

HYDRAULIC BUFFER KHP

Indications for buffer dimensioning Please return this sheet to info@koro-riw.com

Company:	Project:
	Name:
	Date:
General information	Case of application
desired buffer size size x stroke:	Horizontally moved mass
quantitypcs.	a) mass without propelling force (motor switched off) b) mass with propelling force (motor runs)
Fastening type	if b) sum of motor power per crane sidekW motor
front flange "F" back flange "B"	, breakdown torque (Mk/Mn)
Field of application	Ambient temperatures
outdoor application indoor applica	ation from°C up to°C
Definitions and calculation $\begin{array}{c} \text{R1Rn} \\ \text{m}_{\text{pu}} \\ \text{V} \\ \text{E}_{\text{pu}} \\ \text{F}_{\text{pu}} \end{array}$	 [kg] wheel loads resulting from deadweight and fixed attached loads [kg] impact mass on one buffer [m/s] max. travel speed [kJ] energy acting on one buffer [kN] buffer end force
Determine the masses acting on the buffer mpu	Span approach R1 R3 R2
For Cranes: $m_{pu} = R1+R2+R3+R4+Rn^{-1}$ ¹⁾ for cranes with more than 4 wheels/side For Trolley: $m_{pu} = max$. aus (R1+R3) oder (R2+R4)	R1 R2 R4 R4 R1 R3 wheel base
Impact conditions	•
Case I VI	1 Crane/Trolley weightkg
Case II	Crane/Trolley nominal speedm/min
Case III V2	pendelation fixed load
Case IV V2	Crane/Trolley drive switched off before buffer impact
Ambient conditions normal dry	humid oily dusty aggressive
Type of operation	Technical design limits of the construction
emergency stop application	max. perm. buffer forcekN
impact at creep speed	max. perm. buffer stroke mm
operational actuation	max. perm. deceleration m/s²
stroke frequency1/h	
Any comments or special requirements?	Design data of the buffer
	impact mass per buffer m _{pu} [kg]
	impact speed v [m/s]
	propelling force F _v [N]
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