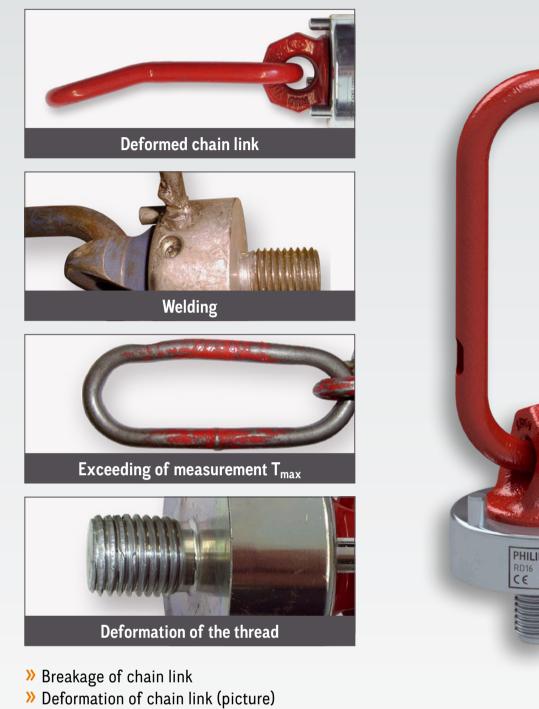
Replacement state of Wirbelstar

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CRITERIA OF REPLACEMENT STATE OF THE WIRBELSTAR

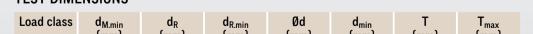
Lifting devices are strictly recommended to be insprected by an expert annually considering the following criteria. Depending on the working conditions the inspections might be necessary in shorter intervals than only once a year. This might be caused by frequent use, increased wear, corrosion or heat treatment.

Prior inspection of the Wirbelstar it must be cleaned. Within an inspection the following points have to be considered:

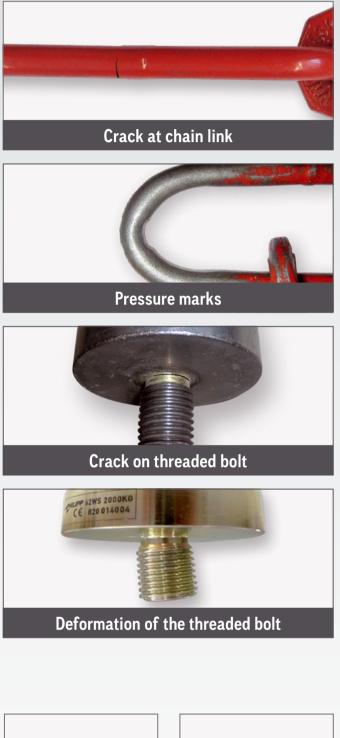


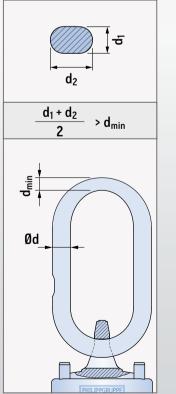
- » Pressure marks on chain link caused by rigging hardware (picture)
- » Cracks or capacity reducing corrosion pits (picture)
- >> Twisted threaded bolt (picture)
- Damaged threaded bolt (picture)
- >> Welding or other strong heat influences (picture)
- » Marking not readable anymore
- » Exceeding of upper or lower test dimensions (picture)

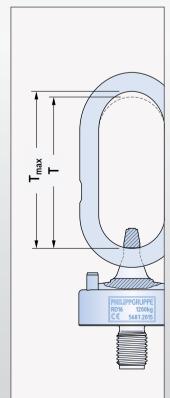
TEST DIMENSIONS



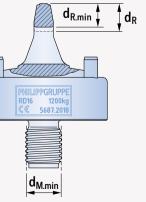








		lmmJ	(mmJ	lmmJ	lmmJ	(mmJ	lmmJ	lmmJ	
	12	11,50	10,0	9,0	10,0	9,0	85	89	
	14	13,50	10,0	9,0	10,0	9,0	85	89	
	16	15,45	10,0	9,0	10,0	9,0	110	116	V
	18	17,40	17,0	15,3	16,0	14,4	95	100	
	20	19,40	17,0	15,3	16,0	14,4	102	107	
	24	23,40	17,0	15,3	18,0	16,2	125	131	
	30	29,40	22,0	19,8	22,0	19,8	148	155	
	36	35,40	28,0	25,2	26,0	23,4	160	168	
	42	41,20	28,0	25,2	26,0	23,4	160	168	
	52	51,20	30,0	27,0	36,0	32,4	220	231	
	56	55,20	30,0	27,0	36,0	32,4	220	231	
	60	59,20	30,0	27,0	36,0	32,4	220	231	



If one of the above-mentioned points is fulfilled the Wirbelstar has reached its replacement state and must not be used anymore.



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TO BE REPLACED