



## MECHCHAIN PRO II™

### Easy-to-manoeuver lifting unit for professional lifting

Mechchain Pro II™ is an extremely easy-to-manoeuver lifting unit for professional lifting. Frequency control gives a stepless lifting speed controlled by a joystick.

Mechchain Pro II™ combines high precision with an impressive lifting speed!

#### MECHCHAIN PRO II™ gives you

- a well-controlled and precise lifting movement
- an extremely low ceiling height, enabling installation also in cramped work spaces

#### TYPICAL APPLICATION AREAS

- general lifting with slings or hooks
- lifting within general industry
- assembly work requiring high precision lifting
- material handling with customized grippers
- packing onto pallets and roller conveyors

# Smooth frequency controlled chain lifter

## **Smooth and easily manoeuvred**

Mechchain Pro II is an extremely easy-to-manoeuver lifting unit for professional lifting. Frequency control gives a stepless lifting speed controlled by a joystick. Mechchain Pro II combines high precision with an impressive lifting speed.

## **Low installation height**

This lifting unit is suitable when a well-controlled and precise movement is required. Integrated in its travelling carriage, it has the lowest required ceiling height on the market, enabling installation also in cramped work spaces.

## **Integrated PLC & optional remote control**

Mechchain Pro II has an integrated PLC which simplifies customized features. It is also possible to select remote control in cases where this facilitates handling.

## **Encoder**

Mechchain Pro II may optionally be equipped with an encoder that reads the axle in the spindle limit switch. This makes it possible to set a lower stop position, as well as a further two stop/start positions along the stroke. The positions are stored in a built in memory in the frequency converter and are not erased in case of power cuts.

## **Control units in aluminium**

For high availability also in challenging environments, Mechchain Pro II has been equipped with control units in aluminium with quick connect to the control cable. There is also a selection of standard brackets as option, for easy mounting on gripper tools or vacuum yokes.

## **Suitable for many environments**

Mechchain Pro II is available in weight classes: 63-80-125-160-225 kg. Typical application areas are general lifting with slings or hooks, lifting within general industry, assembly work requiring high precision lifting, material handling with customized grippers, packing onto pallets and roller conveyors.

*Mechchain Pro II  
combines high precision  
with an impressive  
lifting speed.*

# The ergonomic lift

You can maneuver a sack handling tool together with a Mechchain Pro in a simple and flexible way.

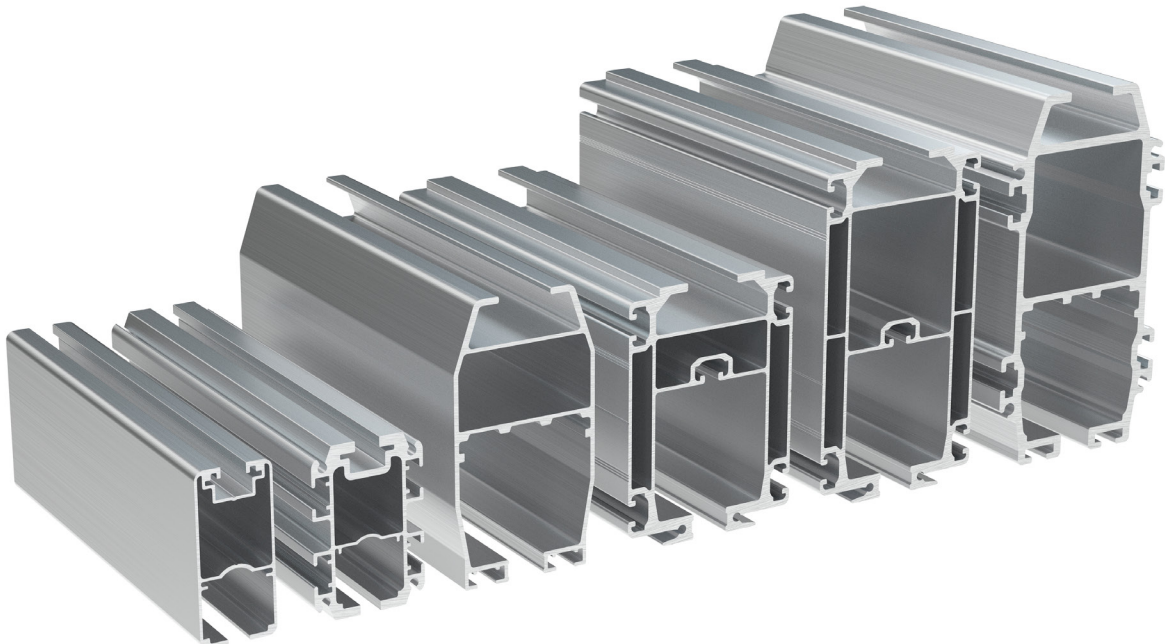
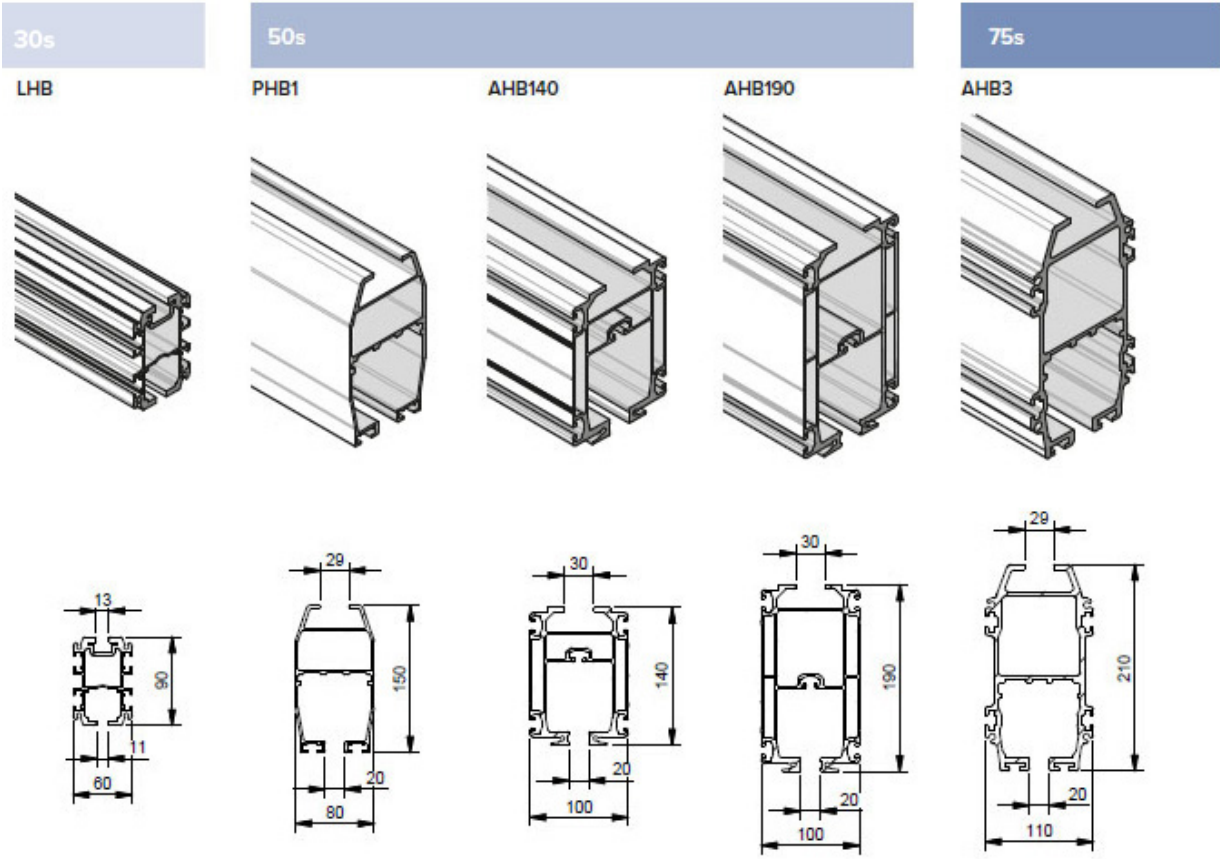
The tool is ergonomically correct for those who need to lift, cut and empty sacks of their contents.

The smooth stepless movements and high-precision positioning make sure that the sack stays in position while being cut and emptied.



# Profiles

Mechchain Pro II is compatible with this rail profiles.



# Technical data

General		
Max. load	[kg]	63 / 80 / 125 / 160 / 160 / 225
Tare weight	[kg]	20
Engine power	[kW]	0,37
Power supply	[V]	1x230, N, PE(±15) 50/60 Hz
Fuse	[AT]	10
Protection class	[IP]	54
Machine group	[-]	3m / M6
Operating temperature	[°C]	5 - 40 (indoor)
Noise level	[dB (A)]	<70

		Configuration 1-part											Max. load [kg]	Lifting speed [m/min]	
		A	B	C	D	E	F	G	H	I	J	K			
745143	Base model 30S, 1-part, see page 6	Z <sub>min</sub> [mm]	404	435	505	540	729	505	538	729	404	437	614	63	0-16
		SL Stroke length [m]	5	5	2,3	2,3	2,3	2,3	2,3	2,3	2,3	2,3	2,3	80	0-15
745144	Base model 50S, 1-part, see page 7	Z <sub>min</sub> [mm]	404	435	505	540	729	505	538	729	404	437	614	63	0-16
		SL Stroke length [m]	5	5	2,3	2,3	2,3	2,3	2,3	2,3	2,3	2,3	2,3	63	0-16
745166	Base model 75S, 1-part, see page 9	Z <sub>min</sub> [mm]	404	435	505	540	729	505	538	729	404	437	614	80	0-15
		SL Stroke length [m]	5	5	2,3	2,3	2,3	2,3	2,3	2,3	2,3	2,3	2,3	125	0-12
745145	Base model Universal, 1-part, see page 11	Z <sub>min</sub> [mm]	458	489	559	594	783	559	592	783	458	491	668	160	0-10
		SL Stroke length [m]	5	5	2,3	2,3	2,3	2,3	2,3	2,3	2,3	2,3	2,3		

		Configuration 1-part											
		A	B	C	D	E	F	G	H	I	J	K	
745153	Media, output - sprial cable			X	X	X							
745154	Media, output - spiral cable + pneu Ø10						X	X	X				
745155	Media, output - pneu Ø10									X	X	X	
731418	Chain hook - standard	X		X			X			X			
731637	Safety hook		X		X			X			X		
744779	Swivel with safety hook EI M12 8P + pneu Ø8					X			X				
744780	Swivel with safety hook pneu Ø8											X	

		Configuration 2-part				Max. load [kg]	Lifting speed [m/min]	
		B	D	G	J			
745146	Base model 50S 2-part, see page 8	Z <sub>min</sub> [mm]	440	568	568	440	225	0-7
		SL Stroke length [m]	3,5	2,3	2,3	2,3		
745147	Base model 75S 2-part, see page 10	Z <sub>min</sub> [mm]	440	568	568	440		
		SL Stroke length [m]	3,5	2,3	2,3	2,3		
745148	Base model Universal 2-part, see page 12	Z <sub>min</sub> [mm]	494	662	622	494		
		SL Stroke length [m]	3,5	2,3	2,3	2,3		

		Configuration 2-part			
		B	D	G	J
745153	Media, output - spirale cable		x		
745154	Media, output - spirale cable + pneu Ø10			x	
745155	Media, output - pneu Ø10				x
731637	Safety hook	x	x	x	x



# Base unit 30s, 1-part

## 1. Base unit #

30s, 1-part 745143

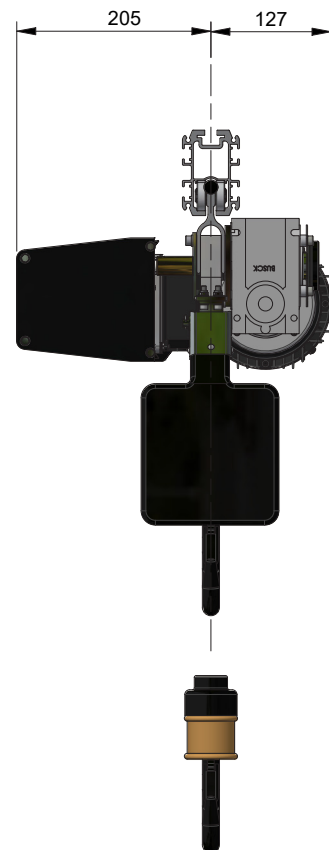
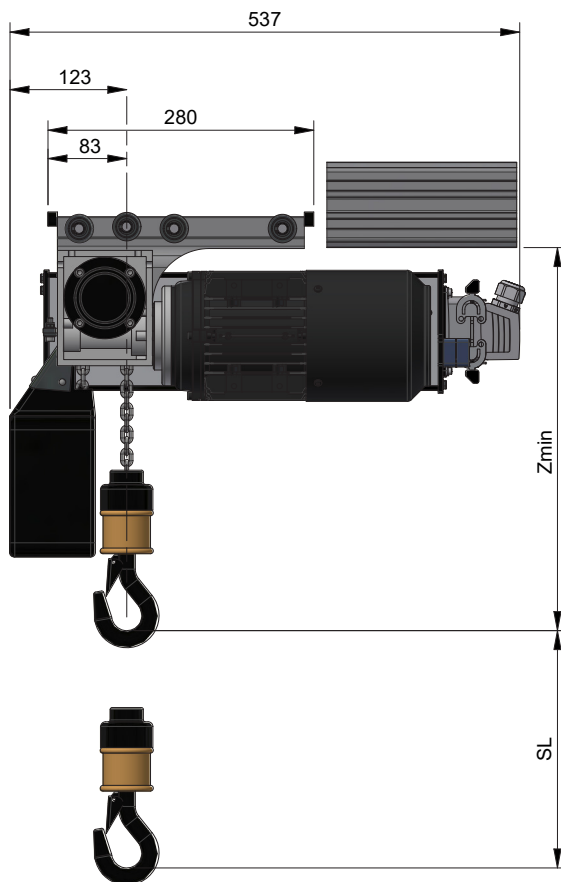
## 2. Load unit Max load v (m/min) #

30s, 1-part	63 kg	0-16	745105
	80 kg	0-15	745106

v: lifting speed

## 3. Hook #

Chain hook w. damper	731418
Safety hook w. swivel	731637
Swivel hook w. el 8P + Pneu Ø8	744779
Swivel hook w. pneu Ø8	744780



Further configurations, see page 13

# Base model 50s, 1-part

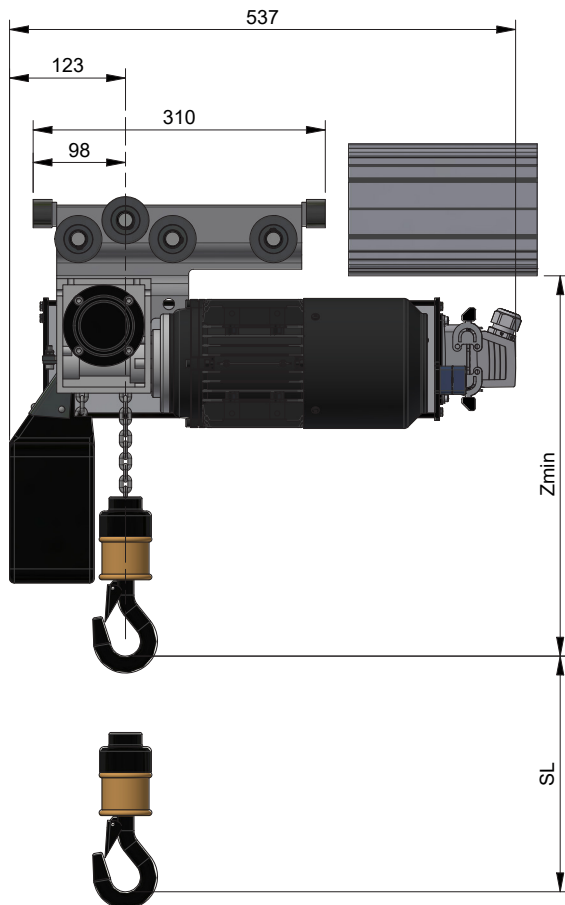
## 1. Base model #

50s, 1-part 745144

## 2. Load unit Max load v (m/min) #

50s, 1-part	Max load	v (m/min)	#
	63 kg	0-16	745105
	80 kg	0-15	745106
	125 kg	0-12	745107
	160 kg	0-10	745108

v: lifting speed



Further configurations, see page 13

## 3. Hook #

- Chain hook w. damper 731418
- Safety hook w. swivel 731637
- Swivel hook w. el 8P + Pneu Ø8 744779
- Swivel hook w. pneu Ø8 744780



# Base unit 50s, 2-part

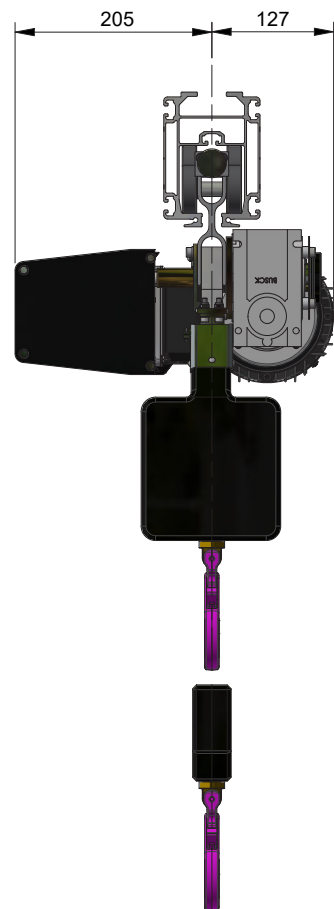
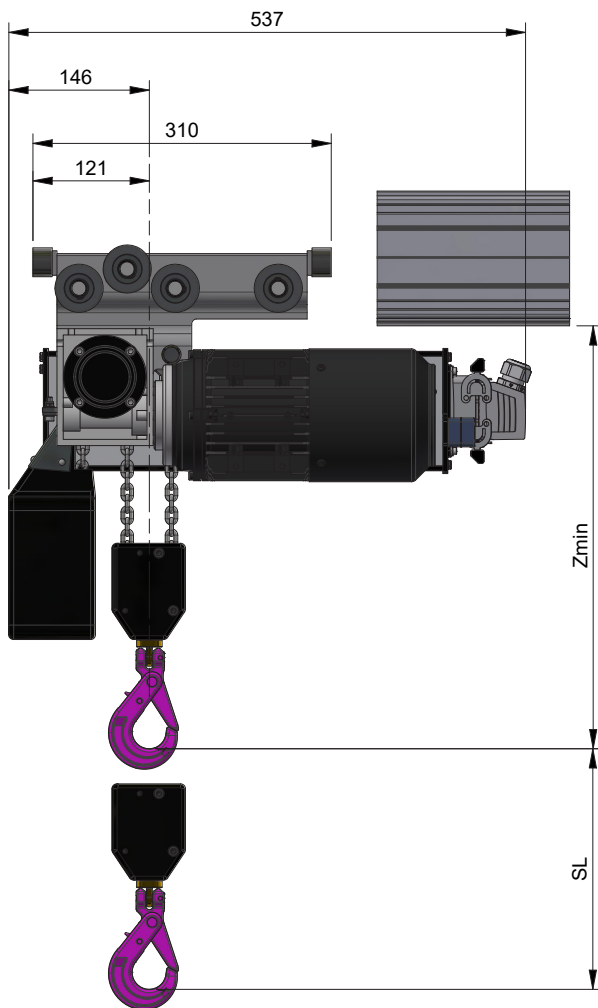
## 1. Base unit #

50s, 2-part 745146

## 2. Load unit Max load v (m/min) #

50s, 2-part 225 kg 0-7 745109

v: lifting speed



Further configurations, see page 13



# Base unit 75s, 1-part

1. Base unit	#
75s, 1-part	745166

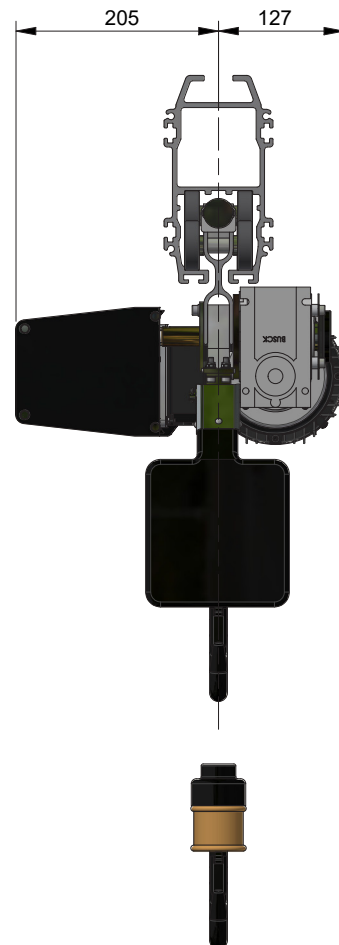
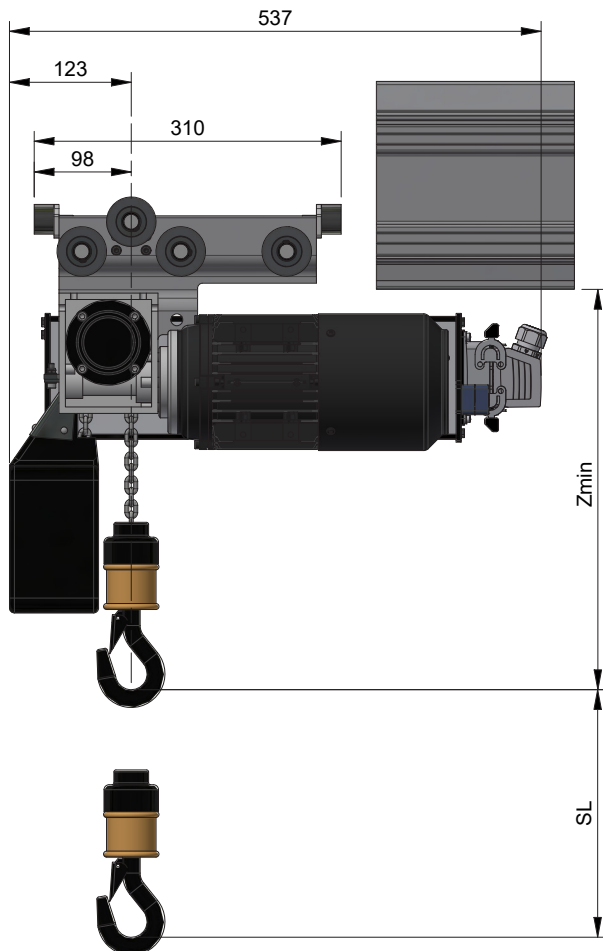
2. Load unit	Max load	v (m/min)	#
75s, 1-part	63 kg	0-16	745105
	80 kg	0-15	745106
	125 kg	0-12	745107
	160 kg	0-10	745108

v: lifting speed

3. Hook	#
Chain hook w. damper	731418
Safety hook w. swivel	731637
Swivel hook w. 8P + Pneu Ø8	744779
Swivel hook w. pneu Ø8	744780



731418      731637      744779      744780



Further configurations, see page 13

# Base unit 75s, 2-part

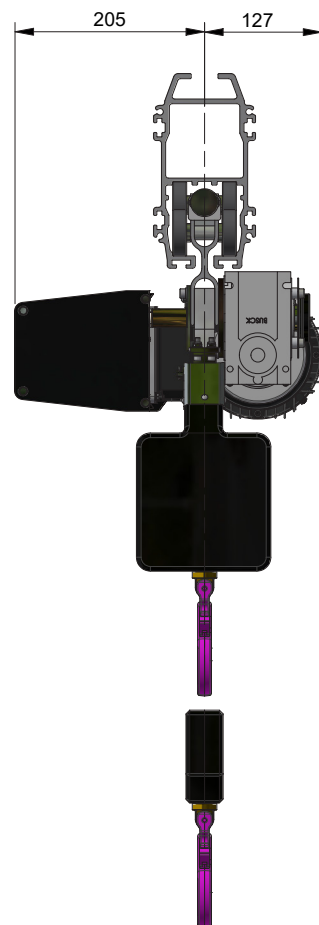
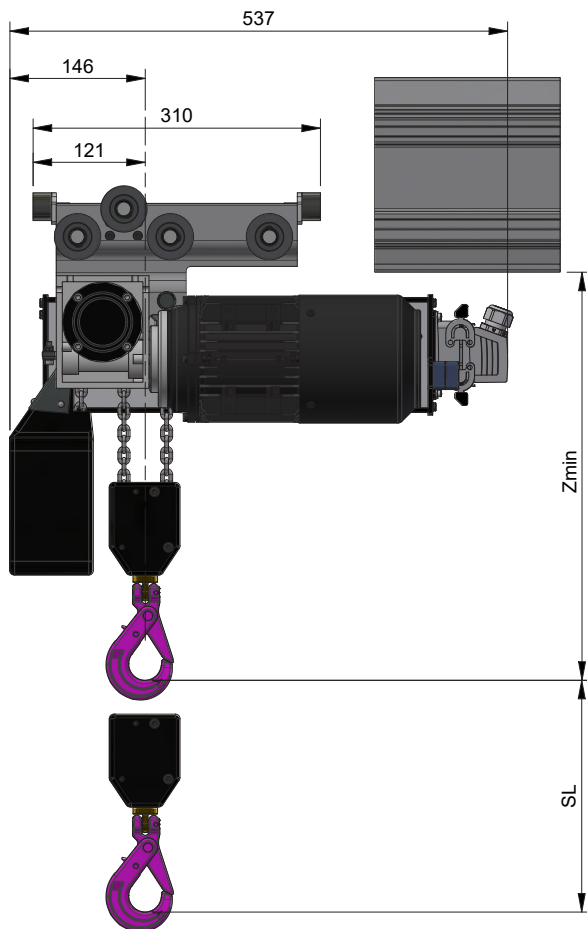
## 1. Base unit #

75s, 2-part 745147

## 2. Load unit Max load v (m/min) #

75s, 2-part 225 kg 0-7 745109

v: lifting speed



Further configurations, see page 13

# Universal, 1-part

## 1. Base unit #

Universal, 1-part 745145

## 2. Load unit Max load v (m/min) #

Universal, 1-part	63 kg	0-16	745105
	80 kg	0-15	745106
	125 kg	0-12	745107
	160 kg	0-10	745108

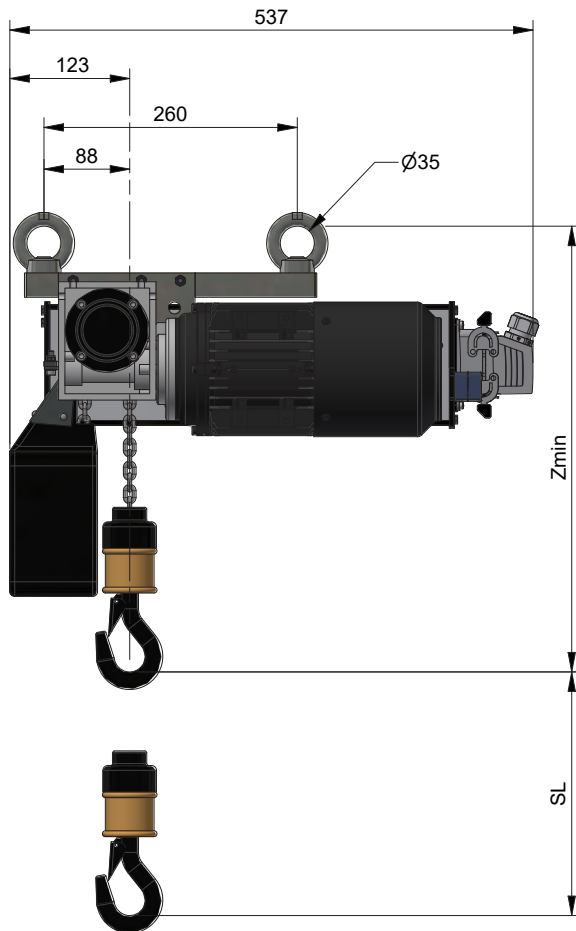
v: lifting speed

## 3. Hook #

- Chain hook w. damper 731418
- Safety hook incl. swivel 731637
- Swivel hook w. el 8P + Pneu Ø8 744779
- Swivel hook w. pneu Ø8 744780



731418 731637 744779 744780



Further configurations, see page 13

# Universal, 2-part

## 1. Base unit

#

Universal, 2-part

745148

## 2. Load unit

Max load

v (m/min)

#

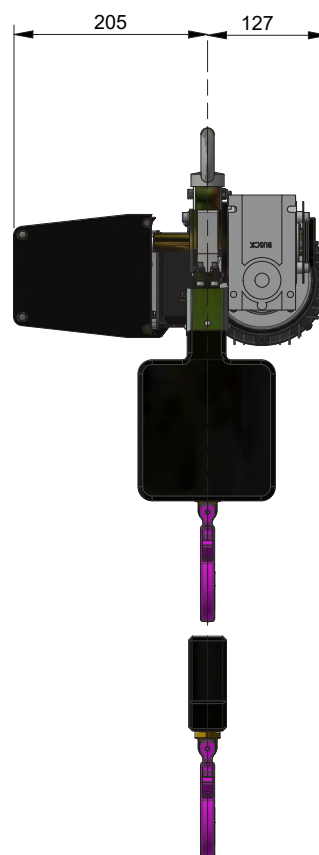
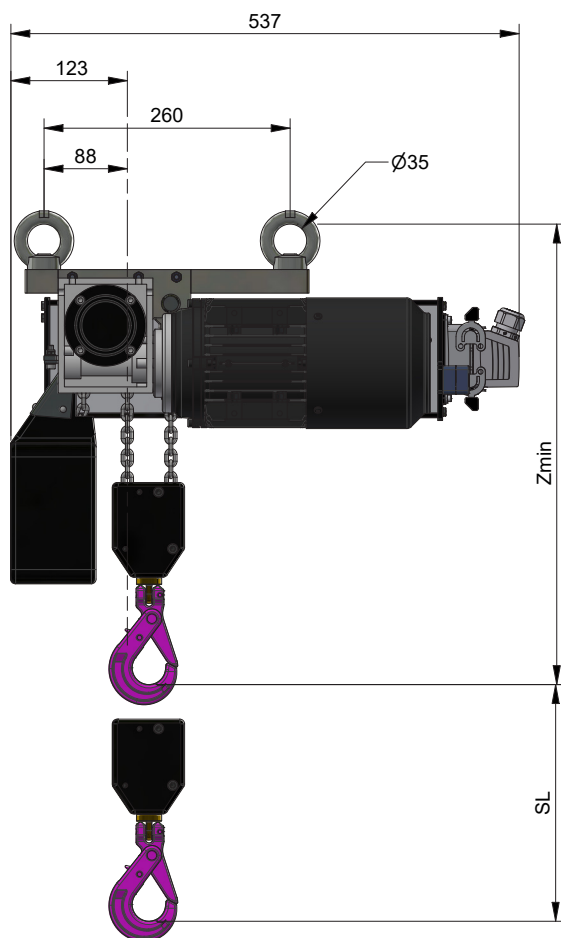
Universal, 2-part

225 kg

0-7

745109

v: lifting speed



Further configurations, see page 13

# Control cable - Hanging

1. Control cable - Hanging	Length	#
Control cable M17	2500 mm	742955
Control cable M17	3000 mm	742956
Control cable M17	3500 mm	742957
Control cable M17	4000 mm	742958
Control cable M17	4500 mm	742959



2. Control unit	#
M17 With emergency stop	742195
M17 With emergency stop + protection	742196
M17 With em. stop + protection + handle	742197



3. Media - Out	Length	#
Spiral cable Ø10 pneu	200-2600 mm	745155



4. Balancer	#
Balancer for cable	733243

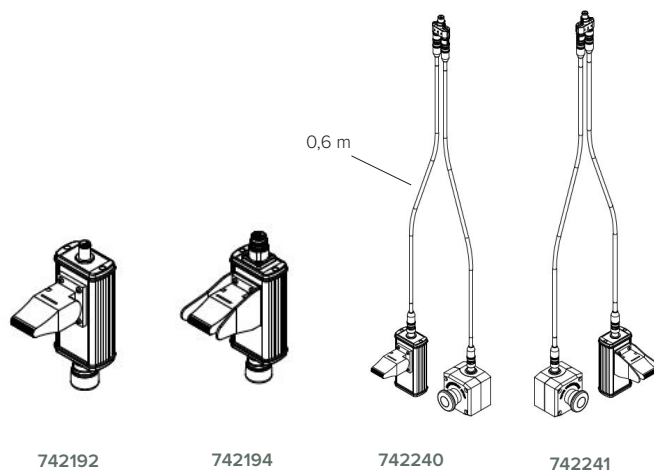


# Control cable - Spiral

1. Control cable - Spiral	Length	#
Control cable M12	300 mm	743105
Control cable M12	600 mm	740937
Control cable M12	1000 mm	741586
Control cable M12	2000 mm	741678
Control cable M12	5000 mm	741679
Control cable M12	7500 mm	741680



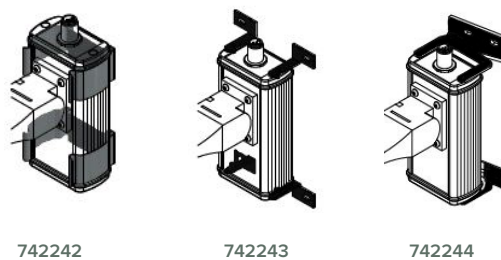
2. Control unit	#
M12 With emergency stop	742192
M12 With emergency stop + protection	742194
M12 With separate emergency stop	742240
M12 With separate emergency stop + protection	742241



3. Media - Out	Length	#
Spiral cable	200-2600 mm	745153
Spiral cable + Ø10 pneu	320-2600 mm	745154



4. Option	#
Mounting clamp	742242
Wall bracket	742243
Adjustable wall bracket	742244





# Option

## 1. Media - In

#

End fix - Saddle (A)	745149
End fix - Shackle (D)	745150
Tow arm for C-rail	745151
Tow arm for CPL *	744054

\* Not compatible with base model 30s



745149



745150



745151



744054

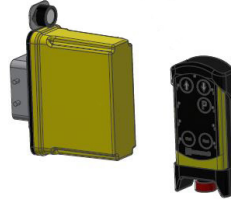
# Option

## 1. Radio remote

#

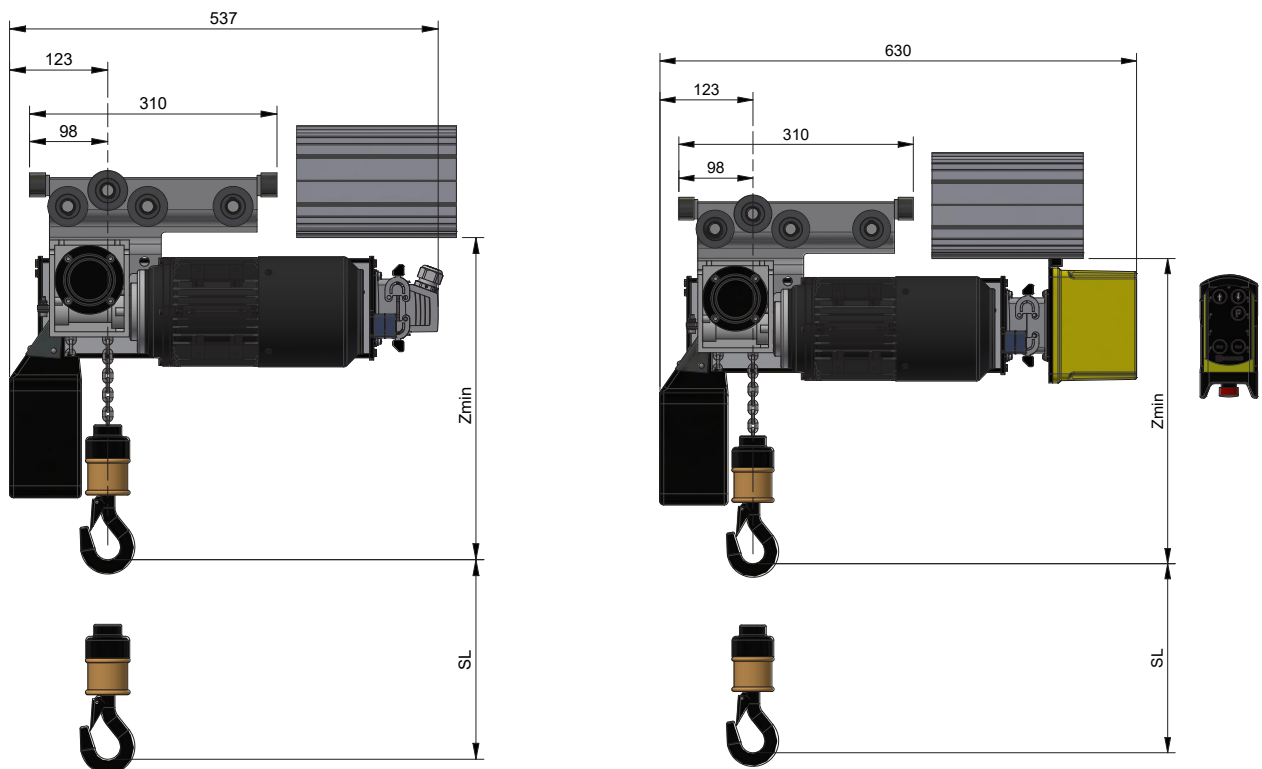
Radio remote control, incl charger

745152



When radio control is selected, the Mechchain changes from stepless to 2-speed operation in Z direction.

Even the options for control device and control unit are not compatible together with radio remote control.



\* Example above.

Image on the left shows model without radio remote control and image on the right with radio remote control. Note that extended length is added when purchasing Mechchain incl. radio remote control.

# Option

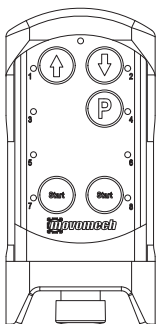
## 1. Option

#

### Encoder kit

744920

- The encoder simplifies positioning in the Z direction.
- Mounted in the rotary limit switch.
- Teach-in function.
- Connected directly to Mechchain Pro II (no external PLC).



### Remote control with encoder

Setting of the positions is done in the same way as with joystick, but the positions are programmed with **P +** button *Up* or *Down* instead of with the emergency stop.

WORLD-CLASS LIFTING SOLUTIONS



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