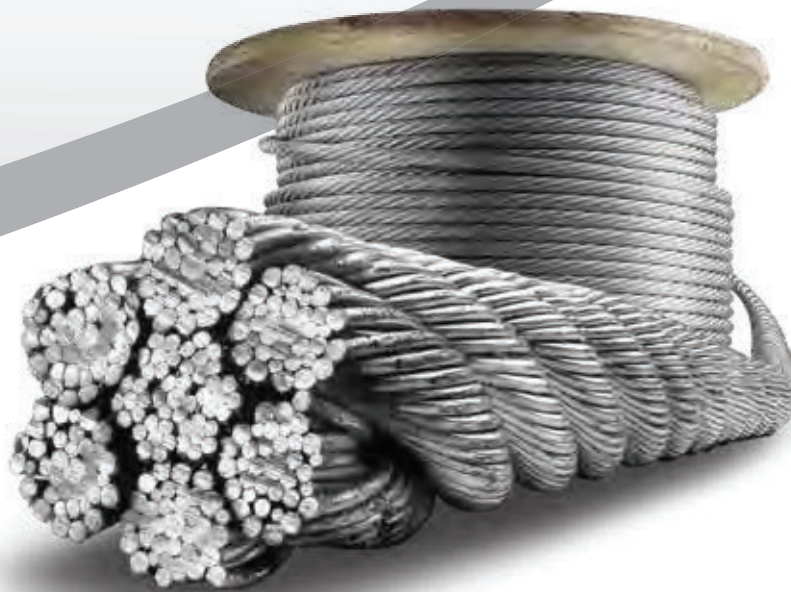


2022/23  
CATALOG

**NORTHERN**  **STRANDS**  
Canadian owned and operated since 1970

# MATERIAL HANDLING



# LIFTING LUGS AND D-PLATES

## LIFTING LUGS

Lifting lugs are an essential component for rigging and are a popular product in Northern Strands Industrial Supplies Warehouse. Lifting lugs are designed to be welded to compatible steel materials in order to lift them into place safely and securely.

- Fabricated from A36 Steel.
- Available in 1/2, 2, 5, 10, and 15 ton maximum rated capacities.
- Color coded and stamped with rated capacity to provide quick identification.
- Meets OSHA requirements (minimum five to one safety factor).



## D-PLATES

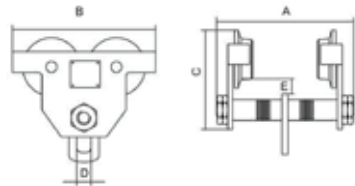
D-Plates are offered in various sizes including 2, 4, 5, 12, 20, and 35 Tons. Northern Strands' D-Plates are engineered stamped and can be re-certified.

- 5 to 1 safety factor
- Large bolt holes optional for mining industry applications
- All D-plates are proof loaded to 150%
- Wet mag and pull tested
- All D-Plates come with shackle



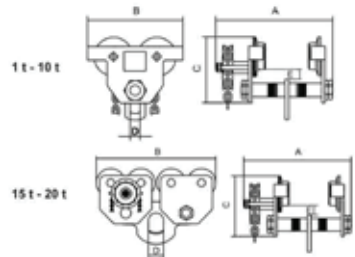
# PLAIN TROLLEY KW-II GEARED TROLLEY KW-III

## Vitali-INTL® PLAIN TROLLEY KW-II



MODEL NO.		KW010A	KW020A	KW030A	KW050A	KW100A
Capacity	(t)	1	2	3	5	10
Proof Load	(t)	1.5	3	4.5	7.5	15
I-Beam Width	(mm)	64-203	88-203	100-203	114-203	125-210
Dimensions (mm)	A	296	313	334	363	410
	B	257	300	340	380	389
	C	181	214.5	252	290	364.5
	D	30	36	45	60	80
	E	23.5	23.5	32.5	28	48
Min. Radius Curve	(m)	1	1.1	1.3	14	1.7
Net Weight	(kg)	12.8	18.8	33.7	50.7	88

## Vitali-INTL® GEARED TROLLEY KW-III

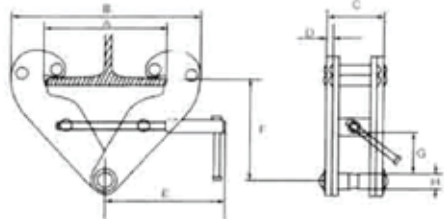


MODEL NO.		KW010B	KW020B	KW030B	KW050B	KW100B	KW150B	KW200B
Capacity	(t)	1	2	3	5	10	15	20
Proof Load	(t)	1.5	3	4.5	7.5	15	22.5	30
I-Beam Width	(mm)	64-203	88-203	100-203	144-203	125-210	125-210	125-210
Dimensions (mm)	A	344	362	383	416	461	480	480
	B	257	300	340	380	389	789	789
	C	181	214.5	252	290	364.5	364.5	364.5
	D	30	36	45	60	80	100	100
	E	23.5	23.5	32.5	28	48	48	48
Min. Radius Curve	(m)	1	1.1	1.3	1.4	1.7	1.7	1.7
Net Weight	(kg)	17	23.5	38.7	55.7	93	176	191

Standard 3 meter length hand chain. Custom lengths available.

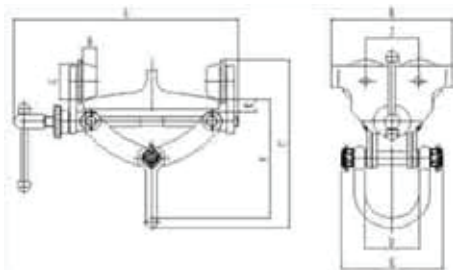
# BEAM CLAMP TBC QUICK INSTALL TROLLEY QIT

## Vitali-INTL® BEAM CLAMP TBC



MODEL NO.		TBC-1	TBC-2	TBC-3	TBC-5	TBC-10
Capacity	(tonnes)	1	2	3	5	10
Proof Load	(tonnes)	1.5	3	4.5	7.5	15
I-Beam Width	(mm)	75-220	75-220	80-320	80-320	80-350
Dimensions (mm)	A (max.)	260	260	354	354	400
	B (min.)	180	180	235	235	250
	B (max.)	360	360	490	490	520
	C	64	74	103	110	120
	D	5	6	8	10	12
	E	215	215	260	260	280
	F (max.)	155	155	225	225	230
	F (min.)	102	102	140	140	160
	G	25	25	45	45	70
	H	22	22	24	28	44
Net Weight	(kg)	4.0	4.6	9.1	11.0	14.6
Net Weight	(kg)	4.5	5.1	9.6	12.0	15.6

## Vitali-INTL® QUICK INSTALL TROLLEY QIT



MODEL NO.		QIT10	QIT30	QIT50
Capacity	(tonnes)	1	3	5
Proof Load	(tonnes)	1.5	4.5	7.5
I-Beam Width	(mm)	75-130	75-200	100-300
Dimensions (mm)	A	240	355	455
	B	174	280	346
	C	258-278	317-361	440-519
	D	80	90	110
	E	22	22	75
	F	178-198	199-243	300-379
	G	57	80	100
	H	20	24.5	27.5
	J	78	130	150
	K	150	210	210
Min. Radius Curve	(m)	1	1.3	1.7
Net Weight	(kg)	6.2	18.2	31.8

# CLAMPS

**IP10 - VERTICAL CLAMPS -**  
FOR VERTICAL LIFTING, TURNING AND TRANSFER



**IPBC, IPHGUZ, IPHGZ - HORIZONTAL CLAMPS -**  
FOR HORIZONTAL TRANSFER - WITH PRETENSION SYSTEM



**IPH10E, IPHOZ, HORIZONTAL CLAMPS -**  
FOR HORIZONTAL LIFTING AND TRANSFER



**IPNM10N, IPNM10P - VERTICAL CLAMPS -**  
FOR USE IN ALMOST ALL SECTORS OF INDUSTRY WHERE  
DURING THE LIFT OR TRANSFER, NO DAMAGE TO THE  
MATERIAL IS PERMITTED.



**IPPE - HORIZONTAL CLAMPS -**  
FOR THE LIFTING AND TRANSFER OF BUNDLES OF PLATES



**IPU10, IPU10S - VERTICAL CLAMPS -**  
UNIVERSAL - FOR LIFTING IN ANY DIRECTION



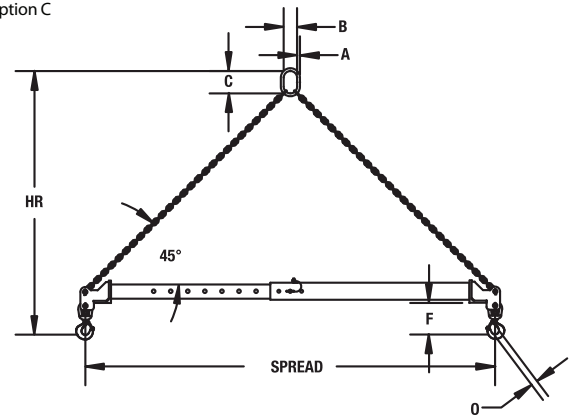
# SPREADER BEAMS

## ADJUSTABLE SPREADER BEAMS

- Ideal where headroom is not limited.
- Adds stability to lift.
- Telescopic spread standard.
- Spread adjusts in 1" increments.
- Available with standard chain or wire rope rigging.
- Wide range of additional sizes and capacities available.
- Custom spreader beam quotes available upon request. Custom spreader beam form found at <http://www.northernstrands.com/spreader-beam-quote.aspx>
- Complies with ASME standards.



**Adjustable Spreader Beam**  
Shown with Option C



## SPECIFICATIONS

CAPACITY (TONS)	SPREAD (FT.) MIN./MAX.	HR HEADROOM MIN./MAX. W/CHAIN (IN.)	WEIGHT BEAM & HOOKS (LBS.)	A OBLONG DIA. (IN.)	B OBLONG WIDTH (IN.)	C OBLONG HEIGHT (IN.)	F - HOOK TO BEAM BOTTOM (IN.)	O - HOOK OPENING W/LATCH (IN.)	CHAIN RIGGING WEIGHT (LBS.)
2	4 / 6	48/57	70	1/2	2.36	3.94	5.5	0.97	9
	6 / 10	72/88	85						13
	8 / 14	96/113	175						17
	12 / 20	132/166	245						23
5	4 / 6	55/64	105	1	5.38	7.09	8.4	1.41	34
	6 / 10	79/95	160						47
	8 / 14	102/126	205						61
	12 / 20	138/172	670						82
10	4 / 6	60/69	130	1-1/4	5.71	10.83	10.6	1.78	49
	6 / 10	74/111	175						69
	8 / 14	108/132	460						88
	12 / 20	144/163	680						118
15	4 / 6	64/72	165	1-1/2	5.90	10.5	13.6	2.22	78
	6 / 10	87/104	365						111
	8 / 14	111/135	478						145
	12 / 20	147/180	700						194

## TOP RIGGING OPTIONS

### OPTION C

Chain top rigging from beam to crane hook with coupler attachment.

### OPTION W

Wire rope top rigging from beam to crane hook. WR Lug required for 25-40 TON capacity beams.

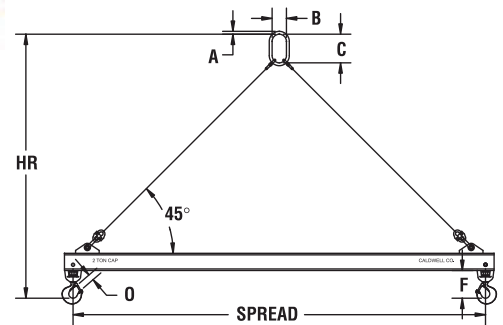
# SPREADER BEAMS

## FIXED SPREADER BEAMS

- Ideal where headroom is not limited.
- Adds stability to lift.
- Available with standard chain or wire rope rigging.
- Wide range of additional sizes and capacities available.
- Custom spreader beam quotes available upon request. Custom spreader beam form found at <http://www.northernstrands.com/spreader-beam-quote.aspx>
- Complies with ASME standards.



**Fixed Spreader Beam**  
Shown with Option C



## SPECIFICATIONS

CAPACITY (TONS)	HR HEADROOM (IN.) WEIGHT (LBS.0)	SPREAD (FEET)								OTHER DIMENSIONS (IN.)	
		4	6	8	10	12	16	20	24		
2	HR Headroom	34	46	58	70	82	106	132	156	A = 1/2	F = 4-1/4
	Weight	45	60	82	95	115	225	408	445	B = 1-1/2	O = 31/32
5	HR Headroom	37	49	61	73	82	110	134	158	A = 1	F = 6
	Weight	62	78	100	117	168	305	435	661	B = 3-1/2	O = 1-1/16
10	HR Headroom	41	53	64	77	86	113	138	163	A = 1-1/4	F = 6
	Weight	100	122	156	180	240	380	532	915	B = 4-3/8	O = 1-1/2
15	HR Headroom	43	55	65	80	92	116	140	167	A = 1-1/2	F = 9-1/4
	Weight	126	155	185	242	270	420	665	953	B = 5-1/4	O = 1-3/4
20	HR Headroom	46	58	69	82	94	118	140	170	A = 1-3/4	F = 9-3/4
	Weight	170	200	233	315	350	540	775	1341	B = 6	O = 2
30	HR Headroom		60	70	83	95	120	145		A = 1-3/4	F = 9-3/4
	Weight		285	402	440	530	888	1390		B = 6	O = 2
40	HR Headroom		65	77	89	102	127			A = 2	F = 13
	Weight		563	695	781	1058	1364			B = 7	O = 2-3/4
										C = 12	
										C = 14	

**NOTE:** Weight = Beam and hooks only - (no top rigging).

## TOP RIGGING OPTIONS

### OPTION C

Chain top rigging from beam to crane hook.

### OPTION W

Wire rope top rigging from beam to crane hook.

**VITALI-INTL®**

# CHAIN AND LEVER HOISTS



## CHAIN HOISTS

- .25 Tonne Chain Hoists - 3m Fall
- .25 Tonne Chain Hoists - 6m Fall
- .5 Tonne Chain Hoists - 3m Fall
- .5 Tonne Chain Hoists - 6m Fall
- 1 Tonne Chain Hoists - 3m Fall
- 1 Tonne Chain Hoists - 6m Fall
- 1 Tonne Chain Hoists - 12m Fall
- 1.5 Tonne Chain Hoists - 3m Fall
- 1.5 Tonne Chain Hoists - 6m Fall
- 1.5 Tonne Chain Hoists - 12m Fall
- 2 Tonne Chain Hoists - 3m Fall
- 2 Tonne Chain Hoists - 6m Fall
- 2 Tonne Chain Hoists - 12m Fall
- 3 Tonne Chain Hoists - 3m fall
- 3 Tonne Chain Hoists - 6m fall
- 3 Tonne Chain Hoists - 12m fall
- 5 Tonne Chain Hoists - 3m Fall
- 5 Tonne Chain Hoists - 6m Fall
- 5 Tonne Chain Hoists - 12m Fall
- 10 Tonne Chain Hoists - 3m Fall
- 10 Tonne Chain Hoists - 6m Fall
- 10 Tonne Chain Hoists - 12m Fall
- 15 Tonne Chain Hoists - 3m Fall
- 15 Tonne Chain Hoists - 6m Fall
- 15 Tonne Chain Hoists - 12m Fall
- 20 Tonne Chain Hoists - 3m fall
- 20 Tonne Chain Hoists - 6m fall
- 20 Tonne Chain Hoists - 12m fall

## LEVER HOISTS

- 0.25 Tonne Lever Hoist - 1.5m Fall
- 0.5 Tonne Lever Hoist - 1.5m Fall
- 0.8 Tonne Lever Hoist - 1.5m Fall
- 0.8 Tonne Lever Hoist - 4.5m Fall
- 1.6 Tonne Lever Hoist - 1.5m Fall
- 1.6 Tonne Lever Hoist - 3m Fall
- 1.6 Tonne Lever Hoist - 4.5m Fall
- 1.6 Tonne Lever Hoist - 6m Fall
- 3.2 Tonne Lever Hoist - 1.5m Fall
- 3.2 Tonne Lever Hoist - 3m Fall
- 3.2 Tonne Lever Hoist - 4.5m Fall
- 3.2 Tonne Lever Hoist - 6m Fall
- 6.3 Tonne Lever Hoist - 1.5m Fall
- 6.3 Tonne Lever Hoist - 3m Fall
- 6.3 Tonne Lever Hoist - 4.5m Fall
- 6.3 Tonne Lever Hoist - 6m Fall
- 9 Tonne Lever Hoist - 1.5m Fall
- 9 Tonne Lever Hoist - 4.5m Fall

**\*Custom lifts available. 30 and 50 tonne available upon request.**

### Did you know?

Chain and Lever hoists are used regularly by agriculture, automotive, construction, manufacturing and mining industries. Hoists have thousands of uses, from lifting vehicle engines to steel erection.

Vitali International offers easy to use lever and chain hoists of the highest quality at affordable prices. These benefits combined with fast local service make Vitali-Intl hoists the perfect choice for all your material handling needs.



VITALI-INTL®

# CHAIN HOISTS

## We have the right Hoist for your job.

### STANDARD FEATURES

- Seal type caged ball bearings #21 & #21A on load sprocket
- Seal type caged ball bearings #21B & caged roller bearings #31B on the pinion shaft (minimize manual effort thanks to efficient drive train)
- Superior design of top hook holders for double / several columns of load chains
- Experience exceptional durability thanks to all-steel construction featuring rugged gear case enclosure and handwheel cover
- Enjoy increased lifting height thanks to low headroom
- Grade 100 heat-treated black finish load chain
- Reinforced double pawl brake system and larger dia. pawl springs ensure reliable brake

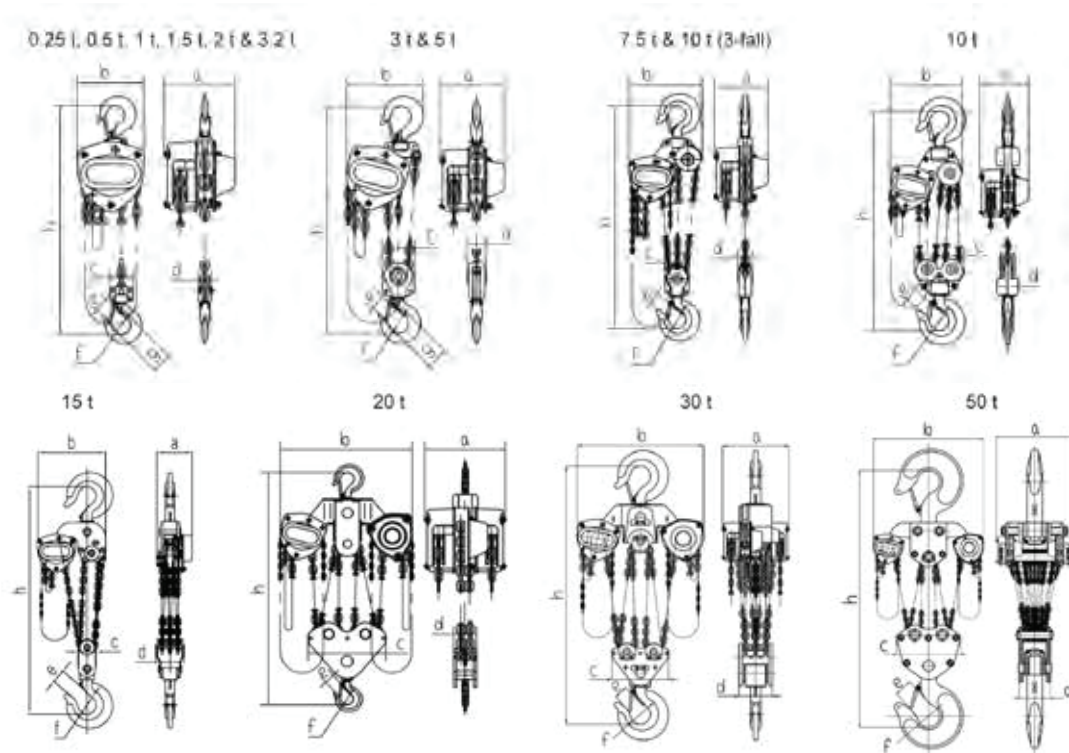


### OPTIONAL FEATURES

- Overload protection system
- Patent fused brake disc
- Thrust bearings in bottom hook assembly
- Easy removable top hook



# VITALI-INTL® CHAIN HOISTS



Capacity	(tonnes)	1	1.5	2	3	5	10	15	20	30	50
Model No.		K100	K150	K200	K300	K500	K1000	K1500	K2000	K3000	K5000
No. of Falls		1	1	1	2	2	4	6	8	12	20
Load Chain	(mm)	6.3 x 19	7.1 x 21	8 x 24	7.1 x 21	9 x 27	9 x 27	9 x 27	9 x 27	10 x 28	10 x 28
Load Chain Grade		100	100	100	100	100	100	100	100	100	100
Pull to Rated Load	(N)	284	343	353	353	333	353	363	353 x 2	345 x 2	345 x 2
Proof Load	(tonnes)	1.5	2.25	3.0	4.5	7.5	15.0	22.5	25.0	37.5	62.5
Hand Chain	(mm)										
Standard Lift	(m)	3	3	3	3	3	5	5	5	5	8
Net Weight	(kg)	12.4	15.6	20	24	41	94.9	153	205	284	-
Gross Weight	(kg)	12.9	16.4	21	24.8	42.5	105	166	219	301	-
Extra Wt. per m	(kg)	1.8	2.1	2.3	3.2	4.4	7.9	11.4	15.8	29.3	46
Dimensions	a (mm)	161.5	170	183.5	170	192	192	220	230	360	585
	b (mm)	161	182	202.5	235	282	360.5	492	655	680	832
	c (mm)	51	64	64	106	133	263	110	286	306	482
	d (mm)	30	34	34	53	64	95	170	123	180	235
	e (mm)	33	33.5	37	43.5	51	64	80	82	82	133
	f (mm)	40	42	46	52	60	85	100	110	110	170
	g (mm)	45	47	52	62.5	79	-	-	-	-	-
	h (mm)	295	350	375	510	600	760	1,000	1,150	1,250	1,700

Custom chain lengths available. 30t to 50t available upon request.

**VITALI-INTL®**

# LEVER HOISTS

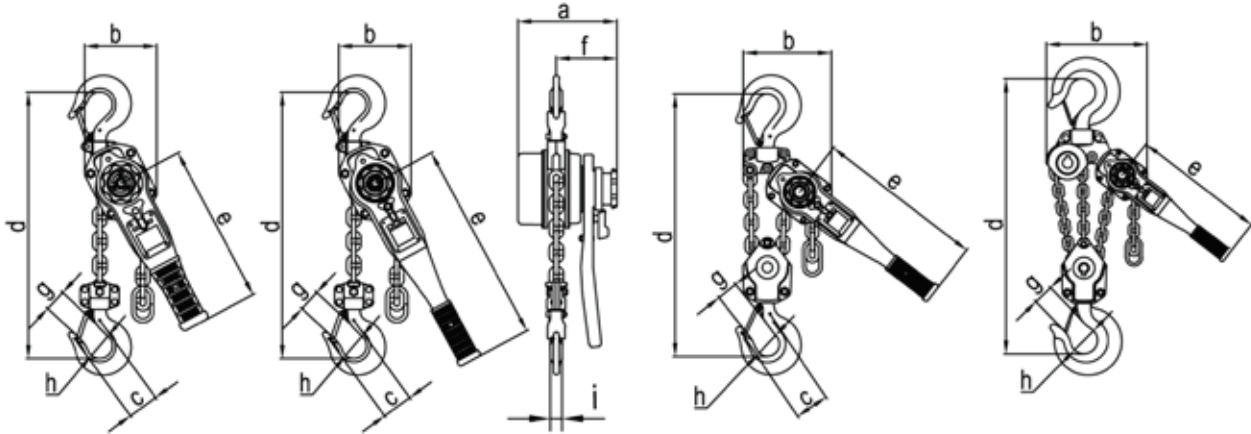
## We have the right Hoist for your job.

### MAIN FEATURES

- More compact, very robust but light weight, short lever handle and low headroom.
- Grade 100 heat-treated black finish load chain.
- Interchangeable parts for standard and overload protected hoist.
- Reasonable pulling force to rated capacity.
- Unique hand wheel & knob design.
- No preload required.
- Innovative & patent fused brake disc.
- Heavy duty cast latches.
- Improved hook tip design.
- Caged roller bearings on load sprocket.
- Phosphoric surface treatment for the #3 driving shaft.
- Sizes range from .25, .5, .8, 1.6, 3.2 6.3, and 9 tonnes.



# VITALI-INTL® LEVER HOISTS



Capacity	(tonnes)	0.25	0.5	0.8	1.6	3.2	6.3	9
Model No.		KX025	KX050	KV008	KV016	KV032	KV063	KV090
No. of Falls		1	1	1	1	1	2	3
Load Chain	(mm)	3.2 x 9	4.3 x 12	5.6 x 15.7	7.1 x 19.9	10 x 28	10 x 28	10 x 28
Pull to Rated Load	(N)	223	324	215	304	372	382	392
Proof Load	(tonnes)	.375	.75	1.2	2.4	4.8	9.5	13.5
Standard Lift	(m)	1	1.5	1.5	1.5	1.5	1.5	1.5
Net Weight	(kg)	1.45	2.5	5.7	8.0	13.6	26.0	40.0
Gross Weight	(kg)	1.65	2.7	6.1	8.5	14.2	26.6	46.5
Extra Wt. per m	(kg)	0.22	0.37	0.7	1.1	2.3	4.7	7
Dimensions	a (mm)	87	100.5	146	164	196	196	196
	b (mm)	68	81	119	126	159	218	298
	c (mm)	200	250	41.5	52	61.9	84.3	-
	d (mm)	145	160	280	335	395	540	680
	e (mm)	55.5	62.5	245	265	415	415	415
	f (mm)	35.5	42	96	100	114	114	114
	g (mm)	21	24.5	26.5	35.5	43	53	64
	h (mm)	32	34.5	35.5	42.5	50	60	85
	i (mm)	11	12	14	19	24.5	34	40

# VITALI-INTL® HAND WINCH

**Backward & Forward lever** – placed in tandem providing a slim design and assuring power transfer along the center.

**Built-in shearing pin** – prevent overload. It functions at approx. 25% overload. The pins can be replaced without removing the load.

**Safety pin** – fastens the anchor bolt.

**Anchor bolt** – offers numerous and versatile connection possibilities with load hooks, sling ropes and sling chains.

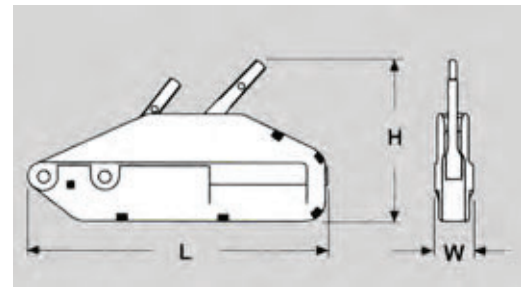
**Spare shear pins** – Two pieces of spare shear pins located in the carrying handle.

**Rope clamp system** – easily disengaged with a lever allowing smooth installation of the wire rope.

**High strength cast aluminum alloy body** – Light weight, simple to operate. Smooth contour design with large, flat bottom surface for increased stability in horizontal as well as vertical working position.

**Stamped serial number** – for easy identification

**Galvanized steel wire rope mounted on a reel** – Every rope is operationally tested to 150% of the rated capacity and is issued with an individual test certificate.

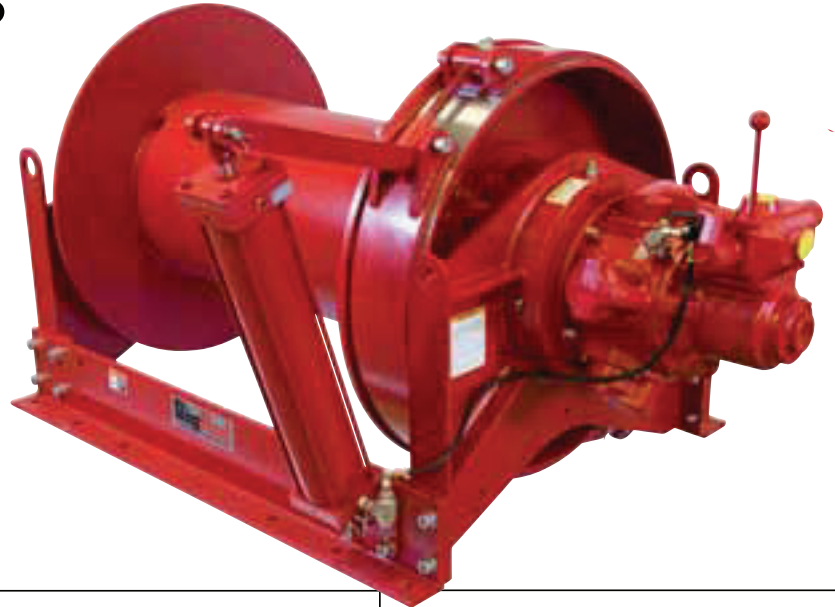


MODEL NO.		YAL008	YAL016	YAL032
Lifting Capacity (Rated Load)	(tonnes)	0.8	1.6	3.2
*Pulling Capacity	(tonnes)	1.2	2.4	4
Lever Pull at Rated Load	(N)	284	412	441
Forward Travel	(mm)	52	55	28
Wire Rope Diameter	(mm)	8.3	11	16
Net Weight (Body)	(kg)	6.4	12.4	23.3
Net Weight (20 metres Wire Rope)	(kg)	7	11.5	23.5
Net Weight (Lever Handle)	(kg)	1.15	2.5	2.5
Dimensions (Body) L x W x H	(mm)	440 x 70 x 255	560 x 100 x 295	675 x 120 x 350

\*Observe local regulations

# TERN WINCHES

Northern Strands carries all types of Tern winches



**POWER WINCH**



**AIR WINCH**



**WORM GEAR**




**SPUR GEAR**

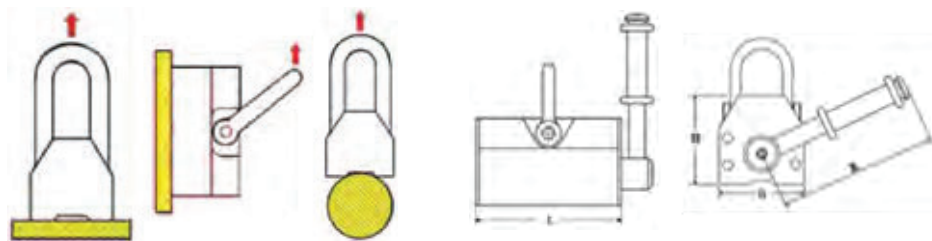


**RAIL CAR PULLING**



 These products are not for lifting people or things over people.  
FLCL-0916

# PERMANENT MAGNET LIFTER



- Standard: EN 13155
- Finish: Painted Yellow, Zinc
- Identification: Trademark, WLL, Serial No.
- Certification: Load Test

HORIZONTAL LOAD CAPACITY (KG)	HORIZONTAL [MAX.] BREAKAWAY FORCE (KG)	ROUND BAR OR VERTICAL CAPACITY (KG)	Dimensions (mm)				WT. (KG)
			L	B	H	R	
4 600	5 700	9/32 - 5/16	0.39	0.94	0.51	1.26	1.2
7 000	8 800	3/8	0.47	1.22	0.55	1.57	2.3
12 000	15 000	1/2	0.63	1.46	0.71	2.01	4.8
18 100	22 600	5/8	0.75	1.89	0.94	2.52	9.7

- Do not use this lifting device above the working load limit for the application, this information is attached to each magnet.
- Operating temperature maximum 80°C.
- Other sizes available on request.

# PERMANENT MAGNET LIFTER

## WARNINGS AND APPLICATION INSTRUCTIONS

Prior to operation, clear away rust and any debris from the components surface. The centerline of lifter must overlap with centerline of component then place the magnetic lifting hoist on the face of component, turn the handle from "OFF" to "ON" and confirm unit is holding. Make sure the security key on the handle is automatically locked, and then start to hoist for trial lift.

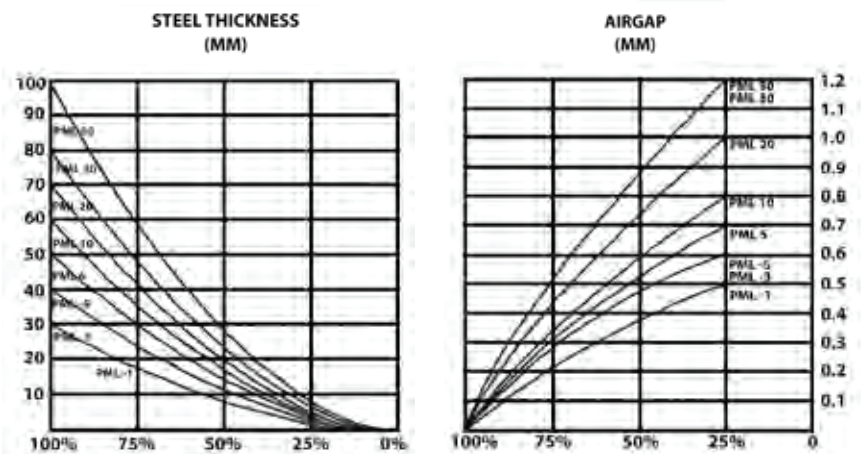
**Air Gap** – These lifting magnets create high magnetic forces which permit the magnet to clamp materials through the air gap but these air gaps do however decrease the magnetic performance due to the fact that they provide a barrier between the contact surfaces. Air gaps can happen in a variety of ways, such as dust, paint, and mill scale. Inadequately machined surfaces will also make up an air gap. The lifting magnet will need to be down rated in capacity according to the adhesive force / air gap as shown in the diagram below.

**Material Thickness** – When lifting magnets are used to lift materials which are thinner than the recommended minimum thickness, the clamping force of the magnet will be considerably lower. See below diagram for detailed information.

Full lifting capacity is only achieved when the lifting magnet has complete contact with the item being lifted. Performance will be affected if the surface of the materials to be lifted contains holes or is uneven. A trial lift must be carried out in these situations to establish correct lifting prior to transporting the load. Some materials will have differing abilities to carry magnetism. Apart from mild steel, a reduction factor needs to be applied so that the clamping force can be effectively calculated.



MODEL	FLAT MATERIAL			ROUND MATERIAL			TEAR OFF FORCE (KG)
	MAXIMUM CAPACITY SWL	MIN. THICKNESS	MAX. LENGTH OF MATERIAL	MAXIMUM CAPACITY SWL	DIAMETER	MAX. LENGTH OF MATERIAL	
	(KG)	(MM)	(MM)	(KG)	(MM)	(MM)	
PML-100	100	30	2000	30	200-300	2000	350
PML-300	300	40	2500	100	200-300	2500	1050
PML-600	600	50	3000	200	200-400	3000	2100
PML-1000	1000	60	3500	300	200-400	3500	3 500
PML-2000	2000	70	3500	600	200-400	3500	7000



REDUCTION OF CAPACITY FOR MATERIAL TYPE	% OF CAPACITY
Temperature < 80°C	100% (tonnes)
Humidity < 80%	100% (tonnes)
Low Carbon Steel	100% (N)
St 52	95% (mm)
Alloy Steel	80% (mm)
High Carbon Steel	70% (kg)
Cast Iron	45% (kg)
Nickel	45% (kg)
Austenitic Stainless Steel	0% (mm)
Brass	0% (mm)
Aluminium	0% (mm)

\*\*\* Read and understand Operating Instructions (supplied with every unit) before using this product\*\*\*