

Lehrstuhl für Maschinenelemente und Fördertechnik
Ruhr-Universität Bochum, D-44780 Bochum

Süther & Schön GmbH
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45309 Essen

Prof. Dr.-Ing. Gerhard Wagner

Fakultät für Maschinenbau

Lehrstuhl für

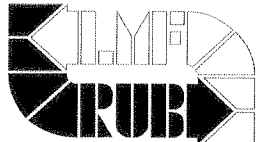
Maschinenelemente und Fördertechnik

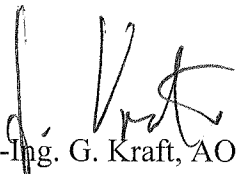
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		Type testing acc. DIN EN 13411 - 6 on casted asymmetric wedge socket Part 2(2) Fatigue test	
Company: Süther & Schön GmbH			
Rope			
Ø	Construction		Minimum breaking force F_{min} [kN]
30 mm	CASAR Eurolift (1960 N/mm ²)		817,40
Asymmetric wedge socket NG 700			
	socket body	wedge with two holes	pin
item-no.	KK2 2732 00 000 148	B01 2732 00 000 148	B01 2732 00 000 148
new item-no.	KK2 2730 00 000 411	B01 2732 00 000 411	B01 2732 00 000 148
material	GS 26 CrMo 4V1	GS 45	42 CrMo4 V
Fatigue test			
no.	Minimum force $F_u = 0,15 \cdot F_{min}$ [kN]	Maximum force $F_o = 0,3 \cdot F_{min}$ [kN]	Load cycles
141.06	122,61	245,22	75.000
results	The 2 test samples fulfil the fatigue test (6.24) . The non destructive testing of the component parts by dye penetrant method did not exhibit visable cracks.		


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