

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

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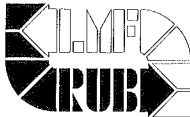
Maschinenelemente und Fördertechnik

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November 12, 1998

		Proof of the load capacity of asymmetric wedge socket clevis (according to DIN 43148)	
Company: Süther & Schön GmbH			
Rope			
Ø	Construction		Minimum breaking force
19 mm	CASAR EUROLIFT - bk - 2160 zZ		352.800 N
Wedge socket Gr. 550			
	socket body	wedge	pin
item - no.	KK2 1920 00 000 148	K02 1920 00 000 148	B01 1620 00 000 148
material	GS 26 CrMo4V1	GTW 40 - 05	42 CrMo4V
Fatigue test			
no.	Minimum force $F_u = 70d^2 [N]$	Maximum force $F_o = 280d^2 [N]$	Load changes
98.90	25.270	101.080	500.000
Result	The two socket bodies, which were tested, withstood 500.000 load changes. Socket body, wedge and pin do not exhibit visible cracks. The tested wire ropes yielded by breaking of strands at the entry of the socket.		


Dr.-Ing. G. Kraft, AOR