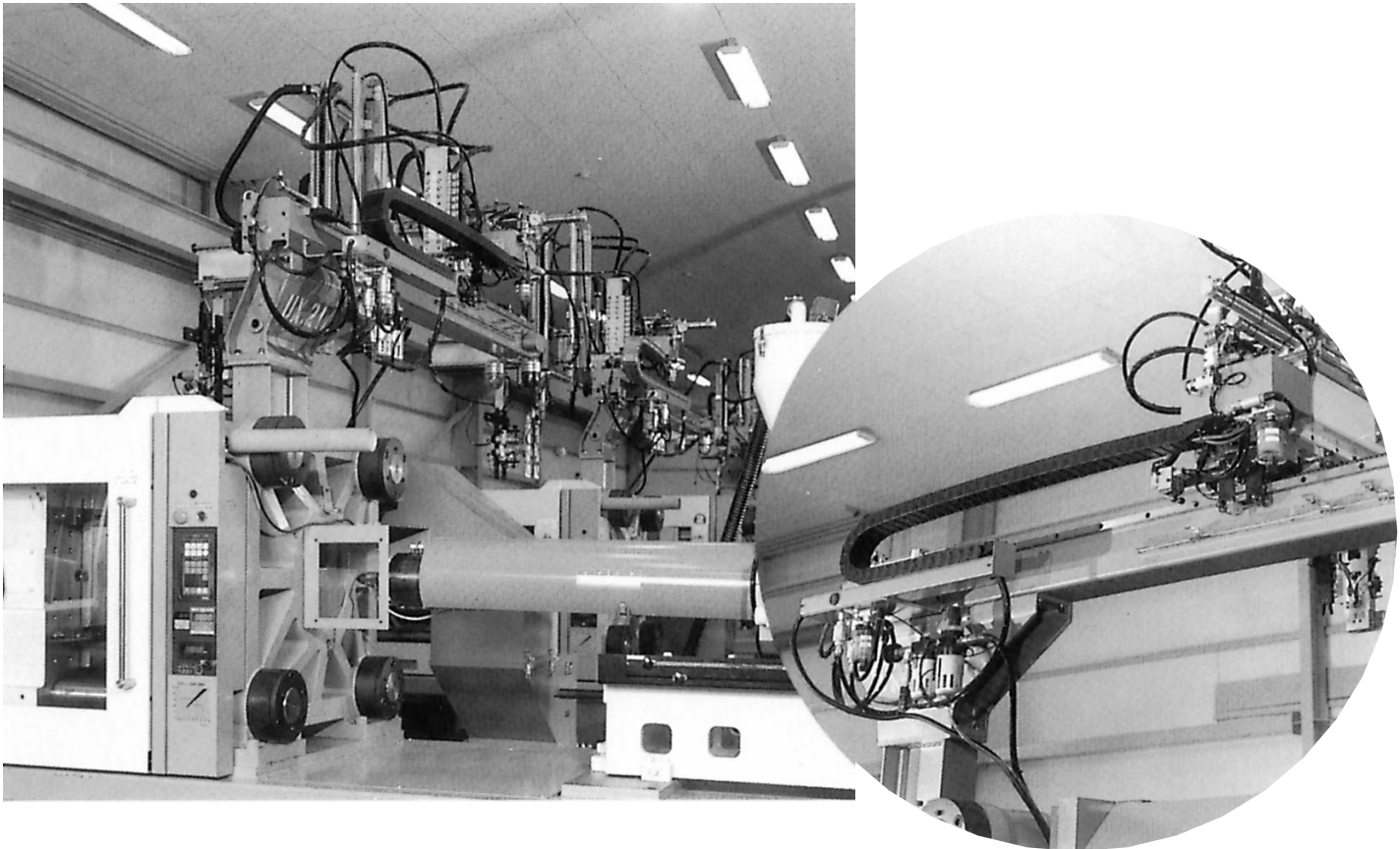
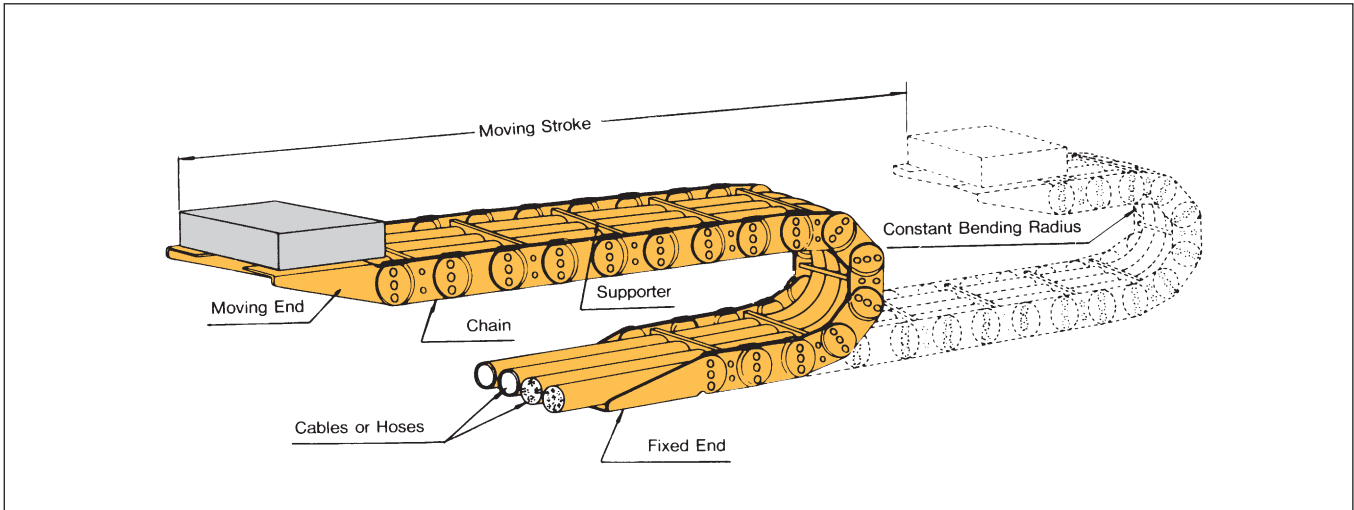


Cableveyor

U.S. Tsubaki Cableveyor provides protection for power supply cables and hoses supporting them for smoother, controlled movement on machines of all types. Cableveyor is used in a wide variety of applications, including industrial robots, tooling machines and machines for food, woodworking, steel and electronic industries. Safe, reliable and durable, Cableveyor enables cables or hoses to be bent without breakage, ripping, twisting, or accidental power stoppage.

B - CONVEYOR CHAINS





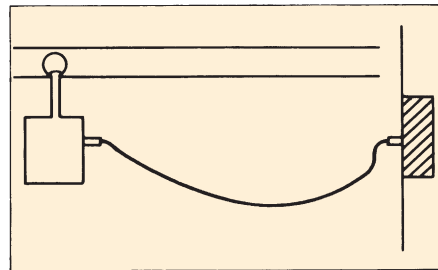
A superior support installation for cables and hoses:

U.S. Tsubaki Cableveyor is superior when compared with other systems such as the curtain, winder or wiredrum. Unlike conventional systems, the smooth running Cableveyor allows for greater efficiency and increases the working life of cables and hoses.

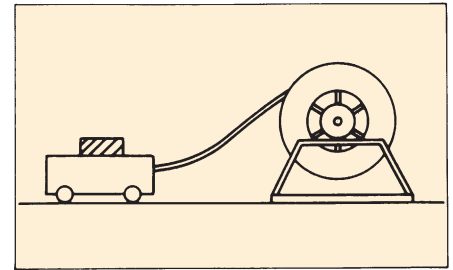
Why U.S. Tsubaki Cableveyor outperforms conventional types:

- No damage will occur to the cables or hoses.
- Cables and hoses move in a circular motion and are protected by a supporter.
- The hoses and cables move smoothly in a circular motion. As a result, frequent movement will have no effect on oil pressure, nor will there be any breaks in the electrical current.
- Our Cableveyor conserves space and has the ability to simultaneously manage the supply of electric power, oil pressure and air, for example.

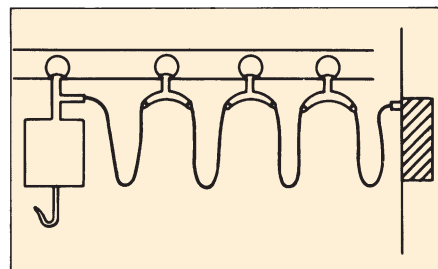
Conventional Cable Retrieval Systems



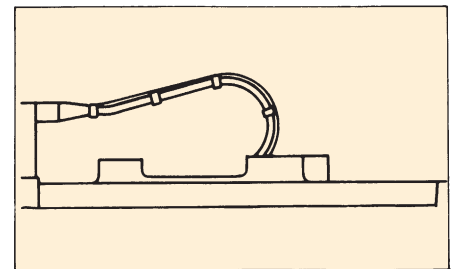
Unsupported Style



Roll-in Style



Curtain Style



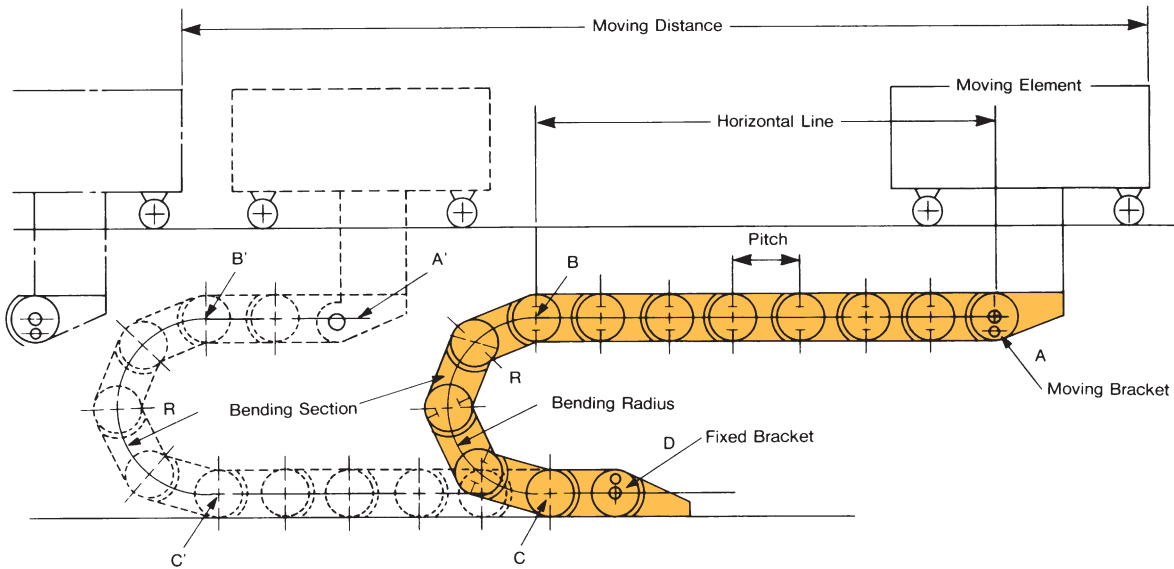
Winder Style

Driving Mechanism

Cableveyor is installed as shown in the picture below. Within the moving distance, it is able to move freely. The element to be moved is attached to one end of the Cableveyor (A) and the other end to where the cables or hoses are inserted (D).

A horizontal axis is always maintained between (A) and (B). The bending radius of the Cableveyor remains constant even when in motion. The diagram below shows this as the Cableveyor moves from A to A' while bending evenly (R).

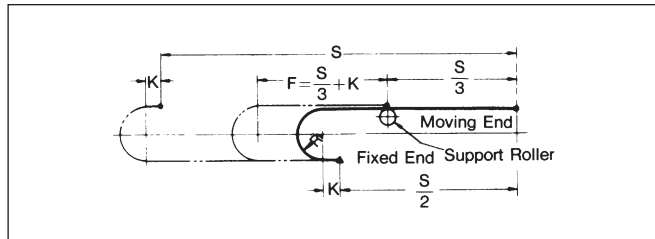
A constant bending radius with straight, horizontal movement provides efficiency and smooth operation.



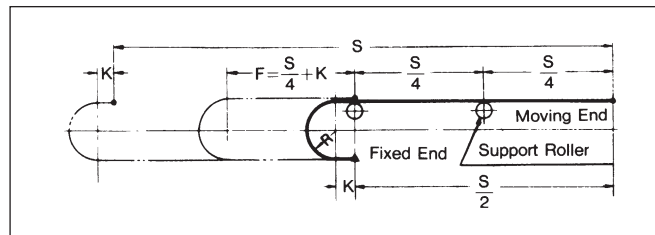
MOVING DISTANCE AND THE SUPPORT ROLLER

The straight distance normally traveled by the Cableveyor is referred to as the "freespan". The length of the freespan is determined by the weight of the cables or hoses. If half the distance the machine needs to move is over the freespan capacity, supporting equipment such as a support roller may be used to increase the length of travel. The support roller enables the freespan distance to be extended beyond the original distance.

With one support roller, the allowable freespan can be increased up to three times the moving distance.



With two support rollers, the allowable freespan can be increased up to four times the moving distance.

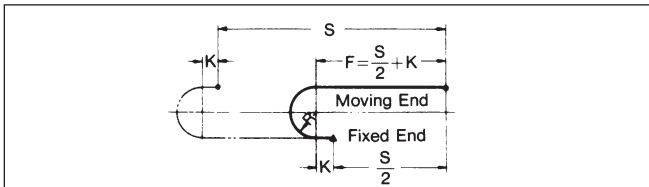


Note: Use of three support rollers or more is not economical. For support roller dimensions please see pages B-98 and B-99.

INSTALLATION

- S: Moving stroke
- K: Margin length
- F: Freespan

Without support roller



		TK TYPE				H TYPE
Chain No.	Size	TK070	TK095	TK130	TK180	H250
	Bending Radius (R)	2.95	4.92	7.87	9.84	13.78
		3.54	5.71	9.84	11.81	17.72
		4.92	7.87	11.81	15.75	23.62
		5.71	9.84	15.75	19.69	29.53
		11.81		23.62	27.56	
Chain Pitch	(inch)	2.76	3.74	5.12	7.09	9.84
Maximum Distance of The Freespan	(ft.)	11.48	14.76	19.68	26.25	37.73
Maximum Moving Stroke (ft.)	No Support Rollers	21.98	28.54	38.06	51.51	72.18
	Support Roller in One Position	33.14	42.65	57.09	77.10	108.27
	Support Roller in Two Positions	43.96	57.09	76.11	103.02	144.36
Maximum Cable/Hose (Diameter)	(inch)	1.06	1.81	2.36	3.15	4.33
Maximum Cable/Hose Weight	(lbs./ft.)	33.60	40.32	47.04	53.76	67.20
Maximum Chain Speed	(ft./min.)	196.85				
Chain Weight	(lbs./ft.)	4.03	5.38	11.42	14.11	26.88
Operating Temperature	(°F)	-12° ~ 302°				
Operating Conditions	Indoor					
Material	Chain	Steel (with Zinc)				
	Supporter	Aluminum				
	Brackets	Steel (with Zinc)				