

# Cablevey Conveyors FAQ's

## Q What is it?

A Cable and disc tubular drag conveyor

## Q How far can this conveyor run?

A Depending on the materials conveyed, the tube diameter and the configuration of the system, generally you can go on way:

- 2" (50mm)- 300+' (91m plus)
- 4" (100mm)- 150'-200' (46m-61m)
- 6" (150mm)-100'-150' (30m-46m)
- 8" (200mm)- Up to 125' (38m)

## Q How do you clean your conveyors?

A We have a variety of ways to clean your system, depending on whether dry or wet cleaning is needed. Starting with a one-time use sponge that can be used with water or cleaner and a urethane squeegee that goes around your system continually. An air knife and brush box can also be used in dry cleaning.

### Typical procedure for wet cleaning

**Step 1-** Install Wiper- The wiper disc is installed on the cable so it can be moved throughout the entire system. It scrubs and squeegees the insides of the tubes and its friction helps dry the system at the end of the process. ( 1 per system)

**Step 2-** Pre Rinse- Hot or ambient temperature water is introduced in the system through a water port. After filling entire conveyor the drain valves in the drive and turnaround unit are open. Usually most material from the conveyor exits with the water.

**Step 3-** Hot Foaming Detergent- Hot water, detergent, and compressed air are mixed to create foam that is introduced into the system. The cleaning foam contacts all surfaces touched by the conveyed product.

**Step 4-** Water Rinse- A second rinse of hot or ambient water is introduced to the system to rinse away any remaining detergent.

**Step 5-** Sanitizing Rinse- Water/ sanitizer mixture at maximum dilution is introduced into the system to cleanse all of the food contact surfaced throughout the system.

## Q How much can it convey? (Based on 80% Capacity)

A Depending on your material, its density and other properties we can convey up to:

- 2" (50mm) - 75ft<sup>3</sup> (2.12M<sup>3</sup>) / Hour
- 8" (200mm) - 2,000 ft<sup>3</sup> (54m<sup>3</sup>) / Hour



The Gentle Way to Convey®

Our most commonly used 4" (100mm) system can convey up to 525 ft<sup>3</sup> (14.87m<sup>3</sup>)/Hour and 6" (150mm) system can convey up to 1,240 ft<sup>3</sup> (35.4m<sup>3</sup>)/Hour under certain conditions which include:

- Material- Powder like material allowing a 90% fill level
- 1 or 2 piece discs- 2 piece
- Discharge - none
- Controlled Flow Back

\*If the above conditions are not met the recommended max is 448 ft<sup>3</sup> (12.68M<sup>3</sup>) / Hour

How to determine system size	
Desired Rate (lbs/hour) (kgs/hour)	Product Density (lbs per cubic ft) (kgs/cubic meter)
/	
Equals	
(Cubic Feet Per Hour) (Cubic Meters Per Hour)	

2000 Series - Maximum 75 Ft<sup>3</sup>/hour (2.12 M<sup>3</sup>) 2"-50mm

Cable Speed		Flow Rate			
Ft/Minute	Meter/Minute	Ft <sup>3</sup> /Hour	Lbs./Hour*	m <sup>3</sup> /Hour	Kg./Hour
40	12.19	30	1,200	0.85	544
60	18.29	45	1,800	1.27	816
80	24.38	60	2,400	1.7	1,088
100	30.48	75	3,000	2.12	1,361

4000 Series - Maximum 525 Ft<sup>3</sup>/Hour (14.87 M<sup>3</sup>) 4"-100mm

Cable Speed		Flow Rate			
Ft/Minute	Meter/Minute	Ft <sup>3</sup> /Hour	Lbs./Hour*	m <sup>3</sup> /Hour	Kg./Hour
40	12.19	150	6,000	4.25	2,722
60	18.29	225	9,000	6.37	4,082
80	24.38	300	12,000	8.50	5,442
100	30.48	375	15,000	10.62	6,803
120	36.57	450	18,000	12.74	8,163
140	43	525	21,000	14.87	9,524

6000 Series - Maximum 1,240 Ft<sup>3</sup>/Hour (35.4 M<sup>3</sup>) 6"-150mm

Cable Speed		Flow Rate			
Ft/Minute	Meter/Minute	Ft <sup>3</sup> /Hour	Lbs./Hour*	m <sup>3</sup> /Hour	Kg./Hour
40	12	350	14,120	10	6,400
50	15	440	17,650	12	8,010
60	18	530	21,180	15	9,610
70	21	620	24,710	17	11,210
80	24	710	28,240	20	12,810
90	27	790	31,770	22	14,410
100	30	880	35,300	25	16,010
110	34	970	38,830	27	17,600
120	37	1,060	42,360	30	19,210
130	40	1,150	45,890	32	20,820
140	43	1,240	49,420	35	22,420

8000 Series - Maximum 2,000 Ft<sup>3</sup>/Hour (56.6 M<sup>3</sup>) 8"-203.2mm

Cable Speed		Flow Rate			
Ft/Minute	Meter/Minute	Ft <sup>3</sup> /Hour	Lbs./Hour*	m <sup>3</sup> /Hour	Kg./Hour
10	3	143	5,720	4	2,594
20	6	286	11,440	8	5,189
30	9	429	17,160	12	7,783
40	12	571	22,840	16	10,360
50	15	714	28,560	20	12,954
60	18	857	34,280	24	15,549
70	21	1,000	40,000	28	18,143
80	24	1,143	45,720	32	20,738
90	27	1,286	51,440	36	23,332
100	30	1,429	57,160	40	25,927
110	22	1,571	62,840	45	28,503
120	36	1,714	68,560	48	31,098
130	39	1,857	74,280	51	33,692
140	43	2,000	80,000	54	36,287

\*yellow indicates recommended flow rate

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**Q** *How fast can conveyor run?*

**A** **2000 series (50mm)** - 100 feet per minute/30 meters/minute  
**4000 series (100 mm)** -140 feet per minute/43 meters/minute  
**6000 series (150mm)** -140 feet per minute/43 meters/minute  
**8000 series (200mm)** -140 feet per minute/43 meters/minute

**Q** *Is the 6" (150 mm) the largest system you make?*

**A** No, as of 2020 Cablevey Conveyors released the 8" (200mm) conveyor to the market. It can convey 2000 ft3 (54 m3)/ hour- 80,000 lbs (36,287 kgs)/ hour.

**Q** *How long does a system take to dry?*

**A** Often a conveyor will dry in approximately 30 minutes. Actual time depends on conveyor configuration and conditions.

**Q** *How far can you convey?*

**A** Estimated Distances Dependent on Product (40lb/ft3) (641kg/m3)

<b>75CFH/2.12CMH</b>	<b>2" (50mm)</b>	<b>2" (50mm)</b>
H	min	min
V	25'/8m	80'/24m
H	275' /84m	min
<b>240CFH/6.79CMH</b>	<b>4" (100mm) mini</b>	<b>4" (100mm) mini</b>
H	min	min
V	25'/8m	50'/15m
H	150'/46m	min
<b>525CFH/14.87CMH</b>	<b>4" (100mm)</b>	<b>4" (100mm)</b>
H	min	min
V	25'/8m	60'/18m
H	170'/52m	min
<b>1240CFH/35.11CMH</b>	<b>6" (150mm)</b>	<b>6" (150mm)</b>
H	min	min
V	25'/8m	45'/14m
H	120'/37m	min



**Q** *What types of cable does Cablevey offer?*

**A** Cablevey offers coated and uncoated cable in both ¼" and 5/16". It is recommended to use coated cable for ease of cleaning and less carry over.

**Q** *What types of discs does Cablevey offer?*

**A** Cablevey offers 1-piece and 2-piece discs in UHMW and Nylon. Nylon is recommended for abrasive materials and high temperatures.

- 2-piece discs only come in UHMW
- 1-piece, coated is standard

**Q** *How energy efficient is the system?*

**A** It is much more efficient than many competing technologies. For example, for the same application one competitor would use a 12 horsepower motor while Cablevey would use a 5 horsepower motor operating at 50% less load.

**Q** *How long does cable typically last?*

**A** There are several variables involved when calculating how long cable typically lasts. Layout, product, product weight, maintenance regime, system size, all have to be considered when determining how long cable will last. Once these variables have been determined, a drawing is produced and a cable drag calculator is used to estimate how long cable will last. Predictive maintenance and a regular maintenance regime are essential in the optimization of cable productivity.

**Q** *How long does the coating last?*

**A** The coating on Cablevey's coated cable assembly was designed with sanitation in mind. When to change the cable will be dependent on the customers needed level of sanitation. For higher levels they might want to change it out when the first cracks begin to appear.

**Q** *What kind of products do you move?*

**A** Cablevey has moved over 900 different products. Our most successfully moved products include:

- **Unseasoned/Uncoated Nuts**
  - Almonds
  - Peanuts
  - Walnuts
  - Pecans
  - Pistachios
  - Cashews
  - Sunflower
- **Coffee**
  - Roasted Whole Bean
  - Ground
- **Dry Pet Food**
  - Post Dryer/Cooler
  - Post Coater/Cooler
- **Shelled Corn**
- **Uncoated Cereal/Crackers**
- **Dry Beans**
- **Dry Grains**
  - Barley
  - Wheat
  - Rye
- **Snack Mixes**