

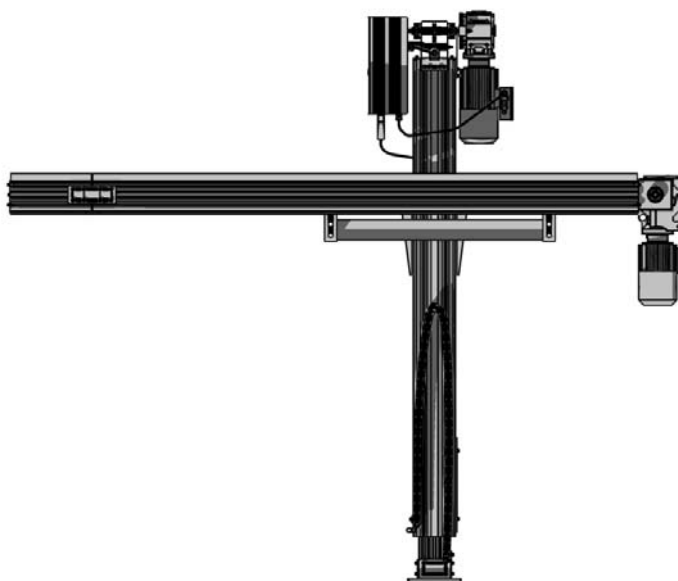
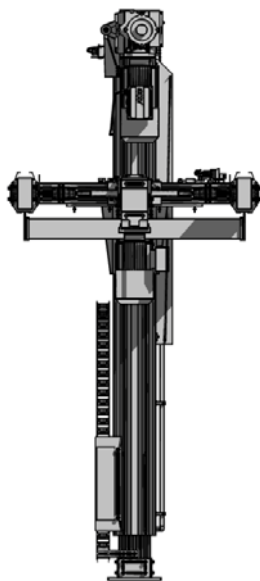
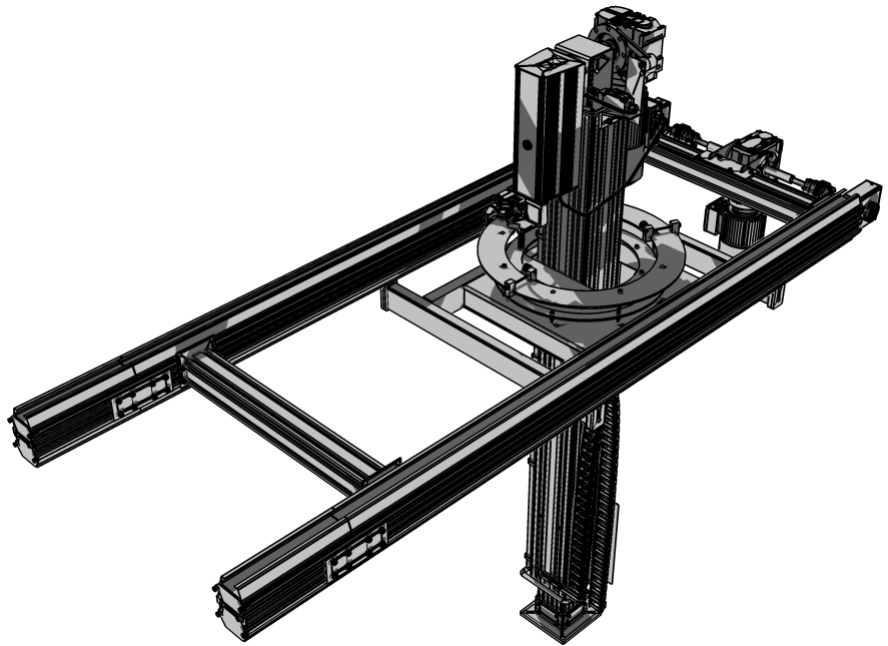
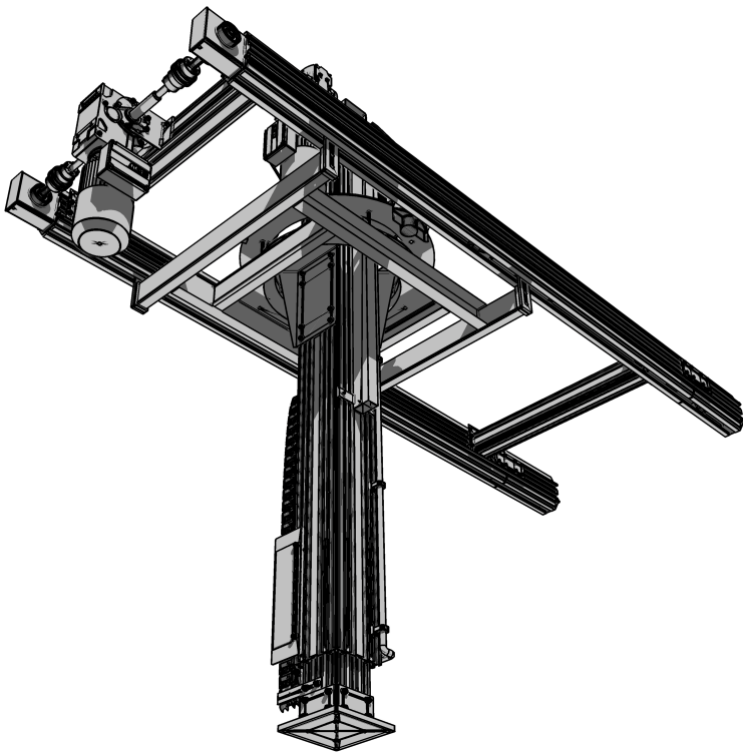
Mechbelt

Catalogue

820A

EN





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 ILLUSTRATIONS – The illustrations in the publication represent the described products, but the delivered goods may differ in some respects from the illustrations.
 SPECIFICATIONS – The right is reserved to make changes in design and dimensions compared with the information in the publication in order not to prevent development of designs, material and manufacturing methods.

The customer is reminded that in the purchase of Movomech's products for application on the job or elsewhere, there is supplementary, current information that could not be included in the publication in terms of recommendations on each product's suitability regarding different combinations of Movomech's comprehensive product line.

All relevant information must be provided to the persons who are responsible for the application of the product.

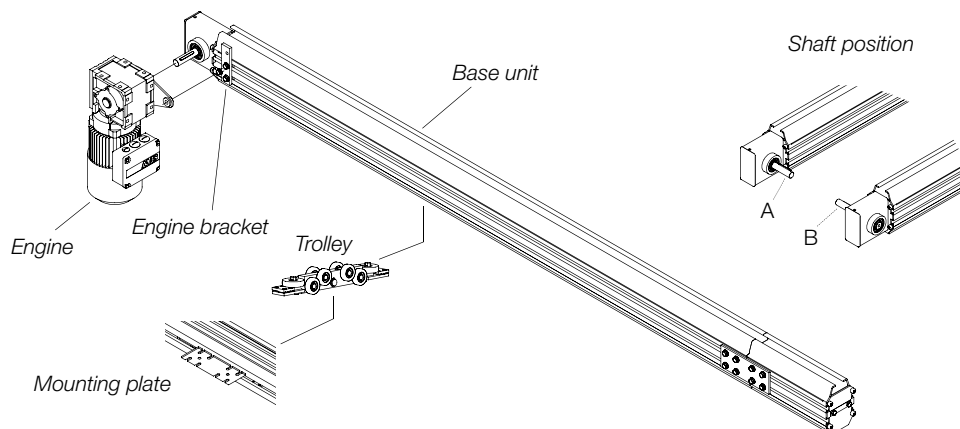
Single Mehbelt

Select:

- I. Base unit
- II. Engine bracket *
- IV. Trolley
- V. Mounting plate
- VI. Engine *

* optional

Specify configuration (p.7)



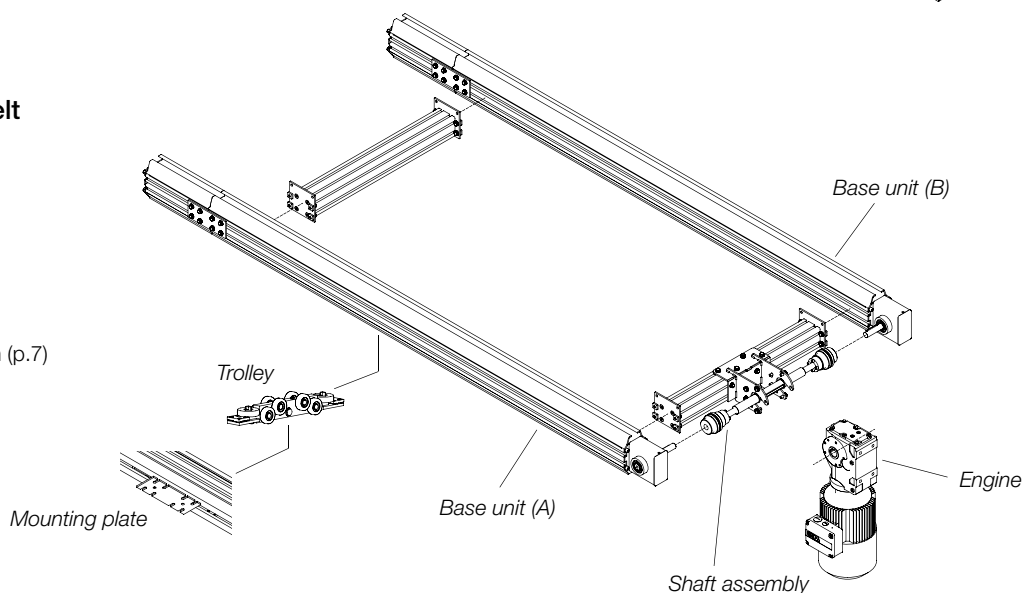
Double Mehbelt

Select:

- I. Base units (A+B)
- III. Shaft assembly
- IV. Trolley
- V. Mounting plate
- VI. Engine *

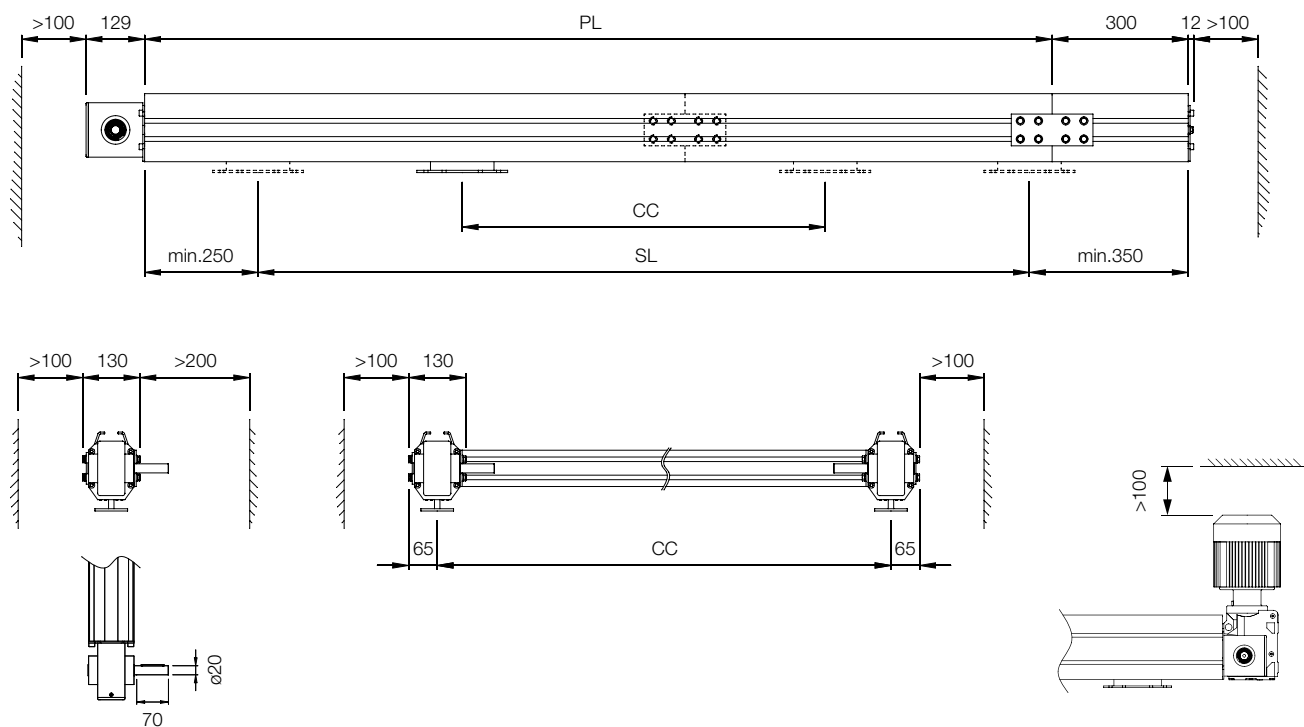
* optional

Specify configuration (p.7)



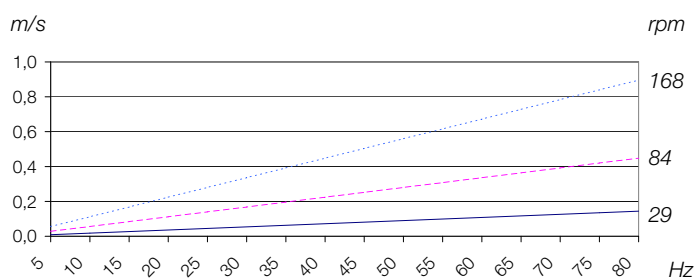
For information regarding suspension, media supply, control unit etc. please contact Movomech.

Dimensions



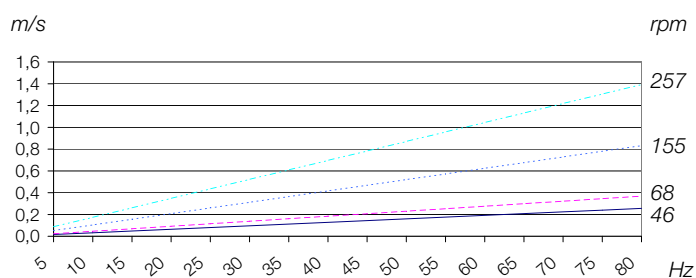
Translation speed

Single Mechbelt



r/min	$v [m/s]$	
	50 Hz	75 Hz
29	0,09	0,13
84	0,28	0,42
168	0,56	0,84

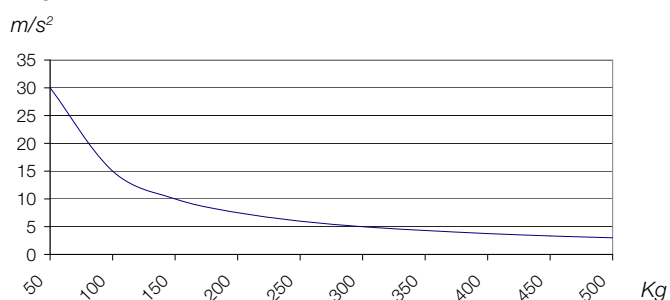
Double Mechbelt



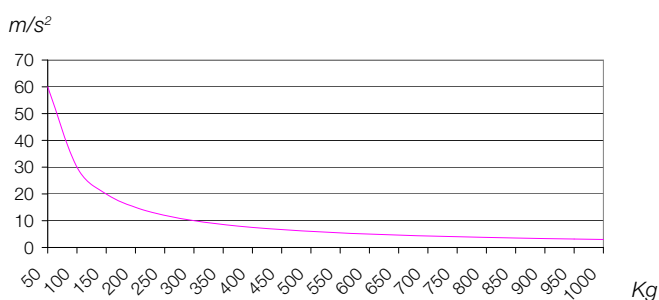
r/min	$v [m/s]$	
	50 Hz	75 Hz
46	0,16	0,24
68	0,23	0,34
155	0,52	0,78
257	0,87	1,3

Allowed acceleration/deceleration

Single Mechbelt

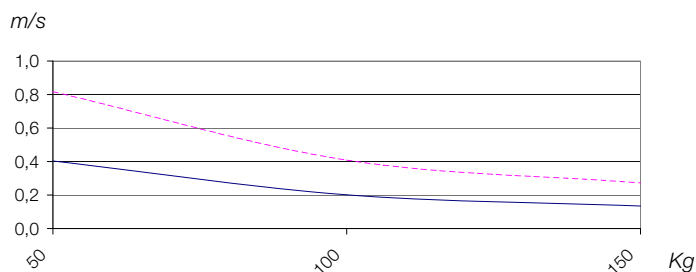


Double Mechbelt

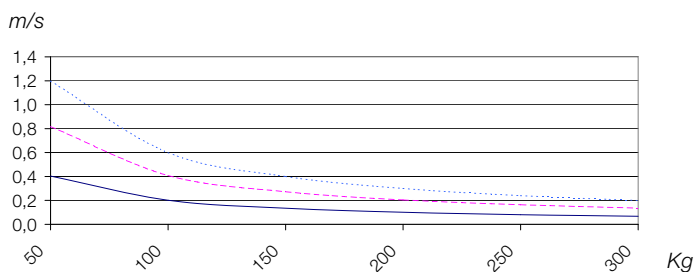


Allowed vertical speed

Single Mechbelt



Double Mechbelt



OBSERVE!

Maximum load:

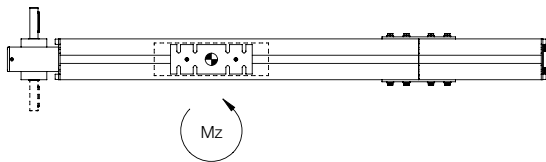
- Single vertical Mechbelt: **150 kg**
 - Double vertical Mechbelt: **300 kg**
- (dynamic forces included)

Maximum acceleration of vertical Mechbelt: **2 m/s²**

Vertical drive requires usage of engines with holding brake function!

Force and moment retention

Single Mechbelt with single trolley



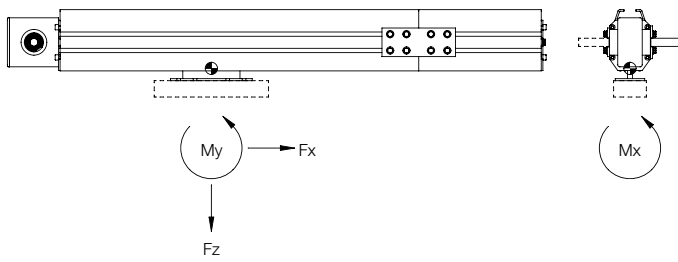
F_x 1500 N

F_z 2500 N

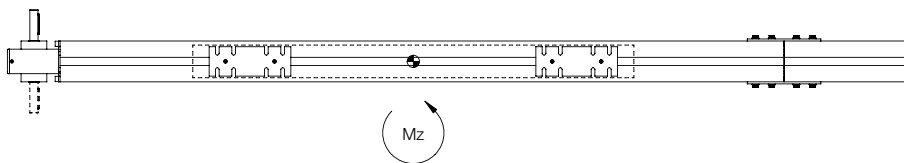
M_x 60 Nm

M_y 200 Nm

M_z 75 Nm



Single Mechbelt with double trolley



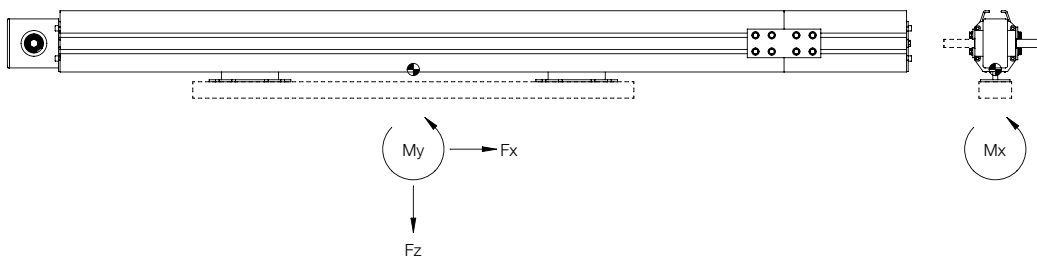
F_x 1500 N

F_z 5000 N

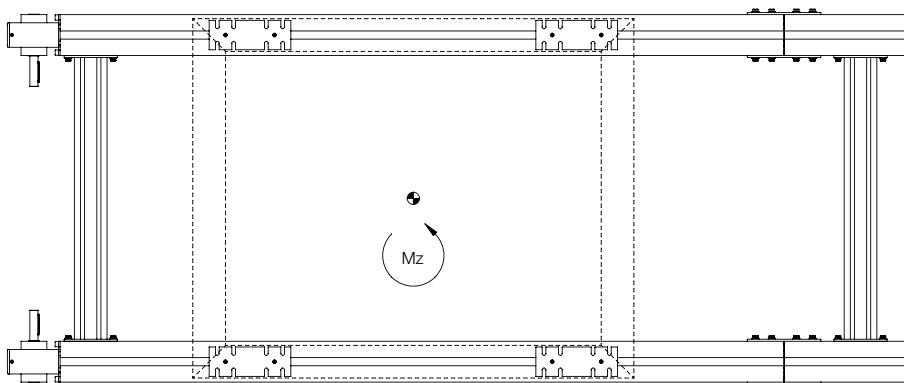
M_x 120 Nm

M_y 1600 Nm

M_z 250 Nm



Double Mechbelt with double trolley



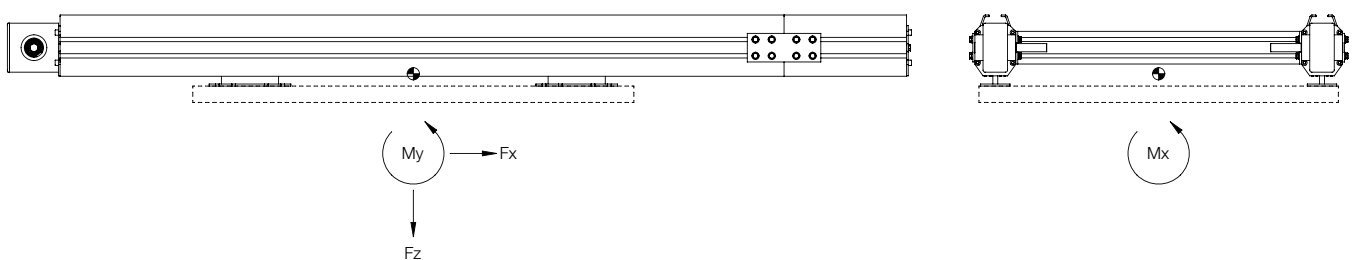
F_x 3000 N

F_z 10000 N

M_x 3200 Nm

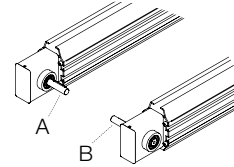
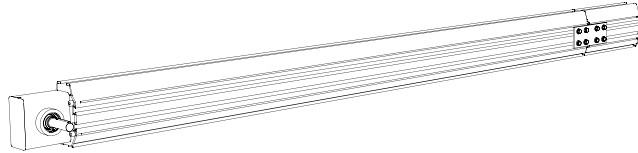
M_y 3200 Nm

M_z 500 Nm



I. Base unit

Profile length	*	PL [m]												
		2	3	4	5	6	7	8	9	10	11	12	13	14
AHB1.1	A	737700	737701	737702	737703	737704	737705	737706	737707	737708	737709	737710	737711	737712
AHB1.1	B	737713	737714	737715	737716	737717	737718	737719	737720	737721	737722	737723	737724	737725
AHB2	A	737726	737727	737728	737729	737730	737731	737732	737733	737734	737735	737736	737737	737738
AHB2	B	737739	737740	737741	737742	737743	737744	737745	737746	737747	737748	737749	737750	737751



* Shaft position

Profile length	PL [m]												
Stroke	SL [mm]												
Single trolley	1700	2700	3700	4700	5700	6700	7700	8700	9700	10700	11700	12700	13700
Double trolley CC800	900	1900	2900	3900	4900	5900	6900	7900	8900	9900	10900	11900	12900
Double trolley CC1000	700	1700	2700	3700	4700	5700	6700	7700	8700	9700	10700	11700	12700

Distance between suspensions

max	[mm]
AHB1.1	3000
AHB2	5000

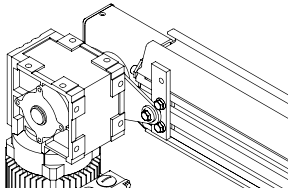
For information regarding suspension, please contact Movomech.

OBSERVE!

At least 1 suspension must be placed at max 0,5 m from joint.

II. Engine bracket

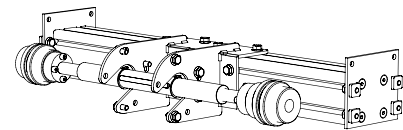
737770



III. Shaft assembly

CC800	737760
CC1000	737761
1000<CC<3000 ¹	737762

¹ Specify CC



IV. Trolley

	Horizontal	Vertical
Single trolley	734647	735392
Double trolley CC800	734636	735427
Double trolley CC1000	734642	735431

Check force and moment retention (p.5)

Single trolley



Double trolley



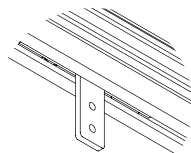
V. Mounting plate

A¹ 733837

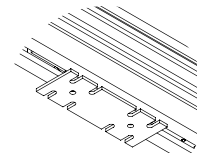
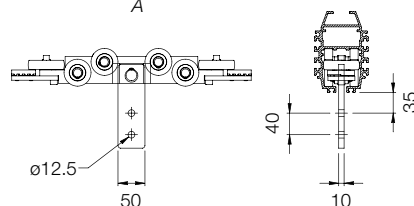
B 735438

¹ Not for vertical drive

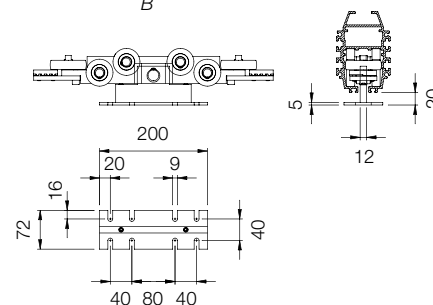
Sold by the piece!



A



B



VI. Engine

Single Mechbelt With brake

Specify on order

Without brake *

Specify on order

	r/min	m/min	Nm	Configuration B01-B09
0,37 kW	29	5,6	69	737771
	84	16,4	33 ¹	737772
	168	32,7	19 ²	737773
0,75 kW	84	16,4	68	737777
	168	32,7	38 ³	737778

	r/min	m/min	Nm	Configuration B01-B03
0,37 kW	29	5,6	69	737774
	84	16,4	33	737775
	168	32,7	19	737776
0,75 kW	84	16,4	68	737779
	168	32,7	38	737780

¹⁻³When used for vertical drive,
maximum load is limited to:

¹ 105 kg

² 60 kg

³ 125 kg

* Not for vertical drive

Double Mechbelt With brake

Specify on order

	r/min	m/min	Nm	Configuration B01	B02	B03	B04	B05	B06	B07	B08	B09
0,37 kW	46	8,9	77	737901	737902	737903	737904	737901	737904	737902	737903	737902
	68	13,2	52	737905	737906	737907	737908	737905	737908	737906	737907	737906
	155	30,1	23 ¹	737909	737910	737911	737912	737909	737912	737910	737911	737910
	257	50,0	14 ²	737913	737914	737915	737916	737913	737916	737914	737915	737914
0,75 kW	46	8,9	156	737917	737918	737919	737920	737917	737920	737918	737919	737918
	68	13,2	105	737921	737922	737923	737924	737921	737924	737922	737923	737922
	155	30,1	46	737925	737926	737927	737928	737925	737928	737926	737927	737926
	257	50,0	28 ³	737929	737930	737931	737932	737929	737932	737930	737931	737930
1,1 kW	47	9,1	225	737933	737934	737935	737936	737933	737936	737934	737935	737934
	69	13,4	152	737937	737938	737939	737940	737937	737940	737938	737939	737938
	157	30,5	67	737941	737942	737943	737944	737941	737944	737942	737943	737942
	261	50,8	40 ⁴	737945	737946	737947	737948	737945	737948	737946	737947	737946

¹⁻⁴When used for vertical drive,
maximum load per Mechbelt is
limited to:

¹ 75 kg

² 45 kg

³ 90 kg

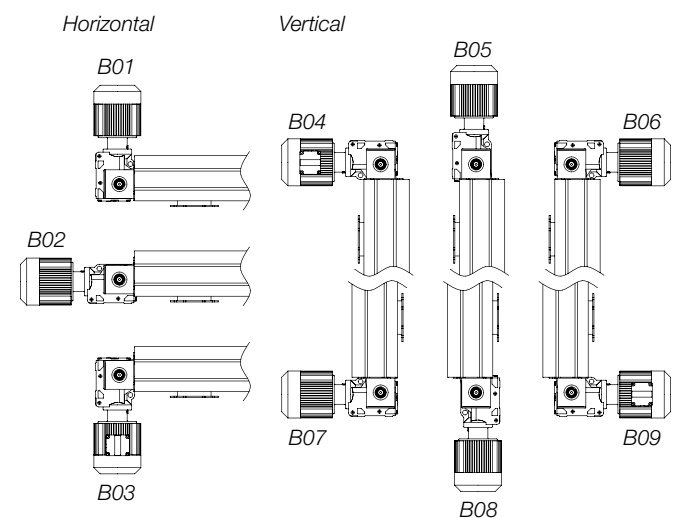
Without brake *

Specify on order

	r/min	m/min	Nm	Configuration B01	B02	B03
0,37 kW	46	8,9	77	737950	737951	737952
	68	13,2	52	737954	737955	737956
	155	30,1	23	737958	737959	737960
	257	50,0	14	737962	737963	737964
0,75 kW	46	8,9	156	737966	737967	737968
	68	13,2	105	737970	737971	737972
	155	30,1	46	737974	737975	737976
	257	50,0	28	737978	737979	737980
1,1 kW	47	9,1	225	737982	737983	737984
	69	13,4	152	737986	737987	737988
	157	30,5	67	737990	737991	737992
	261	50,8	40	737994	737995	737996

* Not for vertical drive

Configurations



Calculations

Required vertical power $P = m \cdot v(a + 16,35)$
Required horizontal power $P = m \cdot v(a + 0,245)$

Speed v (m/min)
 $v = 0,062 \cdot \pi \cdot n$ ($n = r/min$)

P = power [W]
 m = total mass in motion [kg]
 v = speed [m/s]
 a = acceleration [m/s²]

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