

**technical questionnaire for belt pulley calculation/  
Anfrageformular für Gurttrommeln**



Date / Datum:

Please answer the following questions for our offer: \* if known/ soweit bekannt

quantity/Anzahl

(bei mehreren Trommeln bitte ein Blatt pro Trommel ausfüllen / if there are several drums, please fill out one sheet per drum )

**Pulley Type**

drive pulley/ Antriebstrommel (ATN)   
return (idler) pulley/ Umlenktrommel (UTN)   
snub (bend) pulley/ Drucktrommel (DTN)

Ambient conditions/Umgebungsbedingungen:

Temperatur /Temperature min. °C  
max. °C

pulley diameter / Trommeldurchmesser Ø D [mm]   
shell width / Trommelmantellänge RL [mm]   
belt width / Bandbreite BW [mm]   
bearing center to center distance / Lagermitte EL [mm]   
total shaft length / Achsgesamtlänge AGL [mm]   
shaft diameter at shaft center / mittlerer Achs Ø E1 [mm]   
shaft diameter at locking device / Achsdurchr Ø E [mm]   
shaft diameter at bearing seat / Achsdurchme Ø F [mm]   
wrap angle / Umschlingungswinkel α [°]   
resultant belt tension (Tres=T<sub>1</sub>+T<sub>2</sub>) / resultiere Tres [kN]   
belt tension T1 / Gurtzug T1 T<sub>1</sub> [kN]   
belt tension 2 / Gurtzug T2 T<sub>2</sub> [kN]   
belt speed / Gurtgeschwindigkeit v [m/s]

pillow block bearings YES NO

bearing brand /Lagermarke

**if belt pulley drive pully (AT)**

input torque M [kNm]   
drive power P [kW]  x   
shaft diameter -drive shaft Ø G [mm]   
coupling lenght L1 [mm]   
distance shaft end to keyway L2 [mm]   
key lenght L3 [mm]   
drive shaft lenght K [mm]   
center line bearing to center line gear box B-G [mm]   
center line shaft to center line torque arm S-T [mm]   
weight drive unit / wing arm GD [kg]

**shell design**

cylindrical   
standard crowned  Rulmecca Germany Standard: 1/3 RL x 1,5 mm  
special crowned

crown height CH [mm]   
crown lenght CL [mm]

requested friction lagging   
none   
smooth   
diamond pattern   
ceramic

thickness lagging T [mm]  Lagging type

