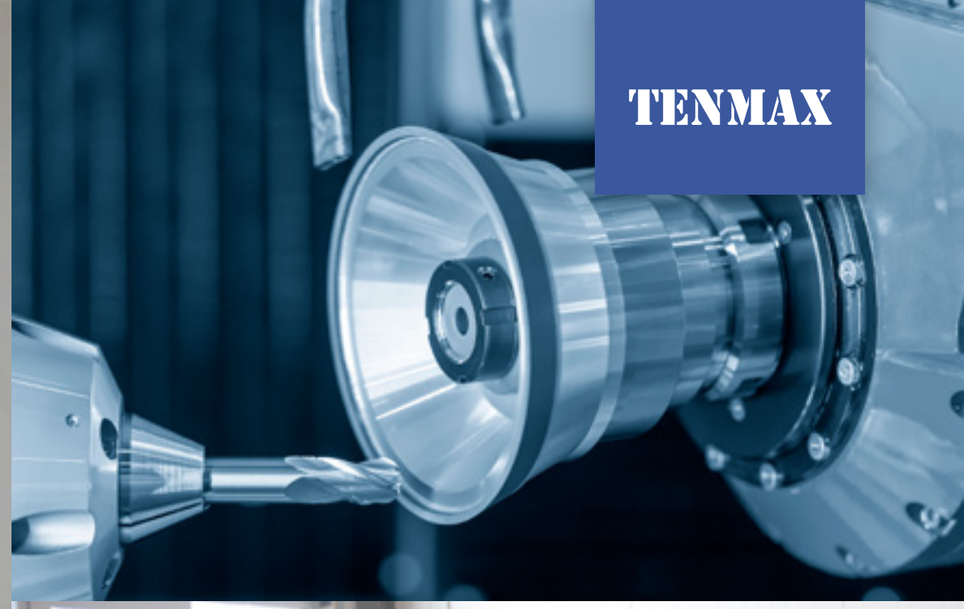
TENMAX

GET TO KNOW US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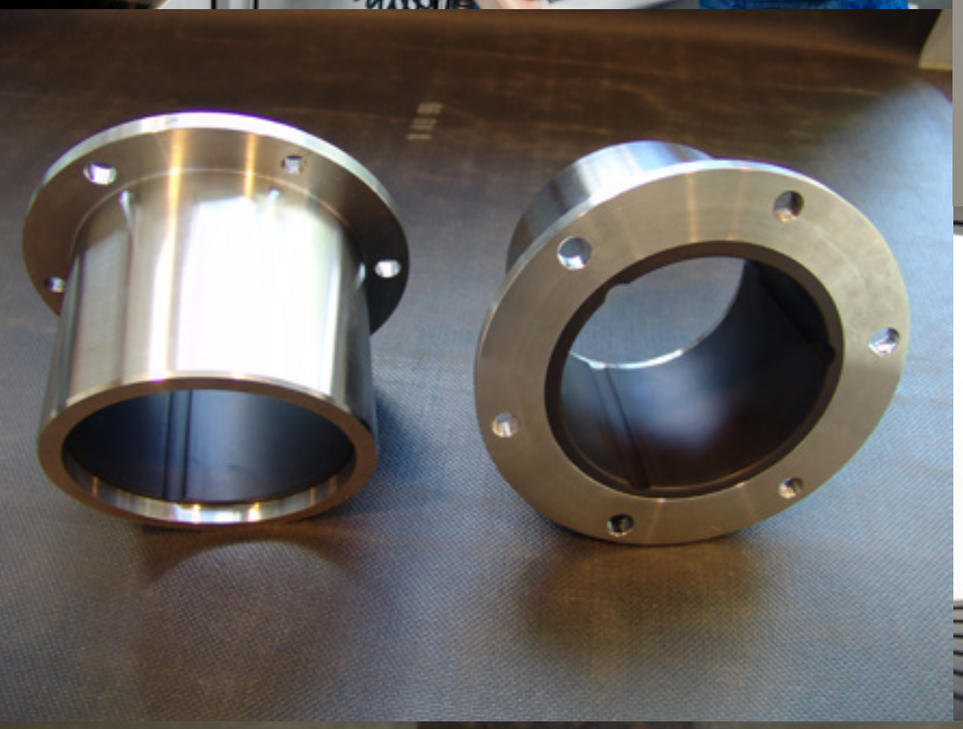

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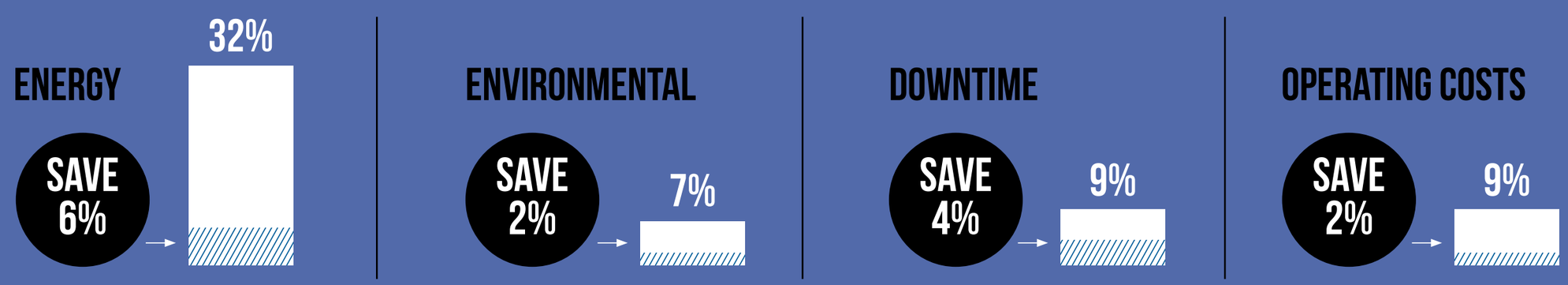
UPGRADING YOUR ROTATING EQUIPMENT IS OUR MISSION...

HUGE SAVINGS ON COSTS AND ENERGY OUR GOAL!



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ABOUT TENMAX

TENMAX COMPOSITE MATERIALS FOR ROTATING EQUIPMENT

Tenmax developed its own range of composite materials specially designed for the use of rotating equipment and to improve the MTBR (Mean Time Between Repair).

Our composites outperform every other material and are in many cases the best solution to replace metal parts. **Best quality** can be offered, because **Tenmax controls the whole process:** from compounding the base material till finished part design and the machining in our **own facility**.

Tenmax was founded by **professionals out of the rotating equipment sector**. We are driven by the fact that no supplier can deliver a whole range of materials against a price and delivery time that justifies a standard use in rotating equipment by the **Original Equipment Manufacturer** (OEM). Because of our competencies, no other company is more suited to design and manufacture your parts. Besides the standard range of composite materials, we can help design your best custom solution. **Tenmax maintains its leadership role through innovation!**

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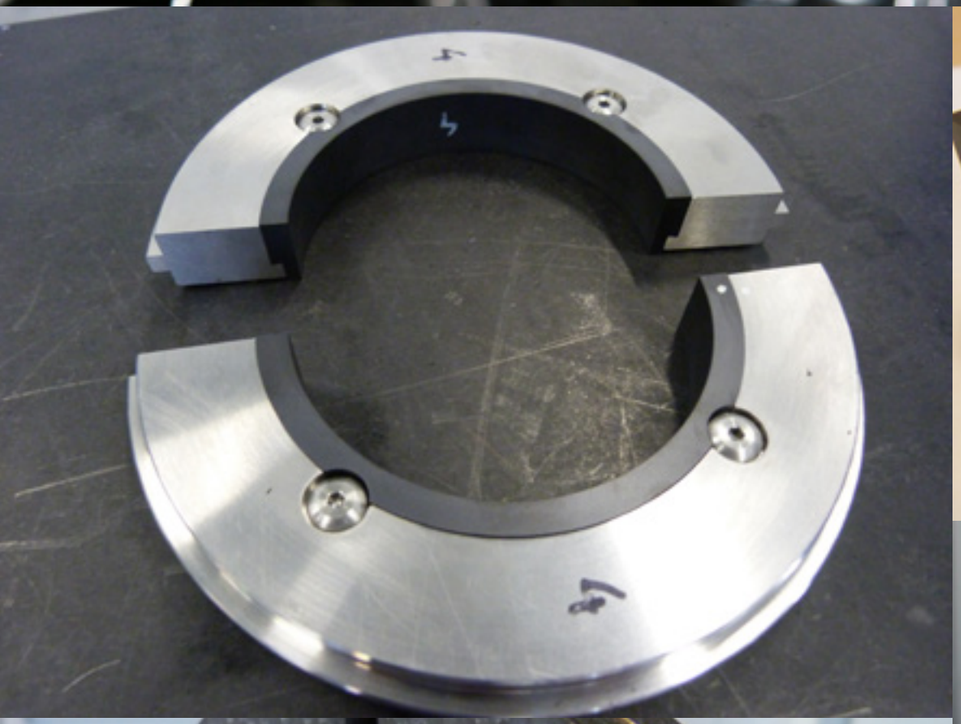

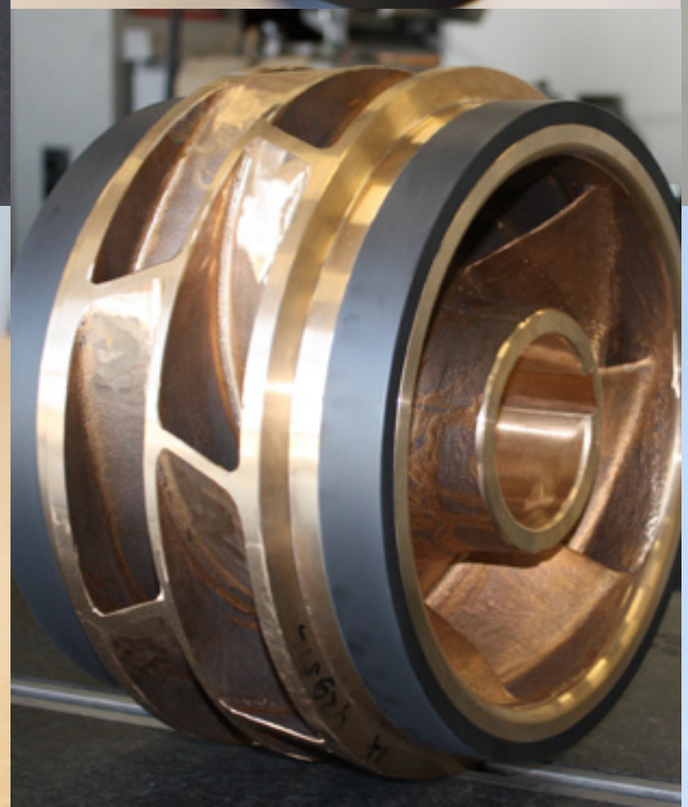

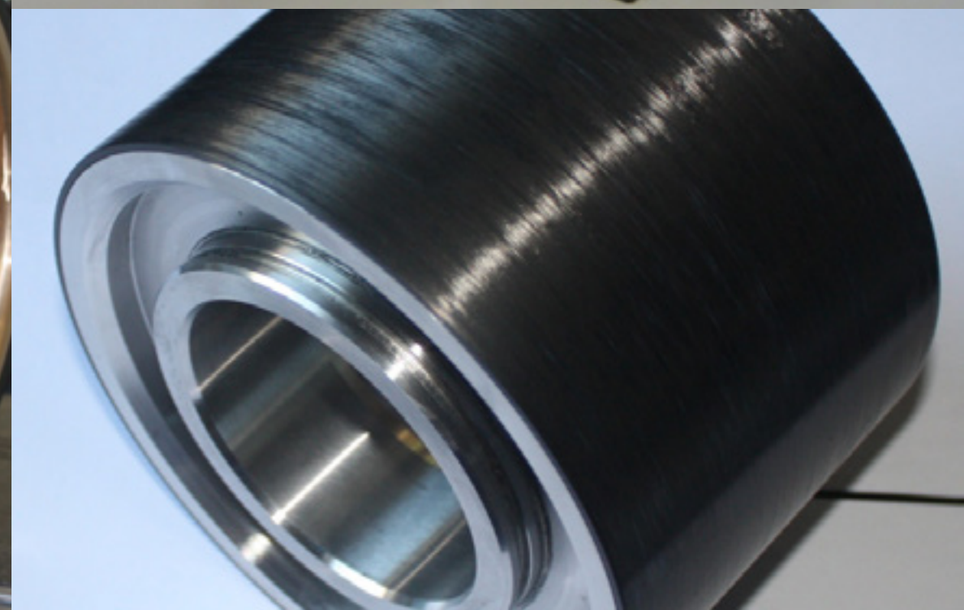

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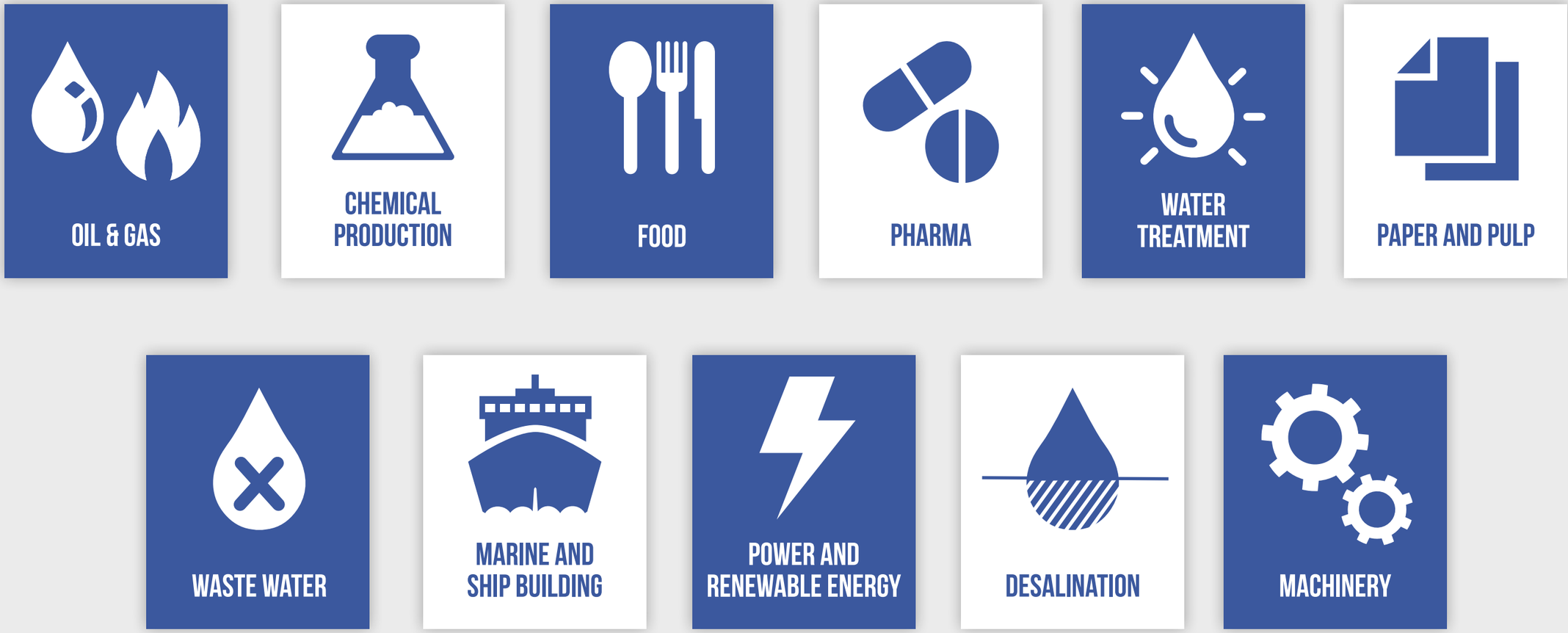
OUR CUSTOMERS

MARKETS WE DELIVER TENMAX COMPOSITE MATERIALS



TENMAX

BENEFITS

QUALITY

Tenmax differentiates by offering the **best quality** against **low prices** and **very short lead times**. We are a one stop shopping partner for rotating equipment materials.

WE ARE PROUD OF OUR PRODUCTS, PLEASE CHECK THEM OUT AND SHARE OUR FEELING.

TENMAX

CERTIFICATIONS

CERTIFICATE OF COMPLIANCE WITH FDA REGULATIONS FOR PLASTICS FOR FOODCONTACT

Code of Federal regulations FDA 21 CFR 177.2415 of the Food and Drug Administration (FDA)

WRAS APPROVED PRODUCT

CERTIFICATION MARK

kiwa gecertificeerd

ISO 9001

energy API

MAT inspired

TENMAX

TENMAX

BENEFITS

WORLD WIDE SUPPORT

Tenmax is active in 22 countries to provide our customers best practices and design support.

WE ARE PROUD OF OUR PROJECTS, PLEASE CHECK THEM OUT AND SHARE OUR FEELING.

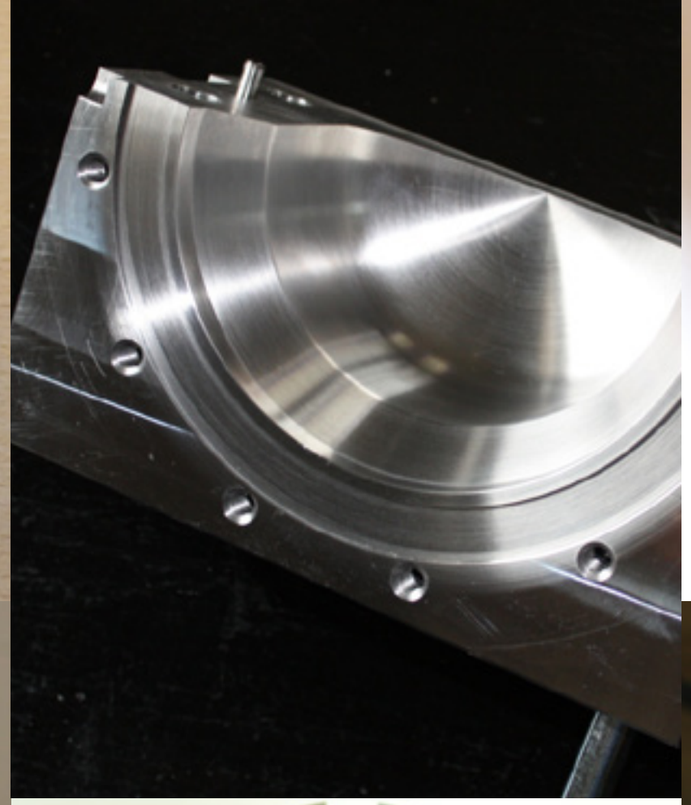
TENMAX

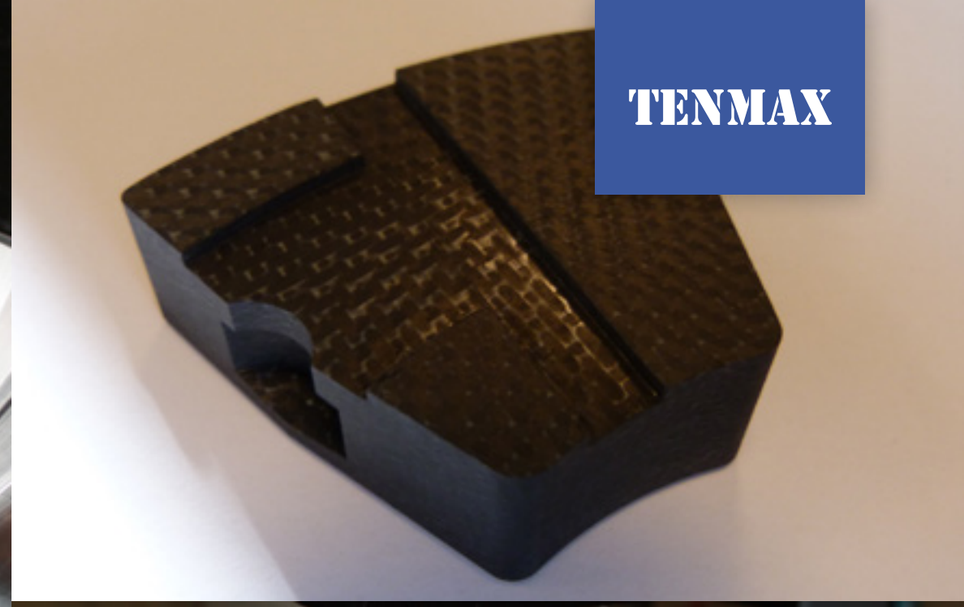
BENEFITS

INNOVATION & DEVELOPMENT

Tenmax´strength is **fast development and testing**.
We are specialised in the development of new materials in several markets and have implemented the practical knowledge and application desiderations of many customers into our unique custom materials. We can do rapid prototyping with newly developed materials in any kind of market. Innovation is in our DNA!

WE ARE PROUD OF OUR INNOVATIONS, PLEASE CHECK THEM OUT AND SHARE OUR FEELING.





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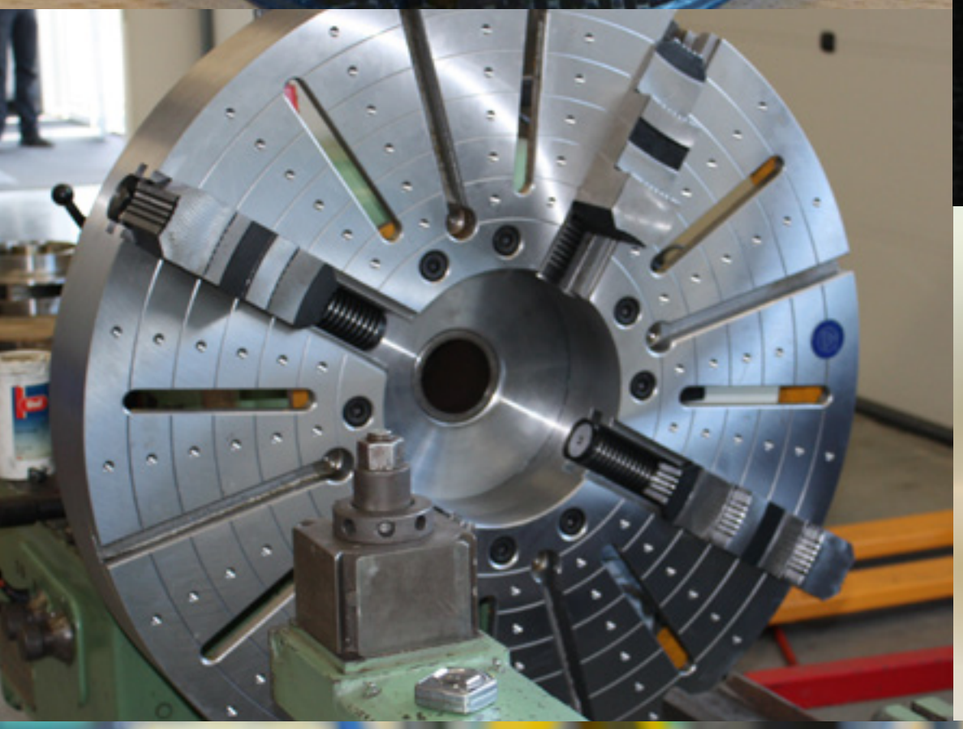
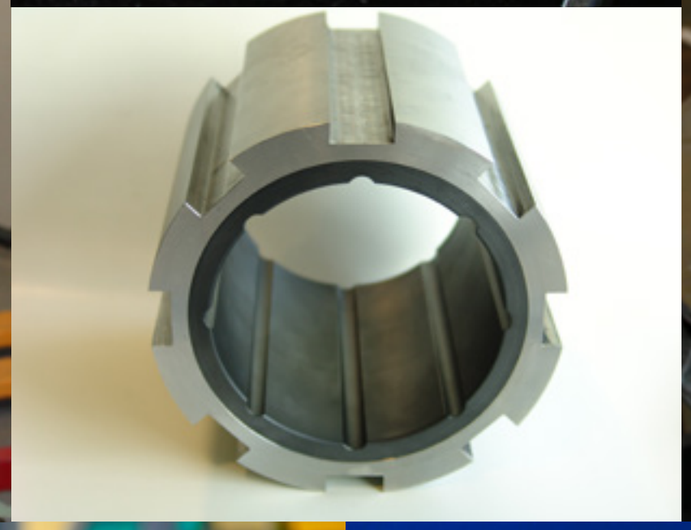




TENMAX

MATERIAL BENEFITS

The use of our materials in rotating equipment will improve equipment service life. All other critical parts like mechanical seals will last longer due to the fact of reducing temperatures and vibration levels.

- No swell in media
- Perfect bearing properties
- High tensile strength
- High compression strength
- No chipping off
- No thermo shock problems
- Non galling problems like metal to metal contact
- Low heat generation during contact to metal
- Almost no wear or damaged counter materials after service life
- Very abrasive resistant
- Better to use than metal in explosive applications
- Isolating
- Press fit, so no securing of parts like metal rings/bearings
- Low weight
- Easy to machine compared to sic, hard metal etc.
- No corrosion like metals
- No electrical corrosion between parts
- High chemical resistance
- Very high maximum temperatures up to 385 ˚C / 725 ˚F
- Replacements for extreme abrasives like sic and ceramic materials
- Dry running capabilities
- Short lead times


TENMAX

TENMAX

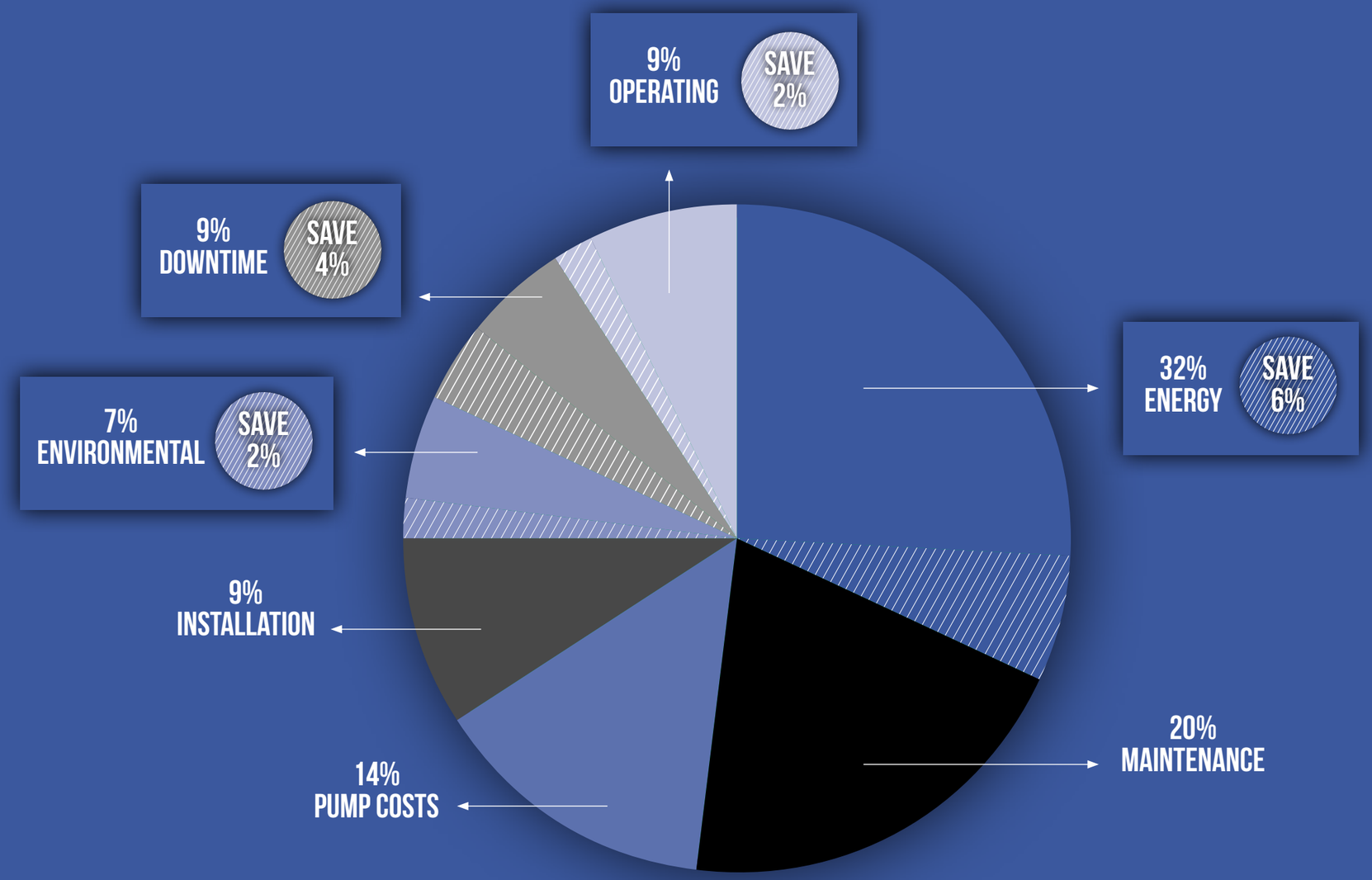
BENEFITS

Due to improvement of your equipment efficiency you can save energy and money with **a return on investment of less than one year!** In this time of high energy costs and looking after green solutions our materials can be a simple and easy way to help our environment and your profit.

1. EXTENDING MEAN TIME BETWEEN REPAIR (MTBR)
2. EFFICIENCY GAIN, $ SAVINGS!
3. LESS UNSCHEDULED DOWN TIME
4. HUGE SAVINGS ON LIFE CYCLE COSTS
5. LESS VIBRATIONS
6. LESS SAFETY AND/OR ENVIRONMENTAL ISSUES
7. LESS DAMAGE AFTER FAILURE
8. SHORT DELIVERY TIMES
9. BAD ACTOR SOLVING
10. CUSTOM PARTS

TENMAX

LIFE CYCLE COSTS PUMP



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STANDARD MATERIAL OVERVIEW

MATERIAL NUMBER	MIN TEMP °C	MAX TEMP °C	FRICTON	TENSILE STRENGTH MPA	COMPRESSION STRENGTH MPA	CTE	HARDNESS SHORE D	WEAR RESISTANCE SCALE 1 TO 20	TYPICAL APPLICATIONS/ PROPERTIES
TMC30	-100	260	0,18	210	250	22	90	8	Salt water, process, chemicals, oil, desalination etc.
TMC7601	-140	260	0,12	120	160	30	89	9	High wear resistance, low wear
TMCS25	-80	300	0,11	100	180	30	115	15	Replacement for ceramics and SIC/SIC, extreme wear resistance
TMCG9	-120	280	0,06	50	40	50	66	8	Extreme dry-run and low friction, strong acids, chemical inert
TMCS26	-120	280	0,11	95	130	30	90	12	Strong acids-chemical inert
TMC7601-4	-120	280	0,11	100	160	33	89	8	High flexibility, labby seal material, high wear resistance, low friction
TMCW70	-100	285	0,15	2100	1400	0,23	98	8	High loads, almost no CTE, High temperature
TMCP50	-100	250	0,16	700	742	3,9	97	10	Axial bearing assymblies, High loads, low friction
TMC CCP 30	-100	500	0,09	x	x	x	1500 Vickers	20	Extreme wear resistant counter material, replacement for ceramics, in combination with TMCS25, TMCS26

All above materials are composites based on thermoplastics and high technical fillers. All materials have excellent chemical properties and all the benefits that are common for this kind of materials. This overview is just for indication to show the difference between our materials but will not indicate better working. Tenmax always goes into dept with its customers to determine the best solution for each application. Therefore we also can mix or blend specials for customer applications.

TENMAX

CONTACT INFORMATION

CURIOUS WHAT TENMAX CAN DO FOR YOUR COMPANY?

PLEASE CONTACT US!

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