



**POWER TRANSMISSION  
OIL & GAS**



# SPECIALISTS FOR OIL & GAS

“For trouble-free operations.”

Norbert, 42, engineer

## WORLDWIDE PARTNER

OPTIBELT provides its customers and corporate partners with engineered drive solutions to meet the extreme demands of the petroleum and natural gas industries. Because of OPTIBELT's incredible durability, performance and global distribution network more customers trust OPTIBELT to keep their operations running every day.

## OPTIBELT SUCCESS STORY

### “URALMASCH” SAVES ON COSTS THANKS TO OPTIBELT

Uralmasch-Ischora is one of the largest heavy machinery and plant engineering concerns in Russia. Since 2010, Uralmasch has been equipping its oil pumping plants with maintenance-free **optibelt RED POWER** high performance belts.

As a result, Uralmasch-Ischora has been able to reduce its operating expenses by 45 percent and optimise the construction of plant machinery due to OPTIBELT's ability to transmit more power than any power transmission product they have ever experienced.



## OPTIBELT SUCCESS STORY

### “LMF” RELIES ON optibelt RED POWER BELTS

The Leobersdorfer Maschinenfabrik (LMF) from Austria is one of the leading manufacturers of high-pressure reciprocating compressor systems for air, natural gas and technical / industrial gases worldwide. These systems are used for the extraction of oil and the compression of natural gas. In these applications there is a high level of stress due to the high performance demands and extreme weather conditions.

This is why LMF uses maintenance-free **optibelt RED POWER** high performance wedge belts. They offer the power, durability and worry-free reliability LMF operations require.



# STRENGTH & ENDURANCE

The extraction of raw materials does not allow any weakness.

Pumping petroleum and natural gas is a technically challenging, complex and costly process where various types of forces occur and have to be dealt with. Therefore, all technical components involved have to be able to withstand a very high level of stress and environmental influences. OPTIBELT power transmission products are engineered for these extreme conditions and can save operation time and money.



## 2. SUCKER-ROD PUMPS

These pumps continuously extract liquid raw materials stored underground, bringing them to the surface.



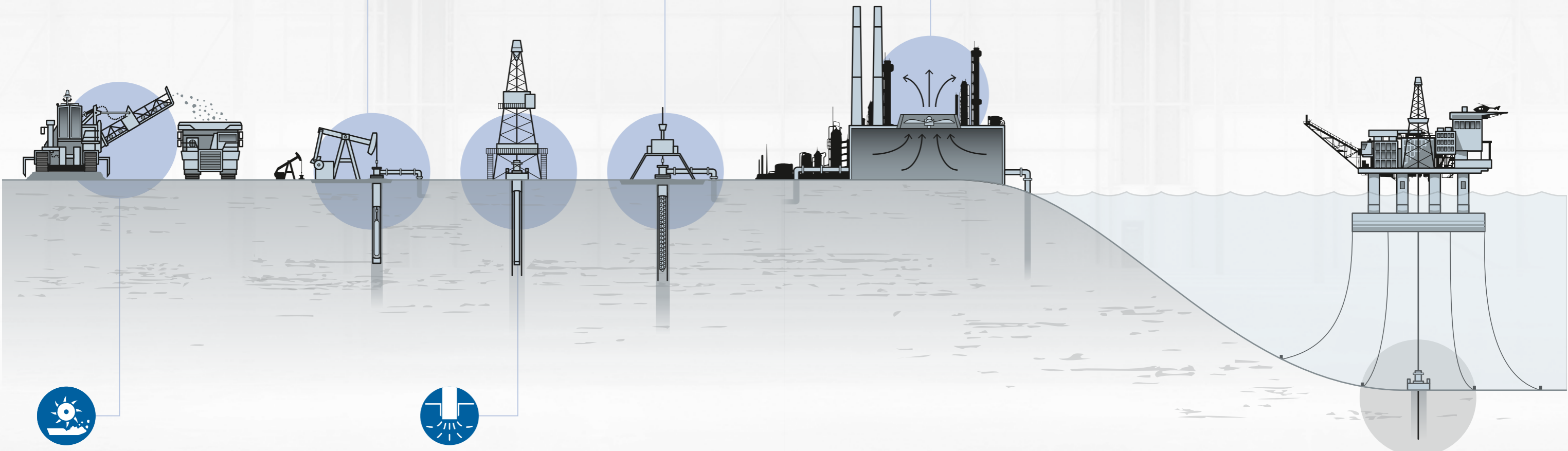
## 4. PCP PUMPS

These pumps are particularly used to extract especially thick and viscous raw materials.



## 5. VENTILATOR FANS

They are used in high capacity cooling or ventilation applications.



## 1. SHALE OIL

Oil trapped in rock is extracted in open-cast mining with high performance milling machines.



## 3. SOLID PUMPS

Motors with a high efficiency and a complex hydraulic system enable continuous wear-free operation.



## 6. DRILLING RIGS

These rigs extract oil or gas in the open sea. Both the environment and the technical process are highly dangerous and leave no room for error.



## optibelt RED POWER 3

### HIGH PERFORMANCE WEDGE BELTS AND KRAFTBANDS

maintenance-free



#### DIMENSIONS

SPZ	1202–3550 mm
SPA	1207–4000 mm
SPB	1250–8000 mm
SPC	2000–10000 mm
3V/9N	47.5–140 inches
5V/15N	53–315 inches
8V/25N	100–475 inches

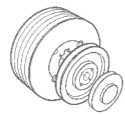
Other profiles + dimensions on request

#### ADVANTAGES AND CHARACTERISTICS

- up to 50% higher performance than standard wedge belts
- maintenance-free, optimal tension during entire life span
- smooth running: belts – edge – V-grooved pulleys
- suitable for back-bend idler pulleys
- precision S=C Plus length tolerance

#### V-GROOVED AND KRAFTBAND PULLEYS

all standard pulleys, special pulleys on request



## optibelt BLUE POWER

### HIGH PERFORMANCE WEDGE BELTS AND KRAFTBANDS

with aramid cord

with aramid cord



#### DIMENSIONS

SPB	1500–8000 mm
SPC	2000–9000 mm
5V/15J	80–315 inches
8V/25N	160–355 inches

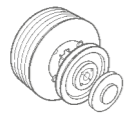
Other profiles + dimensions on request

#### ADVANTAGES AND CHARACTERISTICS

- high power density resulting in favourable cost compared to drives with conventional wedge belts
- approx. 100% higher performance than standard wedge belts
- temperature resistance up to 100°C, resistant to the effects of chemicals

#### V-GROOVED AND KRAFTBAND PULLEYS

all standard pulleys, special pulleys on request



## optibelt VB

### CLASSIC V-BELTS AND KRAFTBANDS



#### DIMENSIONS

A/13	437–5030 mm
B/17	610–7140 mm
C/22	1148–8058 mm
D/32	2075–11 275 mm
E/40	3080–12 580 mm

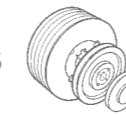
Other profiles + dimensions on request

#### ADVANTAGES AND CHARACTERISTICS

- excellent level of operational reliability
- optimal running characteristics
- special drives are feasible, such as V-flat drives
- variety of special constructions
- precision S=C Plus length tolerance

#### V-GROOVED AND KRAFTBAND PULLEYS

all standard pulleys, special pulleys on request



## optibelt SK

### HIGH PERFORMANCE WEDGE BELTS AND KRAFTBANDS



#### DIMENSIONS

SPZ	487–3550 mm
SPA	732–4500 mm
SPB	1250–8000 mm
SPC	2000–12 500 mm
3V/9N	25–140 inches

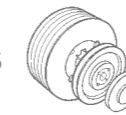
Other profiles + dimensions on request

#### ADVANTAGES AND CHARACTERISTICS

- wrapped wedge belts according to DIN/ISO/BS
- up to 97% efficiency
- variety of special constructions
- high level of power transmission
- precision S=C Plus length tolerance

#### V-GROOVED AND KRAFTBAND PULLEYS

all standard pulleys, special pulleys on request



## optibelt OMEGA FAN POWER

### HIGH PERFORMANCE TIMING BELTS



#### MODELS

**optibelt OMEGA FAN POWER**  
Temperature range  
–30°C to +100°C

**optibelt OMEGA FAN POWER EPDM**  
Extended temperature range  
–40°C bis +140°C

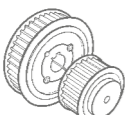
8M FP	2000–2800 mm
14M FP	3150–4578 mm

#### ADVANTAGES AND CHARACTERISTICS

- antistatic, electrically conductive as per ISO 9563
- low noise level through optibelt OMEGA tooth form and fabric
- long lifetime with high power transfer
- versatile applications in standard HTD and RPP timing pulleys
- high efficiency at 98%

#### TIMING BELT PULLEYS

optibelt OMEGA timing belts run in standard HTD and RPP pulleys



## optibelt SUPER X-POWER M=S

### HIGH PERFORMANCE WEDGE BELTS



#### DIMENSIONS

XPZ	587–3550 mm
XPA	707–3550 mm
XPB	1250–3550 mm
3VX/9NX	25–140 inches
5VX/15NX	50–140 inches

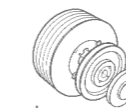
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#### ADVANTAGES AND CHARACTERISTICS

- high performance, low-stretch cords reduce maintenance costs
- performs up to 15% better than standard cogged wedge belts
- excellent resistance to oil and heat
- M=S Matched Sets
- low maintenance

#### V-GROOVED PULLEYS

all standard pulleys, special pulleys on request



# THE OPTIBELT TEAM FOR DEVELOPMENT, APPLICATIONS AND SERVICE



## SOFTWARE TOOLS AND SPECIALIST CONSULTING

OPTIBELT's free CAP software allows users to quickly and easily calculate their specific drives. For more complex drive systems, CAP Professional gives users the ability to perform detailed variable calculations. CAP's efficiency calculator will also compare available drives with those already optimised.

OPTIBELT application engineers are always available to provide advice to customer's operations around the world. They can assist in optimising the drives for entire plant operations.



## SERVICE SUPPORT

To make sure that all machines run reliably, OPTIBELT also offers personal support in drive assembly, maintenance and service on site around the world. OPTIBELT's broad range of tools, measuring devices and service tools allow for easy drive optimisation, maintenance and repair.



## OPTIBELT CUSTOM PRODUCTS

OPTIBELT offers custom high performance products for all applications: Customised products are designed to precisely meet customer's drive application requirements. OPTIBELT engineers develop tailored drive solutions for superior efficiency and safety.

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