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DEPARTMENT MECHANICAL ENGINEERING

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	Type testing of no	n-stan	dardised wedge	sockets		
Type testing of non-standardised wedge sockets Standard based on DIN EN 13411-6						
Chapter	6.2.4 Fatigue test					
Client	Süther & Schön GmbH					
Wedge socket	belt socket NG 25 short					
Belt						
Width	Denomination			Min. breaking force F _{min}		
25,0 mm	XH	XHP II			37.00 kN	
Wedge socket						
	Socket body	Wedge		Pin		
Item no.	RG1 0025 KA 000 SSN	K00 0025 00 000 SSN		B01 0025 00 000 SSN		
Material	G 20 Mn 5	AlSiCu3		8.8		
Fatigue test						
No.	Min. cycle force = 0.05*Fmin		Max. cycle force = 0.5*Fmin		Load cycles	
08/16	1.85 kN		18.50 kN		80,000	
Annotation	With the exception of the following points the test was in accordance with DIN EN 13411-6: Increased test loads for proving an advanced loading capacity (cycle force from 1/24 to 1/12 of Fmin, 2,000,000 cycles). [standardised test loads (for comparison): cycle force from 15% to 30% of Fmin, 75,000 cycles].					
Result	The fatigue test (6.2.4) did not lead to any signs of permanent deformations or indications of cracks. The crack test was carried out by Süther & Schön GmbH (annex). Hence the samples meet the requirements of 5.3.3 and the test has been passed.					

Dipl./Ing. J. Höhbusch 12 July 2016

12 July 2016