



Tiger industrial air hoists are designed specifically for industrial and general engineering applications such as automotive plants, foundries, heat treatment plants, zinc refineries and acid battery manufacturing facilities. The hoists operate at air pressures of between 4 and 6 bar. They comply with the requirements of ASME B30.16 and EN14492-2. The manufacturing facility producing the hoists is ISO9001, ISO14001 & OHSAS18001 certified.

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

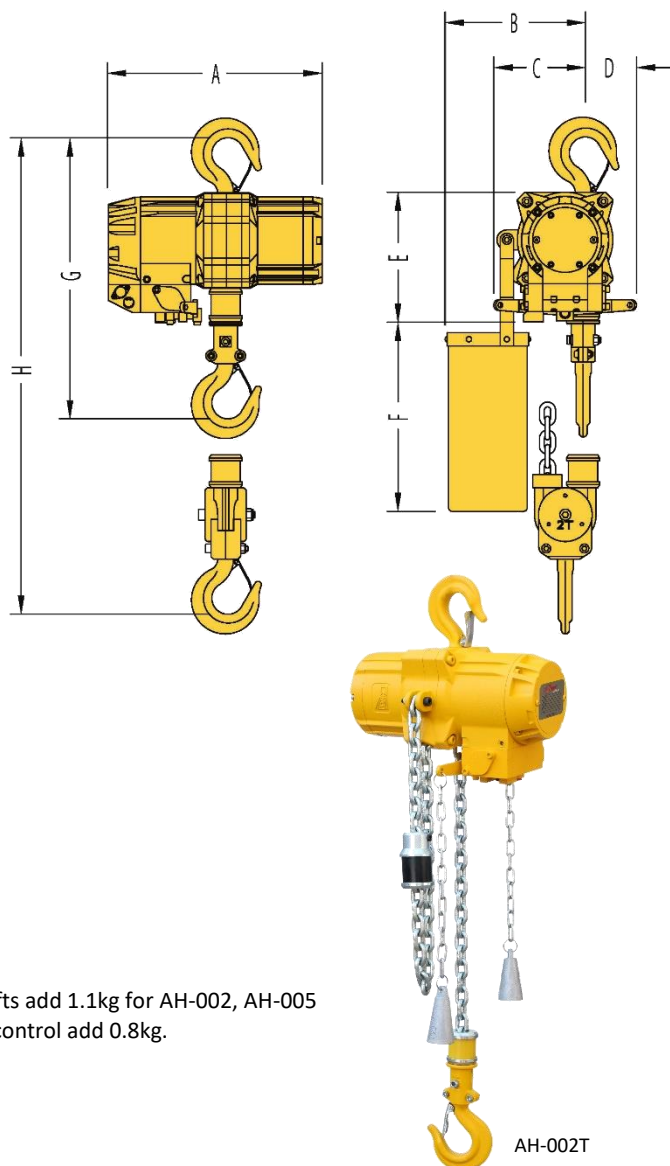
The sealed planetary gearbox ensures that the most stringent duty cycles can be met. The gears are heat treated and mounted on high strength, low friction bearings.

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	312
B	216	216	216	216
C	135	135	135	135
D	85	85	85	85
E	196	196	196	196
Min F	370	370	370	370
Min G	420	420	420	-
Min H	-	-	-	495

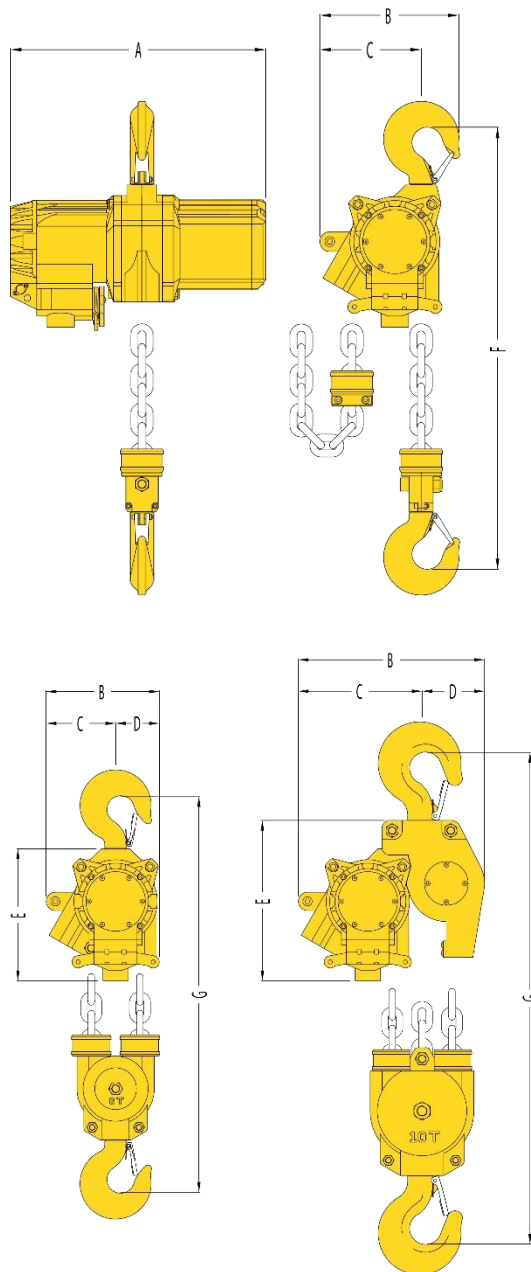


* Weight of TAHS model includes 3m lift, 2m toggle control. For longer lifts add 1.1kg for AH-002, AH-005 and AH-010 models and 2.2kg for AH-020 per metre of lift. For pendent control add 0.8kg.



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 (m³/min) @ 6 bar	4.0	4.0	4.0
Air Consumption (m³/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



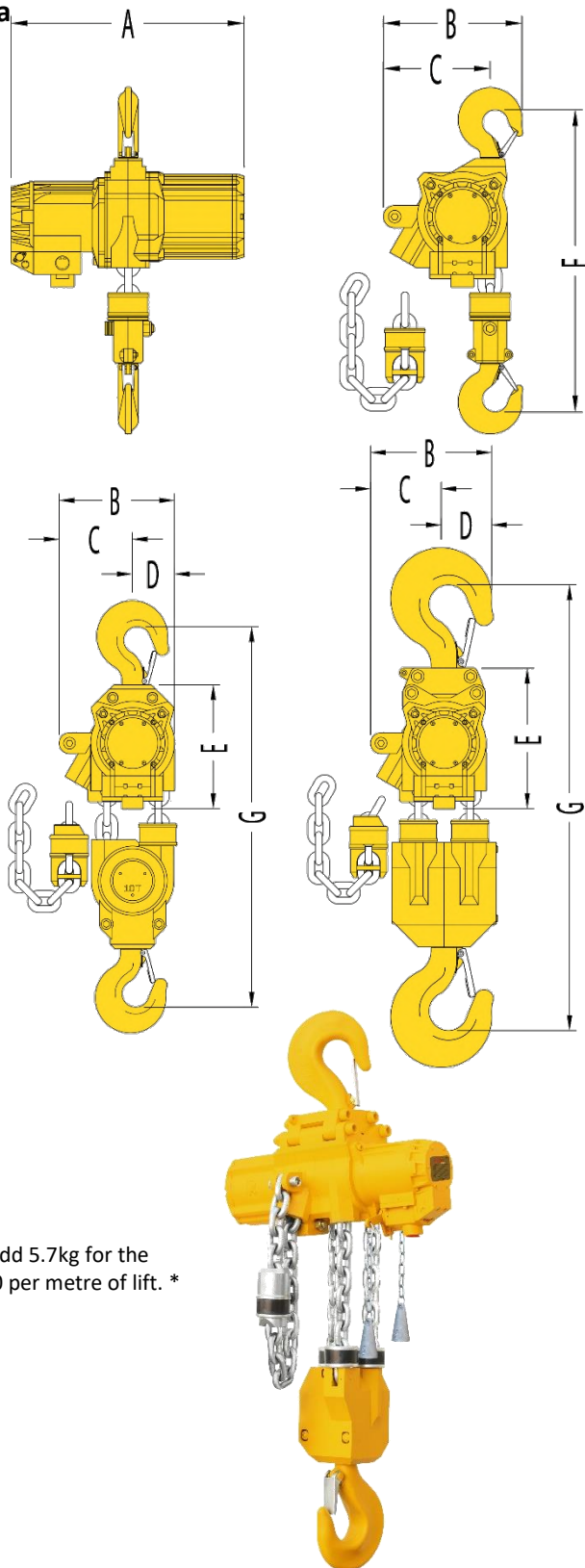
* Weight of TAH33model includes 3m lift, 2m toggle control. For longer lifts add 3.8kg per metre of lift for AH-030, 7.6kg for the AH-060 and 11.4kg for the AH-103 per metre of lift. For pendent control add 0.8kg.



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 (m³/min) @ 6 bar	4.0	4.0	4.0	4.0
Air Consumption (m³/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	503	503	616	616
B	300	270	290	280
C	230	170	180	165
D	-	100	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.