



ets[®]
engineering
trasporto sollevamento

HAND CHAIN HOISTS



The way to lift your ideas

THE COMPANY

ETS is a Leading Company in the manufacturing of Lifting Devices dedicated to the OIL & Gas market both On-Shore & Off-Shore.

ETS main responsibility is towards the continuous improvement of the quality of the product with special attention to environment and safety.

Modern technologies, constant training and commitment are the key factors that complete the great experience matured in the lifting sector after more than 40 years of activities.

Each achievement is the lifeblood for a new challenge.

Commitment, expertise, flexibility, innovation make ETS one of the most fair and dynamic companies of this sector in Europe with thousands of projects awarded all over the world for all major EPC companies.

Follow us in our daily endeavor to study, design and realize for you THE WAY TO LIFT YOUR IDEAS.



design

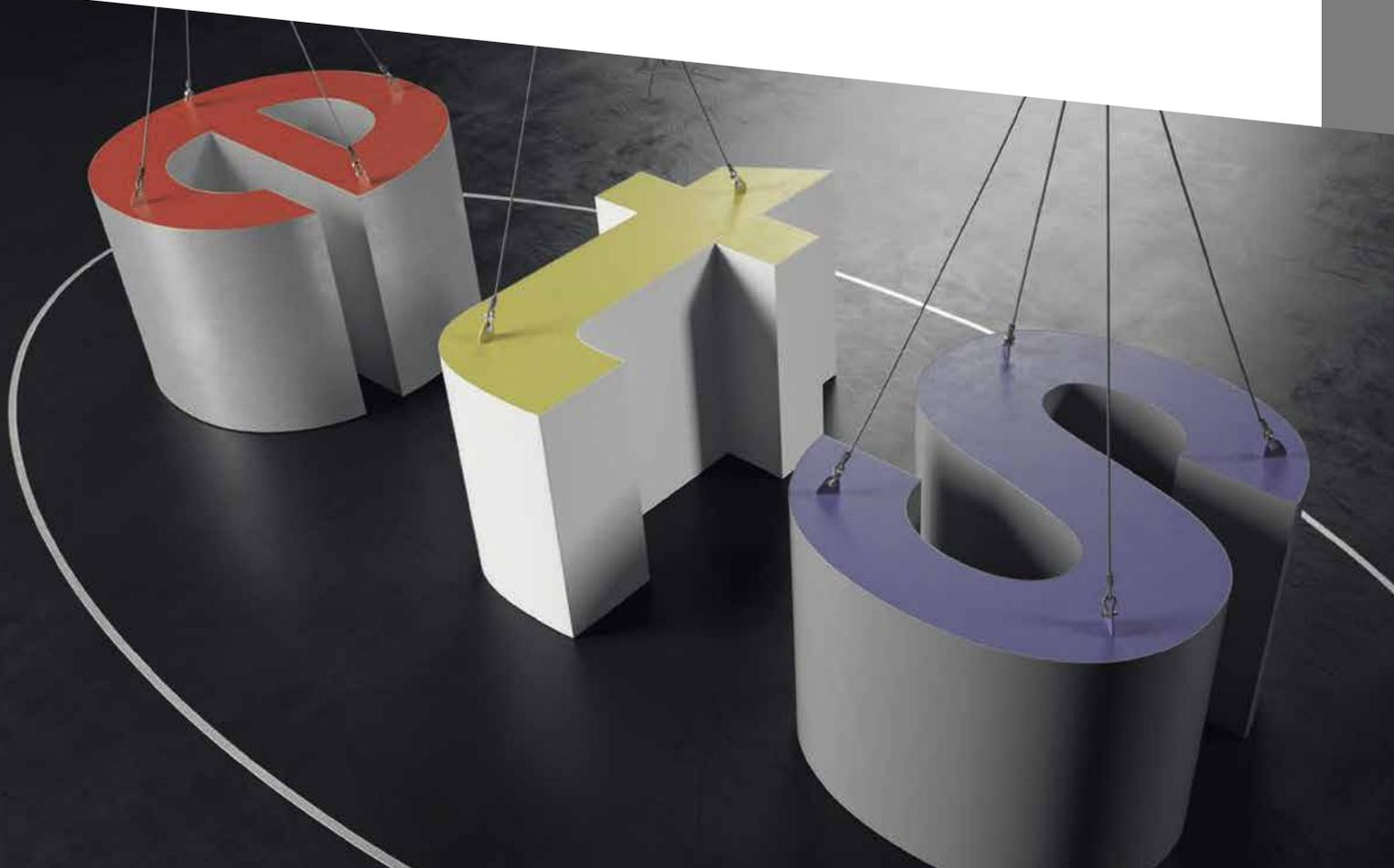
QUALITY

ETS Engineering Spa besides the design and production of cranes and hoists in accordance with Machine Directive 2006/42/EC, is also to design and produce cranes and hoists in accordance to European Directive Atex 2014/34/EU.

ETS is certified ISO 9001, ISO 14001 and OHSAS 18001 and notified through Bureau Veritas for the production of explosion-proof cranes with deposit of Technical File of Risk Analysis as prescribed by the Annex VIII of Atex Directive.

All products ETS satisfy safety requirements for explosion-proof areas Group II and Category 2 a 3 (Zone 1 and Zone 2 for Gas plus Zone 21 and 22 for Dust).

The explosion-proof classification comply with Exd and Ex-d/e enclosure protection.



Hand chain hoist ATEX

Ex Classification: II 2 GD c IIB T4 T 125° C X

- Machine Directive 2006/42/EC
- EN 12100 part 1a 2° - Machinery safety
- European Directive 2014/34/EU - Explosive Atmosphere European Directive
- EN ISO 80079 Non-electrical equipment for use in potentially explosive atmospheres
- EN 1127-1 Explosive Atmosphere - Explosion prevention and protection
- DIN 15400 - Lifting hooks material
- EN 13157 Cranes Safety Hand powered lifting equipment

The ETS MCH Models is a further development of the experience acquired by ETS in the lifting field. Compact design and low headroom make the Series simple to install even in confined working areas.

What is a Chain Hoist and why choose it

A chain hoist (known as a “chain block” / “chain fall” / “block and tackle”) is a mechanical device containing a hand chain and lifting chain. Typically used vertically, it raises or lowers a heavy material by pulling down on the hand chain. A small pulling force will be turned to a larger force to handle heavy objects thanks to the lifting mechanism.

Manual Chain Hoists are widely used in multiple industries for moving heavy objects without power supply. Here are their key features and benefits:

- Lift very heavy loads in safety way (by using mechanical advantages)
- No power supply required (no electricity required, it's especially advantageous for lifting work in open-air grounds)
- Simple design with trouble-free operation (no wires or motors inspections therefore low-maintenance)
- Small in size, handy, lightweight and easy to carry everywhere
- Operates at a small venue
- Cost saving for handling activities compared to electrical solutions.



Chain wheel with roller bearing for friction reduction and lower pulling force.



Double bronze pawl.



Friction disc with metal abrasive durable & anti-skidding.



Hook Bronze coated.

Available for standard version and for offshore application (e.g. pinion and rack_harsh environment)



Hand chain hoist MODEL ETS MCH

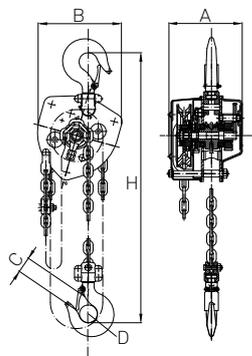
CAPACITY 500 - 20.000 kg

Ex Features

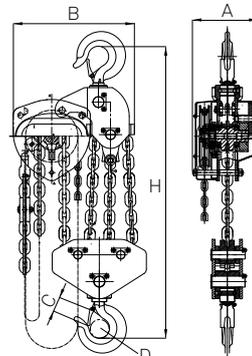
- Drop forged load and suspension hook fitted with safety latches (rotate 360°)
- Bronze coated suspension and load hooks
- Galvanised load chain
- Stainless steel hand chain
- Double bronze pawl
- Overload device
- Painting suitable for outdoor
- Operating temperature -10°C/+60°C

Ex Options

- Operation temperature -40°C/+40°C
- Stainless steel load chain
- EAC Certification for CIS countries
- Compliance to Norsok
- Stainless steel AISI 304 Frame
- Chain container



Model MCH 500 - 3000 kg



Model MCH 5000 - 20000 kg

Technical data

CAPACITY (kg)	CHAIN FALLS (N.)	HAND PULL AT WWL (N)	LOAD CHAIN (mm)	DIMENSIONS (min)					WEIGHT AT STD. LIFT (3M) (kg)	EXTRA WEIGHT PER M OF ADD. CHAIN (kg)
				A	B	H	C	D		
500	1	240	5x15	148	132	345	30	35	9,3	1,0
1.000	1	245	6x18	172	151	376	30	37	12,2	1,3
1.500	1	255	7x21	196	173	442	36	45	16,5	1,6
2.000	1	324	8x24	210	175	470	36	45	19,5	1,9
3.000	1	353	10x30	240	189	688	50	64	43	4,1
5.000	2	353	10x30	240	189	688	50	64	43	4,1
10.000	4	380	10x30	240	189	765	56	85	71,6	5,9
20.000	8	380	10x30	580	190	1100	60	95	150	19,42

Hand chain hoist with plain and geared trolley MODEL ETS MCHT

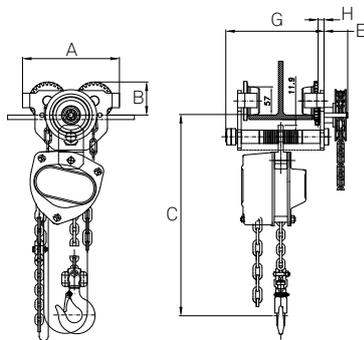
CAPACITY 500 - 20.000 kg

Ex Features

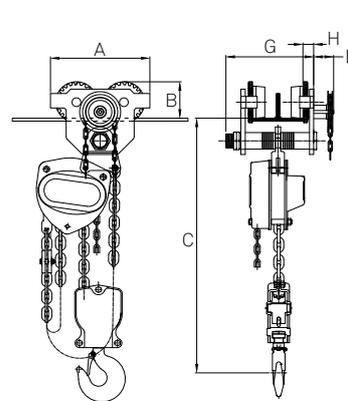
- Drop forged load hook fitted with safety latches (rotate 360°)
- Bronze coated load hooks
- Galvanised load chain
- Stainless steel hand chain
- Double bronze pawl
- Overload device
- Adjustable to fit a wide range of beam widths (e.g. INP – IPE etc.)
- Trolley rubber buffers
- Bronze solid wheels
- Painting suitable for outdoor
- Operating temperature -10°C/+60°C
- Anti-drop and anti-tilt device

Ex Options

- Operation temperature -40°C/+40°C
- Stainless steel wheels
- Stainless steel load chain
- EAC Certification for CIS countries
- Compliance to Norsok
- Worm gear & Rack pinion system available for curve radius
- Stainless steel AISI 304 Frame
- Chain container



Model MCHT 500 - 3000 kg



Model MCHT 5000 - 20000 kg

Technical data

CAPACITY (kg)	CHAIN FALLS (N.)	HAND PULL AT WWL (kg)	LIFT PER 5M HAND CHAIN (mm)	DIMENSIONS (min)								CURVE RADIUS (mm)	WEIGHT AT STD. LIFT (3M) (kg)	EXTRA WEIGHT PER M OF ADD. CHAIN (kg)
				A	B	C	G	G	G	E	H			
						Hoist closed	with pinion A	with pinion B	with pinion C					
500	1	22	178	195	66	315	197	220	269	48	23	1,0	19,4	2,60
1.000	1	30	120	213	71	370	222	282	384	48	25	1,0	24	2,60
1.500	1	35	94	255	88	445	265	282	384	48	26	1,0	35	3,20
2.000	1	35	94	255	88	445	265	282	384	48	26	1,1	35	3,40
3.000	1	36	94	300	105	611	275	303	406	48	36	1,5	53	4,60
5.000	2	39	30	340	125	630	-	300	418	65	38	1,5	79	6,20
10.000	4	40	15	454	170	710	-	349	450	60	48	2,0	150	10,60
20.000	8	40	15	555	200	1060	-	406	508	60	75	3,5	320	21,20

Geared and plain trolley MODEL ETS TG / TP

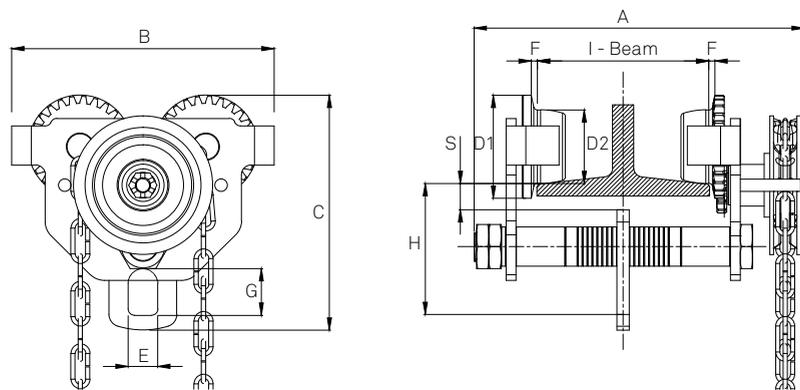
CAPACITY 500 - 10.000 kg

Ex Features

- Adjustable to fit a wide range of beam widths (e.g. INP – IPE etc.)
- Trolley rubber buffers
- Bronze solid wheels
- Stainless steel hand chain
- Painting suitable for outdoor
- Operating temperature -10°C/+60°C
- Anti-drop and anti-tilt device

Ex Options

- Operation temperature -40°C/+40°C
- Stainless steel wheels
- EAC Certification for CIS countries
- Compliance to Norsok
- Worm gear & Rack pinion system available for curve radius
- Stainless steel AISI 304 Frame



Technical data

CAPACITY (kg)	BEAM WIDTH (mm)	DIMENSIONS (min)										N.W. (kg)
		A	B	C	D1	D2	E	G	H	S	F	
500	68-140	262	196	177	Ø 78	Ø 57	24	38	97	22	1,5-3	8,4
1.000	80-146	266	213	191,4	Ø 84	Ø 60	24	38	107,4	21,4	1,5-3	10,8
2.000	80-168	312	255	233	Ø 102	Ø 75	29	45	128,5	29,5	1,5-3	15,7
3.000	88-168	324	300	282	Ø 120	Ø 90	36	64	153	22	1,5-3	23,5
5.000	100-170	368	340	343	Ø 141	Ø 110	45	75	218,4	31,4	1,5-3	37,5
10.000	122-203	412	454	477	Ø 189	Ø 150	70	110	262	32	1,5-3	92

Ultra low-headroom trolley-hoist MODEL ETS ULH

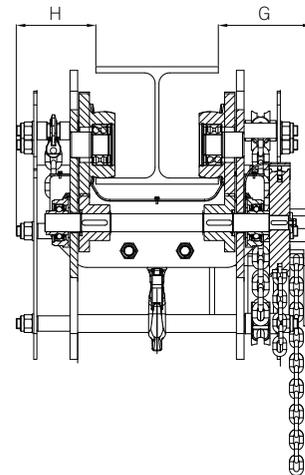
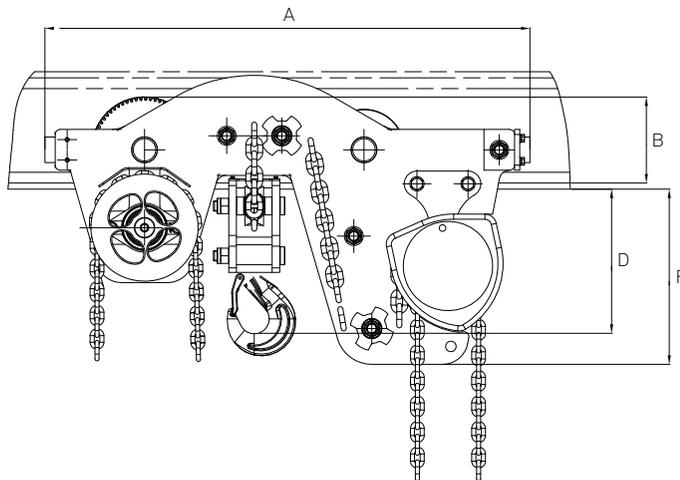
CAPACITY 2.000 - 10.000 kg

Ex Features

- Drop forged load hook fitted with safety latches (rotate 360°)
- Bronze coated load hooks
- Galvanised load chain
- Stainless steel hand chain
- Double bronze pawl
- Overload device
- Adjustable to fit a wide range of beam widths (e.g. INP – IPE etc.)
- Trolley rubber buffers
- Bronze solid wheels
- Painting suitable for outdoor
- Operating temperature -10°C/+60°C
- Anti-drop and anti-tilt device

Ex Options

- Operation temperature -40°C/+40°C
- Stainless steel wheels
- Stainless steel load chain
- EAC Certification for CIS countries
- Compliance to Norsok
- Worm gear & Rack pinion system available for curve radius
- Stainless steel AISI 304 Frame
- Chain container



Technical data

CAPACITY (kg)	CHAIN FALLS (N.)	HAND PULL AT WWL (kg)	LIFT PER 5M HAND CHAIN (m)	DIMENSIONS (min)						WEIGHT AT STD. LIFT (3M) (kg)	EXTRA WEIGHT PER M OF ADD. CHAIN (kg)
				A	B	D Hoist closed	F	G	H		
2.000	1+1	30	60	435	60	130	185	195	115	60	3,40
3.000	1+1	30	32	575	85	160	215	210	150	90	4,00
5.000	1+1	38	26	665	85	210	265	235	170	120	5,50
10.000	2+2	40	13	810	90	240	285	270	185	250	10,00



engineering
trasporto sollevamento

E.T.S engineering trasporto sollevamento s.p.a.
Zona Ind.le Ganga, 153 - 61045 Pergola (PU) Italy
Phone +39 0721/775450, Fax +39 0721/775451
ets@ets-spa.com - www.ets-spa.com