

Selection criteria for suspension systems

Mechanical stress/load capacity

Differently assembled suspension systems can cope with different levels of stress (loads).

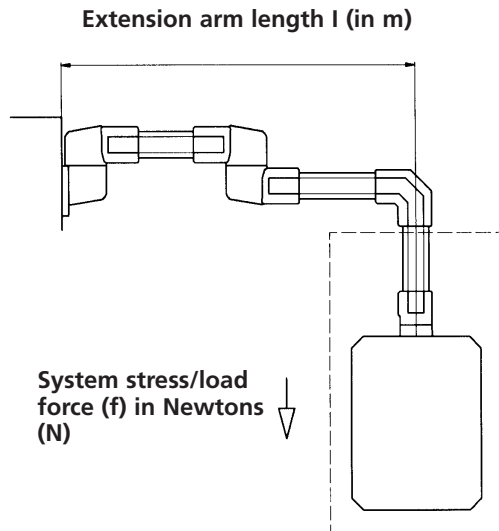
The mechanical stress (load) induced by the weight of the enclosure to be supported (with all internal components installed) combined with the desired length of the extension arm is an important consideration when selecting the correct suspension system.

System selection is made easier by using the opposite diagram. If a swivel tilt coupling is used to support the enclosure, a maximum load of 300N will apply.

To determine the force f (system stress/load) from the housing weight m :
 $f \text{ (N)} = m \text{ (kg)} \times g \text{ (ms}^2\text{)}$
 system stress/load f = enclosure weight m multiplied by the acceleration due to gravity g
 $f \text{ (N)} = m \text{ (kg)} \times 9.81 \text{ (ms}^2\text{)}$

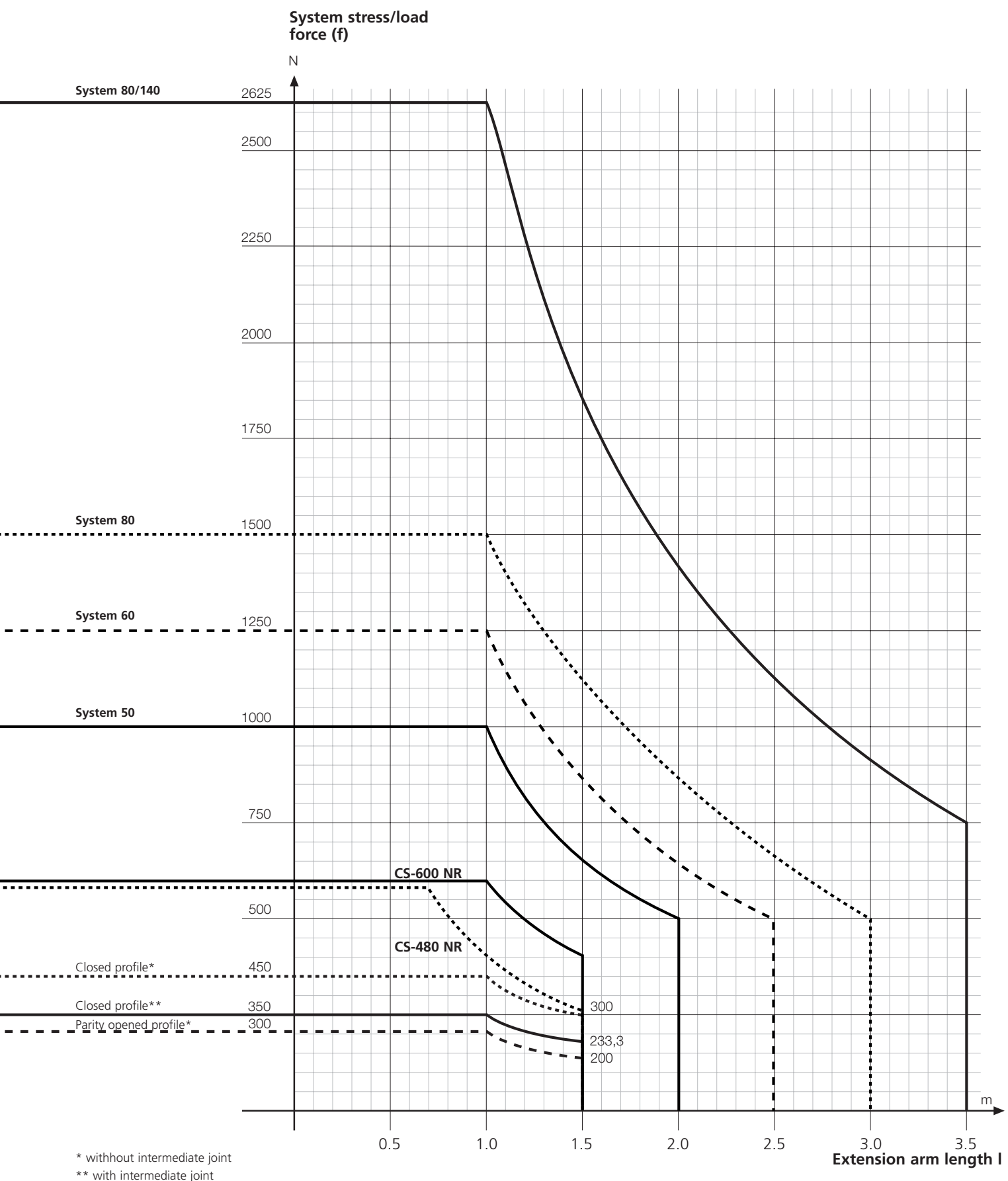
Heavy-duty suspension system CS-2000

Suspension system for medium to heavy loads CS-2000



Stainless steel suspension system CS-600 NR CS-480 NR

Light-weight suspension system CS-2000 SL



* without intermediate joint
 ** with intermediate joint