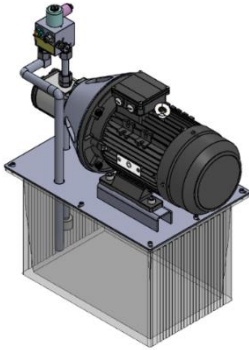


SELECTION OF HYDRAULIC POWER UNITS

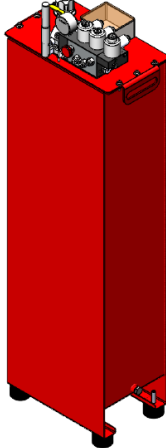
Hahne Aufzugstechnik power units are compact solutions designed for vertical transportation applications like goods lift, home/villa lifts, lifts for handicapped, passenger, commercial and car lifts. These power units are designed to provide ultimate ride comfort to the user so that they can select the desired alternative suitable for their application.

Types of Hydraulic Power Units

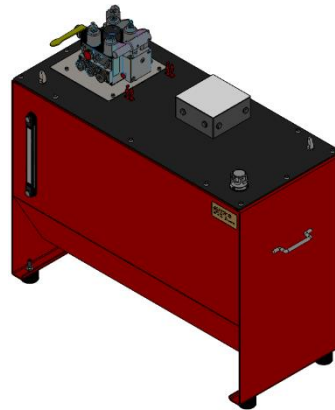
HIPU
Industrial Power Unit
(for goods and stacker lifts)



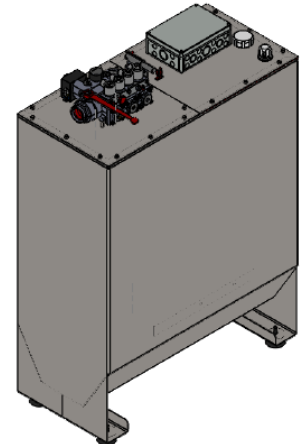
SLPU
Slim Power Unit
(for slow moving small lifts)



STPU
Standard Power Unit
(classic hydraulic passenger lifts)

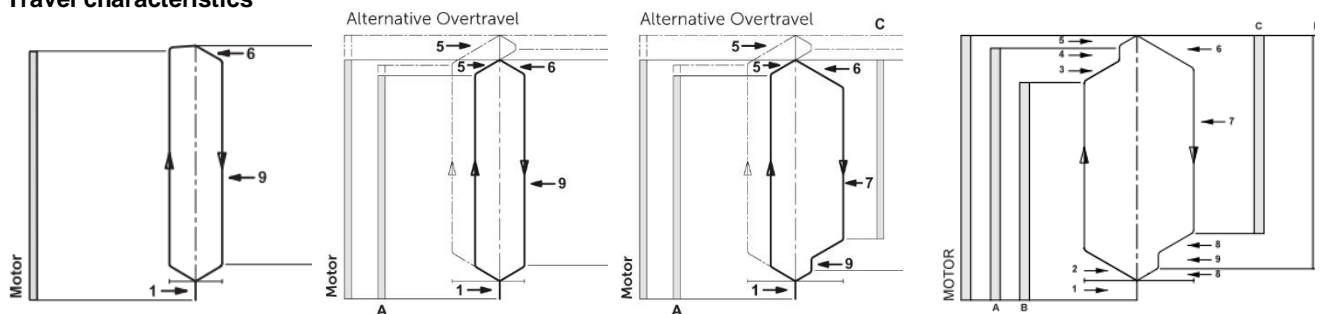


COPU
Commercial Power Unit
(for large passenger & cargo lifts)



Power Unit (Blain Valve)	Application	No of speed	Max. speed (m/s)	Total volume (litres)	Max. operating pressure (bars)
Hyd Industrial Power Unit (0.5" KV0D)	Goods / Freight	1	0.16 ↑ ↓	25	80
Slim Power Unit (0.5" KV1S)	Home / Villa lifts / Lifts for handicapped	1	0.16 ↑ ↓	50	50
Slim Power Unit (0.5" KV2S)	Home / Villa lifts / Lifts for handicapped	1 ↑ 2 ↓	0.16 ↑ 1 ↓	50	50
Standard Power Unit (0.75" EV100)	Passenger lifts	2	1 ↑ 1 ↓	150	50
Commercial Power Unit (1.5" / 2" EV100)	Large passenger and cargo lifts	2	1 ↑ 1 ↓	250	50

Travel characteristics



Industrial Power Unit with Blain 0.5" KV0D valve.

Slim Power Unit with Blain KV1S valve.

Slim Power Unit with Blain KV2S valve.

Standard & Commercial Power Unit with Blain EV100 valve.

Control Valves Comparison

	0.5" KV0D	0.5" KV1S	0.5" KV2S	0.75" EV100	1.5" / 2" EV100
No of UP speed	1	1	1	1	1
Max. Flow (l/min)	80	80	80	125	800
Max. UP speed (m/s)	0.16	0.16	0.16	1	1
No of DOWN Speed	1	1	2	2	2
Max. DOWN speed (m/s)	0.16	0.16	1	1	1
Down Levelling	n/a	n/a	Adjustable	Adjustable	Adjustable

Quick reference power unit selection table

Direct transmission [1:1]						
Power unit model	Max. travel height in m (ft)	Min. system weight (Kg)	Max. payload (Kg)	Max. total weight (Kg)	Piston Ø (mm)	Speed (m/s)
HIPU 08	3.5 (11.5)	250	1000	1250	50 (solid)	0.07
HIPU 13	4.0 (13.1)	450	1550	2000	63	0.07
HIPU 20	4.0 (13.1)	500	2000	2500	70	0.09
HIPU 24	4.5 (13.1)	700	2000	2700	80	0.08
Indirect transmission [2:1]						
Power unit model	Max. travel height in m (ft)	Min. system weight (Kg)	Max. payload (Kg)	Max. total weight (Kg)	Piston Ø (mm)	Speed (m/s)
HIPU 08	7.0 (23.0)	125	500	625	50 (solid)	0.14
HIPU 13	8.0 (26.2)	225	775	1000	63	0.14
HIPU 20	8.0 (26.2)	250	1000	1250	70	0.17
HIPU 24	9.0 (29.5)	350	1000	1350	80	0.16

Indirect transmission [2:1]						
Power unit model	Max. travel height in m (ft)	Min. system weight (Kg)	Max. payload (Kg)	Max. total weight (Kg)	Piston Ø (mm)	Speed (m/s)
SLPU 20	10 m (32.8)	250	350	600	Ø70x5	0.16
STPU 43	10 m (32.8)	250	500	750	Ø70x5	0.37
STPU 43	12 m (39.3)	300	500	800	Ø80x5	0.30
STPU 55	6 m (19.6)	400	750	1150	Ø70x5	0.48
STPU 55	12 m (39.3)	300	500	800	Ø80x5	0.36
STPU 55	12 m (39.3)	400	750	1150	Ø90x5	0.30
STPU 75	9 m (29.5)	300	500	800	Ø70x5	0.65
STPU 75	12 m (39.3)	300	500	800	Ø80x5	0.50
STPU 75	12 m (39.3)	400	750	1150	Ø90x5	0.40
STPU 75	12 m (39.3)	500	1100	1600	Ø100x5	0.32
STPU 100	9 m (29.5)	300	500	800	Ø70x5	0.87
STPU 100	9 m (29.5)	300	750	1050	Ø80x5	0.66
STPU 100	6 m (19.6)	400	1000	1400	Ø90x5	0.52
STPU 100	6 m (19.6)	600	1000	1600	Ø100x5	0.42

The above table is for reference purpose only. Travel height with respect to piston diameter and load can be correctly ascertained through buckling calculations wherein material properties and other design parameters play a very important role.