Hydrostatic Application Worksheet

Name: ________________________________
Company: ______________________________
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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 build up construction and workpieces.
3. Maximum force and position of lead drive and max. acceleration.
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]
  - Horizontal - Direction 2: __________ [N/μm]
- Smallest Movement: ________________ [μm]
- Annual Quantity: ________ [pieces]
- Production Precision (Parallelism): __________ on length of pockets __________ on length of the slide
- Project Goals: _______________________________________________________________________
  ___________________________________________________________________________________
  ___________________________________________________________________________________

Machine Description: ____________________________________________________________________
  ___________________________________________________________________________________
  ___________________________________________________________________________________