

# Premium Lever Hoist PROLH with Overload Protection

The professional's choice incorporating our patented Quad Cam Pawl design and Torsion Brake System.

PROLH lever hoists incorporate many of the advanced safety features that Tiger has developed including one piece construction pinion gears and our patented Quad Cam Pawl System.

Like the SS19 range, this model also includes our unique rotational inertia driven torsion switch brake and freewheeling system. This brake system was designed by our research and design team to counter known failure modes in commonly used and copied longitudinal "push-pull" mechanisms or traditional style "Weston" type brake systems used on alternative lever hoists. This Tiger brake system is now a proven design with many thousands of hours of empirical evidence as proof of design and efficiency. This design removes the need for inefficient old style longitudinal disengagement methods of pulling the brake system apart to facilitate freewheeling. This highly efficient method of operating is not only safer but easier for the operator while measurably increasing the brake take up efficiency rate.

Tiger uses an 8 point multi start threaded pinion shaft which has also increased brake reaction times. The rotational engagement of the brake works with the direction of the load sheave creating highly efficient braking ratios - up to 50% measurable difference compared with longitudinal 4 point pinion threads.

These units meet and exceed all the requirements within BS EN 13157: 2004+A1:2009, ANSI/ASME B30.21, AS1418.2 and SANS 1636.

- DNV GL Verification tested according to NORSOK R-002
- Comes as standard with slipping clutch overload protection
- Range from 0.8t - 30t
- Available with forged clevis adaptor components
- Patented Quad Cam Pawl System
- Equipped with our unique torsion brake mechanism
- One piece construction pinion gear
- Light load tested and certified at 2% of the rated capacity
- Adaptable to use both inverted and horizontally
- Operating temperature of -40°C to +50°C (-40°F to +122°F)
- All major parts are heat treated and precisely machined
- Finished in high quality powder coat paint offering excellent corrosion protection
- Also available with corrosion resistant load chain or spark resistant hooks
- Available with load bearing swivel hooks to meet relevant standards

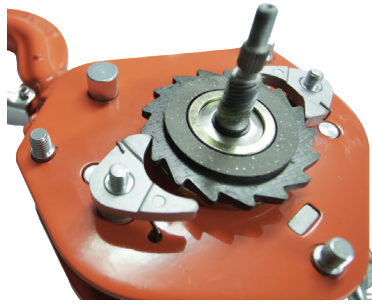


Product Code	Capacity (tons, T)	Effort (kg, lb)	Dimensions (mm, in)							Load Chain		Std. Lift (ft)	Unit weight w/ standard lift (lb)	Adder weight per additional ft of lift (lb)
			A	B	C	D	E	F1	F2	Diameter (mm)	No. of falls			
PLH-0080	0.8, 0.88	23, 50	128, 5.03	236, 9.29	295, 11.61	158, 6.22	99, 3.89	28, 1.10	45, 1.77	Ø6.3	1	5	16.5	0.6
PLH-0100	1.0, 1.1	29, 64	128, 5.03	236, 9.29	295, 11.61	158, 6.22	99, 3.89	28, 1.10	45, 1.77	Ø6.3	1	5	16.8	0.6
PLH-0150	1.5, 1.65	26, 57	154, 6.06	360, 14.17	320, 12.59	172, 6.77	104, 4.09	34, 1.33	51, 2.00	Ø7.1	1	5	23.1	0.7
PLH-0200	2.0, 2.2	35, 77	154, 6.06	360, 14.17	320, 12.59	172, 6.77	104, 4.09	34, 1.33	51, 2.00	Ø7.1	1	5	23.6	0.7
PLH-0300	3.0, 3.31	38, 84	182, 7.16	360, 14.17	400, 15.74	195, 7.67	108, 4.25	36, 1.41	56, 2.20	Ø10.0	1	5	39.7	1.5
PLH-0600	6.0, 6.61	40, 88	242, 9.52	360, 14.17	570, 22.44	195, 7.67	108, 4.25	49, 1.92	70, 2.75	Ø10.0	2	5	62.9	2.9
PLH-1000	10.0, 11.0	47, 104	379, 14.92	360, 14.17	630, 24.80	195, 7.67	108, 4.25	54, 2.12	87, 3.42	Ø10.0	3	5	101.4	4.4
PLH-1500	15.0, 16.53	44, 97	566, 22.28	360, 14.17	840, 33.070	195, 7.67	108, 4.25	59, 2.32	81, 3.18	Ø10.0	5	5	246.9	7.3
PLH-2000	20.0, 22.04	49, 108	470, 18.50	360, 14.17	1050, 41.33	250, 9.84	160, 6.29	81, 3.18	110, 4.33	Ø10.0	6	5	343.9	8.8
PLH-3000	30.0, 33.07	48, 106	700, 27.6	360, 14.2	1200, 47.2	440, 17.3	220, 8.7	91, 3.6	135, 5.3	Ø10	9	5	597.5	13.5

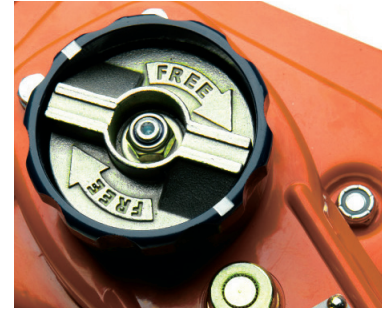
## More features of Professional Lever Hoist PROLH



Unique chain stripper guides the chain safely onto or off the load sheave without catching, allowing safe use in any orientation



Patented Quad Cam Pawl System



Unique Torsion Brake System

