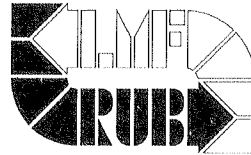


Lehrstuhl für Maschinenelemente und Fördertechnik
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45309 Essen



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Fakultät für Maschinenbau

Lehrstuhl für

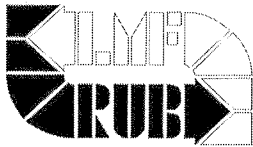
Maschinenelemente und Fördertechnik

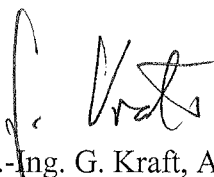
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August 7, 2003

		Proof of the load capacity of a symmetrical wedge socket clevis (welded socket body acc. DIN 15315)	
		Company: Süther & Schön GmbH	
Rope			
∅	Construction		Minimum breaking force
11 mm	Brugg Tragseil HRS - SES - 1570 sZ		79,56 kN
Wedge socket Gr . 11			
	socket body	wedge	pin
item - no	SS1 0911 00 000 315	K01 0911 00 000 315	B01 0911 00 000 315
material	S235 JR EN 10025	EN-GJMW-400-5 EN 1562	9SMnPb28K
Fatigue test			
no.	Minimum force $F_u = 70d^2$ [N]	Maximum force $F_o = 280d^2$ [N]	Load cycles
05.03	8.470	33.880	500.000
06.03	8.470	33.880	500.000
results	The 4 socket bodies, wich were tested, withstood 500.000 load cycles.The socket bodies,wedges and pins did not exhibit visible cracks.		



Dr.-Ing. G. Kraft, AOR