

Riveted vs. Welded = Break load

DIN8167 no.	Riveted breaking load	1/6 Allowed break load	Welded Breaking load	1/6 Allowed break load	Allowed break load increase
M160	~160 kN	~26kN	~208kN WP	~35 kN	+34,6%
M224	~224kN	~37kN	~290kN WPB	~48 kN	+29,7%
M315	~315kN	~52kN	~410kN WPB	~70kN	+34,6%
M450	~450kN	~75kN	~585kN WPB	~97kN	+29,3%
M630	~630kN	~105kN	~819kN WPB	~137kN	+30,5%



According to DIN8167 only 95% of the listed breakload can be used as reference for the breakload calculations for construction purposes.

DIN8167 no.	Riveted breaking load	1/6 Allowed break load	Welded Breaking load	1/6 Allowed break load	Allowed break load increase
M160	~152kN	~25kN	~197,6kN WP	~33kN	+32%
M224	~212 kN	~35kN	~275,5kN WPB	~46kN	+ 31,4%
M315	~299kN	~50kN	~389,5kN WPB	~65kN	+ 30%
M450	~428kN	~71kN	~555,8kN WPP	~92,6kN	+ 30,4%
M630	~599 kN	~100kN	~778kN WPB	~129,7kN	+ 29,7%



ScanChain

WPB = Welded Pin and Bush

Above allowed load calculated at a safety margin at 1/6

ScanChain does not take any responsibility for the calculations and/or extracted information in this presentation