

Air Chain Hoist - 250 to 2000 kg Capacity

PALAIR® PLUS Hoist for Precise Positioning

Precise positioning

- Exclusive gear type air motor with high starting torque offering precise spotting capability.
- Infinitely variable speed control through pilot pendent.

Rugged and compact design,

- Compact and lightweight aluminium body.
- High power to weight ratio (e.g. 24 kg for 2 ton capacity).
- 100% duty cycle gear motor – Insensitive to dust and humidity or contaminated air.
- Corrosion resistant load chain.

Safety

- Self adjusting automatic disc brake, fully enclosed for better protection – No maintenance required.
- Fully integrated top and bottom limit switches.
- Overload protection device as standard on CE marked 1.6 and 2 ton versions, (optional on all other versions).

Versatility

- Numerous options available for adaptation to your application: chain containers, rigid mounting trolleys, CE compliant versions, specific versions with stainless steel load chain.



PAL500K-2C2M2A-E



PALAIR PLUS under motorised trolley for wide beam



PALAIR® PLUS Series are particularly suitable for use in potentially explosive atmospheres. In their standard design, they are classified as equipment category 3 for applications in zone 2 as per ATEX 94/9/CE Directive (ATEX marking Ex II 3 GD c IIB 135°C X).

With "R" spark resistant, option, they conform to Zone 1 (ATEX marking Ex II 2 GD c IIB 135°C X).

Specifications at 6.3 bar dynamic pressure (when hoist is running). Working pressure 5 to 7 bar.

As per European Standard EN 14492-2 Group of mechanism as per FEM 1Bm / ISO M3.

Model number	Rated capacity (kg)	Falls of load chain	Min. headroom (mm)	Lifting speed at rated load (m/min)	Lifting speed at no load (m/min)	Lowering speed at rated load (m/min)	Air cons. at rated load (m ³ /min)	Sound pressure ⁽¹⁾ (dB(A))	Hoist weight ⁽²⁾ (kg)	Chain size (mm)	Chain weight/1m extra lift (kg)
PALAIR® Plus fitted with zinc plated alloy steel load chain											
PAL250K	250	1	433	20	30	23	2.2	85	15	5x15	0.54
PAL500K	500	1	433	15	30	27	2.2	85	15	5x15	0.54
PAL1000K	980	2	459	7.5	15	13.5	2.2	85	18	5x15	1.08
PAL1001K	980	1	428	7	14	13	2.2	85	19	7x21	1.10
PAL2000K	2000	2	554	3.5	7	6.5	2.2	85	24	7x21	2.20
PALAIR® Plus fitted with stainless steel load chain											
PAL250K...X	250	1	433	20	30	23	2.2	85	15	5x15	0.54
PAL310K...X	310	1	433	18	30	27	2.2	85	15	5x15	0.54
PAL630K...X	630	2	459	9	15	13.5	2.2	85	18	5x15	1.08
PAL800K...X	800	1	428	8	14	13	2.2	85	19	7x21	1.10
PAL1600K...X	1600	2	554	4	7	6.5	2.2	85	24	7x21	2.20

Trolley Mount Configuration – Additional specifications

Model number	Trolley type	Flange width (mm)	Beam flange adjustment (mm)	Min. inside curve radius (mm)	Max. traverse speed / 1 ton load at 6.3 bar (m/min) ⁽³⁾	Max. traverse speed / 2 ton load at 6.3 bar (m/min) ⁽³⁾	Trolley air consumption (m ³ /min) ⁽³⁾	Weight (trolley only) (kg)
PRU option	Plain	Standard	83 to 152	1067	—	—	—	15.5
PRUW option	Plain	Wide	152 to 305	1067	—	—	—	20.5
GRU option	Geared	Standard	83 to 152	1067	—	—	—	16.8
GRUW option	Geared	Wide	152 to 305	1067	—	—	—	21.8
HU option	Motorised	Standard	83 to 152	1067	27	24	0 to 1.2	20.5
HUW option	Motorised	Wide	152 to 305	1067	27	24	0 to 1.2	25.5

(1) Sound pressure levels are measured per European Standard EN 14492-2

(2) Weight with standard height of lift (3 m) and standard length of control (2 m).

How to order PALAIR® PLUS Hoists

Please specify complete model code as shown.



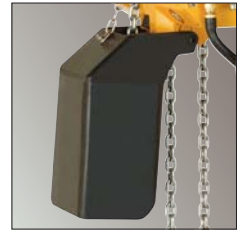
PALAIR® PLUS CE marked models are compliant with the European Machinery Directive 2006/42/EC and the European Standard for Power Driven Hoists EN 14492-2.

They are fitted as standard with:

- Main air emergency stop.
- Overload protection device (on PAL1600K and PAL2000K only).



Two motor PHS pendant with emergency stop



12 m capacity chain bucket (option B)

PAL500K - 3

HU

3M2 -

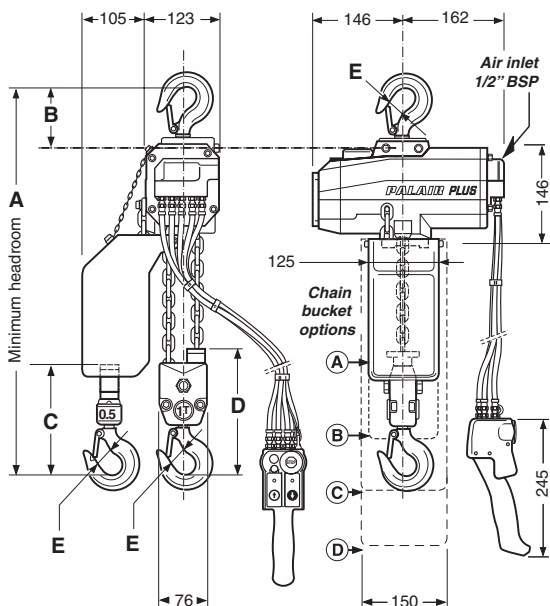
AR-E

Series	Capacity	Control type	Suspension	Lift & control in metres	Options
PAL PALAIR®	PALAIR® PLUS series with standard zinc plated alloy steel load chain	2 One motor PHS pendant	A Fixed lug mount C Swivel top hook	3M2 Standard: 3 m height of lift and 2 m of control	A Moulded chain bucket - 6 m capacity. B Moulded chain bucket - 12 m capacity. C Metal chain bucket - 24 m capacity (only for PAL250K, PAL310K, PAL500K and PAL1000K). D Metal chain bucket - 36 m capacity (24 m capacity for PAL800K, PAL1001K, PAL1600K and PAL2000K)
	PALAIR® PLUS series with stainless steel load chain (= with option X)	3 Two motor PHS pendant (for hoist & trolley)	PRU Plain rigid universal trolley PRUW Plain rigid universal trolley for wide beam GRU Geared rigid universal trolley GRUW Geared rigid universal trolley for wide beam HU Vane motor driven universal trolley HUW Vane motor driven universal trolley for wide beam	XMx Specify heights of lift and control in metres, e.g. 5M4 = 5 m of lift with 4 m of control)	J12 Airline filter and lubricator assembly J123 Airline filter / regulator / lubricator assembly R Corrosion & Spark resistant package for zone 1 ⁽¹⁾ S Overload protection, available for CE models only (as standard on PAL1600K and PAL2000K "CE" versions).
					X Must be added to model code of all models fitted with stainless steel load chain.
					-E Compliance with the European Machinery Directive (no letter = non CE version).

(1) "R" option includes zinc plated top and bottom hooks and fasteners (and stainless steel fasteners under 10 mm Ø) – Zinc plated sprocket wheel on double fall units – Solid bronze wheels on trolleys.

Dimensions in mm Hook mount versions

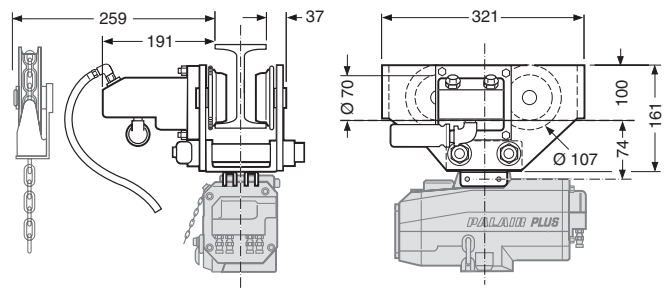
Model number	A	B	C	D	E
PAL250K, PAL310K, PAL500K	433	110	190	—	27
PAL630K, PAL1000K	459	110	—	224	27
PAL800K, PAL1001K	428	110	190	—	27
PAL1600K, PAL2000K	554	141	—	288	32



Trolleys for standard beam width, models PRU (plain), GRU (geared) and HU (motorised)

Compatible hoists:

PAL250K	PAL310K	PAL500K	PAL630K
PAL800K	PAL1000K	PAL1001K	



Trolleys models for wide beam width, models PRUW (plain), GRUW (geared) and HUW (motorised)

Trolley compatible with all hoist models

