

# Lifting Points - for bolting -



Maximum transport weight "G" in "tonnes" with different lifting methods



Complies with the machinery directives 98/37/CE

Thread sizes <b>M 6- M 150</b> inch thread (UNC,...) and special lengths available on request		PP-S (Vario) PowerPoint-Star			PP-B (Vario) PowerPoint-B			PP-VIP (Vario) PowerPoint-VIP			VLBG-Load ring (Vario)											WBG-V Load ring (Vario)										
Number of legs	Load direction	Thread size	type																													
			PP-S 0.63 t	PP-S 1.5 t	PP-S 2.5 t	PP-S 4 t	PP-S 5 t	PP-S 8 t	VLBG 0.3 t	VLBG 0.63 t	VLBG 1 t	VLBG 1.5 t	VLBG 2.5 t	VLBG 4 t	VLBG 4 t	VLBG 5 t	VLBG 7 t special	VLBG 8 t	VLBG 10 t	VLBG 15 t	VLBG 20 t	VLBG (3) M16 RS 1t	VLBG (3) M20 RS 2t	WBG-V 0.3 t	WBG-V 0.45 t	WBG-V 0.6 t	WBG-V 1.0 t	WBG-V 1.3 t	WBG-V 1.8 t	WBG-V 2 t	WBG-V 3.5 t	WBG-V 5 t
			M 12	M 16	M 20	M 24	M 30	M 36	M 8	M 10	M 12	M 16	M 20	M 24	M 27	M 30	M 36	M 42	M 42	M 48	M 16	M 20	M 8	M 10	M 12	M 14	M 16	M 18	M 20	M 24	M 30	
	1 0°		0.6	1.5	2.5	4	6.7	10	0.3	0.6	1	1.5	2.5	4	4	5	7	8	10	15	20	1	2	0.6	0.9	1.2	2.0	2.6	3.6	4	7	10
	2 0°		1.2	3	5	8	13.4	20	0.6	1.2	2	3	5	8	8	10	14	16	20	30	40	2	4	1.2	1.8	2.4	4.0	5.2	7.2	8	14	20
	1 90°		0.6	1.5	2.5	4	5	8	0.3	0.6	1	1.5	2.5	4	4	5	7	8	10	15	20	1	2	0.3	0.45	0.6	1.0	1.3	1.8	2	3.5	5
	2 90°		1.2	3	5	8	10	16	0.6	1.2	2	3	5	8	8	10	14	16	20	30	40	2	4	0.6	0.9	1.2	2.0	2.6	3.6	4	7	10
	2 0-45°		0.8	2.1	3.5	5.6	7.1	11.2	0.4	0.8	1.4	2.1	3.5	5.6	5.6	7	9.8	11.2	14	21	28	1.4	2.8	0.4	0.6	0.8	1.4	1.8	2.5	2.8	4.9	7
	2 45-60°		0.6	1.5	2.5	4	5	8	0.3	0.6	1	1.5	2.5	4	4	5	7	8	10	15	20	1	2	0.3	0.4	0.6	1.0	1.3	1.8	2	3.5	5
	2 unsymmetrical		0.6	1.5	2.5	4	5	8	0.3	0.6	1	1.5	2.5	4	4	5	7	8	10	15	20	1	2	0.3	0.4	0.6	1.0	1.3	1.8	2	3.5	5
	3+4 0-45°		1.3	3.2	5.3	8.4	10.5	16.8	0.6	1.3	2.1	3.1	5.2	8.4	8.4	10.5	14.7	16.8	21	31.5	42	2.1	4.2	0.6	0.9	1.2	2.1	2.7	3.7	4.2	7.3	10.5
	3+4 45-60°		0.9	2.2	3.8	6	7.5	12	0.4	0.9	1.5	2.2	3.7	6	6	7.5	10.4	12	15	22.5	30	1.5	3	0.4	0.6	0.9	1.5	1.9	2.7	3	5.2	7.5
	3+4 unsymmetrical		0.6	1.5	2.5	4	5	8	0.3	0.6	1	1.5	2.5	4	4	5	7	8	10	15	20	1	2	0.3	0.4	0.6	1.0	1.3	1.8	2	3.5	5
		Thread size	M 12	M 16	M 20	M 24	M 30	M 36	M 8	M 10	M 12	M 16	M 20	M 24	M 27	M 30	M 36	M 42	M 42	M 48	M 16	M 20	M 8	M 10	M 12	M 14	M 16	M 18	M 20	M 24	M 30	

## RUD Lifting Points

- All parts are either 100 % crack detected or proof loaded accord. to EN 1677.
- All original bolts from RUD are 100 % crack detected.
- Loadable in any direction. Safety factor 4 : 1.
- Types VRS, VRM and VLBG have to be adjusted to the load direction.
- RUD patented features such as clamping spring (VLBS) for noise reduction and distance lugs for a perfect root pass weld increase the ease of use.

- RUD CD-ROM and slide chart "RUD-MULTI-MASTER" facilitate the correct selection of lifting points.
- Low installation height, high dynamic and static strength.
- RUD Lifting Points are in accordance with DIN EN 818 and 1677 with a dynamic loading of more than 20,000 load cycles.  
The BG\* recommends: At high dynamic applications with high load cycles (permanent operation), the WLL must be reduced.

\*BG - German Employers Liability Insurance

Subject to technical alternations!

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Complies with the machinery directives 98/37/CE

WBG Load ring													VRS Starpoint Vario eyebolt													INOX-STAR													RS & RM high-tensile eyebolt/eyenut													RBG/VRBG Load ring												
Page 11													Page 14/16													Page 17													Page 18																									
WBG 6-special	WBG 8 t	WBG 8-special	WBG 10 t	WBG 10 t	WBG 10-special	WBG 15 t	WBG 15 t	WBG 15-special	WBG 25 t	WBG 30 t	WBG 35 t	WBG 35-special	VRS M8	VRM M8	VRS M10	VRM M10	VRS M12	VRM M12	VRS M16	VRM M16	VRS M20	VRM M20	VRS M24	VRM M24	VRS M30	VRM M30	VRS M36	VRS M42	VRS M48	INOX M12	INOX M16	INOX M20	INOX M24	INOX M30	RS M6	RS M8	RS M10	RS M12	RS M14	RS M16	RS M20	RS M24	RS M30	RS M36	RS M42	RS M48	RBG 3 t	VRBG 10 t	VRBG 16 t	VRBG 30 t	VRBG 50 t	VRBG 80 t												
M 33	M 36	M 39	M 42	M 48	M 42-52	M 56	M 64	M 56-85	M 72-76	M 80-85	M 90	M 90-150	M 8	M 10	M 12	M 16	M 20	M 24	M 30	M 36	M 42	M 48	M 12	M 16	M 20	M 24	M 30	M 6	M 8	M 10	M 12	M 14	M 16	M 20	M 24	M 30	M 36	M 42	M 48	M 16	M 20	M 30	M 30	M 36	M 48																			
12.5	12.5	12.5	16	16	16	25	25	25	35	35	35	35	1	1	2	4	6	8	12	16	24	32	1.2	2.4	3.6	5.2	-	0.4	0.8	1	1.6	3	4	6	8	12	16	24	32	3	10	16	30	50	80																			
25	25	25	32	32	32	50	50	50	70	70	70	70	2	2	4	8	12	16	24	32	48	64	2.4	4.8	7.2	10.4	-	0.8	1.6	2	3.2	6	8	12	16	24	32	48	64	6	20	32	60	100	160																			
6 (7.5)	8 (10)	8 (10)	10 (12.5)	10 (12.5)	10 (12.5)	15 (18)	15 (18)	15 (18)	25 (30)	30 (35)	35 (40)	35 (40)	0.4	0.4	0.7	1.5	2.3	3.2	4.5	7	9	12	0.6	1.2	1.8	2.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	10	16	30	50	80																	
12 (15)	16 (20)	16 (20)	20 (25)	20 (25)	20 (25)	30 (36)	30 (36)	30 (36)	50 (60)	60 (70)	70 (80)	70 (80)	0.8	0.8	1.5	3	4.6	6.4	9	14	18	24	1.2	2.4	3.6	5.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	20	32	60	100	160																
8.4 (10.5)	11.2 (14)	11.2 (14)	14 (17.5)	14 (17.5)	14 (17.5)	21 (25.2)	21 (25.2)	21 (25.2)	35 (42)	42 (49)	49 (56)	49 (56)	0.56	0.56	1	2.1	3.2	4.5	6.3	9.8	12.6	16.8	0.8	1.7	2.5	3.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.2	14	22.4	42	70	112																
6 (7.5)	8 (10)	8 (10)	10 (12.5)	10 (12.5)	10 (12.5)	15 (18)	15 (18)	15 (18)	25 (30)	30 (35)	35 (40)	35 (40)	0.4	0.4	0.7	1.5	2.3	3.2	4.5	7	9	12	0.6	1.2	1.8	2.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	10	16	30	50	80																
6 (7.5)	8 (10)	8 (10)	10 (12.5)	10 (12.5)	10 (12.5)	15 (18)	15 (18)	15 (18)	25 (30)	30 (35)	35 (40)	35 (40)	0.4	0.4	0.7	1.5	2.3	3.2	4.5	7	9	12	0.6	1.2	1.8	2.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	10	16	30	50	80																
12.6 (15.7)	16.8 (21)	16.8 (21)	21 (26.2)	21 (26.2)	21 (26.2)	31.5 (38)	31.5 (38)	31.5 (38)	52.5 (63)	63 (73.5)	73.5 (84)	73.5 (84)	0.8	0.8	1.5	3.1	4.8	6.7	9.4	14.7	18.9	25	1.3	2.5	3.8	5.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.3	21	33.6	63	105	168																
9 (11.2)	12 (15)	12 (15)	15 (18.8)	15 (18.8)	15 (18.8)	22.5 (27)	22.5 (27)	22.5 (27)	37.5 (45)	45 (52.5)	52.5 (60)	52.5 (60)	0.6	0.6	1.1	2.2	3.4	4.8	6.7	10.5	13.5	18	0.9	1.8	2.7	3.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.5	15	24	45	75	120																
6 (7.5)	8 (10)	8 (10)	10 (12.5)	10 (12.5)	10 (12.5)	15 (18)	15 (18)	15 (18)	25 (30)	30 (35)	35 (40)	35 (40)	0.4	0.4	0.7	1.5	2.3	3.2	4.5	7	9	12	0.6	1.2	1.8	2.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	10	16	30	50	80															
M 33	M 36	M 39	M 42	M 48	M 42-52	M 56	M 64	M 56-85	M 72-76	M 80-85	M 90	M 90-150	M 8	M 10	M 12	M 16	M 20	M 24	M 30	M 36	M 42	M 48	M 12	M 16	M 20	M 24	M 30	M 6	M 8	M 10	M 12	M 14	M 16	M 20	M 24	M 30	M 36	M 42	M 48	M 16	M 20	M 30	M 30	M 36	M 48																			

We recommend to use either "VRS Starpoint" or "PowerPoint" which can be adjusted to the direction of pull!

Subject to technical alternations!



CD-ROM for the calculation and selection of the correct lifting point. We provide you with the geometric datas for your design. **New: 3D CAD datas.**

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