Guide for a basic calculation of the static load

To calculate the static load capacity of a single levelling component in a machine/ structure where the global load is uniformly distributed among the components is enough to divide the load of the structure for the number of levelling legs.

$$\frac{\text{Total weight of machine}}{\text{Support number}}$$

In case the machine/structure is subjected to a dynamic load, for example the movement caused by maintenance or assembling works we suggest to double the total weight of the structure to gain security.

$$\frac{\text{Total weight of machine x 2}}{\text{Support number}}$$

In case some operators have to act on the structure we suggest to add 1500N to the load capacity of each component:

$$\frac{\text{Total weight of machine X2}}{\text{Support number}} + 1500\text{N x operators number}$$

In case the machine is subjected to constant vibrations it is advisable to evaluate the nature of the stress in order to find out the adequate levelling system.