## **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 +/- 10° 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.

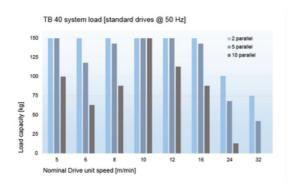
Declaration of installation of partly completed machinery according to Directive 2006/42/EC Annex II 1B.



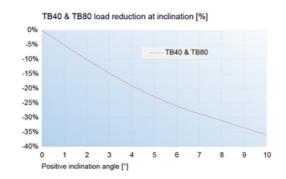
**Speed (m/min):** up to 32 **Drive side:** Left/Right

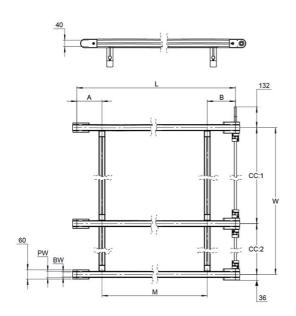
No. of parallell units: Up to 10 pcs

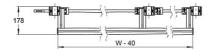
Incline/decline: +/- 10°
System load: Up to 150kg











Designation	Profile Width (PW)	Profile Height	Belt Width (BW)	Total Length (L)	Total Width (W)
TB40	40	40	32	max 6000	max 6000
Designation	CC	No. of parallell units	Α	В	M
TB40	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 +/- 10° 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.

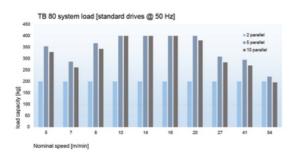
Declaration of installation of partly completed machinery according to Directive 2006/42/EC Annex II 1B.



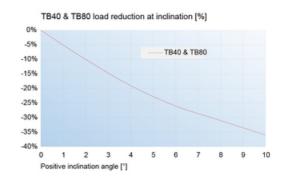
Speed (m/min): Up to 54 Drive side: Left/Right

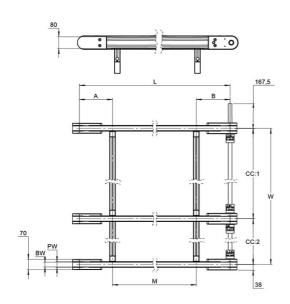
No. of parallell units: Up to 10 pcs

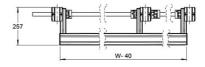
Incline/decline: +/- 10°
System load: Up to 400 kg











Designation	Profile Width (PW)	Profile Height	Belt Width (BW)	Total Length (L)	Total Width (W)
TB80	40	80	32	max 6000	max 6000
Designation	СС	No. of parallell units	Α	В	M
TB80	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.

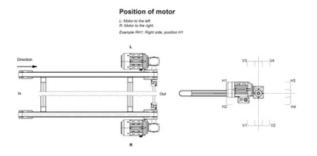
We can customise the drive shaft to accommodate many different motors and gear choices. Please contact Rollco for more information.

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

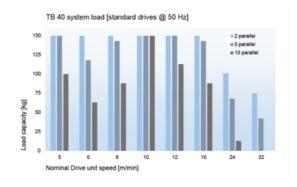
Motors and gears are not assembled to the unit.

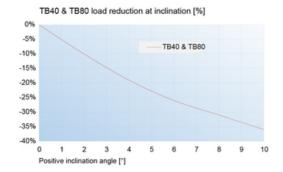
Motor Type: Worm gear drive with 4-pole 3-phase 230/400

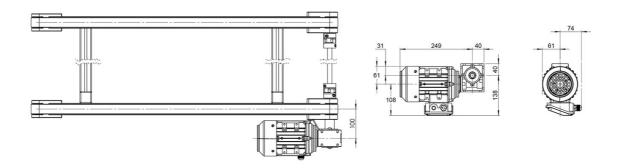
VAC-50 Hz motor Protection Class: IP55











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.

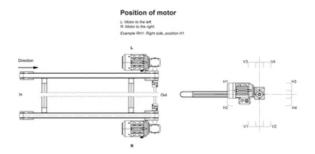
We can customise the drive shaft to accommodate many different motors and gear choices. Please contact Rollco for more information.

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

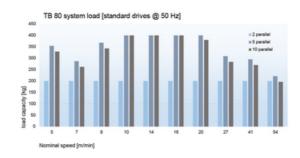
Motors and gears are not assembled to the unit.

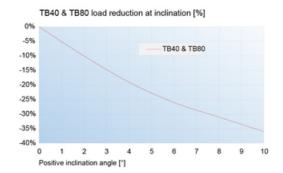
Motor Type: Worm gear drive with 4-pole 3-phase 230/400

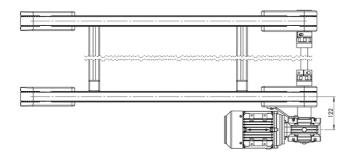
VAC-50 Hz motor **Protection Class:** IP55

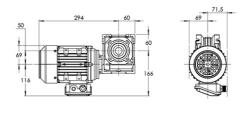












Designation	Speed code	Power (kW)	Conveyor speed at 50 Hz (m/min)	Output speed (rpm) at 50 Hz	Output torque at 50 Hz (Nm)
Driveunit-80-5	5	0.25	5.1	17.5	52
Driveunit-80-7	7	0.25	6.8	23.3	60
Driveunit-80-8	8	0.25	8.1	28	54
Driveunit-80-10	10	0.37	10.2	35	68
Driveunit-80-14	14	0.55	13.5	46.7	81
Driveunit-80-16	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.

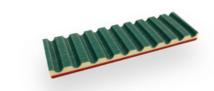
Dimensions in mm.

For other type of belt requirements please contact Rollco.





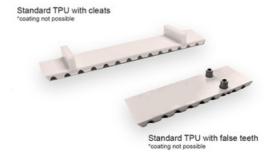




Green polyamide fabric



Standard TPU + Coating Linatex



Belt tension

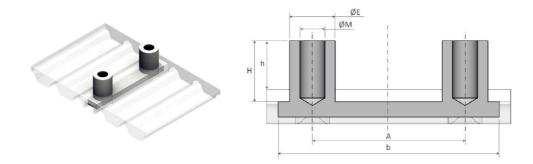


\*Belt is always properly tensioned upon delivery

Designation	Туре	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	н	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

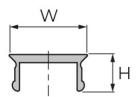
### **Slot and Cover Profiles**

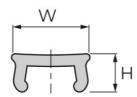
For covering aluminium profile slots/grooves. Prevents the profile slot from becoming dirty. (Only for profiles with 8 mm slots.)

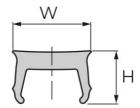
System: 40 - Slot 8

Type: Sealing, Coverstrips & Rubbers









**PP1111** 

SP7900N SZ1820N / SZ1820S

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

Designation	н	Length (mm)
PP1111	5.1	2000
SP7900N	4	3000
SZ1820N	6	2000
SZ1820S	6	2000

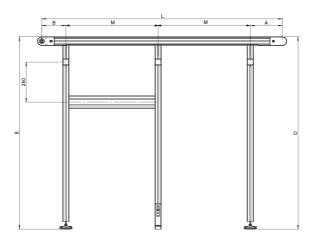
# **Conveyor Stands**

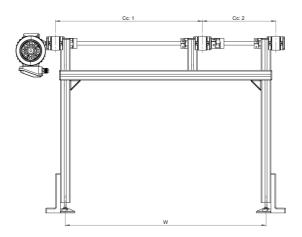
Aluminium profile stand fitted to match Rollco timing belt conveyors. Always 100% compatible with the conveyor. Available with adjustable feet, fixable feet or without feet. Configure your stand together with the timing belt conveyor in our CAD-configurator.

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









Designation	A	В	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	М
Conveyor-stand-TB40	160-800
Conveyor-stand-TB80	160-1200