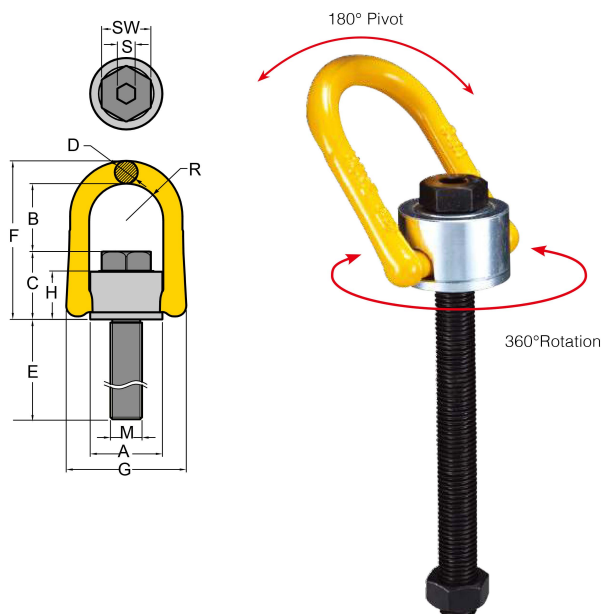


Swivel Hoist Ring Long Bolt - type 231 metric thread









- Rotates through 360° and pivots 180°, and simultaneously allows lifting from any direction.
- Manufactured from forged alloy steel, quenched and tempered.
- Manufactured and tested in accordance with EN1677-1.
- Load rated parts are 100% magnaflux crack detected.
- Individual forged parts and cap screw are traceable to Test Certification.
- Bolts are Metric thread (ASME / ANSI B18.3.1M).
- Proof tested to 2.5 times the WLL.
- Fatigue rated to 1.5 times the WLL.
- Design Factor 4 : 1.
- All YOKE Lifting points meet or exceed all the requirements of ASME B30.26.
- Quick and simple assembly, just a tapped hole is required.



DIMENSIONAL SPECIFICATIONS

Part Code	WLL	Thread	Thread	Pitch	A	B	C	D	F	G	H	R	S	SW	Torque	Mass
	t	M	E	DIN13	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	in Nm	Kg
8-231-005 /105L	0.5	M8	83	1.25	33	42	28	11	80	58	23	17	6	13	30	0.3
8-231-007 /125L	0.7	M10	103	1.5	33	41	29	11	80	58	23	17	6	17	60	0.4
8-231-010 /150L	1.0	M12	128	1.75	33	40	31	11	80	58	23	17	8	19	100	0.4
8-231-020 /185L	2.0	M16	149	2	50	54	46	17	117	90	36	27	10	24	150	1.1
8-231-030 /230L	3.0	M20	194	2.5	50	52	49	17	117	90	36	27	12	30	250	1.4
8-231-050 /265L	5.0	M24	221	3	72	82	59	25	163	125	44	37	14	36	400	3.2
8-231-078 /340L	7.8	M30	278	3.5	87	94	81	30	204	148	62	46	17	46	500	6.3
8-231-125 /300L	12.5	M36	225	4	110	112	98	36	247	188	75	57	22	55	1000	10.9
8-231-156 /350L	15.6	M42	268	4.5	110	101	108	36	247	188	83	57	24	65	1500	13.9
8-231-200 /385L	20.0	M48	303	5	110	97	113	36	248	188	83	57	27	75	2000	14.7

SWIVEL HOIST RING LONG BOLT - TYPE 231 WORKING LOAD APPLICATION FACTORS

											
Number of legs		1	2	1	2	2		2	3-4		3-4
Load Direction		0°	0°	90°	90°	0-45°	45-60°	unsymm.	0-45°	45-60°	unsymm.
Part Code	Thread	WLL tonnes									
8-231-005/10 5L	M8	0.8	1.6	0.5	1	0.7	0.5	0.5	1.1	0.8	0.5
8-231-007/12 5L	M10	1.2	2.4	0.7	1.4	1	0.7	0.7	1.5	1.1	0.7
8-231-010/15 0L	M12	2	4	1	2	1.4	1	1	2.1	1.5	1
8-231-020/18 5L	M16	3.2	6.4	2	4	2.8	2	2	4.2	3	2
8-231-030/23 0L	M20	5.6	11.2	3	6	4.2	3	3	6.3	4.5	3
8-231-050/26 5L	M24	9.2	18.4	5	10	7	5	5	10.5	7.5	5
8-231-078/34 0L	M30	12	24	7.8	15.6	10.9	7.8	7.8	16.4	11.7	7.8
8-231-125/30 0L	M36	14	28	12.5	25	17.5	12.5	12.5	26.3	18.8	12.5
8-231-156/35 0L	M42	16	32	16.6	31.2	21.8	15.6	15.6	32.8	23.4	15.6
8-231-200/38 5L	M48	20	40	20	40	28	20	20	42	30	20

Bolt in GEOMET finish on request.