



Power Transmission

Data sheet

for the calculation/checking of the drives with
**optibelt OMEGA HL, optibelt OMEGA HP and
optibelt OMEGA timing belts**

Company: _____

Street address/P.O. Box number: _____

Town or city/Post code: _____

Contact person: _____

Department: _____ Date: _____

Phone: _____ Fax: _____

E-mail: _____

For test New drive
For pilot production Existing drive
For series production Requirement ___ Pieces/Year

Currently fitted with

Pitch length	Section	Width	Manufacturer

Prime mover

Type (e.g. electric motor, diesel engine 3 cylinders) _____

Size of the starting torque (e.g. $M_A = 1,8 M_N$) _____

Type of start (e.g. star delta) _____

Daily operating time _____ hours

Number of starts _____ per hour per day

Change in the direction of rotation per minute per hour

Power: P normal _____ kW

P maximum _____ kW

or max. torque _____ Nm at n_1 _____ min^{-1}

Speed n_1 _____ min^{-1}

Shaft layout: Horizontal Vertical

Inclined \downarrow _____ °

Maximum permissible shaft loading $S_{a \max}$ _____ N

Pitch diameter or number of teeth on the pulley:

d_{d1} _____ mm z_1 _____ mm

$d_{d1 \min}$ _____ mm $z_{1 \min}$ _____ mm

$d_{d1 \max}$ _____ mm $z_{1 \max}$ _____ mm

Maximum pulley face width _____ mm

Drive ratio i _____

Centre distance a _____ mm

Tensioning/idler pulley: inside idler

outside idler

d_w _____ mm timing pulley

d_a _____ mm flat pulley

Operating conditions: Ambient temperature

Influence of oil

water

acid

dust

Driven machine

Type (e.g. lathe, compressor) _____

Start: under load no load

Type of load: steady pulsating

shock

Required power transmission: P normal _____ kW

P maximum _____ kW

or max. torque _____ Nm at n_2 _____ min^{-1}

Driven speed n_2 _____ min^{-1}

$n_{2 \min}$ _____ min^{-1}

$n_{2 \max}$ _____ min^{-1}

Maximum permissible shaft loading $S_{a \max}$ _____ N

Pitch diameter or number of teeth on the pulley:

d_2 _____ mm z_2 _____ mm

$d_{2 \min}$ _____ mm $z_{2 \min}$ _____ mm

$d_{2 \max}$ _____ mm $z_{2 \max}$ _____ mm

Maximum pulley face width _____ mm

i_{\min} _____ i_{\max} _____

a_{\min} _____ mm a_{\max} _____ mm

in tight side

in slack side

moveable (e.g. spring loaded) _____

fixed

_____ °C minimum

_____ °C maximum

(e.g. oil mist, drops) _____

(e.g. spray water) _____

(type, concentration, temperature) _____

(type) _____

Special drives: e.g. for drives with tensioning/idler pulleys, three or multi-pulley drives or for drives with contra rotating pulleys drawings are necessary to indicate shaft co-ordinates and the load conditions for each pulley and/or idler. Please use the other side of this page for this drawing.