

# DESIGN CRITERIA FOR CRANE BUFFERS

Customer/ User \_\_\_\_\_

Project \_\_\_\_\_

1. Operation speed on track  $v_s =$  \_\_\_\_\_ m/s
2. Impact speed at track end  $v_e =$  \_\_\_\_\_ m/s
3. Power- off switch at track end  yes  no
4. Average impact height above top of rail  $h =$  \_\_\_\_\_ mm
5. Total impact load of each buffer <sup>\*1)</sup>  $M_{buffer} =$  \_\_\_\_\_ kg
6. Mass of loading bridge  $m_{bridge} =$  \_\_\_\_\_ kg
7. Mass of trolley  $m_{trolley} =$  \_\_\_\_\_ kg
8. Total mass of load  $m_{load} =$  \_\_\_\_\_ kg
9. Max load capacity  swinging  fixed
10. Weight of crane (incl. load, trolley and loading bridge)  $m_{total} =$  \_\_\_\_\_ kg
11. Gauge of crain rail way  $l =$  \_\_\_\_\_ m
12. Rail section = \_\_\_\_\_ actual height = \_\_\_\_\_ mm
13. Rail fastening on  on sleeper  direct fixation on concrete  
 others: \_\_\_\_\_
14. Buffer existing at crane  yes  no

If „yes“: Buffer type: \_\_\_\_\_

Energy absorption	$E_{kin} =$	_____	kJ
max. End- force	$F_{max.} =$	_____	kN
Stroke of buffer	$l_{stroke} =$	_____	mm

Other details: \_\_\_\_\_  
\_\_\_\_\_

\*1) In case, this load is known, the questions under 6,7 and 8 need not to be answered