

Tiger Industrial Air Hoists



Main Features

- Range - 0.25 tonne to 20 tonne
- Reliable, fast, efficient, quiet and lightweight
- Greater than 5:1 factor of safety
- Suitable for Fleeting/Oblique pulling

Load Limiter

Integral differential pressure load limiting valve automatically prevents the operator lifting a load of more than 125% of the working load limit. Load limiter is 100% repeatable at all working pressures and does not wear or generate damaging heat.

Pendant control

Pendant control options are supplied with aluminium anodised controls as standard. Nickel plated SG iron options and twist grip pendants are available as option.

Emergency Stop

Pendant control hoists are supplied with a mains emergency stop valve. This shuts off the main air supply to the hoist when activated.

Precise Control

Accurate and precise positioning of loads is standard for both toggle and pendant control models.

Fail Safe Disc Brake

Non-asbestos self-adjusting disc brake is applied automatically when the air supply to the hoist is shut off. The brake is self-adjusting for the life of the brake and can hold more than 125% of the working load limit.

Fleeting or Oblique Pulling

This type of application is when the load deviates from the vertical position with a force acting directly between load hook and suspension point.

Integral Silencer

The exhaust air silencer is built into the hoist gearbox housing and limits the noise level to below 85dB(A).

Load Chain

Grade 8 load chain ensures stringent high-speed duty cycles can be met. The load chain is in accordance with the requirements of EN818-7 Appendix B.

Vane Motor

Assisted vane lifting ensures maximum starting torque when starting under load.



Sealed Gearbox

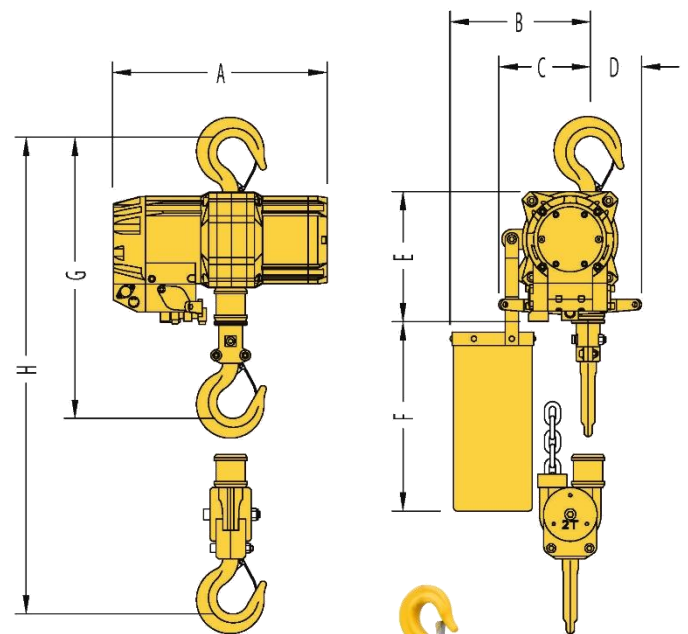
The sealed planetary gearbox ensures that the most stringent duty cycles can be met. The gears are heat treated and mounted on high strength, low friction bearings.

Ease of Maintenance

The modular design of the hoist allows easy access to internal components such as the motor, gearbox, brake and load limiter. Common parts are used throughout the range.

TAHS Range – 0.25, 0.5, 1.0, 2.0 tonne Technical Data (at 6 bar)

	AH-002	AH-005	AH-010	AH-020
Lifting Capacity (tonne)	0.25	0.5	1.0	2.0
Falls of Chain	1	1	1	2
Chain Size (mm)	7.1 x 21.2	7.1 x 21.2	7.1 x 21.2	7.1 x 21.2
Total Weight (kg) *	25.0	25.0	25.0	32.8
Full Load Lifting Speed (m/min)	22.5	15.0	7.5	3.8
No Load Lifting Speed (m/min)	32.0	29.5	16.0	8.0
Full Load Lowering Speed (m/min)	31.0	36.0	20.4	10.2
No Load Lowering Speed (m/min)	25.0	23.0	13.0	6.5
Air Consumption (m ³ /min)	2.1	2.1	2.1	2.1
Air Connection	G½	G½	G½	G½
Supply Hose (Inside Ø) (mm)	16.0	16.0	16.0	16.0
Sound Level (dB(A))	76	76	76	76
Dimensions (mm)	A	312	312	312
	B	216	216	216
	C	135	135	135
	D	85	85	85
	E	196	196	196
	Min F	370	370	370
	Min G	420	420	420
	Min H	-	-	-

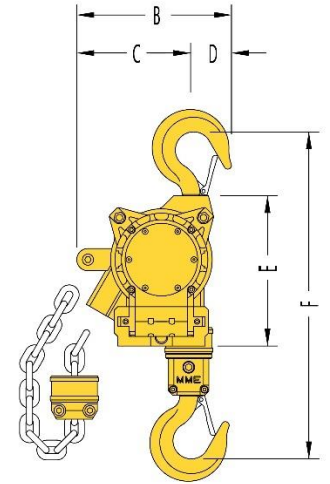
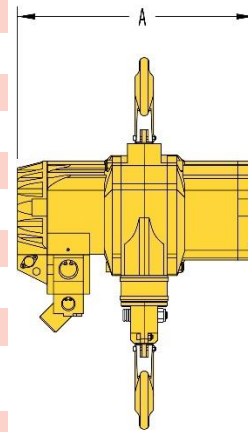


AH-002T

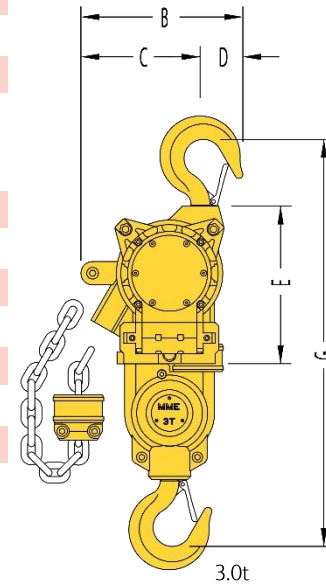
* Weight of TAHS model includes 3m lift, 2m toggle control. For longer lifts add 1.1kg for AH-002, AH-005 and AH-010 models and 2.2kg for AH-020 per metre of lift. For pendant control add 0.8kg.

**TAH21 Range – 1.5, 2.0, 3.0 tonne
Technical Data**

	AH-015	AH-021	AH-032
Lifting Capacity (tonne)	1.5	2.0	3.0
Falls of Chain	1	1	2
Chain Size (mm)	10 x 28	10 x 28	10 x 28
Total Weight (kg) *	55	55	67
Full Load Lifting Speed (m/min) @ 6 bar	6.2	5.3	3.1
Full Load Lifting Speed (m/min) @ 4 bar	4.2	3.0	2.1
No Load Lifting Speed (m/min) @ 6 bar	8.7	8.7	4.3
Full Load Lowering Speed (m/min) @ 6 bar	8.6	9.0	4.3
No Load Lowering Speed (m/min) @ 6 bar	7.5	7.5	3.7
Air Consumption (m ³ /min) @ 6 bar	2.6	2.6	2.6
Air Consumption (m ³ /min) @ 4 bar	1.7	1.7	1.7
Air Connection:	G ¾	G ¾	G ¾
Supply Hose (Inside Ø) (mm)	19	19	19
Sound Level (dB(A)):			
Full Load Lifting @ 6 bar	81	81	81
Full Load Lowering @ 6 bar	83	83	83
Dimensions (mm)	A	382	382
	B	250	250
	C	184	184
	D	66	66
	E	213	213
Min	F	515	515
Min	G	-	610



1.5 and 2.0t



3.0t



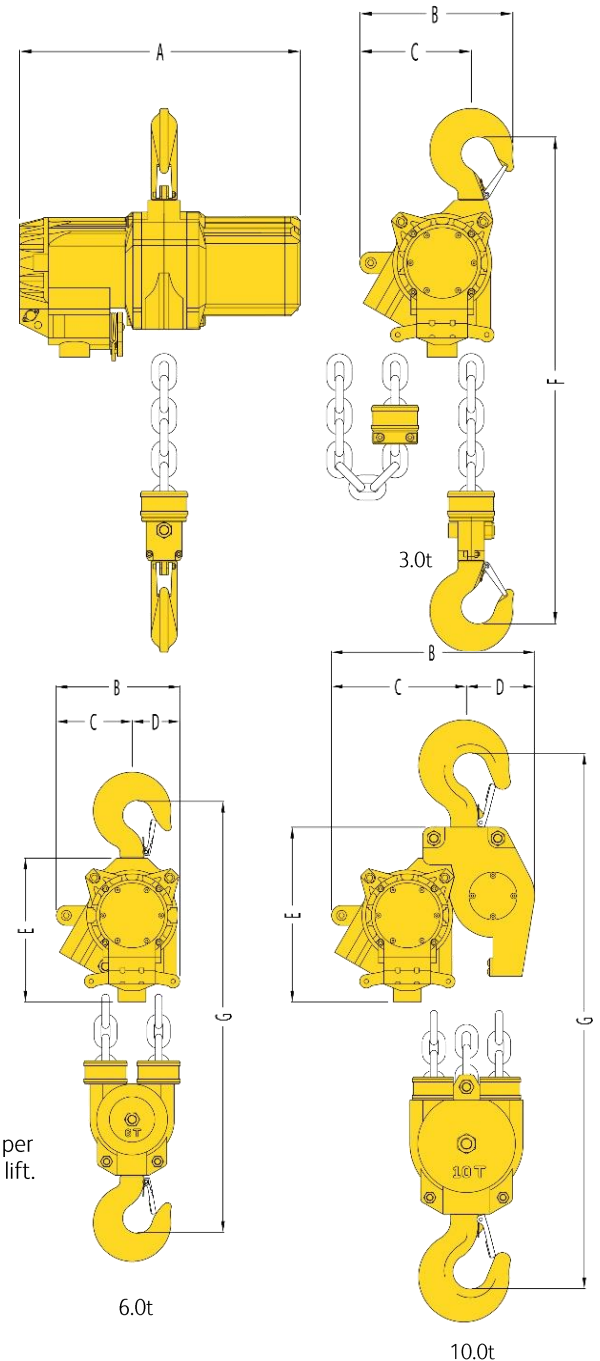
AH-021P

* Weight of TAH21 model includes 3m lift, 2m toggle. For longer lifts add 2.2kg per metre of lift for AH-015 and AH-021 and 4.4kg for the AH-032 per metre of lift. For pendant control add 0.4kg, for E/Stop pendant add 2.1kg.

TAH33 Range – 3.0, 6.0, 10.0 tonne
Technical Data

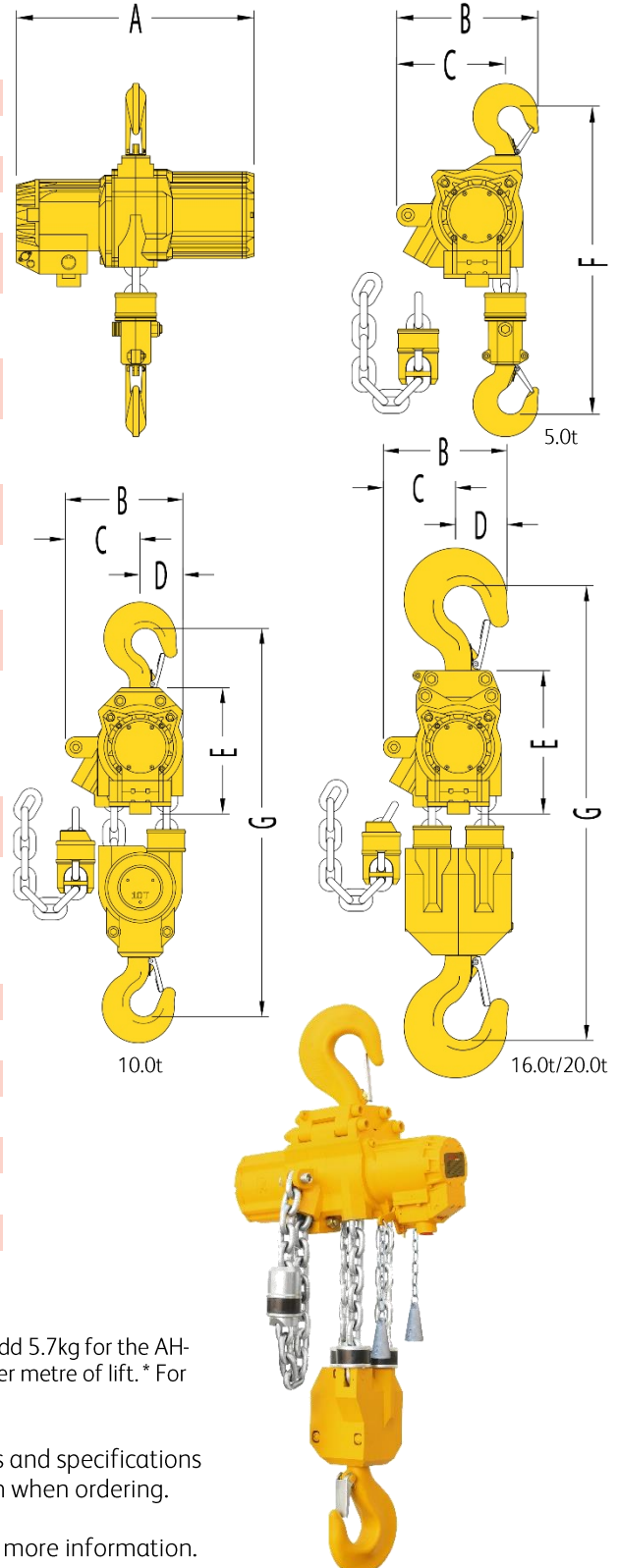
	AH-030	AH-060	AH-103	
Lifting Capacity (tonne)	3.0	6.0	10.0	
Falls of Chain	1	2	3	
Chain Size (mm)	13 x 36	13 x 36	13 x 36	
Total Weight (kg) *	76.5	99.5	139.5	
Full Load Lifting Speed (m/min) @ 6 bar	5.3	2.6	1.6	
Full Load Lifting Speed (m/min) @ 4 bar	3.8	1.9	1.1	
No Load Lifting Speed (m/min) @ 6 bar	7.5	3.7	2.4	
Full Load Lowering Speed (m/min) @ 6 bar	8.3	4.1	2.6	
No Load Lowering Speed (m/min) @ 6 bar	6.8	3.4	2.2	
Air Consumption (m ³ /min) @ 6 bar	4.0	4.0	4.0	
Air Consumption (m ³ /min) @ 4 bar	2.6	2.6	2.6	
Air Connection:				
Toggle & Pilot Pendant Control	G1	G1	G1	
E/Stop Pilot Pendant Control	G ¾	G ¾	G ¾	
Supply Hose (Inside Ø) (mm)	25	25	25	
Sound Level (dB(A)):				
Full Load Lifting @ 6 bar	81	81	81	
Full Load Lowering @ 6 bar	83	83	83	
Dimensions (mm)				
	A	466	466	466
	B	254	223	366
	C	185	137	243
	D	-	86	123
	E	-	259	315
Min	F	538	-	-
Min	G	-	630	786

* Weight of TAH33 model includes 3m lift, 2m toggle control. For longer lifts add 3.8kg per metre of lift for AH-030, 7.6kg for the AH-060 and 11.4kg for the AH-103 per metre of lift. For pendant control add 0.8kg.



TAH52 Range – 5.0, 10.0, 16.0, 20.0 tonne
Technical Data

	AH-050	AH-102	AH-160	AH-200
Lifting Capacity (tonne)	5.0	10.0	16.0	20.0
Falls of Chain	1	2	3	4
Chain Size (mm)	16 x 45	16 x 45	16 x 45	16 x 45
Total Weight (kg) *	106	152	245	288
Full Load Lifting Speed (m/min) @ 6 bar †	3.0	1.5	0.9	0.7
Full Load Lifting Speed (m/min) @ 4 bar †	1.9	0.9	0.6	0.4
No Load Lifting Speed (m/min) @ 6 bar †	4.0	2.0	1.1	0.9
Full Load Lowering Speed (m/min) @ 6 bar †	4.4	2.2	1.3	1.0
No Load Lowering Speed (m/min) @ 6 bar †	3.3	1.7	1.0	0.8
Air Consumption (m ³ /min) @ 6 bar	4.0	4.0	4.0	4.0
Air Consumption (m ³ /min) @ 4 bar	2.6	2.6	2.6	2.6
Air Connection:				
Toggle & Pilot Pendant Ctrl	G1	G1	G1	G1
E/Stop Pilot Pendant Ctrl	G ¾	G ¾	G ¾	G ¾
Supply Hose (Inside Ø) (mm)	25	25	25	25
Sound Level (dB(A)):				
Full Load Lifting @ 6 bar	82	82	82	82
Full Load Lowering @ 6 bar	83	83	83	83
Dimensions (mm)	A	B	C	D
	503	300	230	-
		270	170	100
			180	110
				115
		E		
		286	325	325
Min	F	600	-	-
Min	G	-	790	905
			920	



* Weight of TAH5200 model includes 3m lift, 2m toggle control. For longer lifts add 5.7kg for the AH-050, 11.4kg for the AH-102, 17.1kg for the AH-160 and 22.8kg for the AH-200 per metre of lift. * For pendant control add 0.8kg.

Due to our policy of continual product development, dimensions, weights and specifications may change without prior notice. Please check with your Tiger sales team when ordering.

Bespoke designs available on request – contact info@tigerlifting.com for more information.

AH-160T