BELT CONVEYOR SYSTEMS

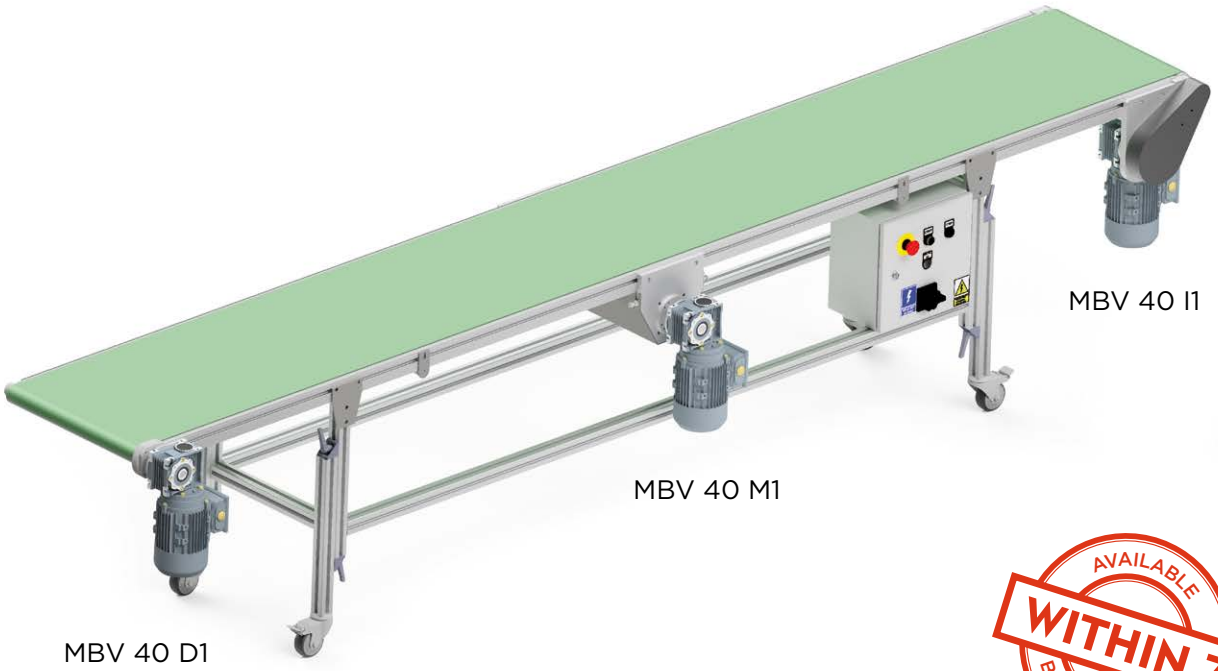
MOVLINK®

www.movlink.pl

MBV 40 TYPE BELT CONVEYOR

Types

- MBV 40 D1 - direct drive at the end
- MBV 40 M1 - direct drive in the middle
- MBV 40 I1 - indirect drive under the conveyor



MBV 40 I1

MBV 40 M1

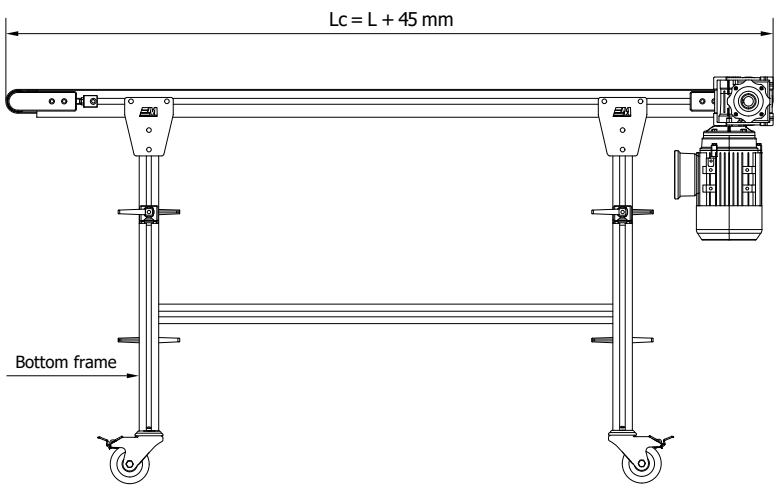
MBV 40 D1

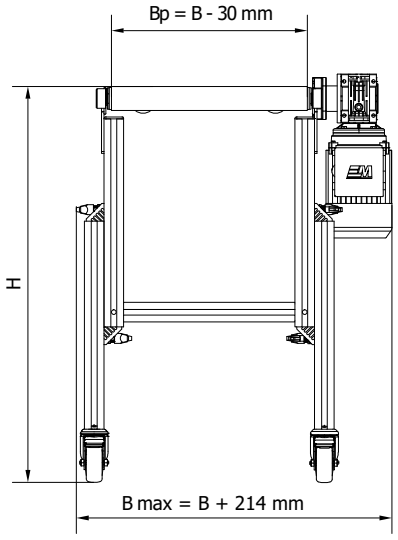
TECHNICAL PARAMETERS

Standard conveyor lengths L [mm]: L= 1000 ÷ 6000 [mm]	1000; 1500; 2000; 2500; 3000; 3500; 4000; 4500; 5000; 5500; 6000
Standard widths of the conveyor B [mm]: B= 130 ÷ 830 [mm]	130; 230; 330; 430; 530; 630; 730; 830
Adjustable height H [mm]:	600-900
Belt travel speed V [m/min]:	3-56
Load capacity G [kg/m]:	20
Belt type:	PCV/PU
Gear motor:	Movlink 3X400V
Diameter of the conveyor drive roller axis, option without gear motor:	Ø 45mm

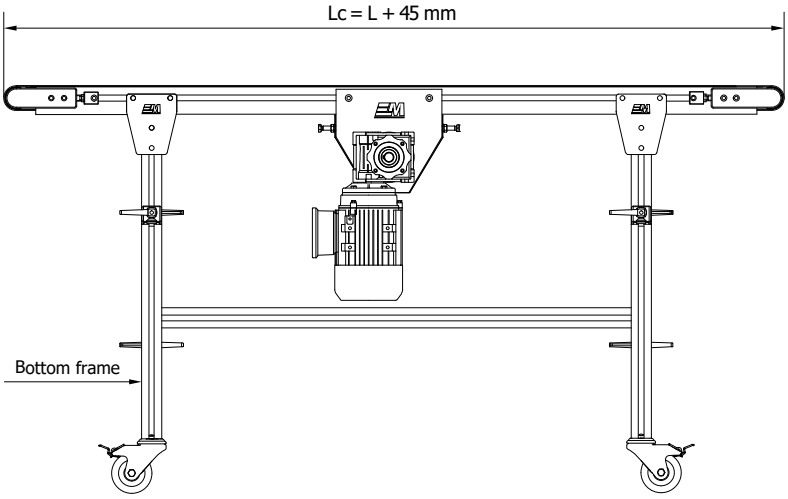
Other technical parameters on request.

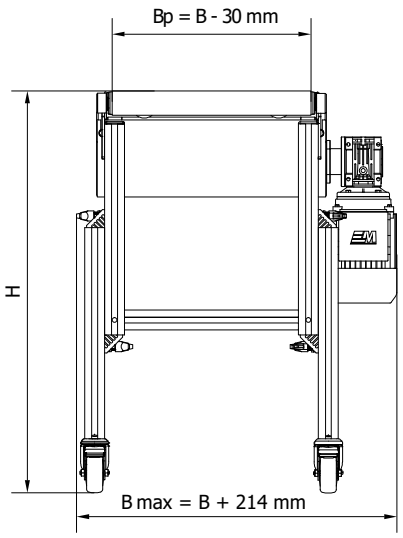
MBV 40 D1 TYPE CONVEYOR - DIRECT DRIVE AT THE END



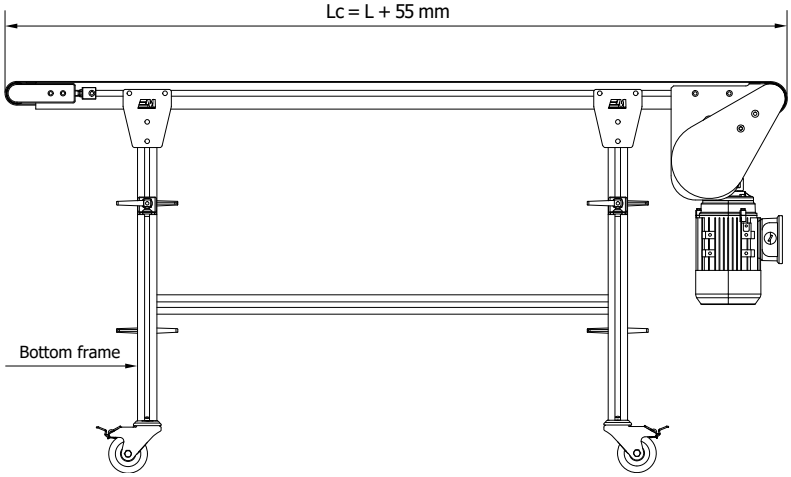


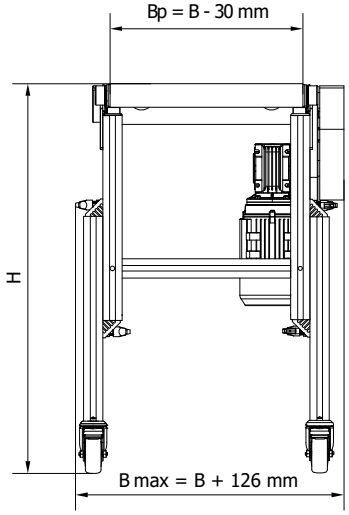
MBV 40 M1 TYPE CONVEYOR - DIRECT DRIVE IN THE MIDDLE





MBV 40 I1 TYPE CONVEYOR - INDIRECT DRIVE





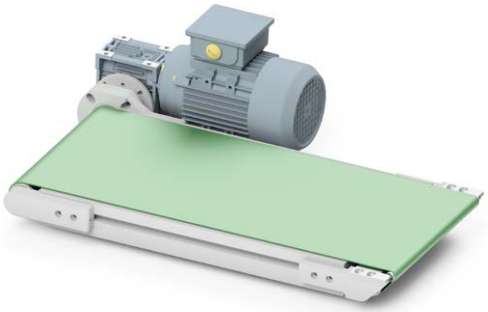
CONVEYOR BELT WITH BLADE ENDING

Belt conveyors with blade ends are used mainly where there is a need to dispose of at least the distance between conveyors, as well as between the conveyor and the supporting device. This enables transporting small components.

Types

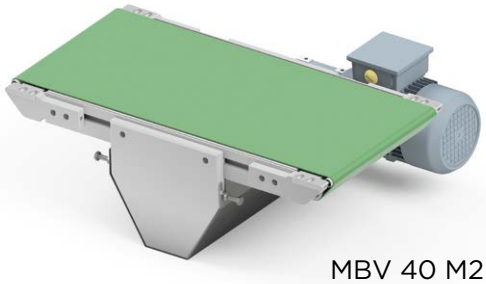
- MBV 40 D2 - direct drive at the end
- MBV 40 M2 i MBV 40 M3 - direct drive in the middle
- MBV 40 I2 - indirect drive under the conveyor

MADE IN POLAND

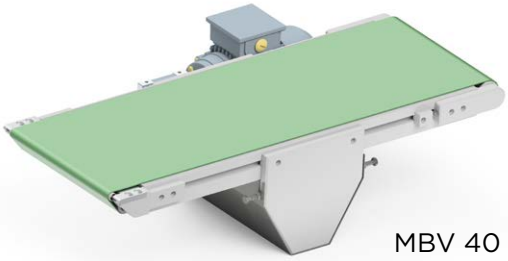


MBV 40 D2

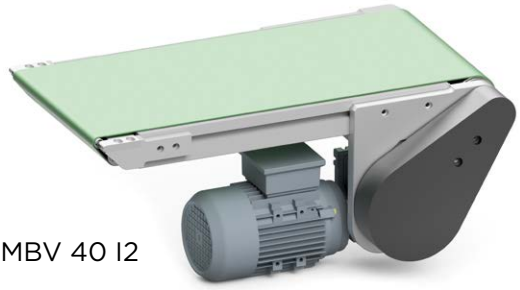
AVAILABLE WITHIN 7 BUSINESS DAYS



MBV 40 M2



MBV 40 M3



MBV 40 I2

TECHNICAL PARAMETERS*

Standard conveyor lengths L [mm]: L= 1000 ÷ 4000 [mm]	1000; 1500; 2000; 2500; 3000; 3500; 4000
Standard widths of the conveyor B [mm]: B= 100 ÷ 600 [mm]	100; 200; 300; 400; 500; 600
Adjustable height H [mm]:	600-900
Belt travel speed V [m/min]:	3-56
Load capacity G [kg/m]:	up to 50
Belt type:	PU
Gear motor:	Movlink 3X400V
Diameter of the MBV 40 D2 i I2 conveyor drive roller axis, option without gear motor:	Ø 15mm
Diameter of the MBV 40 M conveyor drive roller axis, option without gear motor:	M2 – Ø 15mm, 15mm M3 – Ø 15mm, 45mm

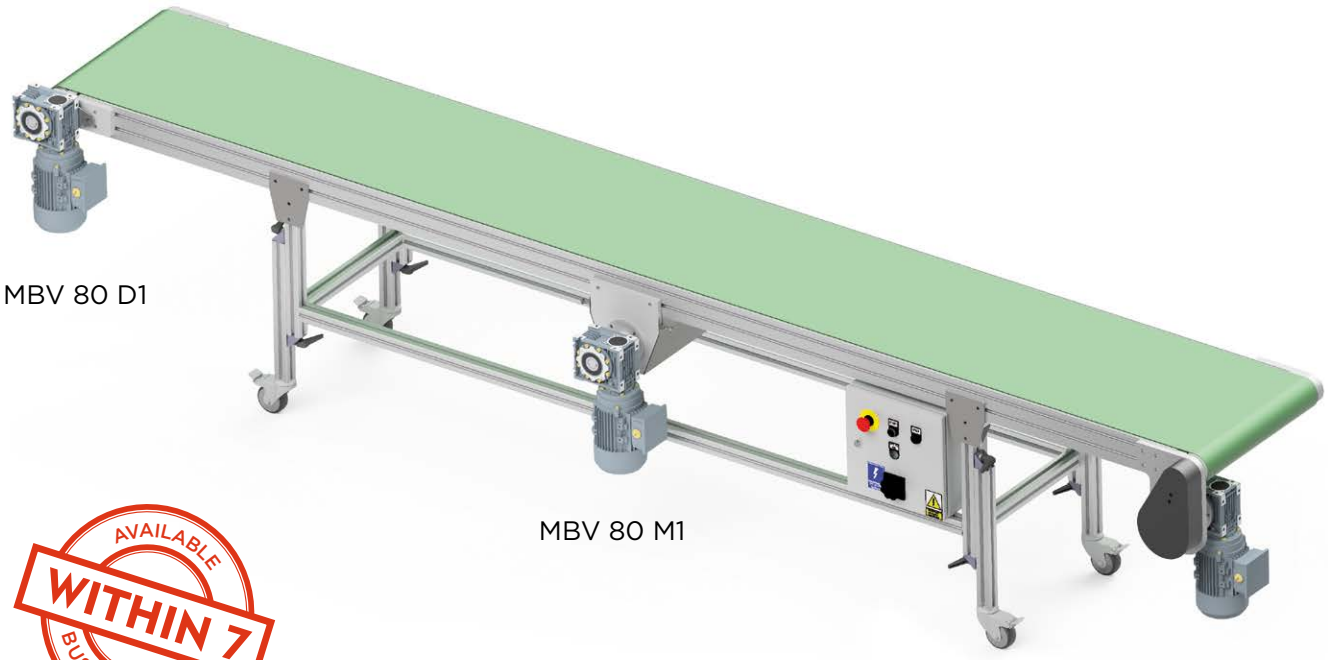
** other technical parameters on request.*

MBV 80 TYPE BELT CONVEYOR

Types

- MBV 80 D1 - direct drive at the end
- MBV 80 M1 - direct drive in the middle
- MBV 80 I1 - indirect drive under the conveyor

MADE IN POLAND



MBV 80 D1

MBV 80 M1

MBV 80 I1

AVAILABLE WITHIN 7 BUSINESS DAYS

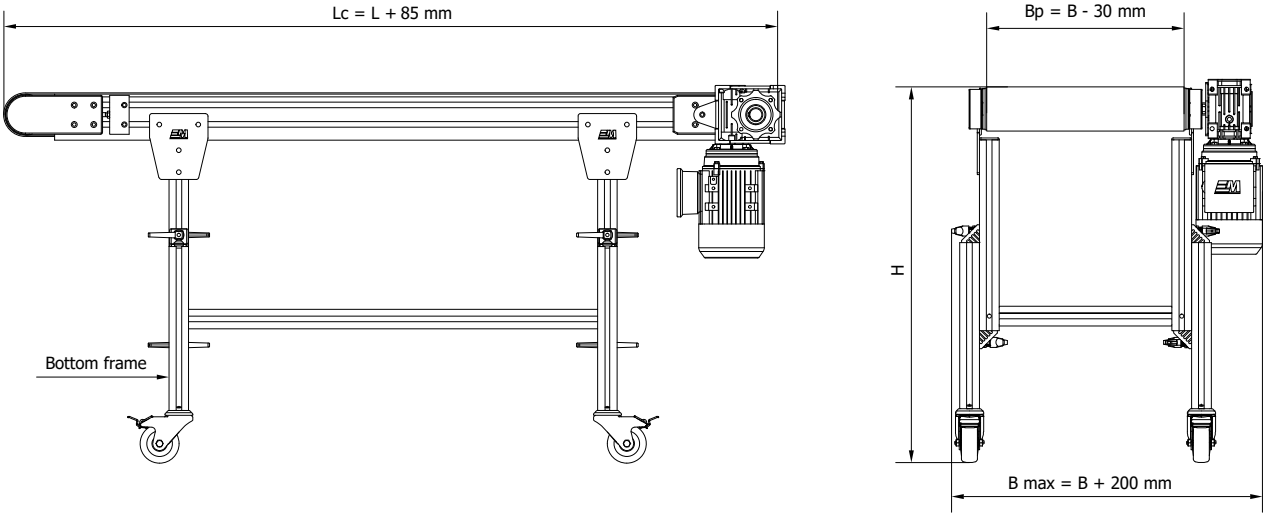
TECHNICAL PARAMETERS

Standard conveyor lengths L [mm]: L= 1000 ÷ 6000 [mm]	1000; 1500; 2000; 2500; 3000; 3500; 4000; 4500; 5000; 5500; 6000
Standard widths of the conveyor B [mm]: B= 130 ÷ 830 [mm]	130; 230; 330; 430; 530; 630; 730; 830
Adjustable height H [mm]:	600-900
Belt travel speed V [m/min]:	3-56
Total load capacity G [kg]:	300*
Belt type:	PCV/PU
Gear motor:	Movlink 3X400V
Diameter of the conveyor drive roller axis, option without gear motor:	Ø 85mm

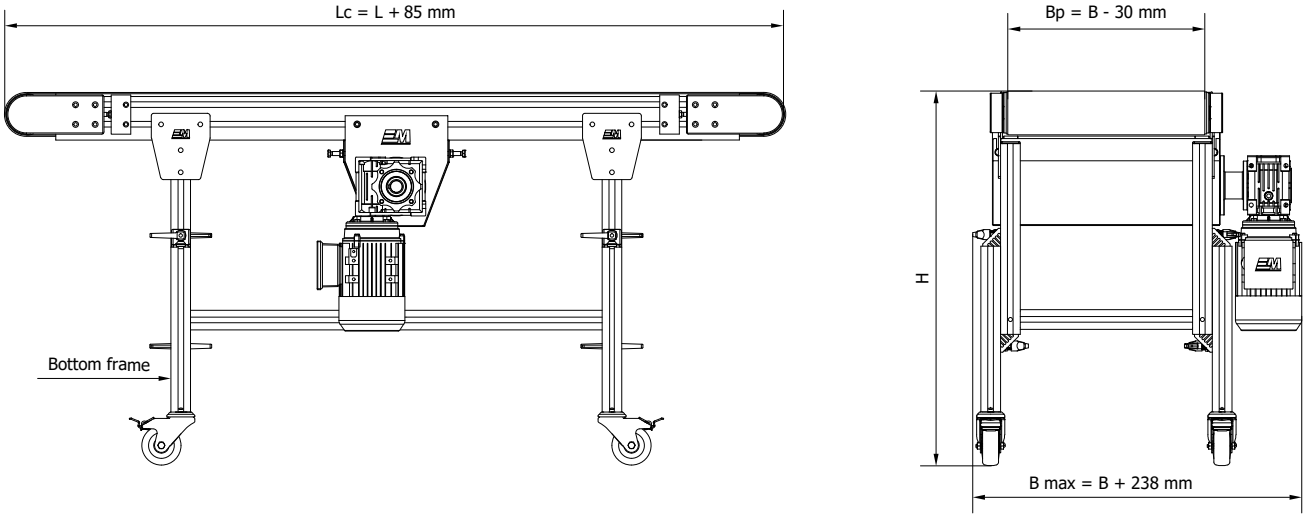
** not for all conveyor configurations.*

Other technical parameters on request.

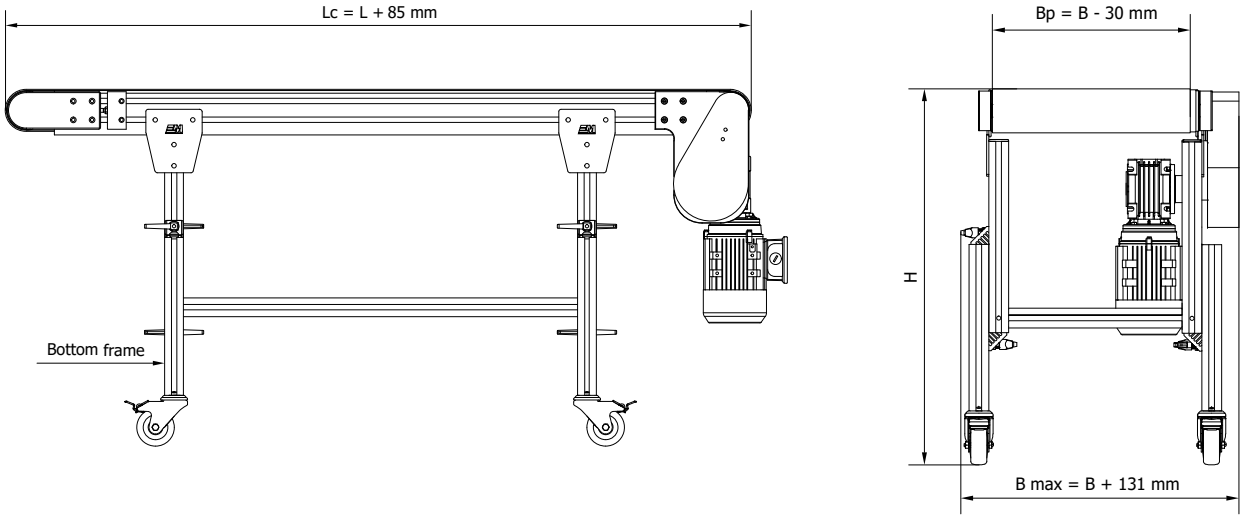
MBV 80 D1 TYPE CONVEYOR - DIRECT DRIVE AT THE END



MBV 80 M1 TYPE CONVEYOR - DIRECT DRIVE IN THE MIDDLE



MBV 80 I1 TYPE CONVEYOR - INDIRECT DRIVE



ADDITIONAL EQUIPMENT*

The modular design allows for simple expansion or change of conveyor configuration. Thanks to standardized components, the conveyor can be quickly and easily equipped with additional elements.

TYPES OF ADDITIONAL EQUIPMENT

Adjustable bands:	**HXW** = max 500 [mm]
	HXS = max 830 [mm]
Permanent bands:	**SB** = 50 [mm]
Bottom frame:	**SD** – Yes/No
Manual, hydraulic and electric height adjustment:	**RM** / **RH** / **RE**
Optional mounting to the ground:	**KF** – Yes/No
Optional mobile construction, swivel wheels with brake:	**ZK** – Yes/No
Control system with 40% speed adjustment:	**USF** – Yes/No
Standard start/stop control system:	**USBF** – Yes/No
Control system with a manual/auto inverter controlled with a signal from an external machine:	**USMA** – Yes/No

ADJUSTABLE BANDS

- They allow for easy adjustment in the horizontal and vertical plane
- The polyethylene cover protects the transported product against damage

PERMANENT BANDS

- Bands made of galvanized steel sheet
- Height: 50 mm*
- Galvanized steel sheet mounted within the outline of the conveyor

**other heights on request.*

** other additional equipment on request.*

MANUAL HEIGHT ADJUSTMENT

- The structure is based on aluminum profiles with a cross-section of 40x40
- Height adjustable in the range of 600-900mm
- Manual adjustment is made using clamping levers

HYDRAULIC AND ELECTRIC HEIGHT ADJUSTMENT*

*equipment at the customer's request.

- It is an individually selected additional equipment, depending on the conveyor parameters
- Height adjustment using hydraulic actuators
- The height is changed manually using a knob located on the hydraulic pump housing

OPTIONAL MOUNTING TO THE GROUND

- Enables attachment to the ground using steel foundation angles
- Possibility of anchoring using various types of anchors

MOBILITY OF THE STRUCTURE

- Swivel wheels with a brake allow you to easily and quickly move the device to any place
- Possibility of locking, in order to stabilize the structure in a specific position

USF control system with the possibility of smooth speed regulation in the range of 40% of the gear motor's rated value. This solution allows for stepless speed regulation within a specific range. In the standard solution, this adjustment is made using a knob located on the frequency converter housing, which is located inside the control cabinet. The size of this cabinet is 300x300x200mm, and the housing material is powder-coated steel. On the door of the box there are: the main power switch, START, STOP, Emergency STOP buttons and an indicator light indicating that the power supply is switched on. The supply voltage in this case is 24V DC. The control system is fitted with a 3 m long cable with a 230V AC plug.

The control system according to the USBF standard allows manual control of the transporter's operation with means of the START/STOP buttons. On the front wall of the housing there are: the main power switch, as well as START, STOP and Emergency STOP buttons. The dimensions of the control box are 240x190x90mm, and the housing material is plastic. The control system is fitted with 3 m long cable with a 5G16A plug.

Control system with a manual/auto USMA inverter controlled via a signal from an external machine. This solution allows for stepless speed regulation within a specific range. In the standard solution, this adjustment is made using a knob located on the frequency converter housing, which is located inside the control cabinet.

It is possible to control the system with an external potential-free manual/auto voltage source. On the door of the cabinet there are: main power switch, START, STOP, Emergency STOP buttons and a light indicating the supply voltage. The supply voltage in this case is 24V DC. The size of this cabinet is 400x400x200mm. The control system is fitted with a 3 m long cable with a 230V AC plug.

MBV 80 L TYPE BELT CONVEYOR

L-type bended ascending belt conveyors are designed for transporting light items of various shapes that require changing the height of the transported item. They are perfect for industries such as plastics processing, printing, packaging production, extrusion, co-packing, etc.

- Available break angles: 14°, 22°, 46°.
- Available working widths Br: from 200mm, section every 100mm, maximum working width 500mm.
- Belt with drivers: height of the driver Hz = 40mm, distance between the drivers Pp = 500mm.

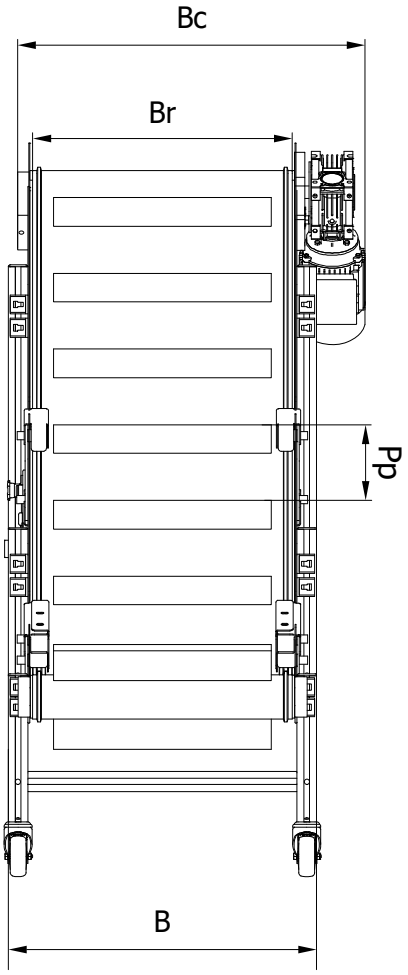
MADE IN POLAND

AVAILABLE WITHIN 14 BUSINESS DAYS

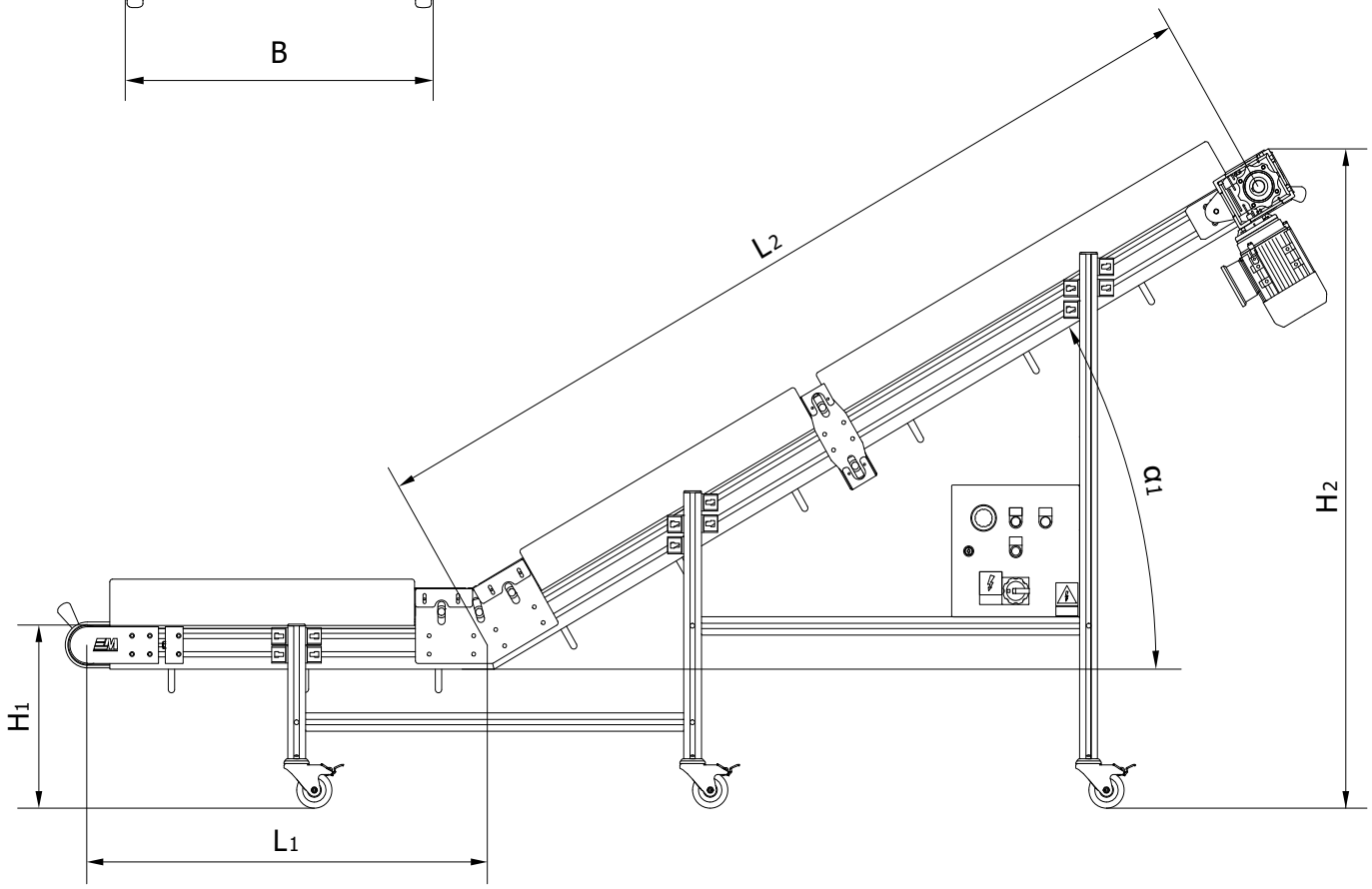
TECHNICAL PARAMETERS*

Length of the flat part L1 [mm]: L1 = 600 ÷ 6000 [mm]	600; 1100; 1600; 2100; 2600; 3100; 3600; 4100; 4600; 5100; 5600; 6000
Length of rise L2 for break angle α1=14°: L2 = 600 ÷ 10 000 [mm]	600; 1100; 1600; 2100; 2600; 3100; 3600; 4100; 4600; 5100; 5600; 6100; 6600; 7100; 7600; 8100;8600; 9100; 9600; 10 000
Length of rise L2 for break angle α1=22°: L2 = 600 ÷ 6500 [mm]	600; 1100; 1600; 2100; 2600; 3100; 3600; 4100; 4600; 5100; 5600; 6100; 6500
Length of rise L2 for break angle α1=46°: L2 = 600 ÷ 3500 [mm]	600; 1100; 1600; 2100; 2600; 3100; 3500
Total width of the conveyor Bc [mm]:	490; 590; 690; 790
Conveyor width B [mm]:	290; 390; 490; 590
Working width of the conveyor Br [mm]:	200; 300; 400; 500
Height H_1 [mm]:	min 200
Resultant height H_2 [mm]:	depends on the break angle α1 and the length L2
Belt travel speed V [m/min]:	3-40
Load capacity G [kg/m]:	max 20
Belt with drivers:	PCV/PU, driver height Hz = 40mm, distance Pp = 500mm
Gear motor:	Movlink 3X400V

** other technical parameters on request.*



Sample realization



MBV 80 Z TYPE BELT CONVEYOR

Z-type bended ascending belt conveyors have a transport carrier in the form of a belt, consisting of one section in a flat part and an ascending part. They are intended for transporting light items of various shapes that require changing the height of the transported item and feeding it to the further production process.

They are perfect for industries such as plastics processing, printing, packaging production, extrusion, co-packing, etc.

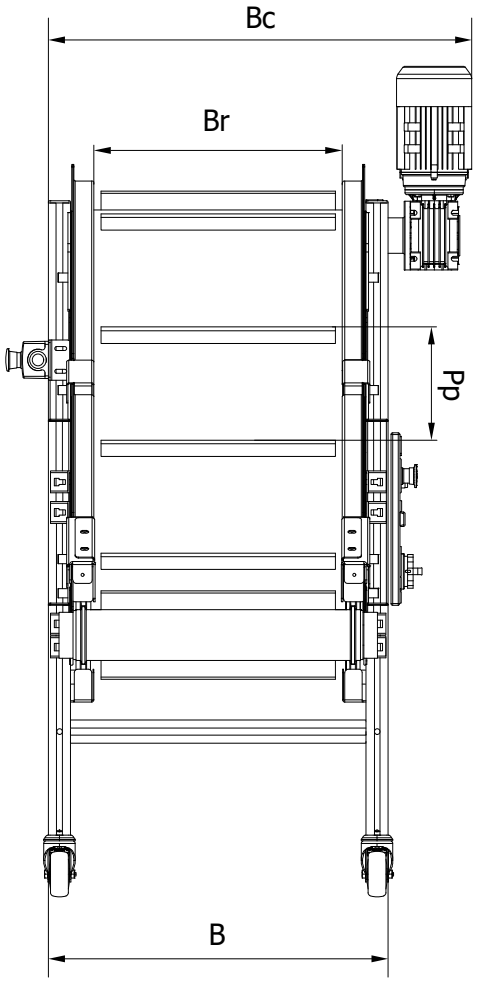
AVAILABLE WITHIN 14 BUSINESS DAYS

MADE IN POLAND

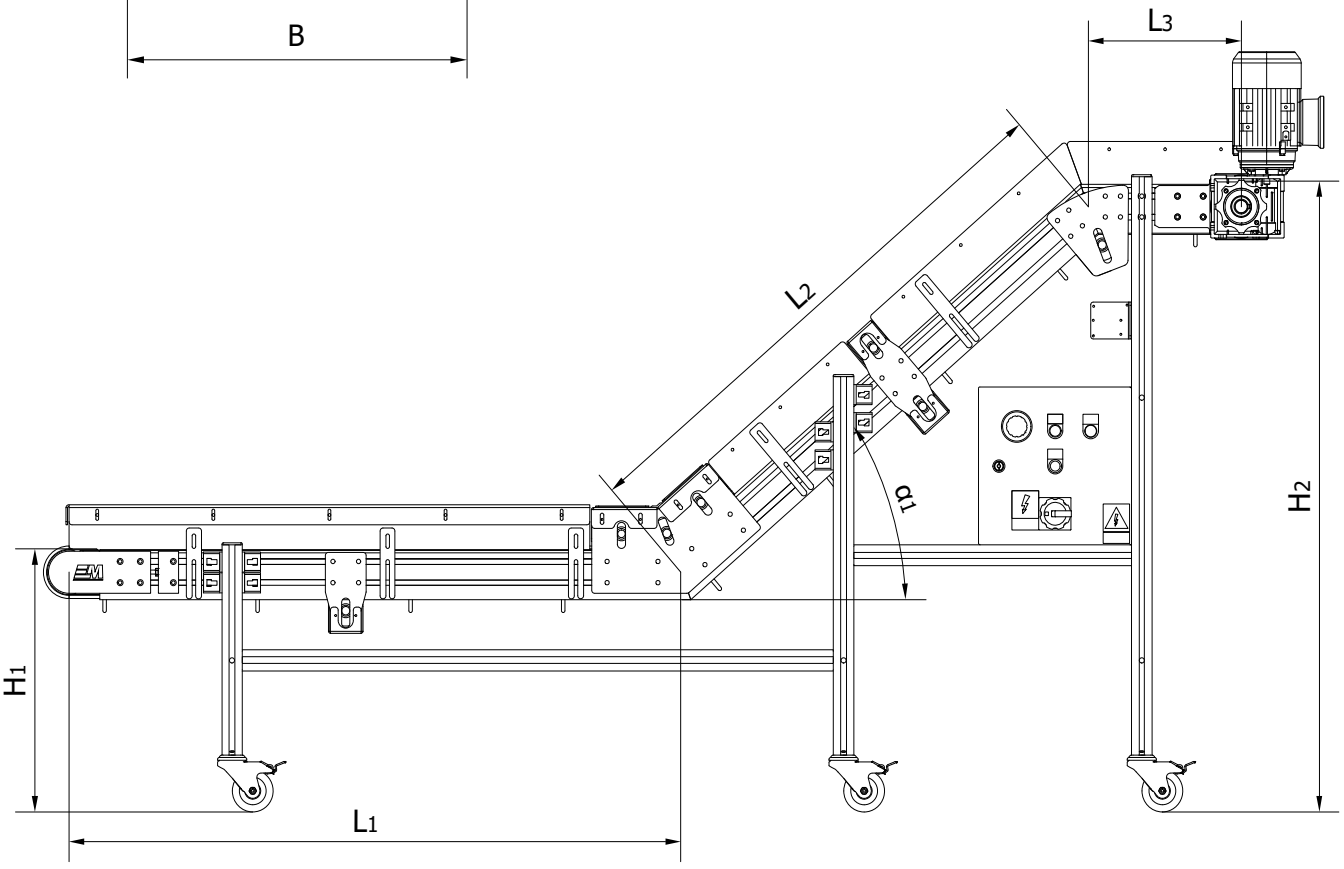
TECHNICAL PARAMETERS*

Length of the flat part L1 [mm]: L1 = 600 ÷ 6000 [mm]	600; 1100; 1600; 2100; 2600; 3100; 3600; 4100; 4600; 5100; 5600; 6000
Length of rise L2 for break angle α1=14°: L2 = 600 ÷ 10 000 [mm]	600; 1100; 1600; 2100; 2600; 3100; 3600; 4100; 4600; 5100; 5600; 6100; 6600; 7100; 7600; 8100;8600; 9100;9600; 10 000
Length of rise L2 for break angle α1=22°: L2 = 600 ÷ 6500 [mm]	600; 1100; 1600; 2100; 2600; 3100; 3600; 4100; 4600; 5100; 5600; 6100; 6500
Length of rise L2 for break angle α1=46°: L2 = 600 ÷ 3500 [mm]	600; 1100; 1600; 2100; 2600; 3100; 3500
Length of the flat part L3 [mm]: L3 = 600 ÷ 6000 [mm]	600; 1100; 1600; 2100; 2600; 3100; 3600; 4100; 4600; 5100; 5600; 6000
Total width of the conveyor Bc [mm]:	490; 590; 690; 790
Conveyor width B [mm]:	290; 390; 490; 590
Working width of the conveyor Br [mm]:	200; 300; 400; 500
Height H_1 [mm]:	min 200
Resultant height H_2 [mm]:	depends on the break angle α1 and the length L2
Belt travel speed V [m/min]:	3-40
Load capacity G [kg/m]:	max 20
Belt with drivers:	PCV/PU, driver height Hz = 40mm, distance Pp = 500mm
Gear motor:	Movlink 3X400V

** other technical parameters on request.*



Sample realization



BUILD YOUR CONVEYOR

The modularity of our systems enables easy configuration and construction of belt conveyors by yourself. We sell all the necessary components. Parts delivery within 7 business days.

No.	Cat. No	Spare parts for self-construction of MBV 40 D1 belt conveyors	
1	9040200	MBV 40 conveyor profile	L = 1000 ÷ 6000 [mm] PP - every 500[mm]
2	993120	Conveyor frame profile 40x40L	L = 50÷750[mm] PP - every 100[mm]
3	548854	Set of angles for connections 40x40	
4	9111000	MBV 40 D1 drive roller kit	
5	9112000	MBV 40 D1 return roller mounting kit	
6	RN40D1W130.../W830	Drive roller of the MBV 40 D1 belt conveyor	W130-W830 PP - every 100mm
7	RP40D1W130.../W830	Return roller of the MBV 40 D1 belt conveyor	W130-W830 PP - every 100mm
8	MTR40W130.../W830	Support roller of the MBV 40 D1 conveyor belt	W130-W830 PP- every 100mm used above the conveyor length L-1500mm

No.	Cat. No	Spare parts for self-construction of MBV 40 M1 belt conveyors	
1	9040200	MBV 40 conveyor profile	L = 1000 ÷ 6000 [mm] PP - every 500[mm]
2	993120	Conveyor frame profile 40x40L	L = 50÷750[mm] PP - every 100[mm]
3	548854	Set of angles for connections 40x40	
4	9114001	MBV 40 M1 central drive mounting kit	
5	9112000	MBV 40 D1 return roller mounting kit	
6	RN40M1W130.../W830	Drive roller of the MBV 40 M1 belt conveyor	W130-W830 PP - every 100mm
7	RNMC40M1W130.../ W830	MBV 40 M1 tension roller	W130-W830 PP - every 100mm
8	RP40D1W130.../W830	Return roller of the MBV 40 D1 belt conveyor	W130-W830 PP - every 100mm
9	MTR40W130.../W830	Support roller of the MBV 40 D1 conveyor belt	W130-W830 PP - every 100mm used above the conveyor length L-1500mm
10	OMC40M1	MBV 40 M1 central module cover	

No.	Cat. No	Spare parts for self-construction of MBV 40 I1 belt conveyors Left/Right	
1	9040200	MBV 40 conveyor profile	L = 1000 ÷ 6000 [mm] PP - every 500[mm]
2	993120	Conveyor frame profile 40x40L	L = 50÷750[mm] PP - every 100[mm]
3	548854	Set of angles for connections 40x40	
4	9113001	Drive roller kit 40-I1 left	
5	9113111	Drive roller kit 40-I1 right	
6	9112000	MBV 40 return roller mounting kit	
7	RN40I1W130.../W830	Drive roller of the MBV 40 I1 belt conveyor	W130-W830 PP - every 100mm
8	RN40I1W130.../W830	MBV 40 I1 tension roller	W130-W830 PP - every 100mm
9	RP40D1W130.../W830	Return roller of the MBV 40 D1 belt conveyor	W130-W830 PP - every 100mm
10	MTR40W130.../W830	Support roller of the MBV 40 D1 conveyor belt	W130-W830 PP - every 100mm used above the conveyor length L-1500mm

CONVEYOR BELT INQUIRY CARD

Conveyor dimensions	Length of the conveyor from axle to axle – L [mm]:	
	Working width of the belt – Bp [mm]:	

Bottom frame ☐ YES ☐ NO	**If so, please specify:**	
	Height to the upper level of the belt [mm]:	
	Height adjustment type:	☐ manual ☐ hydraulic ☐ electric ☐ none
	Height adjustment [mm]:	from to
	End of the lower part of the frame:	☐ fixed to the ground ☐ adjustable articulated legs +/- 15mm ☐ steerable wheels with a brake

Control system **The adjustment range does not exceed +/- 40% of the rated speed at 35Hz*	☐ No control system – constant speed [m/min] (3x400V power supply):	
	☐ Control system without a USBF inverter – constant speed [m/min] (3x400V AC power supply):	
	☐ Control system with a USF inverter - adjustable speed [m/min] (1x230V AC or 3x400V AC power supply):	from to
	☐ Manual/Auto control system with inverter, controlled externally USMA – adjustable speed [m/min] (1x230V AC or 3x400V AC power supply):	from to
	☐ Other type of control system:	

Drive and placement	☐ drive at the end of the D1 conveyor ☐ drive at the end, under the I1 conveyor ☐ drive in the middle of the M1 conveyor ☐ going barrel at the end of the conveyor

Conveyor load and material transported	Conveyor load along the entire length [kg]:					
	Conveyor load per 1m [kg/m]:					
	Temperature of the transported workpiece [C]:					
	Does the transported workpiece have sharp edges?	☐ yes ☐ no				
	Do workpieces accumulate on the belt?	☐ yes ☐ no				
	Dimensions of the transported workpiece:	Length:		Width:		Height:
	Additional description of the workpiece:					

Bands ☐ YES ☐ NO	**If so, please specify:**			
	Constant sides – galvanized steel sheet – height [mm]:			
	Adjustable sides:	Height adjustment range [mm]:		Width adjustment range [mm]:

Operation	Number of work stops per hour:	
	Number of working hours per day:	
	Final location of the conveyor:	☐ hall, level 0 ☐ hall, floor 1 or above
	Working conditions:	☐ normal* ☐ other

Additional information	Number of people working on the conveyor:	
	Additional cover/cage above the conveyor belt:	☐ yes ☐ no
	Optical sensor:	☐ at the end ☐ at the start ☐ two ends

** normal conditions shall be understood as: ambient temperature of 5-40°C, humidity <10%, work within the production hall*

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