

# POWER TRANSMISSION



# SPECIALISTS

# FOR AIR CONDITIONING & FANS



Norbert, 42, engineer



As an experienced specialist in the area of ventilator and compressor technology, OPTIBELT has the ideal drive solution for even the most extreme requirements. OPTIBELT's maintenance-free, high performance belts are highly valued for their reliability and efficiency, which guarantee optimal productivity. They have already proven their worth many times over, which is why they are now in demand across the globe.

# OPTIBELT SUCCESS STORY BETTER SAFETY THANKS TO optibelt RED POWER BELTS



The ventilation systems in the "THORP" reprocessing plant at Sellafield in England are liable to be exposed to high temperatures. Conventional drive belts used in these systems suffered frequent failures as a result. Unplanned maintenance in such a sensitive environment is highly undesirable, so in 2010, after advice from OPTIBELT's engineers, the operator began equipping his plant with optibelt RED POWER maintenance-free wedge belts.

The result: To date, there have been no further drive-related failures in the ventilation systems.

In its ice-cream and biscuit factories, the Swiss food producer Midor AG

OPTIBELT SUCCESS STORY

LONGER LIFE-SPAN WITH

the Swiss food producer Midor AG has to satisfy stringent requirements with regard to the climate in the buildings. Previously, this was only pos-



sible at great expense and with high



# **OPTIMUM PRODUCTIVITY**





### 1. PISTON COMPRESSORS

Tried-and-tested "all-rounders" in various sizes that can be used in a variety of applications: from car workshops through to large-scale industry.





# 3. AIR-CONDITIONING IN BUILDINGS

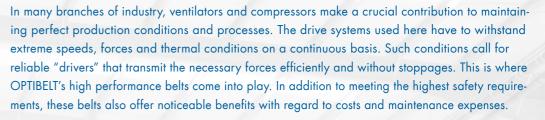
Air-conditioning systems need to be ready for operation around the clock, and this places heavy demands on their drive mechanisms.









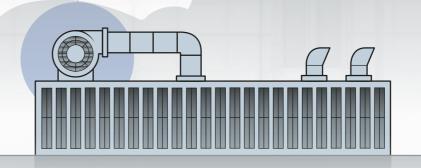




### 5. INDUSTRIAL VENTILATORS

Whether used for cooling, air-conditioning, explosion protection or transport: Today, ventilators form an integral part of production processes.









# 2. SCREW COMPRESSORS

These run particularly quietly and are used mostly in vehicle and hydraulic motors, but also for the circulation of cooling water, for example.





# 4. COOLING SYSTEMS

These are used in many industrial processes to protect machinery from overheating. The equipment used must therefore be robust and reliable.





# **6. HEAT EXCHANGERS**

These systems have to withstand extreme thermal conditions, but still need to function perfectly at all times - this presents a particular challenge for the materials and machinery used.



# optibelt SK S=C Plus

# **HIGH PERFORMANCE WEDGE BELTS**



**V-GROOVED PULLEYS** all standard pulleys, special pulleys on request

# **DIMENSIONS**

SPZ 487-3550 mm

SPA 732-4500 mm

SPB 1250-8000 mm

SPC 2000-12500 mm

3V/9N 25-140 inches

Other profiles + dimensions on request

### **ADVANTAGES AND CHARACTERISTICS**

- polyester cord
- specially developed with general machine construction in mind
- transmits more power than the classic V-belts with comparable top width
- V-belts in reliable S=C Plus quality

# optibelt VB S=C Plus

# **CLASSIC V-BELTS**



V-GROOVED PULLEYS all standard pulleys, special pulleys on request

# **DIMENSIONS**

A/13 437-5030 mm

B/17 610-7140 mm

C/22 1148-8058 mm

D/32 2075 - 11 275 mm

E/40 3080-12580 mm

Other profiles + dimensions on request

### **ADVANTAGES AND CHARACTERISTICS**

- polyester cord
- greater flexibility in bending than wedge belts
- particularly suitable for use in industrial applications
- V-belts in reliable S=C Plus quality

# optibelt RED POWER 3 S=C Plus

### HIGH PERFORMANCE WEDGE BELTS



V-GROOVED PULLEYS all standard pulleys, special pulleys on request

# **DIMENSIONS**

SPZ 1202-3550 mm

1207-4000 mm

1250-8000 mm

2000 – 10000 mm

3V/9N 47.5-140 inches

Other profiles + dimensions on request

# **ADVANTAGES AND CHARACTERISTICS**

- maintenance-free polyester cord
- suitable for back-bend idlers
- up to 50% higher performance than optibelt SK, making it possible to use smaller drives
- V-belts in reliable S=C Plus quality

# optibelt SUPER TX M=S

# **CLASSIC V-BELTS**



# **V-GROOVED PULLEYS** all standard pulleys,



# **DIMENSIONS** ZX / X10 597 - 1522 mm

AX/X13 605-3380 mm

BX / X17 610 - 3390 mm

CX / X22 1058 - 3408 mm

Other profiles + dimensions on request

• extremely small pulley diameters

extremely high power capacity

**ADVANTAGES AND CHARACTERISTICS** 

• extraordinary efficiency

• improved abrasion resistance

• M=S matched sets, can be installed without measuring

# optibelt SUPER X-POWER M=S

# **HIGH PERFORMANCE WEDGE BELTS**



V-GROOVED PULLEYS all standard pulleys, special pulleys on request

# **DIMENSIONS**

XPZ 587-3550 mm XPA 707-3550 mm XPB 1250-3550 mm

XPC 2000-3550 mm

3VX/9NX 25-140 inches 5VX/15NX 50-140 inches

### **ADVANTAGES AND CHARACTERISTICS**

- high level of performance, extremely low stretch
- optimised running characteristics
- M=S matched sets, can be installed without measuring
- low level of maintenance

# optibelt OMEGA HP

# **HIGH PERFORMANCE TIMING BELTS**



TIMING BELT PULLEYS optibelt OMEGA timing belts run in standard HTD and RPP pulleys

# DIMENSIONS

2M HP 74-1224 mm 3M HP 111 - 1569 mm 5M HP 180-2525 mm 8M HP 288-3280 mm 14M HP 966-4578 mm

Other profiles + dimensions on request

### **ADVANTAGES AND CHARACTERISTICS**

- high performance timing belt for extremely large loads at high rotational speeds
- antistatic in accordance with ISO 9563 for profiles 8M HP and 14M HP
- for HTD and RPP timing belt pulleys
- maintenance-free

# optibelt OMEGA FAN POWER

# **HIGH PERFORMANCE TIMING BELTS**



TIMING BELT PULLEYS optibelt OMEGA timing belts run in standard HTD and RPP pulleys

# **MODELS**

# optibelt OMEGA FAN POWER

Temperature range in operation -30°C to +100°C

optibelt OMEGA FAN POWER EPDM Extended operating temperature range -40 °C to +140 °C

### • lower noise level

- wear-resistant and long service life

**ADVANTAGES AND CHARACTERISTICS** 

- antistatic in accordance with ISO 9563
- for HTD and RPP timing belt pulleys
- maintenance-free
- with 8M FP and 14M FP profiles (see product range for lengths)

# optibelt HVAC POWER S=C Plus

### **V-BELTS**



**V-GROOVED PULLEYS** all standard pulleys, special pulleys on request

# **DIMENSIONS**

20-47 inches (450-1150 mm) A/4L - B/5L

For the American market

Other profiles + dimensions on request

# **ADVANTAGES AND CHARACTERISTICS**

- high flexibility and low fatigue
- extremely wear resistant and long lasting
- more heat resistant than standard belts
- minimal belt stretch
- smooth running
- V-belts in reliable S=C Plus quality

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# 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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