Calculation Formula for Attachments

stabau
Setting the standard.

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

$$Q_{St} \boxed{} \times \left(X \frac{\boxed{}}{1000} + C \frac{\boxed{}}{1000} \right) = \boxed{} \text{ kg m}$$

(-)

Attachment moment

$$G_A \boxed{} \times \left(X\text{-}S \frac{\boxed{}}{1000} + CoG \frac{\boxed{}}{1000} \right) = \boxed{} \text{ kg m}$$

Residual load capacity

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