



SPEED



CM/L 7273878



SPEED Manual Chain Hoists

T2 Series - 0.5 to 50 ton Standard Capacity

SPEED T2 incorporates state-of-the-art design and technology to provide superior performance. Lighter and more compact than others in its class, yet highly efficient, this hoist spares nothing when it comes to lifting power.

With capacities from 0.5t to 50t, the T2 shines in a wide range of lifting applications.

Helping to set this hoist apart is the use of **SPEED**'s smallest yet strongest load chain.

This load chain has a breaking strength of 1,000N/mm² (100kgf/mm²).

SPEED's exclusive process technology and years of experience assure superior quality and performance.

With its impressive array of features and benefits, we are confident the T2 will meet your most demanding needs.

- All **SPEED** T2 Chain Pulley Blocks are tested to 150% of rated capacity
- All **SPEED** Hooks have a safety factor 5:1



Best Design
Highest Efficiency
and Reliability
SPEED T2

Outstanding features

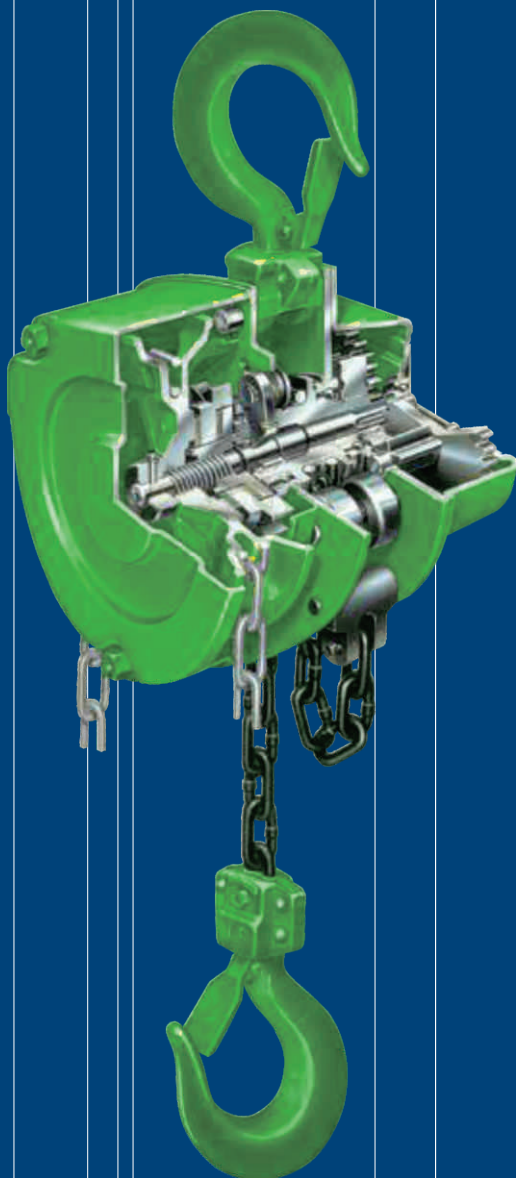
A high-strength load chain and a dry-type braking mechanism combine with a highly - efficient compact design to provide smooth and reliable operation and outstanding performance

SPEED T2



Features

10 Important Features Of "SPEED" T2" Chain Hoist



1 Gear Case and Hand Wheel Cover are Resistant to External Shocks

Both sides of the hoist are covered with a thick steel gear case and reinforced wheel cover. Manufactured using state-of-the-art technology, these critical components are ideally shaped and highly rigid to maintain bearing alignment and withstand external shock

2 Double Enclosures Protect Against Rainwater and Dust Intrusion

The braking mechanism, comprising the heart of the hoist, is securely enclosed within the wheel and brake covers. This double coverage protects the internal mechanisms from intrusion by weather elements, mud and dust. Further, the hand chain guide attached to the wheel cover provides durability and a smooth operation of the hand chain on the hand chain wheel.

3 Double Pawl Spring Mechanism Increases Safety and Reliability

The T2 insists on two pawl springs to deliver an extra degree of performance in case one spring is damaged.

4 Sure and Reliable Mechanical Brake

SPEED's dry-type asbestos-free mechanical brake ensures outstanding stopping power and safety for high performance operation.

5 Hooks for Easy Work

Heat-treated to withstand the rigors of the toughest jobs, the T2's top and bottom hooks are ready to make your work easier. The bottom hook's relatively large dimensions enable a load to be quickly stabilized in the proper position while the bottom yoke's protecting guard protects the chain pin and nut from damage, further enhancing safety.

6 Bearing Mechanism Increases Mechanical Efficiency

SPEED's unique ball and needle bearings optimize mechanical efficiency and produce high power output with a minimum of manual input

7 Load Chain Guide Mechanism Smooths Operation

Superior performance is designed into the T2. Smooth load chain movement is facilitated by having a chain guide mechanism in the flanged load sheave and guide roller.

8 Highly Accurate and Durable Gears

Years of research and development have enabled SPEED to produce compact, highly efficient and durable gears.

9 Stopper Prevents Excessive Lowering

SPEED's carefully engineered stopper assembly not only prevents a load from being lowered too far, but even keeps the chain from exiting the mechanism. Increased pull force signals the operator the load has been lowered to the maximum extent.

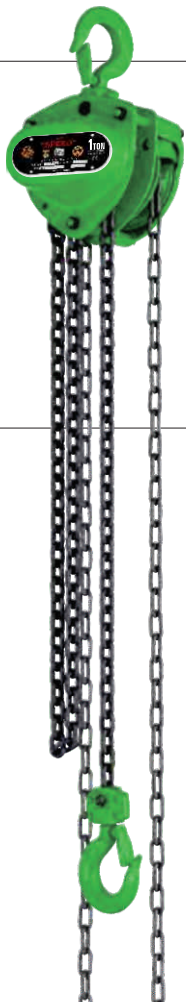
10 Highly Strong Load Chain Load chains

the component comprising the heart of the chain hoist, are made of an exclusively developed, heat treated special steel alloy. Carefully selected special steel is entirely processed at SPEED's fully automated production facilities under the most stringent quality control. Thus, all of the SPEED chains are uniform in high breaking stress of 1000N/mm²(100kgf/mm²). They have excellent quality including toughness and resistance to wear and corrosion.

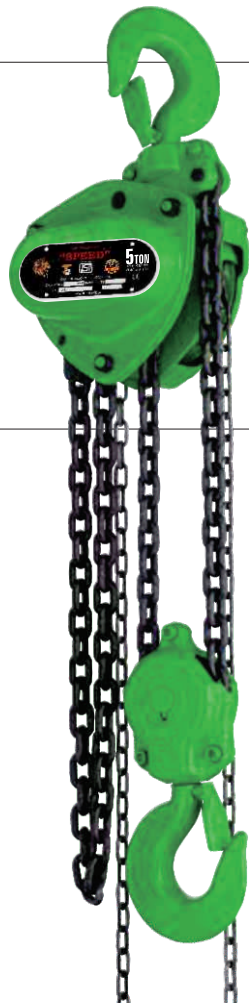
VARIATION



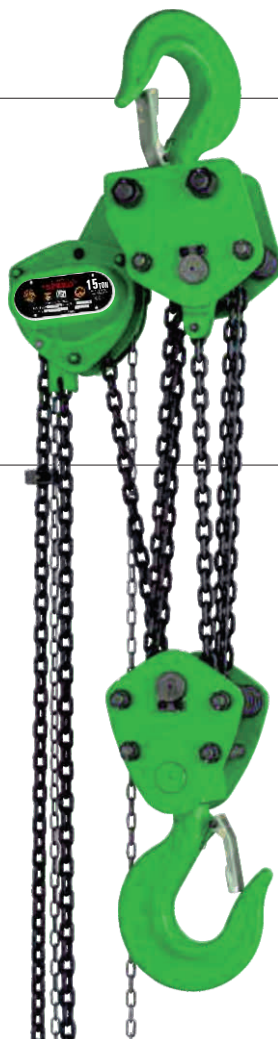
0.5t to 50t



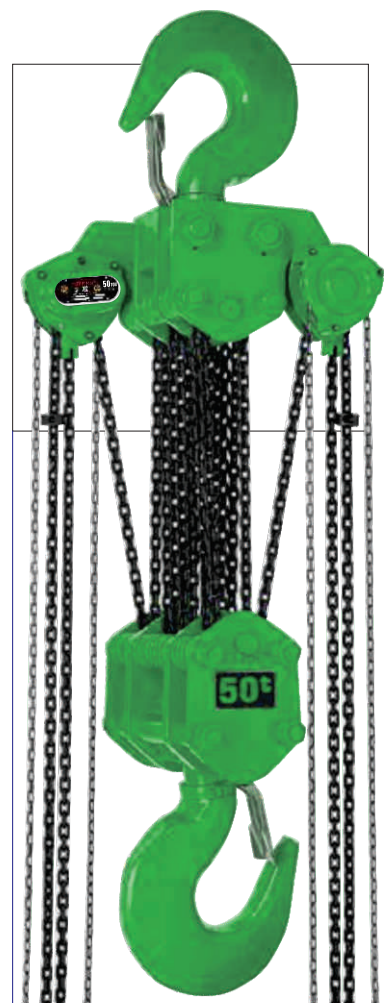
0.5t~3t



5t



7.5t ~ 15t

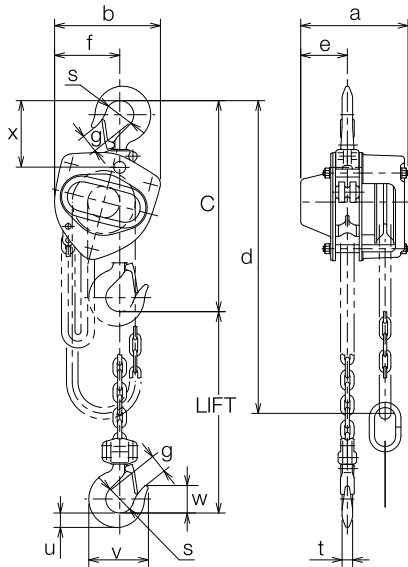


20t ~ 50t

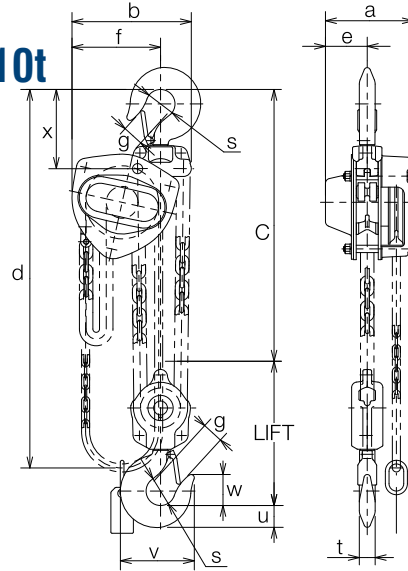
Specification & Dimensions



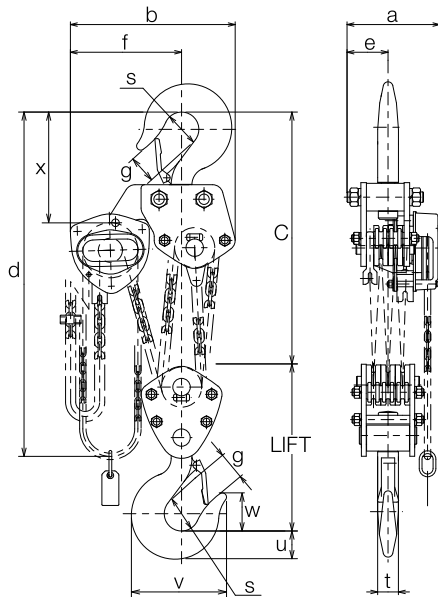
0.5t-3t



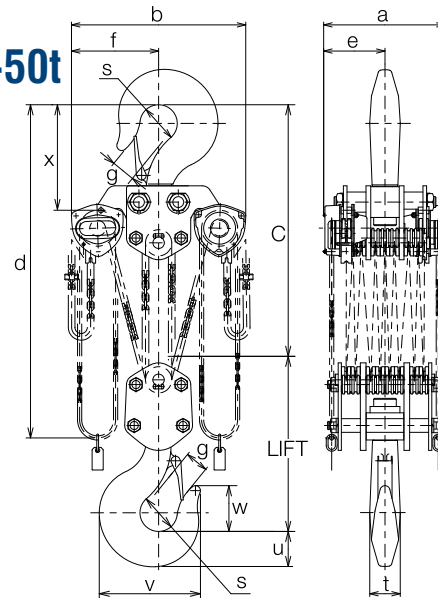
5t-10t



15t



20t-50t



- Any lift of chain is available upon request.
- As **SPEED** Chains are heat treated, splicing of the load chain is prohibited. In case longer lifting is required, specify required lifting height when ordering.



■ Operating environmental conditions

Operating temperature range -40°C to +60°C	Operating humidity range Use the hoist at under 100%RH. This product cannot be used in water.	Materials Standard materials are used. Special materials such as sparkless materials and asbestos are not used. With regard to the environmental load substances, 6 substances defined in the RoHS directives are not contained in this product.
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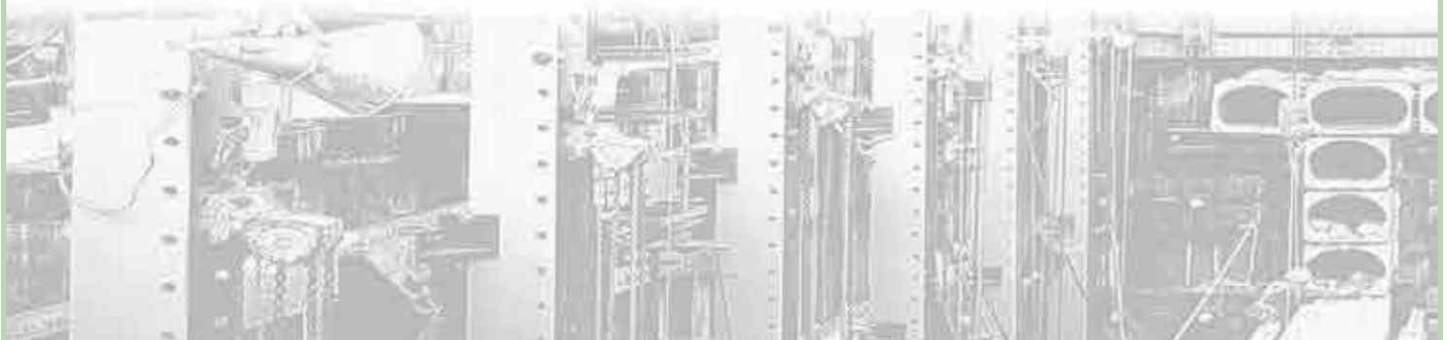
SPECIFICATIONS

Rated Load (W.L.L.) (t)	Code	Std. Lift (m)	Hand Chian Folded Lenght (m)	Chain Pull to Lift Full Lad (kgf)	Chain O' hauled to Lift Load One Meter (m)	Load Chain Diax Chain Fall (mm)	Test Load (t)	Mass (Net weight) (kg)	Shipping Mass (weight) (approx.) (kg)	Mass (weight) In kg for Additional One Meter of Lift (kg)
0.5	T2005	3	3	24	25	5.0 X1	0.75	9.6	10.5	0.3
1	T2010	3	3	25	43	6.0 X1	1.5	11.2	13	0.6
2	T2020	3	3	35	70	8.0 X1	3	16.25	20	1.25
3	T2030	3	3	40	114	10 X 1	4.5	29	35	2
5	T2050	3	3	37	198	10 X 2	7.5	29.3	41.3	4
7.5	T2075	3	3	37	297	10 X 3	11.25	44	62	6
10	T2100	3	3	40	396	10 X 4	15	55	49	8
15	T2150	3	3	38	597	10 X 6	22.5	99	135	12
20	T2200	3	3	40	39 X 2	10 X 8	30	142	190	16
30	T2300	3	3	43	495 X 2	10 X 12	45	178	250	24
40	T2400	3	3	43	693 X 2	10 X 14	60	546	630	28
50	T2500	3	3	49	79 X 2	10 X 16	75	694	790	32

- Other capacities are available upon request.
- Any lift of chain is available upon request.
- As **SPEED** chains are heat - treated, splicing of the load chain is prohibited.
- When ordering, specify the lifting height.
- Chain falls vary depending on the capacity of each hoist.

DIMENSIONS (mm)

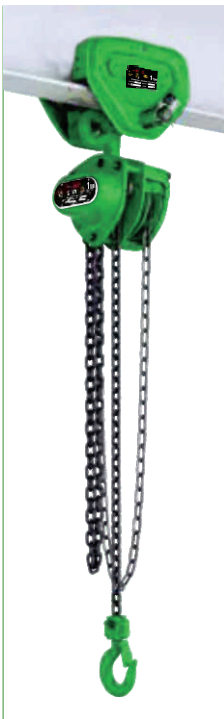
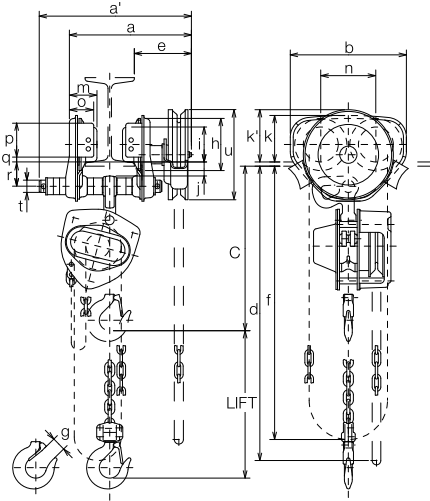
Rated Load (W.L.L.) (t)	Headroom :C	a	b	d	e	f	g	s	t	u	v	w	x
0.5	285	125	161	2500	69	99	27	35.5	12.1	17	77	35	89
1	375	151	172	2500	71	99	27	40	16	21.8	93	41	101
2	470	175	210	3000	87	125	37	50	21.8	30	116	49	124
3	548	205	255	3100	78	162	42	65	27.2	37.5	138	57	148
5	688	189	280	3600	91	194	46.5	63	34.5	47.5	161	67.5	172
7.5	690	189	433	4200	91	253	47	67	47.5	63	131	97.5	275
10	765	189	463	4200	111	308	54	85	47.5	63	131	97.5	295
15	900	189	776	4700	119	337	70	95	60	80	275	110	320
20	950	189	900	4800	187	373	80	106	67	90	301	125	351
30	1300	404	746	4800	202	373	103	125	85	112	367	143	400
40	1480	502	760	4900	251	380	96	145	123	133	412.5	182.5	445
50	1560	544	796	4900	272	398	100	165	135	155	447.5	202.5	467



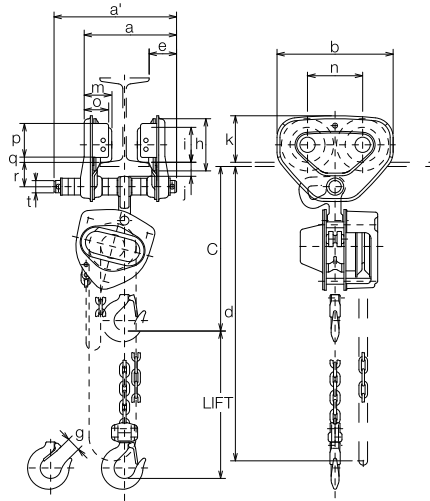
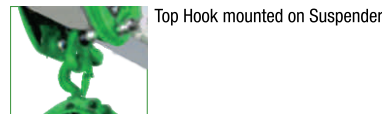
TROLLEY-CONNECTED HOIST



GEARED TYPE



PLAIN TYPE



SPECIFICATIONS

Rated Load (W.L.L.) (T)	Code	Std. Lift (m)	Hand Chain Folded Length (m)	Load Chain Dia. x Chain Fall (mm)	Test Load (T)	Mass (Net Weight) (kg)	Mass [weight] in kg for Additional One Meter of Lift (kg)
0.5	MB005	3.0	3.0	5.0 x 1	0.75	20.1	0.3
1	MB010	3.0	3.0	6.0 x 1	1.5	27.2	0.6
3	MB030	3.0	3.0	10 x 1	4.5	67	2
5	MB050	3.0	3.0	10 x 2	7.5	82.3	4
7.5	MB075	3.0	3.0	10 x 3	11.25	127	6
10	MB100	3.0	3.0	10 x 4	15	149	8
15	MB150	3.0	3.0	10 x 6	22.5	269	12
20	MB200	3.0	3.0	10 x 8	30	316	16

- MB and PP mean the T2 Series Chain Pulley Block connected with the T2 Series geared trolley and plain trolley respectively.
- Figures in parentheses show the data for the plain trolley. Other data are the same for both the plain and geared trolleys.
- The data for the standard I-beam width and the minimum radius for a curve is the same data as that shown on page 9.
- 15 ton-and-over capacity trolleys have 6-8 wheel construction.
- 30 ton-and-over capacity versions are available by request.

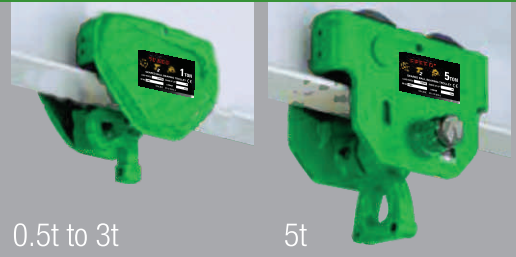
DIMENSIONS (mm)

Rated Load (W.L.L.) (T)	Head room :C	a (Max)	a	b	d	e	f	g	h	i	j	k	k	m	n	o	p	q	r	t	u
0.5	305(295)	275(173)	309(204)	236(182)	2500	16(46)	2300	27	106(82)	71(60)	28(19)	95(76)	106	56(47.5)	112(84)	50(42)	69(54)	10	50(38)	25(22)	183
1	305	275(215)	309(249)	236	2500	16(56)	2300	29	106	71	28	95	106	56	112	50	69	10	50	25	183
2	380	349(218)	385(300)	280	3000	54(69)	2800	36	127	85	34	112	109	71	131	63	83	10	62	32	183
3	535	359(280)	385(320)	324	3100	57(79)	2800	42.5	148	100	36	134	114	80	152	74	102	10	68	36	183
5	660	377(273)	401(297)	400	3600	56(53)	3300	46.5	169	118	47	144	131	81	178	70	104	10	88	54	183
7.5	870	443	595	180	4300	182	3700	72.5	185	155	53	170	165	120	196.5	104	89	8	153	70	214
10	860	443	595	180	4300	182	3700	72.5	185	155	53	170	165	120	196.5	104	89	8	153	70	214
15	1150	454	677	1000	4800	182	4200	80	185	155	62	170	165	120	716.5	104	89	8	203	80	214
20	1310	454	677	1000	4900	182	4200	81	185	155	62	170	165	120	716.5	104	89	8	203	80	214

- Figures in () are for PLAIN TYPE, Others are same as GEARED TYPE.

Speed Universal Trolleys T2 Series

PLAIN TYPE



0.5t to 3t

5t

GEARED TYPE



1t to 3t

5t to 10t

15t and over

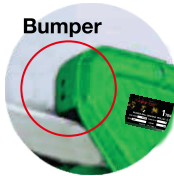
•Shape of the Suspender for 3t is similar to the shape of the Suspender for 5t.

•Shape of the Suspender for 3t is similar to the shape of the Suspender for 5t.

SMOOTH AND RELIABLE OPERATION

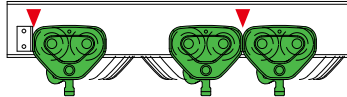
Mumpers & Buffers

SPEED's T2 Series Trolleys have bumpers, which fix trolley surely on the beam and guard against damage to a trolley and wheels arising from a collision with the stopper or between two trolleys. Buffers are available as option to install on the bumpers. Also, extended arms are available as option to install on the bumpers to help prevent damage to a hoist from collision from a hoist suspended on trolleys on the same beam.



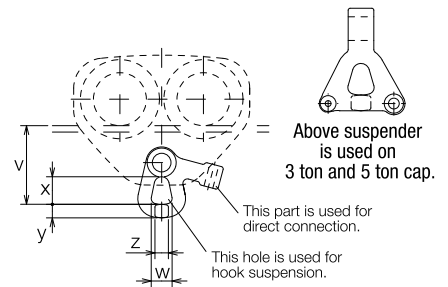
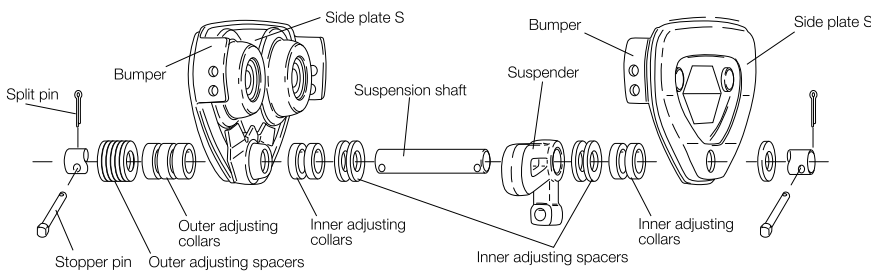
Bumper

Buffer is prepared as an option.



Accommodates a Wide Selection of Beam Widths

Trolleys are adjustable for various widths of both tapered and flat flanges by changing the adjustable spacers. They can also fit on beams of up to 305 mm flange width by replacing the suspension shaft, spacers and associated parts



Light and Compact Models

SPEED's years of trolley design experience make it possible to produce light and compact trolleys.

Improved Track Wheel Durability

SPEED's unique press process and heat treatment ensure high track wheel strength, leading to improved reliability and performance.

Specially Contoured Wheels Provide Security

This trolley maintains secure contact between wheels and flange surfaces even under highly variable load weights thanks to the carefully designed contours of the steel trolley wheels

Pivot Mounted Side Plates Ensure Even Weight Distribution

Both side plates are pivot mounted so that trolleys can move freely at adequate angles to the flange surface in spite of welded joints the might otherwise cause uneven weight distribution on the four wheels.

Ball Bearing Wheels Offer High Performance

High - grade, zero - lubrication sealed ball bearings are used on all wheels for smooth and reliable operation.

SPECIFICATIONS

Rated Load (W.L.L.) (T)	Code		Flange Width Adjustability (mm)			Min Radius for Curve (M)	Mass (Net Weight) (kg)		Hand Chain Folded Length (m)	Dimensions (mm)				
	Plain Trolley	Geared Trolley	Standard	Option			TSP	TSG		v	w	x	y	z
				W 20*	W 30*									
0.5	PPT005	GT005	50 to 102	103 to 203	204 to 305	0.8	10	10.5	3.0	75	32	28	14(18)	14(18)
1	PPT010	GT010	58 to 127	128 to 203	204 to 305	0.9	14.5	16	3.0	96	40	32	18	18
2	PPT020	GT020	82 to 153	-----	154 to 305	1.0	22	34	3.0	109	52	42	22	22
3	PPT030	GT030	82 to 153	-----	154 to 305	1.2	34	38	3.0	124	63	52	24	30
5	PPT050	GT050	100 to 178	-----	179 to 305	1.3	47	83	3.0	142	74	62	33	36
7.5	-----	GT075	150 to 220	-----	221 to 305	2.0	77	94	3.0					
10	-----	GT100	150 to 220	-----	221 to 305	2.0	88	170	3.0					
15	-----	GT150	150 to 220	-----	221 to 305	3.5	163	174	3.0	connection with T2 Series is hook suspension type for 7.5 ton and over cap. as standard.				
20	-----	GT200	150 to 220	-----	221 to 305	3.5	165	337	3.0					

•Figures in () are for GT005. •*: W20 and W30 mean 203 and 305mm flange width adjustability as option.

•In case of 7.5t and over capacity, trolley wheels for tapered flange are optional. Wheels for flat flanges are available as option. If you prefer wheels for flat flanges, please specify it in advance.

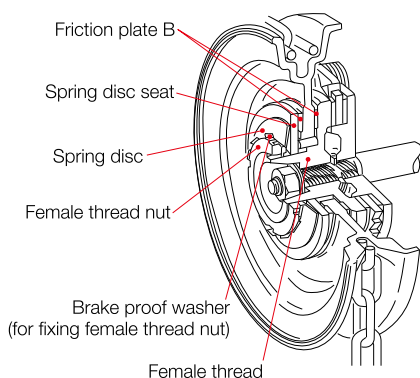
•In case of only straight I-beam, 0.5ton plain trolley can be used on 57mm and less width beam and 1ton plain trolley and geared trolley can be used on 73mm and less width beam and 2.5 & 3ton plain and geared trolley can be used on 89mm and less.

SPEED MANUAL CHAIN HOISTS

OPTIONAL EQUIPMENT

Overload Protection Device (OLL)

The hoist overload limiter protects the hoist mechanism from damage due to overloading. When an overload is applied to the hoist, the overload limiter actuates to stop lifting.



Corrosion Resistant Grade 80 Chain

We recommend chain hoists with Grade 80 chain when outstanding corrosion resistance is required. These chains are especially suited for use at work sites under the strong influences of rain and seawater, corrosive vapors and chemicals, etc.

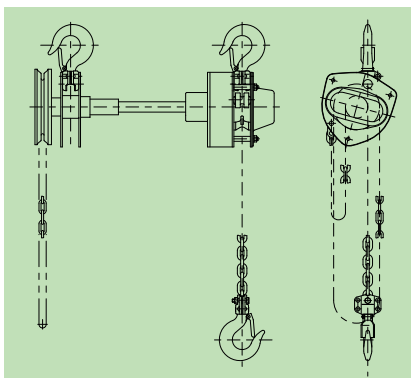
Because Grade 80 chains are manufactured by applying a unique osmotic - diffusion treatment to special metals using SPEED's exclusive technology, they are extremely resistant to corrosion and are immune to peeling of the nickel - plating.



Please consult with your nearest SPEED distributor prior to purchase to ensure the correct Grade 80 chain selection as the corrosion resistance efficiency varies according to the environmental chemicals at the application work site.

Hoist with Extended Hand Wheel Shaft

When work site conditions necessitate operating a hoist at a distance, the extended hand wheel shaft provides added convenience. The standard length of the extended shaft is 1m.



Trolley for Small Radius Curved Beams

Small radius curve trolley operation is available upon request by removal of the protective lug. Please consult with your nearest SPEED distributor for details.

Rated Load (W.L.L.) (t)	Std. Flange width (mm)	Min. radius for Curve (mm)
0.5	74 to 127 (58 to 102)	450 (350)
1	74 to 127	450
2	82 to 153	550
2.5	90 to 153	650
3	90 to 153	650

Figures in parentheses show data for the plain trolley.

Spark Resistant Hoist

SPEED produces special spark-resistant chain hoists for use on work sites where spark protection is required. Please consult with your nearest SPEED distributor about the specific needs of your work site.

Chain Conainer

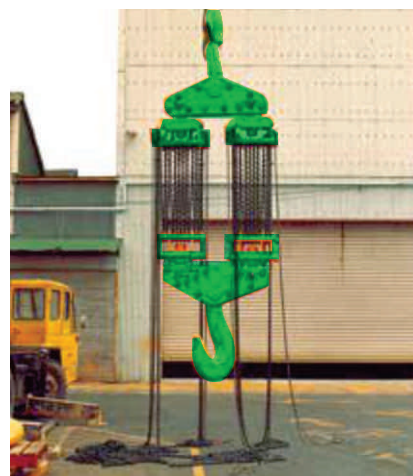
In situations where the load chain on the no-load side is a hindrance when the load is raised, the load chain can be kept in a chain container attached to the chain hoist. Both steel and canvas chain container are available upon request.

Rail Clamp Device

A rail clamp prevents a manually-operated trolley from traveling by itself. Activated by manipulating a hand chain, the trolley rail clamp is convenient when fixing a trolley at a pre-set position, such as in a rolling and pitching ship or in a sloped tunnel.

Large Capacity Chain Hoist

Chain hoists with lifting capacities up to 100 tons are available upon request.



INFORMATION

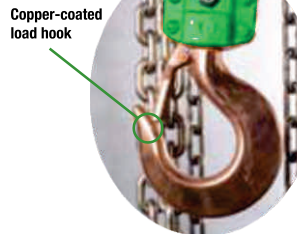
Manual Chain Hoist **T2 Series**

0.5t to 50 t

Ex- Protected
EX II 2G c
IIB T4 Ex II
2d c 135 °C



- > **Allows the operation in potentially explosive atmosphere**
Conforms to ATEX Directive 94/9/EC
- > **Increased safety for temperature limit range**
Maximum equipment temperature 135 °C
- > **Safe operation in potentially explosive atmosphere**
Protected against explosive gases, vapors and dust



High Speed CPB Speedy lifting and lowering! Automatic high & low speed change!

0.5t to 50 t

Stress-free 7:1 Lifting Speed!
High Speed KII is just released!

Succeeded in no-load high-speed operation
With originally developed automatic high/low-speed clutch technology, SPEED has realized no-load seven times lifting speed.
This gear shows outstanding durability in continuous and long-term use though it is small size.
Operability in a loaded condition is as high as the standard specifications.
Relieved from past stress, a worker can smoothly prepare for his field work.



Unique Industry Innovation!

Equipped with automatic speed change gear in no-load.

SPEED

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SPEED

ESTD : 1964

Manufactured by :

R.N. SURESH TOOLS CORPN.

🌐 www.speedrns.com