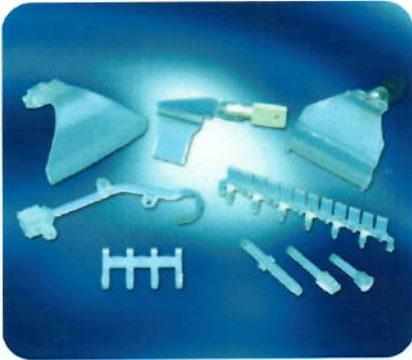
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SCHEDULED SERVICE CORRECTIVE
DEVICE ACTION PREVENTIVE
MECHANICAL ENGINEERING
SUPPLY FUNCTION



CUSTOMISED SOLUTIONS

Despite the large range of standard products, sometimes custom versions are the best solution. Custom solutions are MENTOR's strength. The realization of custom solutions is one of the core competencies of MENTOR. Together with the customers, our experienced product developers work out the best suitable and most efficient solution.

- different head shapes and sizes
- different dimensions
- different gaps
- special versions of the fixing
- colored light guides
- 2K-solutions
- alternative materials
- surface coating and finishing



Light guides: examples for individual solutions



Knobs: examples for individual solutions



Handles: examples for individual solutions

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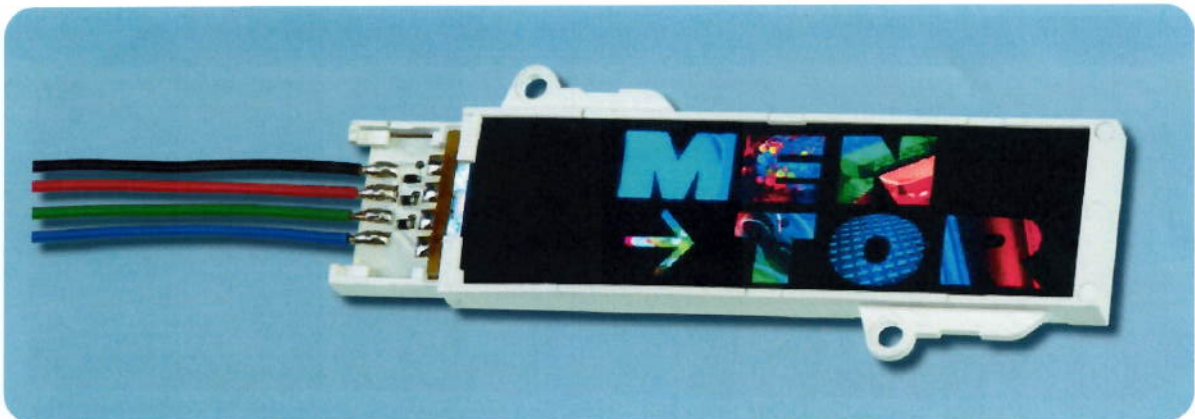
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MECHANICAL ENGINEERING



MENTOR®

AREA LIGHTING FOR LOGOS, SYMBOLS AND TEXT

For anyone who wants to make a mark in their product design, light offers the widest range of possibilities. Attractive staging of the brand logo, communication of status information via coloured symbols and texts or the integration of decorative graphics are examples of the functional and aesthetic added value that can be achieved with light. With the area lighting for logos, symbols and text, MENTOR offers new, cost-effective solutions for backlighting of wide areas for this purpose: as a standard product with short delivery times and low minimum order quantities or as a customised solution with a wide range of options. For illustration and test purposes, a sample version, with a logo already printed, is available from stock. As standard, the new area lighting is equipped with a coloured RGB LED and provides high-quality, homogenous illumination. During development, particular value was placed on simple and industry-appropriate assembly with a variety of mounting types and several alternative printing options. This light module is therefore suitable for a very wide range of applications.



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OPERATIONS EQUIPMENT
SCHEDULED DEVICES CORRECTIVE
SERVICE SUPPLY ACTIONS PREVENTIVE
MECHANICAL ENGINEERING



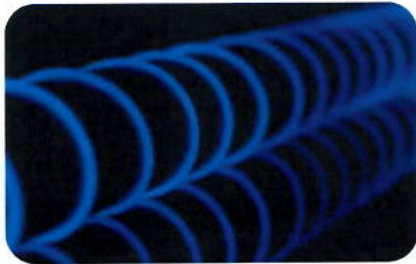
MENTOR[®]

M-FIBRE

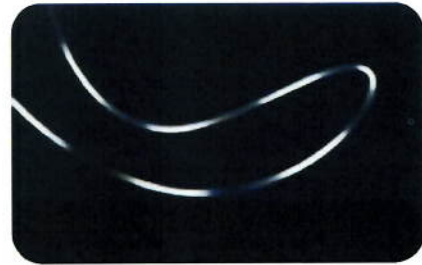
Thin, flexible and the exquisite homogeneous lighting over great lengths as well as within small bend radii - that's M-Fibre, the fibre system. The system, which consists of compact and high-performance LED modules, matching LED drivers and the actual fibres, available in different lengths, allows for premium lighting, whether functional or decorative, in all kinds of applications. Thus the M-Fibre is ideal to add functional, aesthetic and emotional value to product. Whether line lighting or indirect ambience lighting whether the needs require standard products or customised components - together we will develop and realise the custom-made solution for your product. The system's high flexibility and its premium lighting quality, as well as its tool-free technology, low initial cost and short development time add to the many benefits M-Fibre will bring to your product.

APPLICATIONS: automotive, machine and tool building, building services, furniture or household appliances, safety engineering, smart clothing, smart luggage

SUITABLE FOR: underwater use, in explosion protection areas, food industry



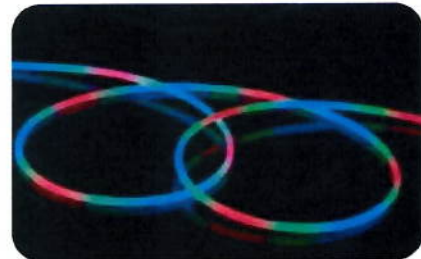
**Outstanding
Lighting Quality**



**Partial
Activation**



**Thin, Flexible,
Bendable**



**Multicolour
Applications**



**Homogeneous Lighting
in Narrow Radii**

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OPERATIONS EQUIPMENT
SCHEDULED SERVICE
DEVICE ACTIONS
CORRECTIVE PREVENTIVE
MECHANICAL ENGINEERING



MENTOR®

INTEGRATED LIGHTING SOLUTIONS

The range of custom lighting solutions that Mentor can provide are as diverse as the requirements of customers. Light guide options include: precision faces, multiple prisms, specialist reflective coatings, polymer optics, custom reflectors, specialised diffusers shapes and more. Using LED technology Mentor can provide customised designs for the most sophisticated of lighting applications.

The primary use in the fields of smart homes, automotive, IoT and eMobility, as well as in taps, bicycles, kitchen appliances, etc.



Illumination Optics

Classic customised polymer optics for focused light with defined radiation patterns.



Sanitary Module Monolith Plus

Using light as a design element. Contemporary design. Ambience. Atmosphere. Function.



Contour Tracking Lighting

Function and ambience: Ring shaped or contour tracking lighting for locks, handles, knobs and much more.



Vanishing Technology

The combination of light and partial transparent materials make information visible only with active backlighting.



Light Guiding Surface Structures with Microlenses
Computer-calculated spherical decoupling points distribute light from one or more LEDs homogeneously across the area.



Interior Lighting Busch-iceLight®
Customised lighting concepts in various designs, using specially developed refractive and reflective optics.

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OPERATIONS **E**QUIPMENT
 SCHEDULED **D**EVICE **C**ORRECTIVE
SERVICE **F**UNCTION **A**CCTIONS **P**REVENTIVE
 SUPPLY **M**ECHANICAL **E**NGINEERING



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MENTOR
 INNOVATIONS FOR THE FUTURE

FLS W
 VISION

DODUCO

MARQUARDT

E-T-A
 ENGINEERING TECHNOLOGY

HARTING

ISABELLENHÜTTE
 Innovation aus Tradition

fischer
elektronik
 to cool to protect to connect

HARTU
 A Phoenix Mecano Brand

HARTMANN
 A Phoenix Mecano Brand

KAISER+KRAFT
 ALLES FÜR DIE FIRMA.

Wolfgang Warmbier

WERKÖ
 WERKZEUGE FÜR DIE
 WIRTSCHAFTSCHAFT

WKS

PTR
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BOPLA
 A Phoenix Mecano Company

FEINMETALL
 Contact Technologies



CONTA CLIP

Aero-Motive
 Quality. Made with passion.

FRIEDEMANN WAGNER
 Handhabungstechnik

ingun
 Kontaktstifte · Prüfadapter

Telegärtner
 KARL GÄRTNER GMBH

SCHLEGEL
 ELEKTROKONTAKT

CK TECHNOLOGIES, INC.

RAFI

Cable Assembly

schriever

rakon Xpress



Feinddrahtwerk
ADOLF EDELHOFF

TEMEY
Ceramics

PACK
 LitzWire

NGK BERYLCO
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exens
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LAPP KABEL

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