

## Table of contents

- **TB40**
- **TB80**
- **Drive units TB40**
- **Drive units TB80**
- **Belts**
- **Slot and Cover Profiles**
- **Conveyor Stands**

## TB40

Timing belt conveyor with end drive. Can be used as a single unit or as a system with up to ten synchronized timing belt conveyors in width. Options as cleats, false teeth or coated belt. Stand 100% compatible with conveyor available as an option. Inclination or declination of  $\pm 10^\circ$  is possible. For dimensions outside our standard range, please contact Rollco.

Note: Please see load/speed diagram for current values. Use our CAD configurator to design your timing belt conveyor according to your preferences and get a visual view, download data sheet and CAD files.



TB40 and TB80 have been extensively tested over its full performance range of speeds, loads, and lengths, together with our standard drive units.

Declaration of installation of partly completed machinery according to Directive 2006/42/EC Annex II 1B.

Dimensions in mm.

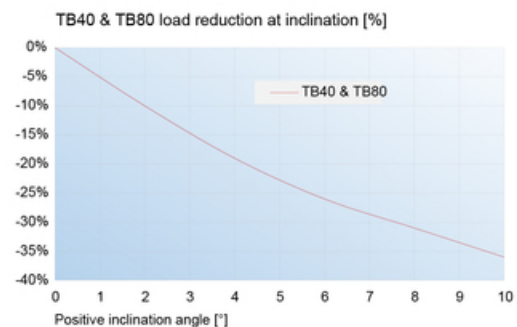
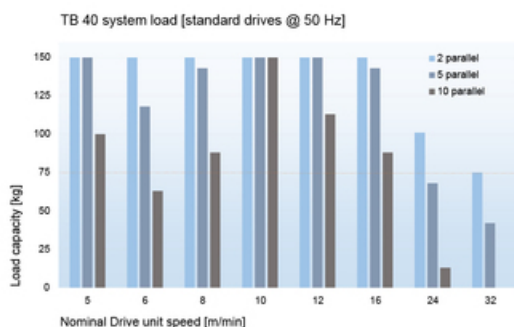
**Speed (m/min):** up to 32

**Drive side:** Left/Right

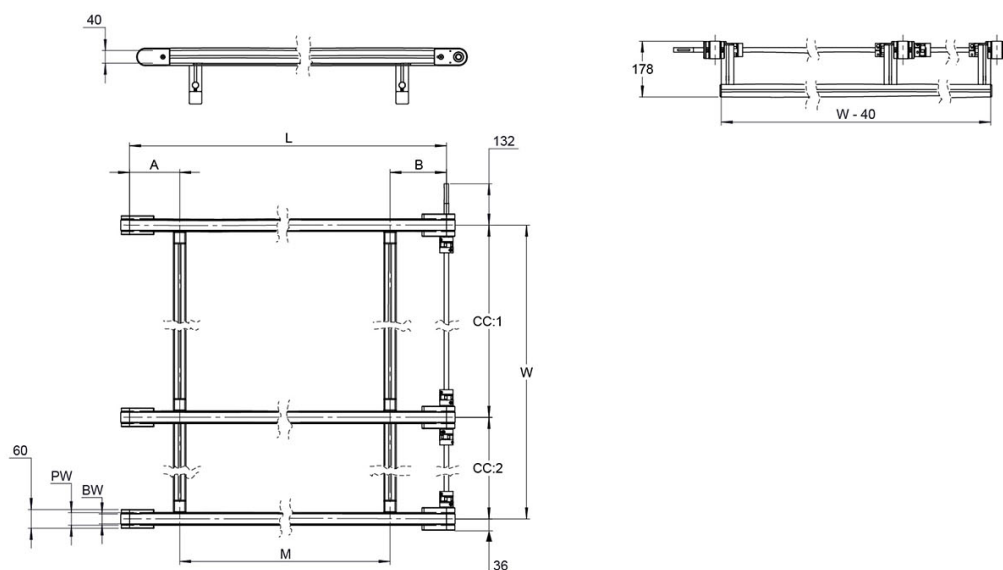
**No. of parallel units:** Up to 10 pcs

**Incline/decline:**  $\pm 10^\circ$

**System load:** Up to 150kg



## General Data



Designation	Profile Width (PW)	Profile Height	Belt Width (BW)	Total Length (L)	Total Width (W)
<b>TB40</b>	40	40	32	max 6000	max 6000

Designation	CC	No. of parallell units	A	B	M
<b>TB40</b>	max 1500	1-10	130-300	130-200	160-800

## TB80

Timing belt conveyor with end drive. Can be used as a single unit or as a system with up to ten synchronized timing belt conveyors in width. Options as cleats, false teeth and coated belt. Stand 100% compatible with conveyor available as an option. Inclination or declination of  $\pm 10^\circ$  is possible. For dimensions outside our standard range, please contact Rollco.

Note: Please see load/speed diagram for current values. Use our CAD configurator to design your timing belt conveyor according to your preferences and get a visual view, download data sheet and CAD files.



TB40 and TB80 have been extensively tested over its full performance range of speeds, loads, and lengths, together with our standard drive units.

Declaration of installation of partly completed machinery according to Directive 2006/42/EC Annex II 1B.

Dimensions in mm.

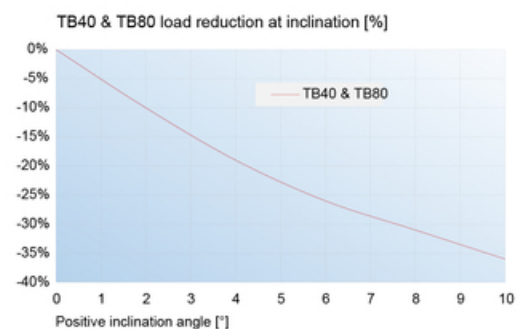
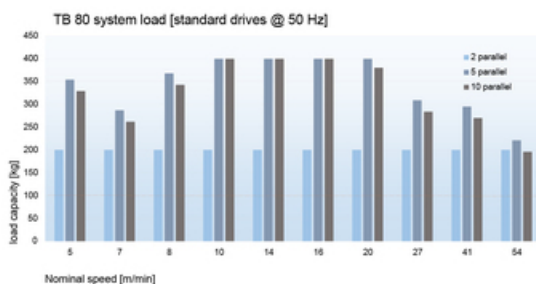
**Speed (m/min):** Up to 54

**Drive side:** Left/Right

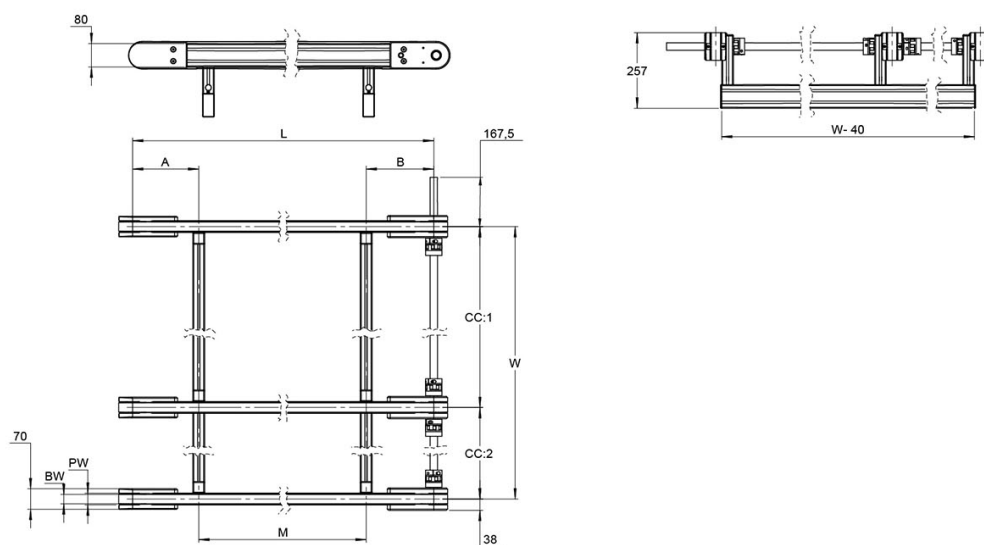
**No. of parallel units:** Up to 10 pcs

**Incline/decline:**  $\pm 10^\circ$

**System load:** Up to 400 kg



## General Data



Designation	Profile Width (PW)	Profile Height	Belt Width (BW)	Total Length (L)	Total Width (W)
TB80	40	80	32	max 6000	max 6000

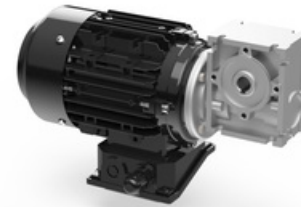
Designation	CC	No. of parallell units	A	B	M
<b>TB80</b>	max 2000	1-10	210-600	210-300	160-1200

## Drive units TB40

We offer a standard selection of motors and gears for TB40 timing belt conveyor.

We can customise the drive shaft to accommodate many different motors and gear choices. Please contact Rollco for more information.

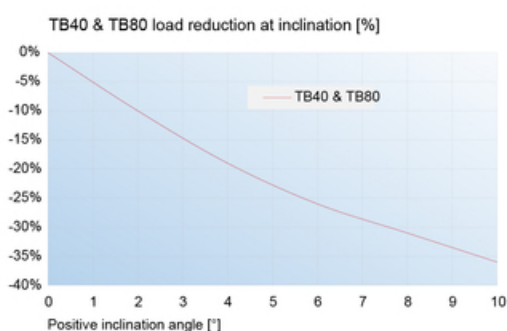
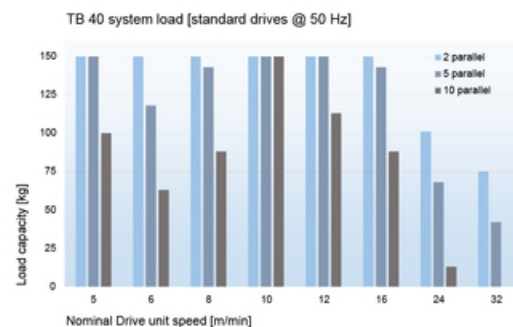
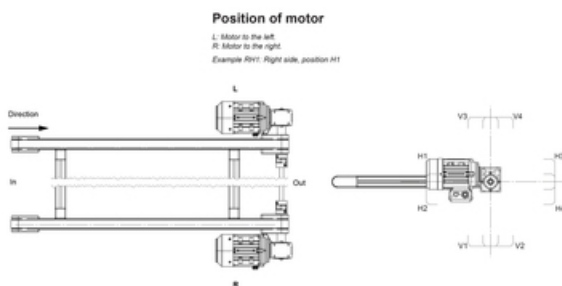
Performance data based on continuous operation at nominal voltage, 50 Hz and 1400 rpm motor speed.  
For operation using frequency inverter please contact Rollco.



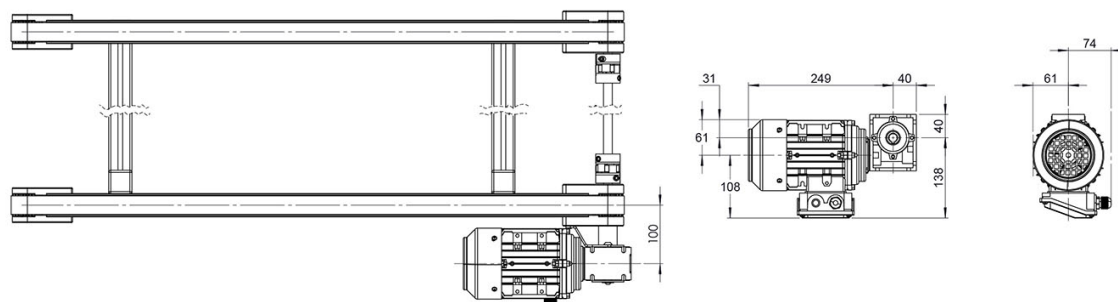
Motors and gears are not assembled to the unit.

**Motor Type:** Worm gear drive with 4-pole 3-phase 230/400 VAC-50 Hz motor

**Protection Class:** IP55



## General Data



Designation	Speed code	Power (kW)	Conveyor speed at 50 Hz (m/min)	Output speed (rpm) at 50 Hz	Output torque at 50 Hz (Nm)
Driveunit-40-5	5	0.12	4.8	28	17
Driveunit-40-6	6	0.12	6	35	14
Driveunit-40-8	8	0.12	7.9	46.7	16
Driveunit-40-10	10	0.18	9.5	56	21
Driveunit-40-12	12	0.18	11.9	70	18
Driveunit-40-16	16	0.18	15.9	93.3	14
Driveunit-40-24	24	0.18	23.8	140	10
Driveunit-40-32	32	0.18	31.7	186.7	7.8

Designation	Gear reduction	Phase current at 400 VAC (A)
Driveunit-40-5	50	0.44
Driveunit-40-6	40	0.44
Driveunit-40-8	30	0.44
Driveunit-40-10	25	0.55
Driveunit-40-12	20	0.55
Driveunit-40-16	15	0.55
Driveunit-40-24	10	0.55
Driveunit-40-32	7.5	0.55

## Drive units TB80

We offer a standard selection of motors and gears for TB80 timing belt conveyor.

We can customise the drive shaft to accommodate many different motors and gear choices. Please contact Rollco for more information.

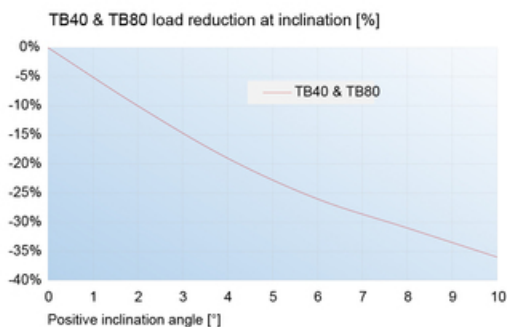
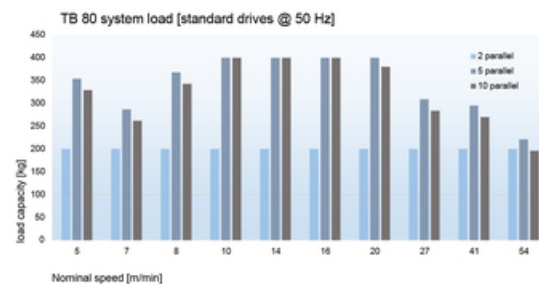
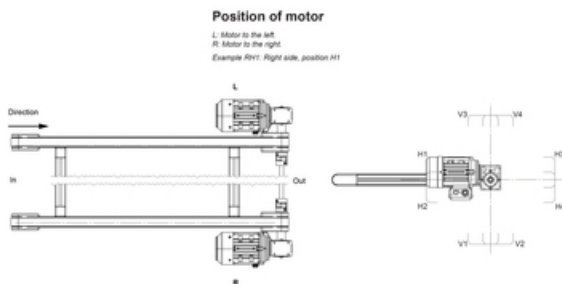
Performance data based on continuous operation at nominal voltage, 50 Hz and 1400 rpm motor speed. For operation using frequency inverter please contact Rollco.



Motors and gears are not assembled to the unit.

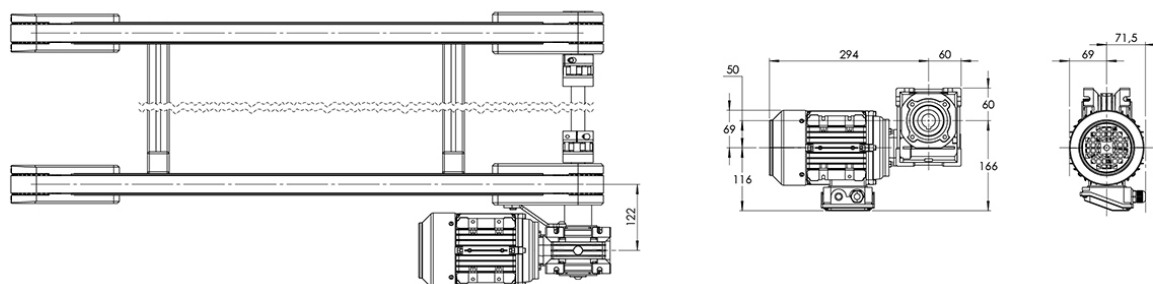
**Motor Type:** Worm gear drive with 4-pole 3-phase 230/400 VAC-50 Hz motor

**Protection Class:** IP55





## General Data



Designation	Speed code	Power (kW)	Conveyor speed at 50 Hz (m/min)	Output speed (rpm) at 50 Hz	Output torque at 50 Hz (Nm)
Driveunit-80-5	5	0.25	5.1	17.5	52
Driveunit-80-7	7	0.25	6.8	23.3	60
Driveunit-80-8	8	0.25	8.1	28	54
Driveunit-80-10	10	0.37	10.2	35	68
Driveunit-80-14	14	0.55	13.5	46.7	81
Driveunit-80-16	16	0.55	16.2	56	71
Driveunit-80-20	20	0.55	20.3	70	59
Driveunit-80-27	27	0.55	27.1	93.3	46
Driveunit-80-41	41	0.75	40.6	140	44
Driveunit-80-54	54	0.75	54.1	186.7	34

Designation	Gear reduction	Phase current at 400 VAC (A)
Driveunit-80-5	80	0.77
Driveunit-80-7	60	0.77
Driveunit-80-8	50	0.77
Driveunit-80-10	40	1.01
Driveunit-80-14	30	1.47
Driveunit-80-16	25	1.47
Driveunit-80-20	20	1.47
Driveunit-80-27	15	1.47
Driveunit-80-41	10	1.9
Driveunit-80-54	7.5	1.9

## Belts

The standard belt for our Timing belt conveyors is a white TPU with steel cord that is covered on the tooth side with a polyamide fabric to reduce noise and friction.

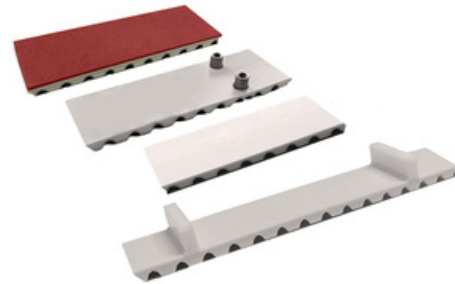
The profile of the belt is the well proven AT10 for both TB40 and TB80.

Option with coating, cleats, and false teeth.

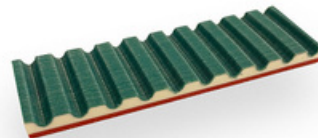
Belt tension is easily adjusted with open screws on the slave/return side.

Dimensions in mm.

For other type of belt requirements please contact Rollco.



Standard TPU

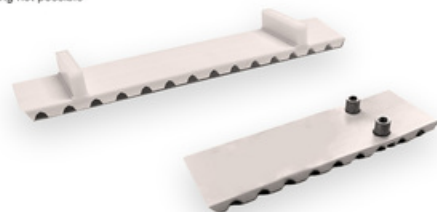


Green polyamide fabric



Standard TPU + Coating Linatex

Standard TPU with cleats  
\*coating not possible



Standard TPU with false teeth  
\*coating not possible

### Belt tension



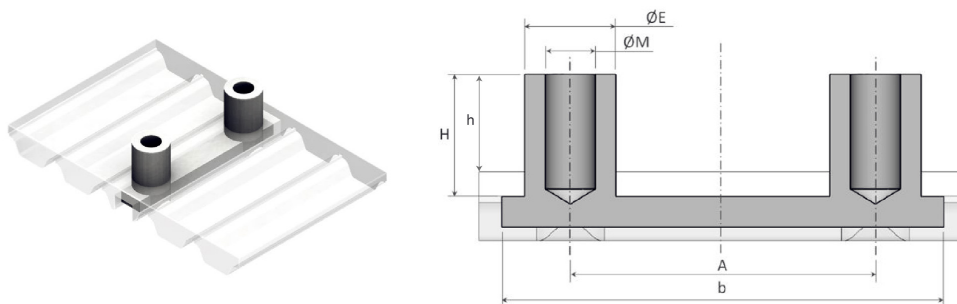
\*Belt is always properly tensioned upon delivery

## General Data

Designation	Type	Tooth	Material	Colour	Material Tooth Side
Belt-A	Standard	AT10	TPU	White (Top surface)	PA fabric green
Belt-B	Standard + Coating	AT10	TPU + Linatex 2mm	Red (Top surface)	PA fabric green
Belt-C	Standard + Coating	AT10	TPU + Linatex 4mm	Red (Top surface)	PA fabric green
Belt-A-CL	Standard + Cleats	AT10	TPU + Bonded PU	White (Top surface)	PA fabric green
Belt-A-CM	Standard + Cleats	AT10	TPU + Bonded PU	White (Top surface)	PA fabric green
Belt-A-CH	Standard + Cleats	AT10	TPU + Bonded PU	White (Top surface)	PA fabric green
Belt-A-FT	Standard + False Teeth	AT10	TPU + Stainless steel	White (Top surface)	PA fabric green

Designation	Timing Belt Conveyor	Cleat Size (HxWxT)	C/C Cleats/False Teeth
Belt-A	TB40/TB80	-	-
Belt-B	TB40/TB80	-	-
Belt-C	TB80	-	-
Belt-A-CL	TB40/TB80	10x32x4	See CAD-configurator
Belt-A-CM	TB40/TB80	20x32x4	See CAD-configurator
Belt-A-CH	TB40/TB80	30x32x4	See CAD-configurator
Belt-A-FT	TB40/TB80	See drawing	See CAD-configurator

## False Teeth Data



Designation	b	ØE	Thread ØM	H	h
Belt-A	-	-	-	-	-
Belt-B	-	-	-	-	-
Belt-C	-	-	-	-	-
Belt-A-CL	-	-	-	-	-
Belt-A-CM	-	-	-	-	-
Belt-A-CH	-	-	-	-	-
Belt-A-FT	29	6	M4x8	8	6

Designation	A
Belt-A	-
Belt-B	-
Belt-C	-
Belt-A-CL	-
Belt-A-CM	-
Belt-A-CH	-
Belt-A-FT	20

## Slot and Cover Profiles

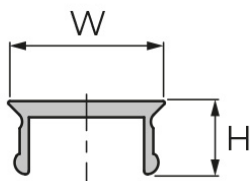
For covering aluminium profile slots/grooves. Prevents the profile slot from becoming dirty.  
(Only for profiles with 8 mm slots.)

**System:** 40 - Slot 8

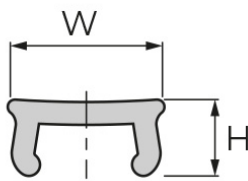
**Type:** Sealing, Coverstrips & Rubbers



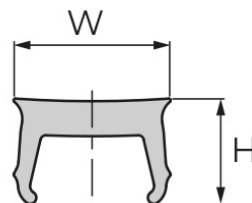
## General Data



**PP1111**



**SP7900N**



**SZ1820N / SZ1820S**

Designation	Description	System	Material	Colour	W
<b>PP1111</b>	Cover profile 40	40 - Slot 8	Plastic (PP)	Aluminium coloured	9.1
<b>SP7900N</b>	Cover profile 40	40 - Slot 8	Aluminium	Aluminium	9
<b>SZ1820N</b>	Slot Profile 40	40 - Slot 8	Plastic (PP)	Light grey	9
<b>SZ1820S</b>	Slot Profile 40	40 - Slot 8	Plastic (PP)	Black	9

Designation	H	Length (mm)
<b>PP1111</b>	5.1	2000
<b>SP7900N</b>	4	3000
<b>SZ1820N</b>	6	2000
<b>SZ1820S</b>	6	2000

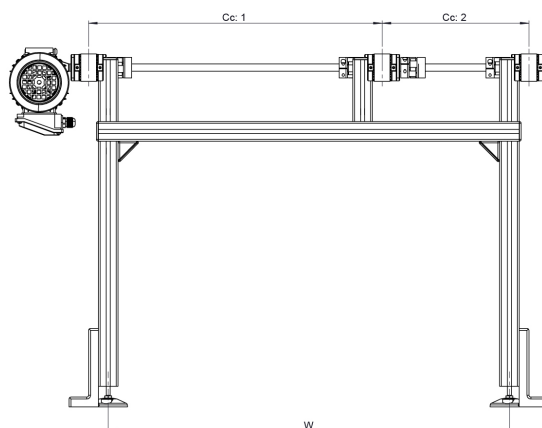
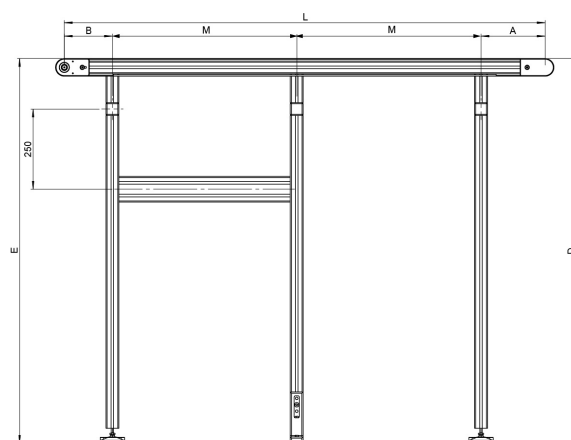
## Conveyor Stands

Aluminium profile stand fitted to match Rollco timing belt conveyors. Always 100% compatible with the conveyor. Available with adjustable feet, fixable feet or without feet. Configure your stand together with the timing belt conveyor in our CAD-configurator.

\*Values shown under "General Data" indicates min and max values in mm. according to our standard configurations. For other designs, please contact Rollco.



## General Data



Designation	A	B	D	E	L
Conveyor-stand-TB40	130-300	130-200	366-1200	366-1200	max 6000
Conveyor-stand-TB80	210-600	210-300	446-1200	446-1200	max 6000

Designation	M
Conveyor-stand-TB40	160-800
Conveyor-stand-TB80	160-1200