



DENO - Inspired by Precision

Inspired by Precision



WE ARE YOUR PARTNER FOR THE
FOLLOWING SECTORS OF INDUSTRY:

- Drive technology
- Electric motors
- Power engineering
- Automotive
- Aviation
- Mechanical engineering
- Medical technology
- Assembly technology
- Rail-based vehicles
- Solar technology
- Wind power

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OUR EXTENSIVE PRODUCTION SKILLS.

- Sawing, high-speed part-off process (adiabatic)
- Barrel finishing with centrifugal or rotary systems
- Conventional vertical and horizontal milling machines
- CNC machining centers with up to 5 axes
- Surface grinders, double-sided grinding machines
- Lapping, ultrafine grinding
- Drilling, counter boring, reaming and threading
- Transfer machines for drilling, milling, reaming, threading and welding
- Assemblies
- Heat treatment and galvanic surface finishing with specialist firms
- Laser cutting (steel up to 12 mm, stainless steel up to 10 mm, aluminium up to 4 mm)

OUR SERVICE TAKES QUALITY TO NEW LEVELS.

DENO's technical products and services are enhanced further through first-class service. Across all stages of the advice, support and service we offer, we deliver additional added value for our customers, giving them a clear advantage over the competition.

- Superlative engineering expertise across all areas of production
- EDI data exchange and EDIFACT
- Creation of a download function for designers and development
- Customized packaging solutions, e.g. to mirror the customer's Corporate identity
- 48-hour delivery for standard ex-stock parts
- Focus always on the customer, including key account handling

Think global. Act global.

Many of our customers are represented internationally. We supply parts of a consistently high quality to their facilities on every continent.

We generate valuable synergies for our customers through collaboration with our companies Nosta, Dema, Marcus and DENO Turkey. As a strong alliance we cover a broad range of products with the highest quality standard to generate best customer satisfaction.



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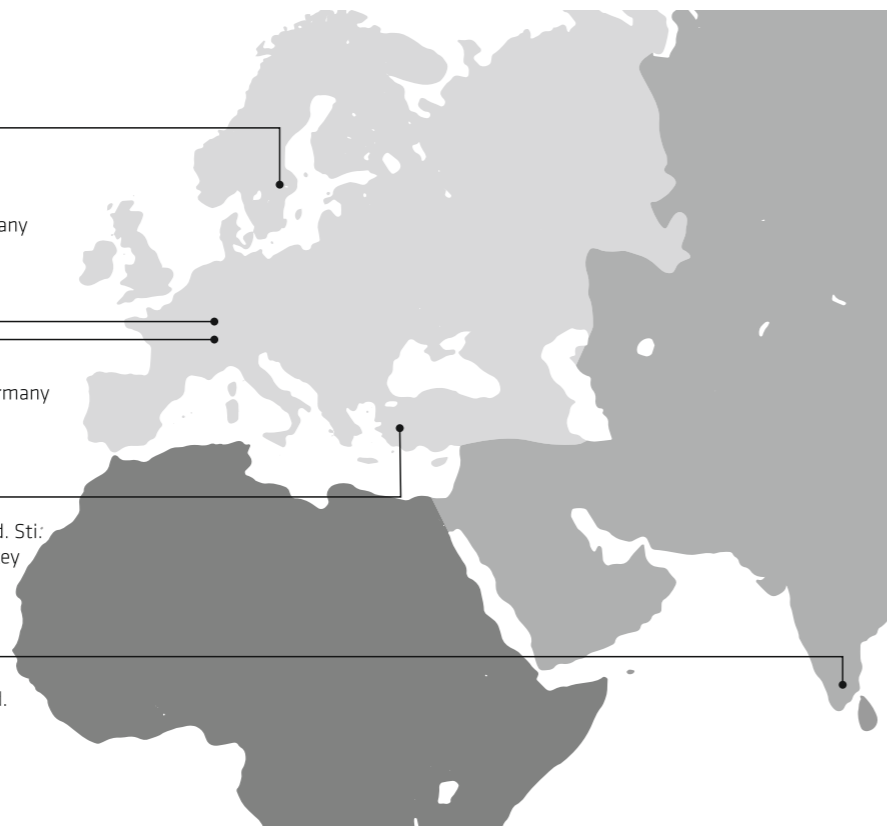
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89420 Höchstädt/Donau - Germany
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A strong workforce. Outstanding technology.

DENO India a brand of Canara Standard Keys Pvt. Ltd., is a unique business that has been delivering the highest standards of quality and customer satisfaction for over 50 years. The long-term success of the company is an outcome of best practises followed in-house & value addition for customers.

After merger and acquisition by Nosta GmbH and DEMA Präzisionsteile GmbH, we are now aiming to reach the next level to serve you better and at a broader spectrum as demanded by customers today.

Our corporate culture combines Domestic and International Technical and Marketing know-how to serve Customers relentlessly. DENO India strives for long-term, trusting and successful business relationships.

We are marching towards the next level with great customers like you.



Inspired by precision

State-of-the art technology needs people who know how to use it. Our advantage is the synergy of excellent technical standards and highly skilled, dedicated staff. They are the fulcrum and bedrock of our company.

PRODUCTION ISLANDS AND TEAMS OF EXPERTS

Our workflows are constantly being adapted and optimized to ensure that all our employees and their expertise are integrated into the company. We set great store by modern management methods that enable every employee to think and act like an entrepreneur. We encourage communication through production islands in the production area and teams of experts in administration.

Transparent, 360° appraisals ensure a constructive flow of information. It gives our employees not only esteem and integration, but also much more: an operational and strategic influence on the company's development.



Good companies
own personality



Standing out with clear expertise.

We secure competitive advantages for our customers with our solutions aimed at optimizing design and assembly processes. At DENO, we've built up precisely the core skills that make these advantages possible:

- Production from largely profile-drawn material
- Optimized further processing through milling, drilling, grinding, etc.
- In-house mechanical engineering
- In-house testing rig construction
- Superlative production expertise
- Comprehensive service



Our strength is every employee

Diversity in every core area.

DENO offers you a wide range of different products and manufacturing methods from standard to custom-tailored products. Thus, we can tailor your requirements to the cost and characteristics of our products.

DENO - Tried and tested for over 40 years.



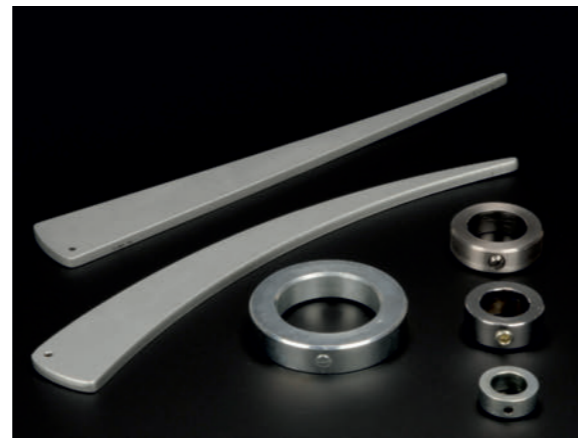
For over 40 years, we have been manufacturing standard parts from cold-drawn profiles for power transmission shaft-hub connections as well as fixing and fastening components.

THE MATERIAL

Steel, stainless steels, Aluminium, special alloy such as Monel, Inconel, Hastelloy, Titanium.

THE PRODUCTS

- DIN 6885 parallel keys
- DIN 6888 Woodruff keys
- Various steel keys compliant with DIN 6881, 6886 and 6887
- DIN 6880 key steel and DIN 6882 half-round steel
- DIN 508 T-slot sliding blocks
- Cylindrical pins, taper pins, grooved pins compliant with DIN/ISO
- DIN 705 set collars
- Suspension keys and tenon keys
- Wall wedges and key locks
- Key Assortments
- Pincers for removing keys, removal punch for gib head keys



DENO rail - Mobility through quality.



Maximum safety is of the utmost priority when transporting passengers and goods. With our high standard of quality and our reliability, we have been supplying the rail industry with various assembly components for many years. One key advantage in this, of course, is our engineering expertise.

DENO RAIL ASSEMBLY SYSTEM

Significant cost savings can be achieved through standardization. With the DENO rail assembly system, we offer you a range based on standardized C-rails with track width 10, 15 and 19 and the matching fixing elements. The assembly rails may be integrated directly or fitted retrospectively. The most effective cost-saving is achieved by integrating the DENO rail assembly system rails directly into the extruded aluminium segments of the railcar body.

SYSTEM PRODUCTS

- Assembly rails
- T-slot screws
- T-slot sliding nuts
- Nuts for T-slots with and without fixing aids, screw locking devices, electrical contacts etc.
- Fixing accessories

OTHER PRODUCTS

- Technical rail components
- Components as per customers' drawings
- Laser parts

THE MATERIAL

- Structural steel, quenched and tempered steel
- Stainless steels such as 1.4301, 1.4571, 1.4462 for higher technical requirements and corrosion resistance
- Unalloyed or low-alloy steels and aluminium made corrosion-resistant through suitable coating processes like Geomet, Delta Seal, etc.

APPLICATIONS

- Use in underfloor technology such as universal mounts, etc.
- Bogie fixing
- Interior fittings such as shelf mounts, seat assemblies and panel fixings
- Couplings

THE BENEFITS FOR YOU:

- Cost-optimised production
- Excellent warehouse stock availability
- Superlative quality standards
- Reduced diversity of components

DENO STANDARD SPECIAL

We offer you a range of additional finishing options, e.g. with drilled holes, heat or surface treatments and ISO tolerance ranges 6,7 and 8. Production according to BS 46, BSA 4235 and USAS ANSI B 17.1 & 2.

AVAILABILITY

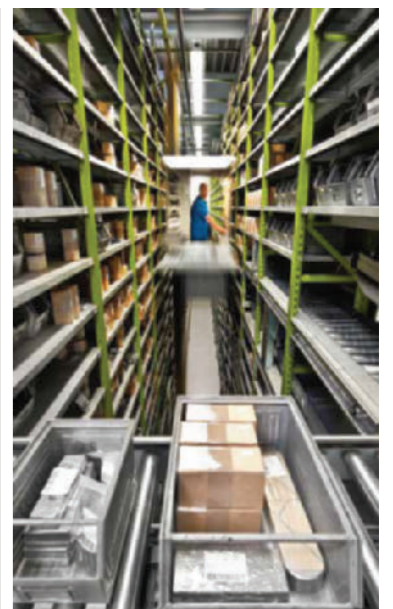
Delivery of exstock items are generally within 48 hours.

THE APPLICATIONS

- Mechanical engineering
- Vehicle construction
- Drive engineering
- Electric motor engineering

FLEXIBLE PRODUCTION

Our optimized processes enable us to make single-unit production as competitive as large-scale series production.



DENO rounds - Maximum precision



Axes and shafts fall into three sections in DENO:

1. Axes and shafts produced by rotation and grinding technique.
2. Cold worked axes and shafts.
Improved customer specific special parts are mentioned here.
Required requests determined with a drawing and produced accordingly.
3. Pins
We also deliver a wide range of product related to standard DIN and ISO pins in standard area.

ADVANTAGES OF COLD WORKED AXES AND SHAFTS:

- Metal forming
- Free material selection
- Burr-free and so better assembling conditions
- Price advantages
- Eco-friendly production

THE PRODUCTS

Standard materials:

- Carboniferous steels
 - Tempered steel
 - Bearing steels
 - Free-cutting steels
 - Stainless steels
 - General construction steels
 - Al, Ms, etc. such non-ferrous metals
- Other available materials are also delivered in accordance with customer request.

USAGE

- Clutches
- Electrical motors
- Gear cases
- Planet gear groups
- Fans
- Printers
- Pumps etc.

AVAILABILITY

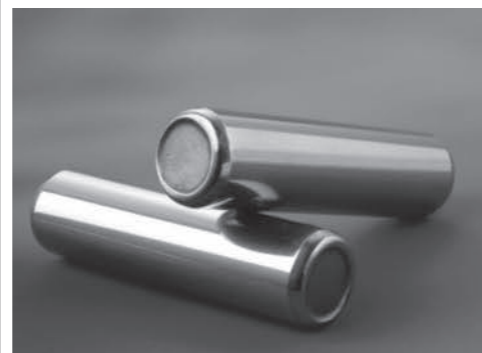
Maximum utility with minimum prices

SPECIAL PRODUCTION:

In case of need, axes and shafts can be modified technically as follows:

- Mounting the surfaces or helical ramps for carrying or lubricating
- Twisting
- Back cross of axial hoes
- Various diameters formed by Immersion type grinding

- Notches
- Gap pits
- Grinding
- Special
- DF pin
- Burr-free
- Metal forming
- Free material selection
- Best assembling conditions
- Thanks to low production costs price advantages
- Eco-friendly production



Norm	Description	Material
DIN 1 ISO 2339	Taper Pins	1.0718 1.4305
DIN 7 ISO 2338	Parallel Pins	1.0718 1.4305 1.4571
DIN 1444 ISO 22341	Bolt with head	1.0718 1.4034 1.4305
DIN 1469	Grooved Pins	1.0718 1.4305
DIN 1470 ISO 8739	Grooved Pins	1.0718 1.4305
DIN 1471 ISO 8744	Grooved Pins	1.0718 1.4305
DIN 1472 ISO 8745	Grooved Pins	1.0718 1.4305
DIN 1473 ISO 8740	Grooved Pins	1.0718 1.4305
DIN 1474 ISO 8741	Grooved Pins	1.0718 1.4305
DIN 1475 ISO 8742 ISO 8734	Grooved Pins Grooved Pins	1.0718 1.4305 1.4034 1.4571
DIN 7977 ISO 8737	Taper Pins	1.0718 1.4305
DIN 7978 ISO 8736	Taper Pins	1.0718 1.4305
DIN 7979 ISO 8733 ISO 8735	Cylindrical Pins	1.3505 1.4305
DIN 1481 ISO 8752	Slotted type spring tension pin	1.4310
DIN 6325 ISO 8734	Parallel pins	1.3505 1.4034 1.4305 1.4571