RUHR UNIVERSITÄT BOCHUM RUB

RUHR-UNIVERSITÄT BOCHUM | 44780 Bochum | Germany

DEPARTMENT MECHANICAL ENGINEERING

Resarch Group Construction Machines and Materials Handling

Building IC 1/151
Universitätsstraße 150, 44801 Bochum

PROF. DR.-ING. JAN SCHOLTEN

Fon +49 (0)234/32-28723
Fax +49 (0)234/32-14161
sekretariat@bmft.rub.de

Süther & Schön GmbH
Bonifaciusring 18
45309 Essen

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 30**

Belt

Width	Denomination	Min. breaking force F_{min}
30,0 mm	XHP II	46.00 kN

Wedge socket

	Socket body	Wedge	Pin
Item no.	RG1 0030 00 185 SSN	K00 0030 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
30/15	2.30 kN	23.00 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
21 January 2016
(valid only if signed)