



TCR 3000P  
with  
Pendant control



TCR 1000C2  
with  
Rope control

In compliance with EX-Zone-Classes  
EN 50 014 and newest EC-Machinery  
Directive 94/4/EG (ATEX- guide lines).

TYPE	LIFTMASTER TCR...	250C/P	500C/P	1000C2/P	1000C/P	2000C2/P	3000C/P
Capacity (Air pressure 6 bar - 1Bm)	t	0.25	0.5	1	1	2	3
Lifting speed without load	m/min	20.5	20.5	10.3	11.3	5.7	5.4
Lifting speed with full load	m/min	10.5	10.5	5.3	6	3	2.8
Lowering speed without load	m/min	13.4	13.4	6.7	6.8	3.4	3.3
Lowering speed with full load	m/min	17.9	17.9	9	10.3	5.2	4.6
Air consumption with full load	l/sec	25	25	25	25	25	33
Number of chain falls		1	1	2	1	2	1
Air inlet R	inch	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
Chain size (diameter)	mm	6.3 x 19.1	6.3 x 19.1	6.3 x 19.1	7.1 x 21	7.1 x 21	11.2 x 34
Weight with standard lift	kg	31	31	34	35	40	69
TCR... with 3m lift with rope control	<b>Order No.</b>	<b>H10001</b>	<b>H10002</b>	<b>H10003</b>	<b>H10004</b>	<b>H10005</b>	<b>H10006</b>
TCR... with 3m lift with pendant control	<b>Order No.</b>	<b>H10015</b>	<b>H10016</b>	<b>H10017</b>	<b>H10018</b>	<b>H10019</b>	<b>H10020</b>
Add. lift per meter	<b>Order No.</b>	<b>H10029</b>	<b>H10029</b>	<b>H10030</b>	<b>H10031</b>	<b>H10032</b>	<b>H10033</b>
Maintenance unit	<b>Order No.</b>	<b>H10054</b>	<b>H10054</b>	<b>H10054</b>	<b>H10054</b>	<b>H10054</b>	<b>H10055</b>
Chain bag (plastic) to 3 m lift	<b>Order No.</b>	<b>H10057</b>	<b>H10057</b>	<b>H10058</b>	<b>H10058</b>	<b>H10058</b>	<b>H10059</b>
Add. air powered trolley DLK	<b>Order No.</b>	<b>H10044</b>	<b>H10052</b>	<b>H10053</b>	<b>H10099</b>	<b>H10045</b>	<b>H10046</b>

TYPE	LIFTMASTER TCR...	6-C2/P2	10-C2/P2	12-C4/P4	15-C5/P5	20-C4/P4	25-C2/P2
Capacity (Air pressure 6 bar - 1Bm)	t	6	10	12	15	20	25
Lifting speed without load	m/min	2.7	2.2	1.4	1.1	1.2	0.7
Lifting speed with full load	m/min	1.4	1.5	0.7	0.6	0.8	0.5
Lowering speed without load	m/min	1.7	1.8	0.8	0.7	0.9	0.5
Lowering speed with full load	m/min	2.3	2.3	1.2	0.9	1.2	0.7
Air consumption with full load	l/sec	33	90	33	33	90	120
Number of chain falls		2	2	4	5	4	2
Air inlet R	inch	1/2"	1"	1/2"	1/2"	1"	1"
Chain size (diameter)	mm	11.2 x 34	16 x 45	11.2 x 34	11.2 x 34	16 x 45	22 x 66
Weight with standard lift	kg	90	190	170	221	470	320
TCR... with 3m lift with rope control	<b>Order No.</b>	<b>H10007</b>	<b>H10008</b>	<b>H10009</b>	<b>H10010</b>	<b>H10011</b>	<b>H10012</b>
TCR... with 3m lift with pendant control	<b>Order No.</b>	<b>H10021</b>	<b>H10022</b>	<b>H10023</b>	<b>H10024</b>	<b>H10025</b>	<b>H10026</b>
Add. lift per meter	<b>Order No.</b>	<b>H10034</b>	<b>H10035</b>	<b>H10036</b>	<b>H10037</b>	<b>H10038</b>	<b>H10039</b>
Maintenance unit	<b>Order No.</b>	<b>H10055</b>	<b>H10055</b>	<b>H10055</b>	<b>H10055</b>	<b>H10056</b>	<b>H10056</b>
Add. air powered trolley DLK	<b>Order No.</b>	<b>H10047</b>	<b>H10048</b>	<b>H10049</b>	<b>H10109</b>	<b>H10050</b>	<b>H10051</b>

TYPE	Order No.
Add. control length rope control / m	<b>H10042</b>
Add. control length pendant control / m	<b>H10043</b>

Chain bag up 6 t (steel plate) on request.

Pneumatic-Special-Oil	Order No.
Content: 2.5 Liter	<b>H20566</b>

## Pneumatic air chain hoist LIFTMASTER TCR

### The air chain hoist, why?

A hoist cannot be selected solely on the basis of its lifting capacity. Ease of operation, environment, intended use, frequency of use and degree of speed control are important factors that need to be considered. The driving force behind increased use of the LIFTMASTER in the industrial market place is that a growing number of industries are simply finding the many inherent advantages of the LIFTMASTER.

### Environment

The air chain hoist LIFTMASTER can be operated in explosive atmospheres and corrosive environments, because the air motor is inherently spark resistant and also extremely resistant to adverse external conditions.

### Reliable, trouble free

Overloading will not damage the motor because there is an automatic switch-off over 1 t capacity. Whether you are faced with constant stop-start or continuous operation, you can expect reliable performance.

### Variable speed control

Infinitely variable speed control allows for accurate and precise load positioning. You can inch loads into position or increase the speed when accuracy is of less importance.

### Smooth starts & stops

Important for operator safety as well as for reducing parts wear and maintenance. Smoother operation leads to less vibration, less stress on parts and a longer unit life.

### Compact & lightweight

Small external dimensions and a lightweight construction make the LIFTMASTER hoist ideal for close head room situations and temporary installations.

### Very economical

Approximately 1/3 of the cost of a wire-rope hoist of the same capacity with same features.

### Standard

Height of lift 3 m,  
Control length 2 m, use up to  
 -Zone IIA 3 GD c T4/T5/T6.

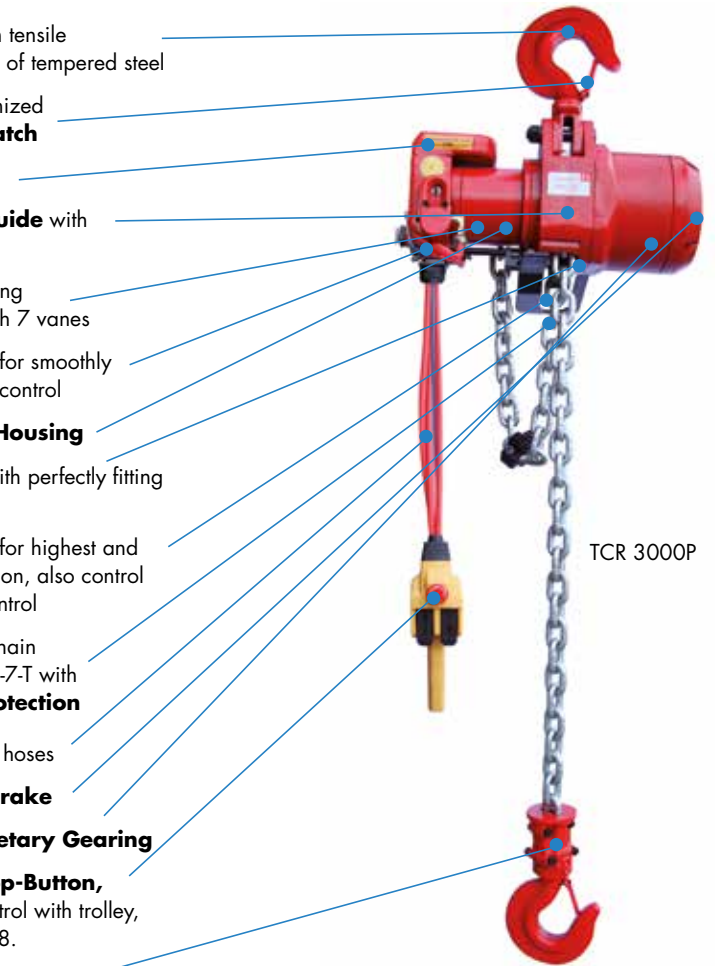
## Air pressure

The LIFTMASTER hoist reaches its nominated performance data at 6 bar flowing air pressure. But it can operate also with only 4 or 5 bar, which decreases the lifting speed by 20 to 30 percent. The SWL will still be lifted. The type series TCR has a wide capacity spectrum from 250 kg up to 100 tons upon request. All hoists have an excellent relation between price and performance. They are infinitely adjustable in lifting and lowering speed and can work continuously. The pull chain control is even better in speed regulation than the push key control because it works directly on the inside main valve. The TCR is also available with special chains from sparkproof material and hooks can be treated with bronze plating. Please ask for our assistance to choose the correct option.

## Air powered trolley

There are air powered and gear type trolleys available for all capacities of LIFTMASTER. Please inquire!

- Drop forged, high tensile **Top Hook** made of tempered steel
- Rigid, zinc galvanized **Hook Safety Latch**
- Efficient **Muffler**
- Precise **Chain Guide** with chain stripper
- Dependable starting **Vane Motor** with 7 vanes
- Control Valve**, for smoothly adjustable speed control
- Robust cast steel **Housing**
- Sprocket wheel with perfectly fitting **milled** pockets
- Limit Switches** for highest and lowest hook position, also control lever for chain control
- Round link steel chain acc. DIN EN 818-7-T with **Galvanized Protection**
- Flexible** Control hoses
- Automatic **Disc Brake**
- Three-stage **Planetary Gearing**
- Emergency-Stop-Button**, also for 4-key-control with trolley, according EN 418.
- Swivel Hook** in axial ball bearing



TCR 3000P



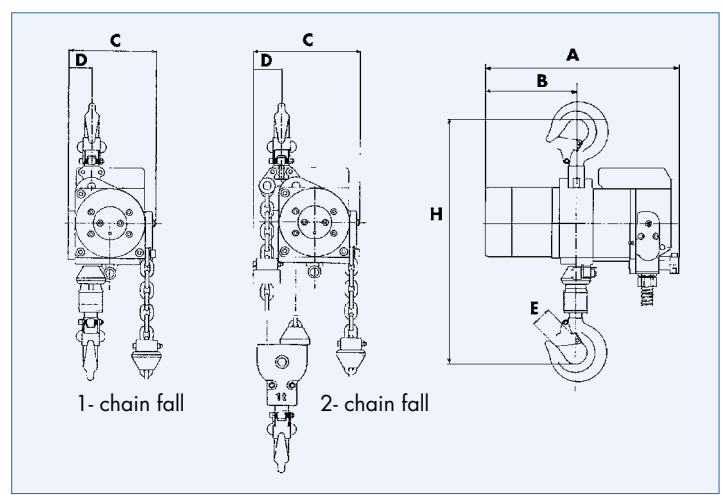
Air powered trolley DLK



10 t



25 t



TYPE	TCR...	A	B	C	D	E	H
TCR 250 C/P		342	156	149	52	29	462
TCR 500 C/P		342	156	149	52	29	462
TCR 1000 C2/P2		342	156	180	47	29	519
TCR 1000 C/P		342	156	157	40	29	466
TCR 2000 C2/P2		342	156	194	50	29	580
TCR 3000 C/P		449	202	245	47	34	580

TYPE	TCR...	A	B	C	D	E	H
TCR 6 C2/P2		449	202	275	63	42	690
TCR 10 C2/P2		560	247	445	165	40	890
TCR 12 C4/P5		441	191	520	210	57	900
TCR 15 C5/P5		441	191	480	210	83	900
TCR 20 C4/P4		549	247	230	200	100	1350
TCR 25 C2/P2		710	335	478	165	80	1440

**Hoists in trolley on request!**