Calculation Formula for Attachments

stabau
we create new levels

The result of this calculation is only a reference value. Reductions of load capacity through i.e. greater lifting heights (high load centers) are not considered. For a precise calculation please contact your lift truck manufacturer. The nominal load capacity of the attachment may not be exceeded!

Residual load capacity for:

truck _____ ; model _____ ; load capacity **Q_{St}** _____ kg

load center **C**: _____ mm; thickness original forks **S**: _____ mm; dimension **X**: _____ mm

Attachment:

make _____ ; model _____ ; load capacity _____ kg at _____ mm

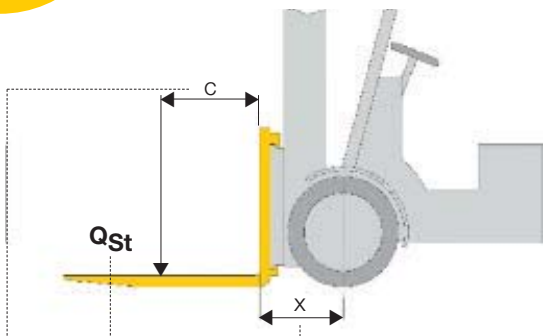
lost load center **V***: _____ mm; center of gravity **CoG**: _____ mm; weight **G_A**: _____ kg

residual load capacity **G_L**: _____ kg; load depth **L**: _____ mm

*incl. fork thickness / up to back face

Does not apply to integral attachments!

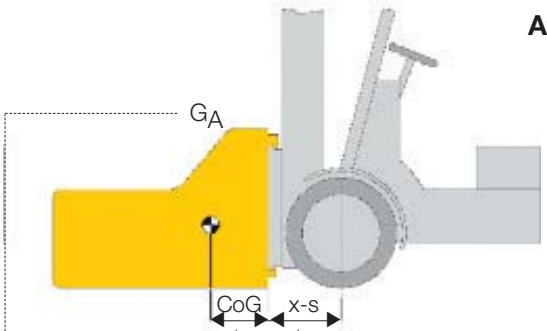
Lift truck moment



Q_{St} [ ] x (**X** [ ] / 1000 + **C** [ ] / 1000) = [ ] kg m

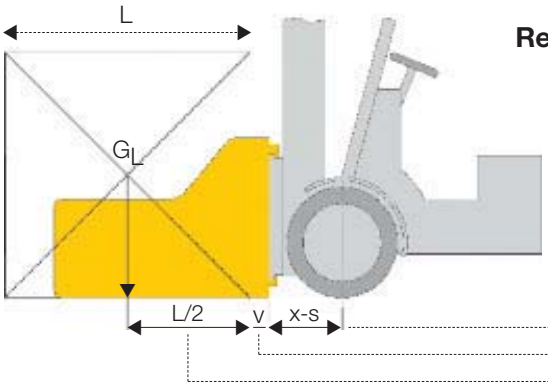
(-)

Attachment moment



G_A [ ] x (**X-S** [ ] / 1000 + **CoG** [ ] / 1000) = [ ] kg m

Residual load capacity



$$\frac{\text{residual load moment kg m } [\ ]}{\text{X-S } [\ ]/1000 + \text{V } [\ ]/1000 + \frac{\text{L}}{2} [\ ]/1000} = [\ ] \text{ kg}$$