Hydrostatic Application Worksheet 240.010

Name: _____

Company: _____

Address: _____

_____

_____

Tel: _____ Fax: _____

E-mail: _____

Loads

For a calculation or a quotation with approximate features of a hydrostatic type of your guide way, we have to calculate the maximum forces on the hydrostatic pockets. Therefore, we need following forces with point of application and direction:

1. Maximum weight and position of the center of mass of complete slide
2. Maximum weight and position of changing buid up construction and workpieces.
3. Maximum force and position of leaddrive and max. accelleration.
4. Size, direction and points of application of max. machining forces

Please give us a drawing of section and a front view of the guide system with size and position measures of the guidesurfaces and position and direction of on the guideway working forces.

Data

If available, please provide the following:

Oil Viscosity: VG_____ [cSt at 40°C] Pump Pressure _____ [bar]

Max. Speed: _____ [m/min] Max. Acceleration_____ [m/min]

Min. Oil Temperature:_____ [°C] (15°C) Max. Oil Temperature:_____ [°C] (35°C)

Min. Stiffness	On center of slide	On edge of slide
Vertical - Direction 1:	_____ [N/µm]	_____ [N/µm]
Horizontal - Direciton 2:	_____ [N/µm]	_____ [N/µm]

Smallest Movement: _____ [µm] Annual Quantity: _____ [pieces]

Production Precision (Parallelism): _____ on length of pockets _____ on length of the slide

Project Goals: _____

_____

_____

Machine Description: _____

_____

_____

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