



**OPTIBELT WALK B.V.**

## **PRODUCT AND PRODUCTION PORTFOLIO**

# **YOUR SPECIALIST FOR:**

### **SPECIAL GEARS AND GEAR COMBINATIONS OF ALL TYPES**

- Angular gear
- Spur gear with angular output
- Bevel gear
- Hollow shaft gear
- Differential gear
- Gear overhauling
- Spur gear
- Special worm gear
- Slip-on gear
- Winch gear
- Planetary gear

### **GEARS OF ALL TYPES**

- Worm gears and worm shafts
- Bevel gears, straight and helical
- Timing belt pulleys
- Racks
- Spline shafts
- Internal gearing
- Spur gears, straight and helical
- Sprockets
- Spline shaft gears, involute gearing and serrations
- Roller chains
- Gear sets
- Special gears

### **ASSEMBLY OF COMPONENTS**

In our assembly department, we have the option of completing and packing your products. This includes such things as manufacturing, procuring, assembling and storing of components in your assemblies.

We are the ideal partner to produce your assemblies.



## DESIGN AND CALCULATION OF GEARS

We design and calculate your particular gear, taking account of all aspects of the drive process, to guarantee optimum quality of each single part. We offer the intensive close liaison with you necessary to achieve this and bring our extensive technical experience to bear in order to produce a product that meets your expectations and conditions of use.

## SPECIAL GEARS, SPECIAL COMPONENTS TO CUSTOMER REQUIREMENTS

### SOME EXAMPLES:

#### SPUR GEARS AND HELICAL GEARS

- Straight or helical
- Module 0.5 to module 16
- Diameters up to 1400 mm
- Hardened and/or ground teeth from quality 6 upwards

#### RACKS

- Module 0.5 to module 16
- Straight or helical
- Hardened and ground
- Max. tooth width 240 mm
- Max. length 3000 mm (6200 mm)
- Various forms: round, square, hexagonal etc.

#### SPROCKETS

- For roller chains and conveyor chains
- Roller chains from 5 mm pitch up to and including 4.5" pitch, simplex, duplex and triplex
- Chain wheels in shared version
- Conveyor chains in all pitches
- Diameters up to  $\varnothing$  1400 mm
- Hardened teeth

#### BEVEL GEARS

- Straight or helical
- Spiral bevel gears (Klingenberg)
- Lapping of bevel gears
- Spherical toothed bevel gears
- Module 1 to module 10
- Diameters up to  $\varnothing$  750 mm



## STRENGTH AND LIFETIME CALCULATIONS FOR DRIVES AND GEARS

## 3D CAD DRAWINGS, VARIOUS MATERIALS.

### SPLINE SHAFT GEARS

### TIMING BELT PULLEYS

- Inch dimensions MXL, XL, L and H profiles (inch)
- T and AT pulleys also in SE and O series in pitch 2.5-20
- HTD pulleys 3M - 14M
- DELTA CHAIN pulleys 8M and 14M
- STD pulleys 8M
- Diameters up to 1250 mm

### WORM GEARS AND WORM SHAFTS

- Worm gears up to diameter  $\varnothing$  1000 mm
- Single or multiple pitch worms
- Hardened and ground
- Lengths up to 1250 mm between centres

### SPECIAL GEARS

- Internal gears up to  $\varnothing$  1000 mm
- Ratchet gears
- Hirth serration gears
- Multiple splined shafts up to 5000 mm length
- DIN 5480/5482, module 0.8 to module 8.0
- Spline hubs
- Combination gears (spur gear/sprocket)
- Inclined-conical gears
- Ellipse gears
- DP and CP gears
- Crown gears
- Sprockets





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