

## Efficient flow.

## 高效流动

BALINIT® coatings for rotary pumps in abrasive and poorly lubrication media.

BALINIT® 用于有摩擦且不充分润滑环境下的旋转泵。



## BALINIT® coatings resist extreme conditions.

### BALINIT® 涂层抗极端条件

Screw spindle-, vane-, gear-, lobe- and centrifugal pumps have to work in abrasive and poorly lubricating media. This could be cooling media in grinding machines such as screw pumps and internal gear pumps; poor lubrication are applications in fresh- or seawater like screw spindle pumps. Furthermore a combination of abrasion, corrosion and adherence damages parts of external gear pumps for lacquer in the car painting industry. BALINIT® coated screws show an excellent combination of hardness and low friction and prevent wear in poorly lubricating conditions.

螺旋轴，叶片，齿轮，叶和离心泵，必须在有摩擦并且不充分润滑中工作。譬如磨床中的螺旋泵和内啮合齿轮泵使用的冷却液，淡水或海水螺杆泵的不充分润滑应用。此外，汽车喷漆行业中，外啮合齿轮泵中的部件会同时遇到磨损、腐蚀和粘连等问题。BALINIT® 涂层的螺钉的实现了高硬度和低摩擦力的完美结合，并在不充分润滑的条件下防止磨损。

## Your advantages with BALINIT® coated pump components.

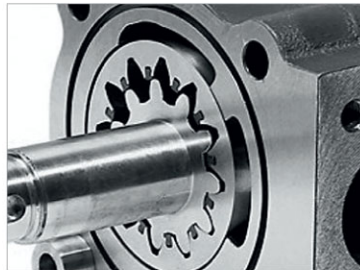
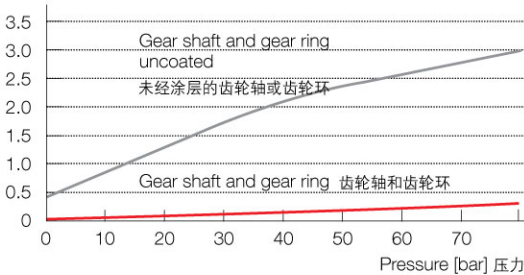
### BALINIT® 涂层的给你带来各种优势

- Excellent wear resistant in metallic sliding (DLC) – 在金属滑动中的出色耐磨表现 (DLC)
- Highest abrasive wear resistance (TiAlN) – 最高的耐磨性 (TiAlN涂层)
- Extended lifetime in severe working conditions – 在恶劣的工作条件下更长的寿命
- Reduce friction and energy consumption – 减少摩擦和能源消耗
- Enable higher efficiency – 实现了更高的效率

## Less wear and leakage free operation.

### 低磨损，无泄漏操作

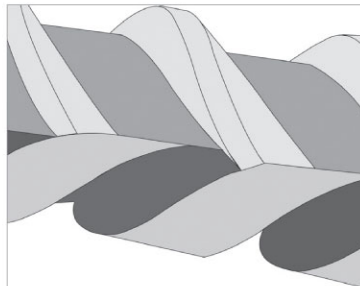
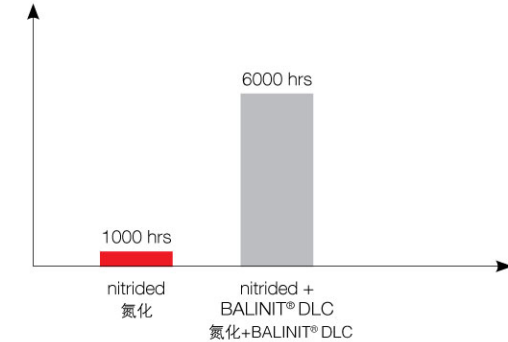
Delivery losses [l/min] 传递损失



BALINIT® FUTURA (TiAlN) coated gears show much less leakage compared to uncoated nitride steel.

BALINIT® FUTURA (TiAlN) 涂层的齿轮相比于没有涂层的氮化钢，泄漏更少。

Lifetime 使用寿命



BALINIT® DLC for screw spindles shows significantly longer lifetime compared to nitride steel DIN 1.7131 in abrasive grinding cooling media.

BALINIT® DLC涂层的螺旋主轴相比于没有涂层的氮化钢DIN 1.7131，在有摩擦的磨削冷却介质中，使用寿命更长。

## We recommend: BALINIT® coatings for high-level efficiency.

### 我们推荐：BALINIT®涂层为您带来更高效率

Coating 涂层	Coating material 涂层材料	Micro-hardness 维氏硬度 (HV 0.05)	Typical thickness 标准厚度	Coefficient of friction 摩擦系数 $\mu$ against steel (dry) 对钢(干切)	Colour 颜色
BALINIT® DLC	a-c:H	2500	2-4 $\mu\text{m}$	0.1 - 0.2	Black-grey 黑灰色
BALINIT® FUTURA	TiAlN	3300	3-7 $\mu\text{m}$	0.5	Violet-grey 紫灰色

There's much more to talk about – please get in touch to discuss what we can do to improve your business.

更多需要了解，请与我们联系

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