REFERENCE GUIDE

PowerTrak® Cable & Hose Carriers

Standard Duty, Heavy Duty and Mill Duty Steel Link Drag Chains

Table of Contents

General Information

Technical Data Dimensional Data by Size

Ordering

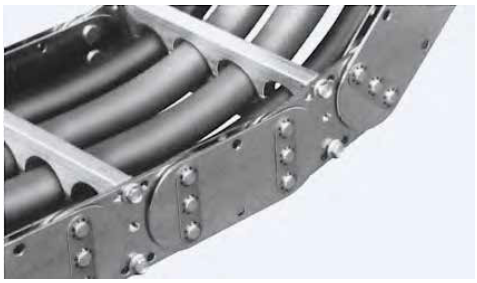
For Further Assistance, your local representative has a computerized PowerTrak Application program that will calculate the most logical model for your application based on data you provide.

To Help You incorporate PowerTrak into your design, DXF and DWG files are available online. They are designed to eliminate the task of detailing PowerTrak on your drawings. In addition, the Gleason engineering staff is available to assist you with application or to generate custom CAD drawings to your specifications. Please contact Gleason for more information.

STANDARD DUTY E–TYPE MODELS PT25E - PT48E

Standard Duty PowerTrak (E–Type) offers outstanding value and high performance for industrial cable/hose protection on machinery in motion.

Features include high strength, low alloy flat link design, PowerTrak's unique anti–friction disc system for smooth operation and rugged, low-maintenance one-piece push-on fasteners.



HEAVY DUTY E–TYPE MODELS PT55E - PT100E

Heavy Duty PowerTrak (E–Type) has a full range of sizes for Large cables and hoses.

A heavy gauge flat link is standard together with PowerTrak's unique anti-friction disc system and retaining ring fasteners. Heavy Duty PowerTrak may be used with roller supports for heavy loads and extended travel lengths.

MILL DUTY EF–TYPE MODELS PT55EF - PT100EF

Mill Duty PowerTrak (EF–Type) is designed with the most demanding industrial applications and harsh environments in mind.

Standard features include high strength, low alloy, heavy gauge steel links with reinforcing flanges, PowerTrak's self-lubricating system and bolted construction for maximum strength and serviceability.

SUPER DUTY EF–TYPE MODELS PT120EF - PT240EF

Super Duty PowerTrak (EF–Type) is available for Off-Shore Rigs and other applications where "oversized" cables and hoses are used.

Standard features include high strength, low alloy, heavy gauge steel links with reinforcing flanges, PowerTrak's selflubricating system and bolted construction for maximum strength and serviceability.

NOTE: Super Duty PowerTrak sizes are not detailed in this catalog. Please contact the factory for complete application information and product specifications.

Standard Duty

FOR RUGGED SERVICE
MODELS PT25E - PT48E

High Strength Steel Links

Manufactured from high-strength, low-alloy steel, the highest material standard in the industry. Stainless steel links available for special needs.

Anti–friction Discs

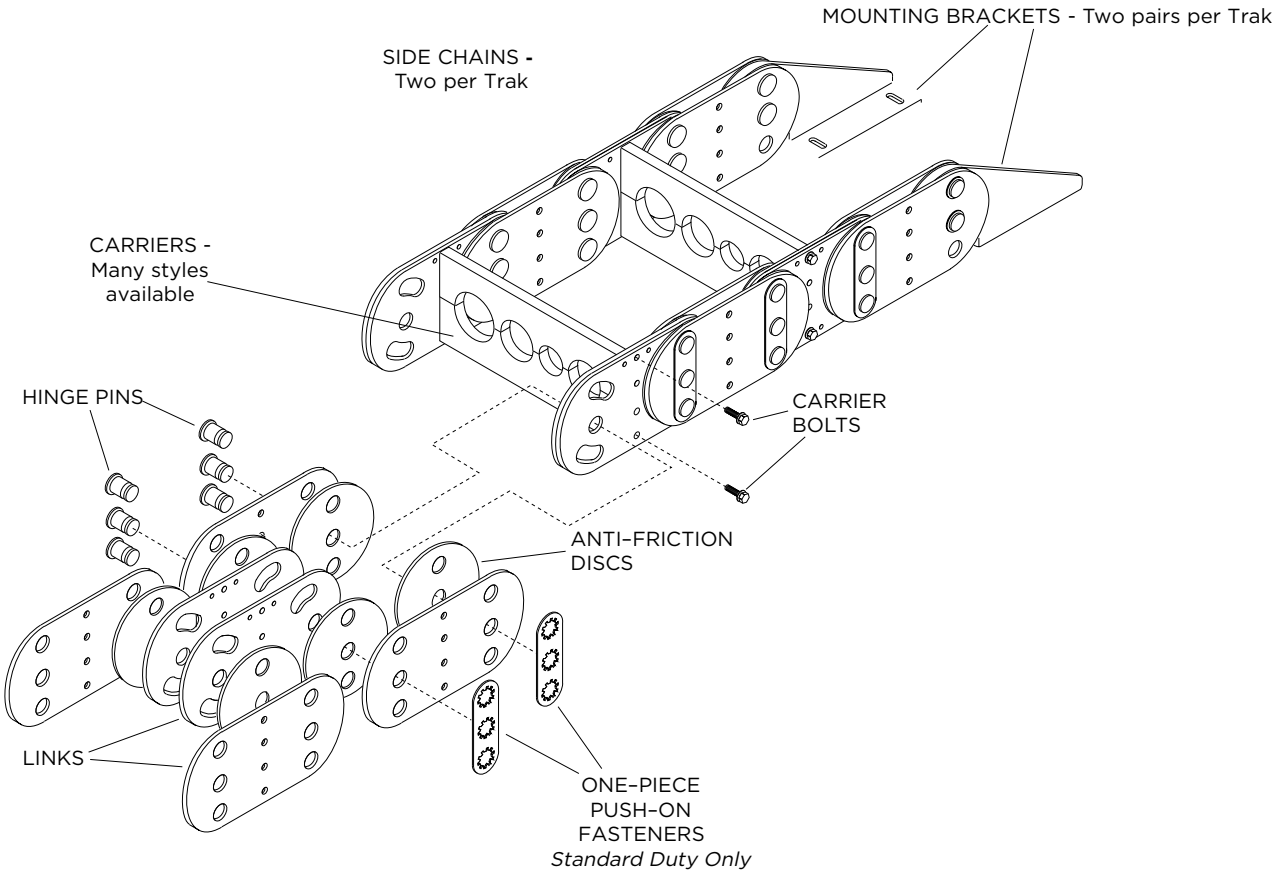
Unique discs placed between the links to reduce friction while at the same time permitting tighter tolerances. PowerTrak runs quietly and efficiently because the nylon used to make the discs is a natural bearing material. Extreme temperature discs are available for special requirements.

Fasteners

Rugged hinge pins secured by one piece, push on fasteners. These unique fasteners cannot be over tightened.

Flat Link Design

PowerTrak PT25E-48E employs a 2:2 flat link design for maximum strength and durability. Two inner links are “sandwiched” between two outer links with anti-friction discs as bearing material.



E-TYPE FOR HEAVIER LOADS AND LARGER CABLES/HOSES MODELS PT55E - PT100E

TYPICAL APPLICATIONS

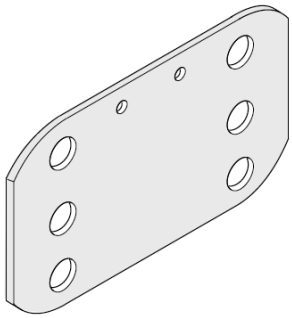
- Machine Tools
- Robotics
- Automated Stackers
- Rail Mounted Equipment
- Gas Cutting Torches
- Extending Arms
- Gantry Cranes
- Loaders
- Crane Servic

STANDARD FEATURES

- 2:2 FLAT Link Design
- Retaining Ring Fasteners
- High Strength, Low Alloy
- Steel Construction
- Anti Friction Discs
- Multiple Carrier Types
- Full Range of Sizes
- Multiple Radii
- Variable Widths

OPTIONAL FEATURES

- Bolted Construction (EB-Type)
- Available for Extended Travel
- Available for High Speeds
- Roller Supports for Extended Travel Lengths
- Sliding Mounting Brackets



Mill Duty

E-TYPE FOR HEAVIER LOADS AND LARGER CABLES/HOSES MODELS PT55EF - PT100EF

TYPICAL APPLICATIONS

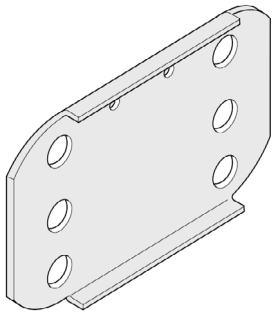
- Heavy Machines
- Automated Stackers
- Equipment Moving on Rails
- Gas Cutting Torches
- Extending Arms
- Gantry Cranes
- Harsh Environments
- Off-Shore Rigs

STANDARD FEATURES

- 2:2 FLANGED Link Design
- Bolted Construction
- High Strength, Low Alloy Steel Construction
- Anti Friction Discs
- Multiple Carrier Types
- Full Range of Sizes
- Multiple Radii
- Variable Widths

OPTIONAL FEATURES

- Retaining Ring Fasteners (EFP-Type)
- High-Temp Anti-Friction Discs
- Sliding Mounting Brackets (for high pressure hoses, etc.)
- Roller Supports for Extended Travel Lengths



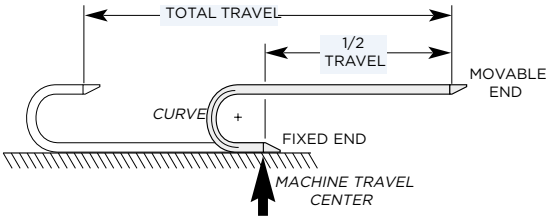
Applying TYPE “E” PowerTrak®

PowerTrak is most often used in the horizontal Standard Travel configurations, described on this page. Two-Way Payout is normally used with Standard Travel.

Two-way payout means locating the cable/hose source at the CENTER of machine travel so that cables/hoses are used in TWO directions. Thus, using two–way payout, the PowerTrak you order will be just one-half of the Total Travel distance that you require, plus a little more to form the curve, as illustrated below

- Two-way payout (center-fed)
- Upper section is self-supported, roller supported or, for extended travel, may ride on itself or on a carriage
- Lower section is supported by a surface

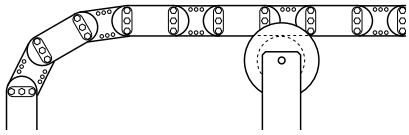
STANDARD TRAVEL



Adding Roller Supports

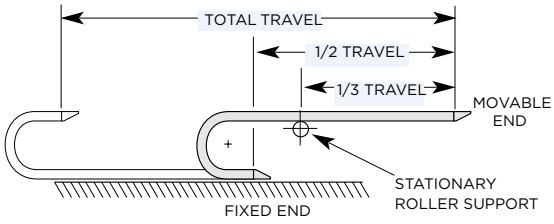
Roller supports present a useful option when applying PowerTrak. While larger sizes of PowerTrak have greater Total Travel capabilities, smaller sizes can have their capabilities increased by adding roller supports.

Stationary roller supports increase the travel or weight capacity capabilities of PowerTrak by supporting the upper, or “free hanging” section.



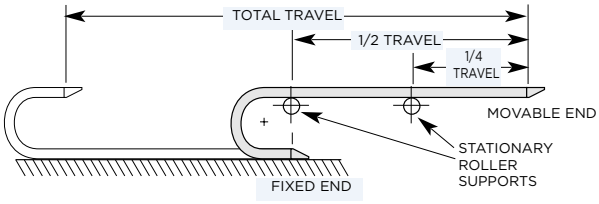
Plus One Roller

- Two-way payout (center-fed)
- Upper section is supported by ONE roller support
- Lower section is supported by a surface
  - » **Total Travel capability increases by 50%**



Plus Two Rollers

- Two-way payout (center-fed)
- Upper section is supported by TWO roller supports
- Lower section is supported by a surface
  - » **Total Travel capability increases by 100% (doubles)**



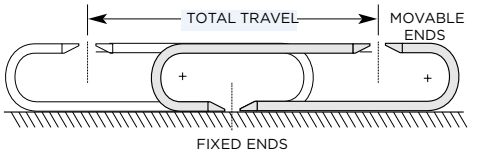
Variations

Opposed Travel is the most common variation to Standard Travel. Two smaller PowerTraks in the OPPOSED TRAVEL Opposed configuration can do the same work as a larger size using Standard Travel. Opposed Travel is a valid option when there are width restrictions or when cables and hoses must be separated.

Opposed Travel involves TWO PowerTraks opposed to one another, each operating in the Standard Travel configuration. Cables/hoses are distributed between the two PowerTraks increasing operating life. Length of each trak is same as one standard travel trak in given application, but type and width of trak may be smaller.

- Two PowerTraks, two-way payout on each
- Upper sections self-supported or may ride on lower section or carriage Lower sections are supported by a surface
- Roller supports are not available
- Overall width may be reduced
- Cables and hoses may be separated

OPPOSED TRAVEL

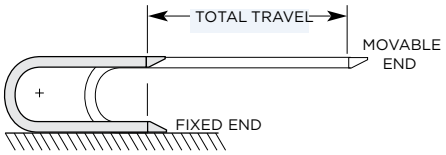


Other Variations

One Way Travel

Applied where situation prohibits center-feeding of cables/ hoses. Roller supports may be added to increase total travel capabilities.

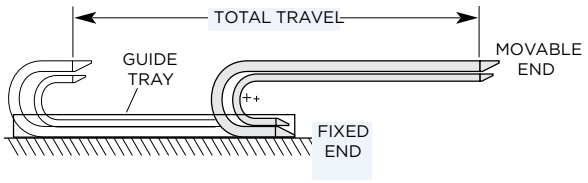
- One way payout (end-fed in relation to machine travel)
- Upper section is self supporting
- Lower section is supported by a surface
- Roller supports may be added — consult factory



Nested Travel

Two PowerTraks having different bend radii allowing one to nest within the other. Cables/hoses are distributed between the two PowerTraks increasing operating life.

- Two PowerTraks, two-way payout on each
- Upper sections must be self supporting
- Lower sections are supported by a guide tray
- Both PowerTraks must be same width
  - » **Overall width may be reduced**
  - » **Cables and hoses may be separated**

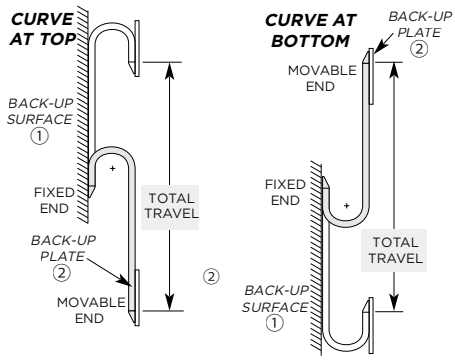


Vertical Travel

Vertical Travel in the curve at top or curve at bottom configuration is possible when PowerTrak is properly supported:

A back-up surface ① is preferred for one side of the PowerTrak. A back-up plate ② must extend a minimum of four (4) links.

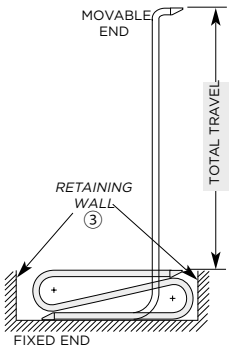
- Typically two-way payout (center-fed)
- Back-up surface ① and back-up plate ② used to support PowerTrak
  - » Curve at Bottom provides greater total travel capabilities than curve at top.



Lift

Lifting is possible when PowerTrak is properly supported: Vertical retaining walls - extending the full height of PowerTrak in the stored position are required.

- One way payout
- End-Fed ("Bottom Fed") in relation to machine travel
- Upper section is self supporting
- Lower section is fully supported
- Vertical retaining walls ③ required
- Special reverse bend links are required



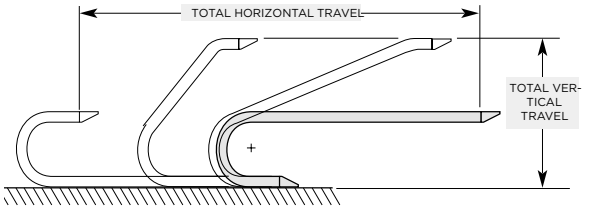
Applying type “E” PowerTrak ®

Other Variations

Combination Travel

PowerTrak can travel the full vertical and hori-zontal range of motion illustrated.

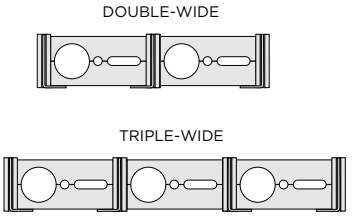
- TWO or THREE PowerTraks, two-way payout on each
- Upper sections are self-supporting
- Lower sections are supported by a surface
- Not for use with all carriers. Consult factory.



Linked Side-by side Travel

PowerTrak side chains may be modified to allow for Double-Wide or Triple-Wide configurations. Contiguous Travel is a useful option when PowerTrak exceeds its total travel capabilities in the Standard Travel configuration.

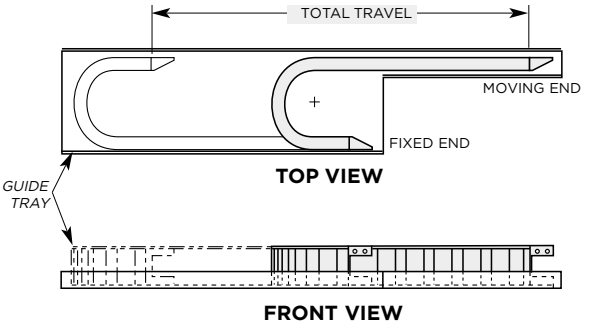
- TWO or THREE PowerTraks, two-way payout on each
- Upper sections are self-supporting
- Lower sections are supported by a surface
- Not for use with all carriers. Consult factory.
  - » Overall height may be reduced
  - » Cables and hoses may be separated



Traveling on Edge

PowerTrak will travel on its edge with the addition of a guide tray. Edge-travel distributes cable/hose weight over a greater support area for improved life expectancy and is typically chosen when height restrictions apply.

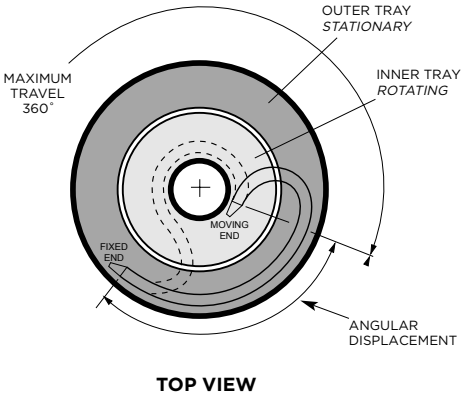
- Two-way payout (center-fed)
- PowerTrak is fully supported by guide tray
  - » Overall height may be reduced
  - » Improved life expectancy for PowerTrak



Circular Travel

Circular Travel is possible when PowerTrak is modified to bend in two directions. PowerTrak travels on its edge on a two-piece, circular guide tray. The inner tray (light shading) rotates while the outer tray (dark shading) remains fixed. Typical applications include stacker cranes and stacker-reclaimer machines.

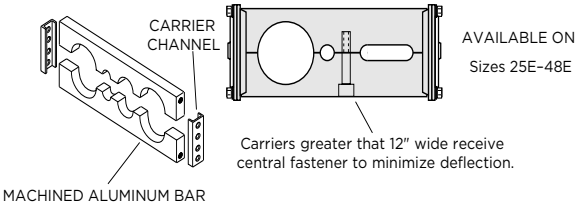
- Typically two-way payout (center-fed)
- PowerTrak is fully supported by guide tray
- Two-piece Guide Tray for free rotation
- PowerTrak is modified to bend in two directions



Standard Duty – Sizes 25E - 48E

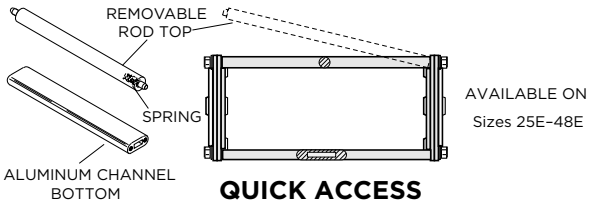
Type BC - Machined Bar Carrier

Most efficient carrier design available. Machined aluminum bar provides maximum protection for cables and hoses in PowerTrak® by placing each, regardless of size, on a common centerline. Removable two-piece bar allows easy access.



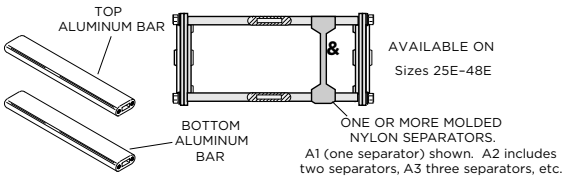
TYPE RR - Removable Rod Carrier

Sold as a set, the removable rod, or "quick access" carrier, features a remov-able ROLLING rod on top and an aluminum channel on the the bottom. The rod is spring–loaded for quick removal using a standard screwdriver and is securely fixed when in use. **The rolling rod reduces wear on cables/hoses**. Type RR carriers are limited to a width of 10".



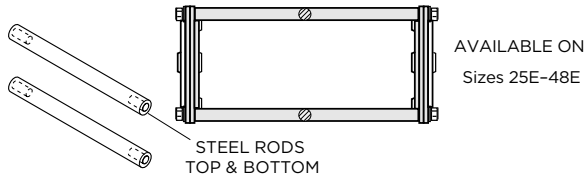
TYPES AC & A1* (A2*, A3*, etc.) - Aluminum Channel Carrier

Aluminum channel carrier features a **wide support area and light weight**. Four–point fastening on both channels creates an **extremely rigid and stable** PowerTrak®, rivaling welded carriers. Type A1 (A2, A3, etc.) includes mold-ed nylon separator(s) which may be positioned to prevent cable/hose entangle-ment and allow grouping of various types of conductors.



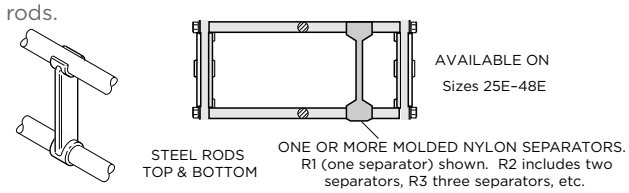
TYPE SR - Teel Rod Carrier

Provides basic support for cables and hoses. Steel rods are **economical, light weight and are easily removed** for cable/hose access.



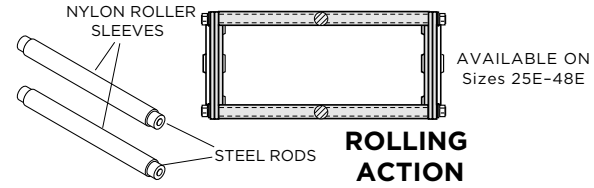
TYPE R1* (R2*, R3*, etc.) - Steel Rod Carrier With Nylon Separators

Tough molded nylon separators provide partitions to prevent cable/hose entanglement and allow conductor grouping. One or more separators may be used as needed. Spacing of separators adjustable along complete length of rods.



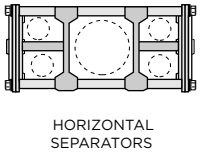
TYPE RN - Steel Rod Carrier With Nylon Sleeves

Nylon sleeves roll when in contact with jacketed cable and hoses, increas-ing useful carrier life and decreasing wear to cables and hoses.



Custom Designed Carriers With Horizontal Separators

Horizontally divided carriers are desirable when very large and very small cables are mixed within the carrier or when there are numerous small cables/hoses. Consult factory for more information.

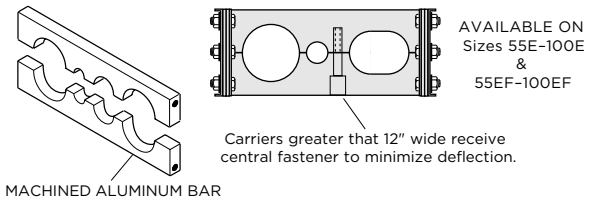


Carrier Options

Heavy Duty–Sizes 55E - 100E Mill Duty–Sizes 55EF - 100EF

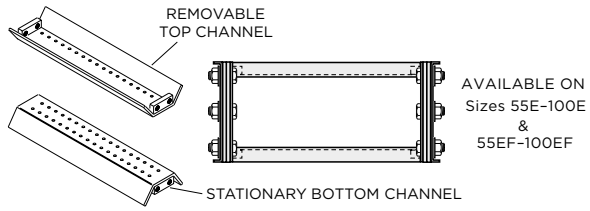
TYPE BC - Machined Bar Carrier

Most efficient carrier design available. Machined aluminum bar provides maximum protection for cables and hoses in PowerTrak® by placing each, regardless of size, on a common centerline. Removable two-piece bar allows easy access.



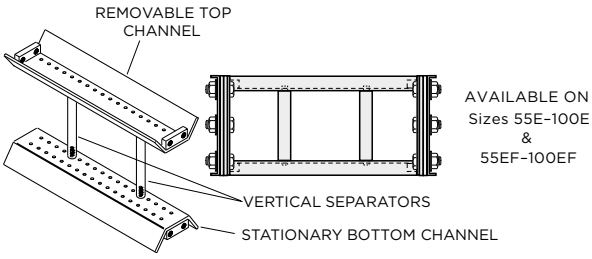
TYPE WC - Welded Channel Carrier

Welded channels combine "brute strength" and a large surface area for cable/hose contact. The top channel is easily removed for immediate access to cables/hoses. The bottom channel is fixed.



TYPES WV1* (WV2*, WV3*, etc.) - Welded Channel Carrier With Multiple Vertical Separators

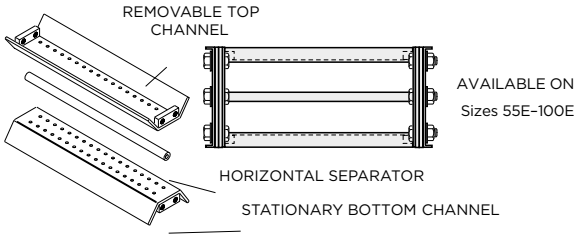
Multiple vertical separators may be added to the welded channel carriers. They are adjustable in one inch increments allowing precise grouping of cables and hoses. Vertical separators have a rolling action which prolongs cable/hose life.



** Numeral denotes number of vertical separators.*

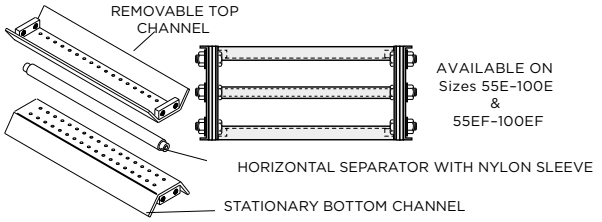
TYPE WH - Welded Channel Carrier With One Horizontal Separator

A single centrally located horizontal separator allows cable/hose grouping into two "compartments". Horizontal separators are fixed and only one may be used per welded channel carrier.



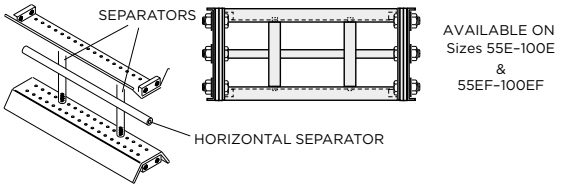
TYPE HN - One Horizontal Separator With Nylon Sleeve

A single centrally located horizontal separator allows cable/hose grouping into two "compartments". Horizontal separators are fixed and only one may be used per welded channel carrier.



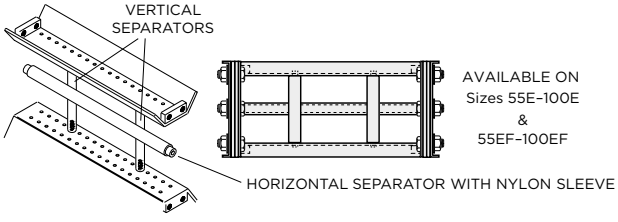
TYPES HV1* (HV2*, HV3*, etc.) - One Horizontal Separator And Multiple Vertical Separators

Combines vertical and horizontal separators for complex grouping of cables and hoses. The horizontal separator is fixed (one only) while multiple vertical separators have a rolling action.



TYPES NV1* (NV2*, NV3*, etc.) - One Horizontal Separator With Nylon Sleeve And Multiple Vertical Separators

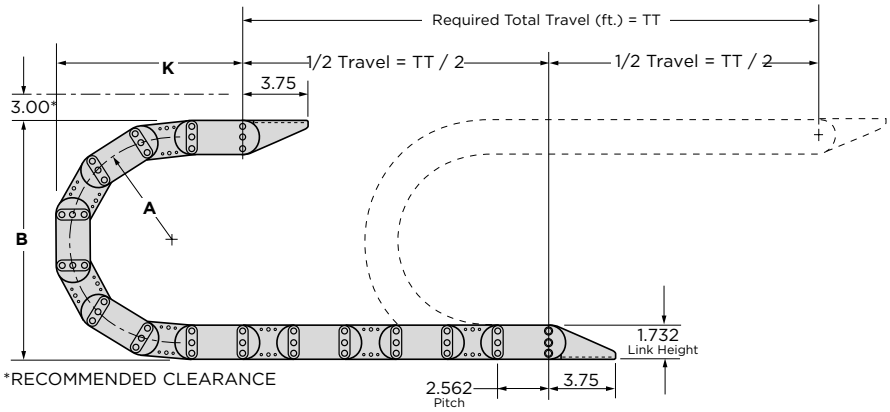
Nylon sleeve can be added to the horizontal separator giving it a rolling action which prolongs cable/hose life.



Gleason PowerTrak PT25E

- Standard Duty
- High Strength, Low Alloy Steel
- E-type Standard Duty Links
- Rugged One-piece Push-on Fasteners
- Standard or Custom Radii
- Total Travel w/o Supports = 20.0 ft. ①
- Maximum Speed = 300 fpm
- Maximum Acceleration = 5.0 ft/sec²
- Maximum Cable/Hose O.D. = 1.00”
- PowerTrak Weight Unloaded=3.04lbs/ft. ②

General Layout



Required Length (ft.)③ = T2/T + L

① *Based on standard travel with cable/hose package weight of 2.00 lbs/ft.*

② *Based on average carrier weight @ 8.00” width. For detailed information, please see “Weight Calculations”.*

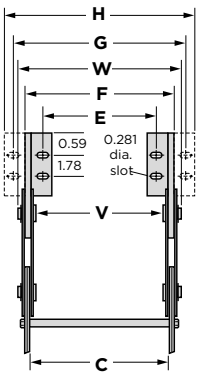
③ *Based on standard travel, i.e. two-way payout as pictured above.*

④ *L = minimum length in FEET required to form PowerTrak curve.*

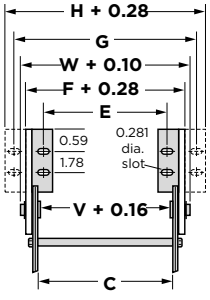
Radius A	Height B	Minimum K	Curve L④
2.95	7.63	8.19	1.5 ft.
5.16	12.06	9.94	2.0 ft.
8.00	17.75	14.30	3.0 ft.
11.72	25.17	15.18	3.5 ft.

Mounting Brackets

ARRANGEMENT 1



ARRANGEMENT 2



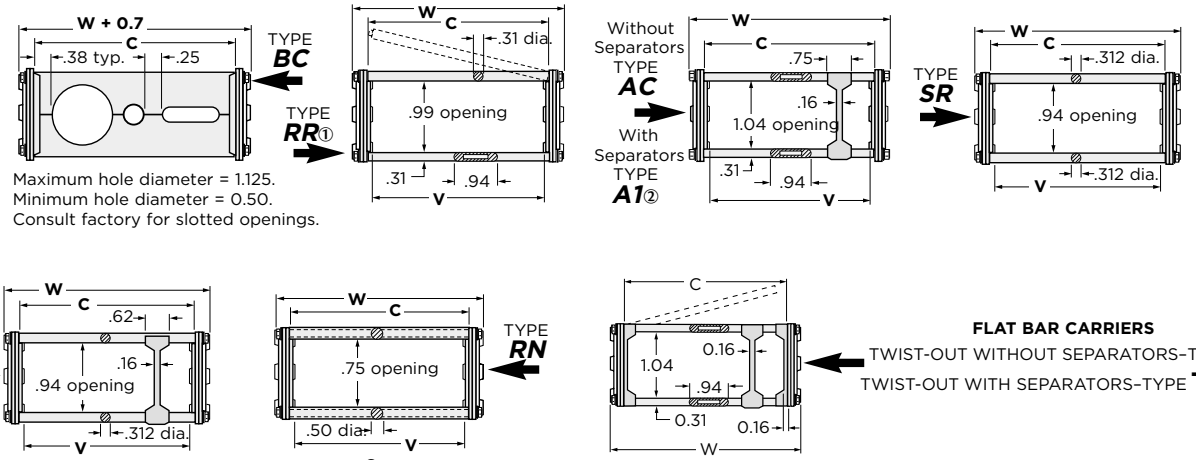
Please refer to **Mounting Bracket Arrangements** on page 30.

	Feet Turned IN		Feet Turned OUT	
Carrier Width C	Mtg. Location E± 0.08	Brkt. O/A F	Mtg. Location G± 0.08	Brkt. O/A H
4.00	3.12	4.24	5.40	6.38
6.00	5.12	6.24	7.40	8.38
8.00	7.12	8.24	9.40	10.38
10.00	9.12	10.24	11.40	12.38
12.00	11.12	12.24	13.40	14.38
FORMULA	C - 0.88	C + 0.24	C + 1.40	C + 2.38

Dimensions in inches unless otherwise specified

Gleason PowerTrak PT25E

Cable/Hose Carrier Options



Carrier Width C	Usable Window Width V	Overall PowerTrak Width W
4.00	3.71	4.72
6.00	5.71	6.72
8.00	7.71	8.72
10.00	9.71	10.72
12.00	11.71	12.72
Formula	C - 0.29	C + 0.72

① *Carrier types RR and SS limited to "C" dimension no greater than 10.00".*

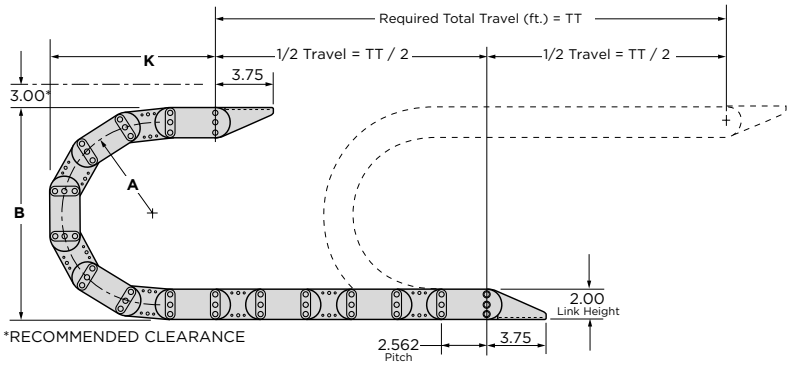
② *Numeral "1" refers to number of vertical separators desired (2 = two separators, 3 = three separators, etc.). Number must be included in the model number when ordering*

Dimensions in inches unless otherwise specified

Gleason PowerTrak PT28E

- Standard Duty
- High Strength, Low Alloy Steel
- E-type Standard Duty Links
- Rugged One-piece Push-on Fasteners
- Standard or Custom Radii
- Total Travel w/o Supports = 22.0 ft. ①
- Maximum Speed = 300 fpm
- Maximum Acceleration = 5.0 ft/sec²
- Maximum Cable/Hose O.D. = 1.36”
- PowerTrak Weight Unloaded = 3.64 lbs/ft. ②

General Layout



Required Length (ft.)③ = TT/2 + L

Notes Regarding TRAK

① Based on standard travel with cable/hose package weight of 2.00 lbs/ft.

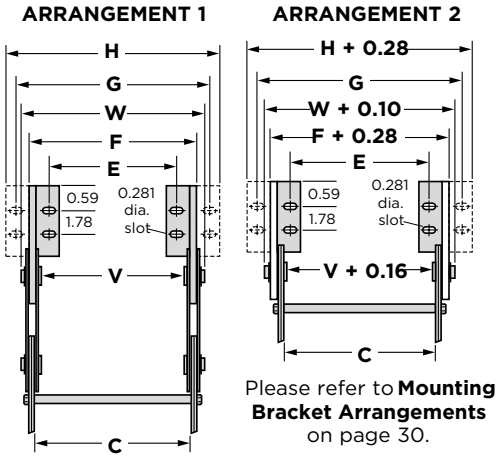
② Based on average carrier weight @ 8.00” width. For detailed information, please see “Weight Calculations”.

③ Based on standard travel, i.e. two-way payout as pictured above.

④ L = minimum length in FEET required to form PowerTrak curve.

Radius A	Height B	Minimum K	Curve L④
2.95	7.90	8.31	1.5 ft.
4.53	11.06	10.42	2.0 ft.
6.10	14.20	12.52	2.5 ft.

Mounting Brackets



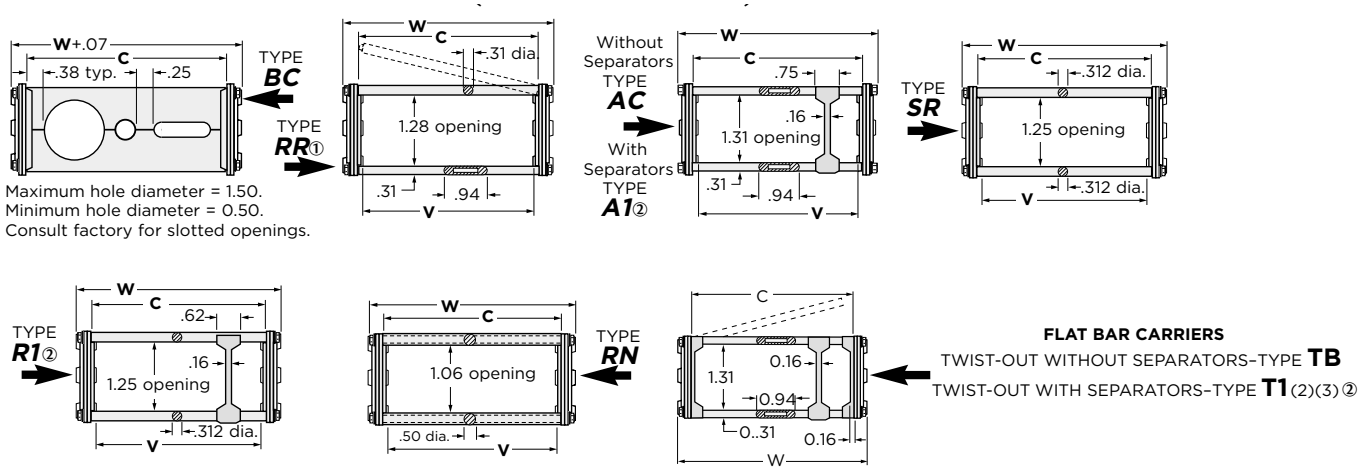
Please refer to **Mounting Bracket Arrangements** on page 30.

Carrier Width C	Feet Turned IN		Feet Turned OUT	
	Mtg. Location E± 0.20	Brkt. O/A F	Mtg. Location G± 0.20	Brkt. O/A H
4.00	3.12	4.24	5.40	6.38
6.00	5.12	6.24	7.40	8.38
8.00	7.12	8.24	9.40	10.38
10.00	9.12	10.24	11.40	12.38
12.00	11.12	12.24	13.40	14.38
FORMULA	C - 0.88	C + 0.24	C + 1.40	C + 2.38

Dimensions in inches unless otherwise specified

Gleason PowerTrak PT28E

Cable/Hose Carrier Options



Carrier Width C	Usable Window Width V	Overall PowerTrak Width W
4.00	3.71	4.72
6.00	5.71	6.72
8.00	7.71	8.72
10.00	9.71	10.72
12.00	11.71	12.72
Formula	C - 0.29	C + 0.72

Notes Regarding Carriers

① Carrier type RR limited to "C" dimension no greater than 10.00".

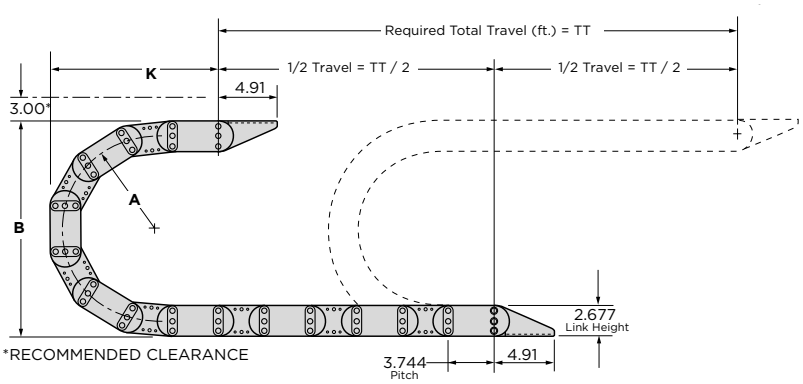
② Numeral "1" refers to number of vertical separators desired (2 = two separators, 3 = three separators, etc.). Number must be included in the model number when ordering.

Dimensions in inches unless otherwise specified

Gleason PowerTrak PT35E

- Standard Duty
- High Strength, Low Alloy Steel
- E-type Standard Duty Links
- Rugged One-piece Push-on Fasteners
- Standard or Custom Radii
- Total Travel w/o Supports = 28.0 ft. ①
- Maximum Speed = 400 fpm
- Maximum Acceleration = 5.0 ft/sec²
- Maximum Cable/Hose O.D. = 1.92"
- PowerTrak Weight Unloaded = 4.53 lbs/ft. ②

General Layout



Required Length (ft.)③ = TT/2 + L

Notes Regarding TRAK

① Based on standard travel with cable/hose package weight of 2.00 lbs/ft..

② Based on average carrier weight @ 8.00" width. For detailed information, please see "Weight Calculations".

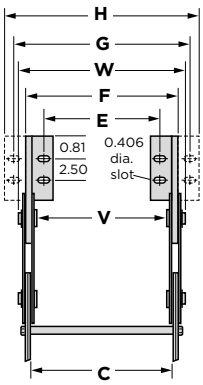
③ Based on standard travel, i.e. two-way payout as pictured above.

④ L = minimum length in FEET required to form PowerTrak curve.

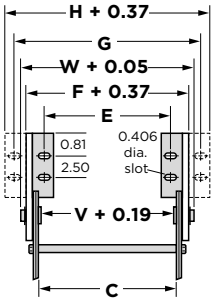
Radius A	Height B	Minimum K	Curve L④
5.22	13.12	10.36	2.0 ft.
7.50	51.31	15.06	5.0 ft.
11.12	32.68	19.00	4.0 ft.
15.00	24.93	22.78	3.0 ft.
24.31	17.68	29.47	7.0 ft.

Mounting Brackets

ARRANGEMENT 1



ARRANGEMENT 2



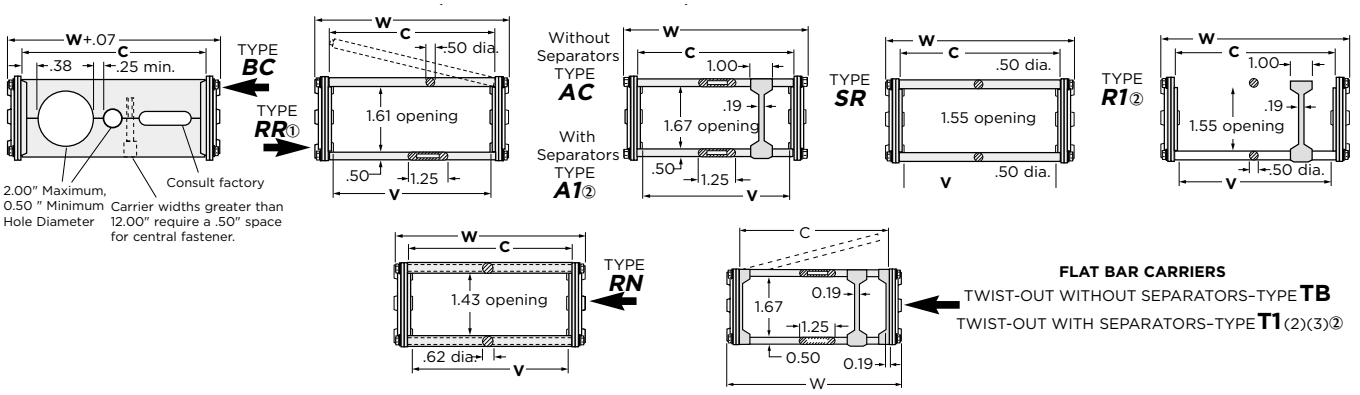
Please refer to **Mounting Bracket Arrangements** on page 30.

Carrier Width C	Feet Turned IN		Feet Turned OUT	
	Mtg. Location E± 0.19	Brkt. O/A F	Mtg. Location G ± 0.19	Brkt. O/A H
4.00	2.00	4.33	6.69	8.14
6.00	4.00	6.33	8.69	10.14
8.00	6.00	8.33	10.69	12.14
10.00	8.00	10.33	12.69	14.14
12.00	10.00	12.33	14.69	16.14
14.00	12.00	14.33	16.69	18.14
16.00	14.00	16.33	18.69	20.14
FORMULA	C - 2.00	C + 0.33	C + 2.69	C + 4.14

Dimensions in inches unless otherwise specified

Gleason PowerTrak PT35E

Cable/Hose Carrier Options



Carrier Width C	Usable Window Width V	Overall PowerTrak Width W
4.00	3.67	4.95
6.00	5.67	6.95
8.00	7.67	8.95
10.00	9.67	10.95
12.00	11.67	12.95
14.00	13.67	14.95
16.00	15.67	16.95
Formula	C - 0.33	C + 0.95

Notes Regarding Carriers

① Carrier type RR and limited to "C" dimension no greater than 10.00".

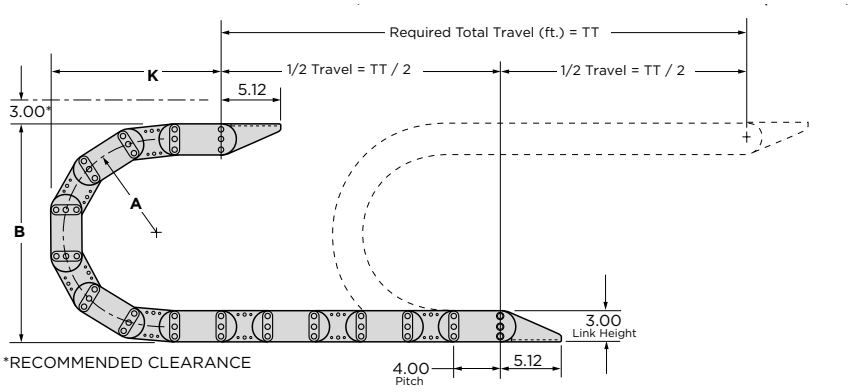
② Numeral "1" refers to number of vertical separators desired (2 = two separators, 3 = three separators, etc.). Number must be included in the model number when ordering.

Dimensions in inches unless otherwise specified

Gleason PowerTrak PT38E

- Standard Duty
- High Strength, Low Alloy Steel
- E-type Standard Duty Links
- Rugged One-piece Push-on Fasteners
- Standard or Custom Radii
- Total Travel w/o Supports = 37.0 ft. ①
- Maximum Speed = 400 fpm
- Maximum Acceleration = 5.0 ft/sec²
- Maximum Cable/Hose O.D. = 2.28”
- PowerTrak Weight Unloaded = 8.42 lbs/ft. ②

General Layout



Required Length (ft.)③ = TT/2 + L

Notes Regarding TRAK

① *Based on standard travel with cable/hose package weight of 2.00 lbs/ft..*

② *Based on average carrier weight @ 8.00” width. For detailed information, please see “W eight Calculations”.*

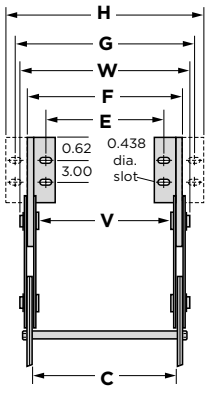
③ *Based on standard travel, i.e. two-way payout as pictured above.*

④ *L = minimum length in FEET required to form PowerTrak curve.*

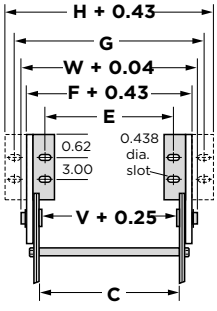
Radius A	Height B	Minimum K	Curve L④
3.50	10.00	11.50	2.0 ft.
5.00	13.00	22.72	2.0 ft.
6.00	15.00	19.00	2.5 ft
7.87	18.75	15.00	3.0 ft.
11.38	25.75	13.08	4.0 ft.
15.38	33.75	10.65	5.0 ft.

Mounting Brackets

ARRANGEMENT 1



ARRANGEMENT 2



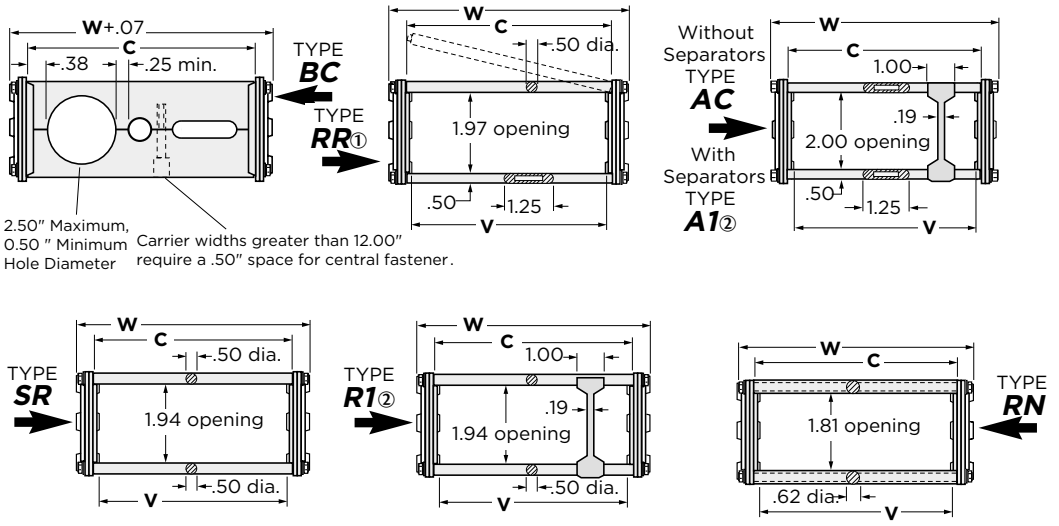
Please refer to **Mounting Bracket Arrangements** on page 30.

Carrier Width C	Feet Turned IN		Feet Turned OUT	
	Mtg. Location E± 0.53	Brkt. O/A F	Mtg. Location G ± 0.53	Brkt. O/A H
4.00	2.50	4.39	6.34	7.71
6.00	4.50	6.39	8.34	9.71
8.00	6.50	8.39	10.34	11.71
10.00	8.50	10.39	12.34	13.71
12.00	10.50	12.39	14.34	15.71
14.00	12.50	14.39	16.34	17.71
16.00	14.50	16.39	18.34	19.71
FORMULA	C - 1.50	C + 0.39	C + 2.34	C + 3.71

Dimensions in inches unless otherwise specified

Gleason PowerTrak PT38E

Cable/Hose Carrier Options



Carrier Width C	Usable Window Width V	Overall PowerTrak Width W
4.00	3.62	5.12
6.00	5.62	7.12
8.00	7.62	9.12
10.00	9.62	11.12
12.00	11.62	13.12
14.00	13.62	15.12
16.00	15.62	17.12
Formula	C - 0.38	C + 1.12

Notes Regarding Carriers

① Carrier type RR limited to "C" dimension no greater than 10.00".

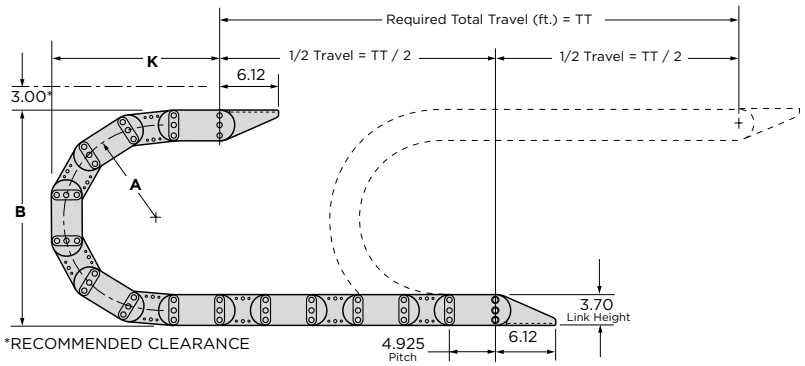
② Numeral "1" refers to number of vertical separators desired (2 = two separators, 3 = three separators, etc.). Number must be in cluded in the model number when ordering.

Dimensions in inches unless otherwise specified

Gleason PowerTrak PT45E

- Standard Duty
- High Strength, Low Alloy Steel
- E-type Standard Duty Links
- Rugged One-piece Push-on Fasteners
- Standard or Custom Radii
- Total Travel w/o Supports = 43.0 ft. ①
- Maximum Speed = 500 fpm
- Maximum Acceleration = 5.0 ft/sec²
- Maximum Cable/Hose O.D. = 2.73”
- PowerTrak Weight Unloaded = 10.48 lbs/ft. ②

General Layout



Required Length (ft.)③ = TT/2 + L

Notes Regarding TRAK

① *Based on standard travel with cable/hose package weight of 2.00 lbs/ft.*

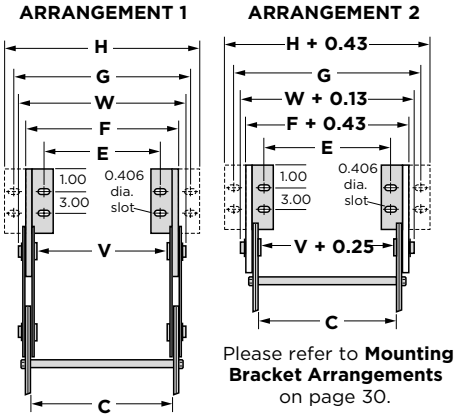
② *Based on average carrier weight @ 8.00” width. For detailed information, please see “Weight Calculations”.*

③ *Based on standard travel, i.e. two-way payout as pictured above.*

④ *L = minimum length in FEET required to form PowerTrak curve.*

Radius A	Height B	Minimum K	Curve L④
5.71	15.12	13.59	2.5 ft.
7.50	18.70	15.56	3.0 ft.
11.22	26.14	19.44	4.0 ft.
15.00	33.70	23.28	5.0 ft.
24.31	52.33	32.97	7.5 ft.

Mounting Brackets



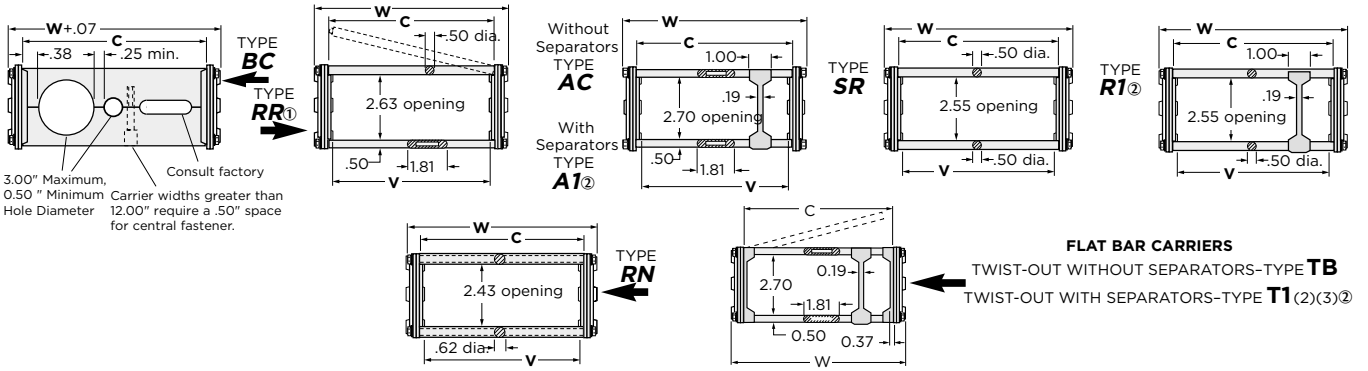
Please refer to **Mounting Bracket Arrangements** on page 30.

Carrier Width C	Feet Turned IN		Feet Turned OUT	
	Mtg. Location E± 0.75	Brkt. O/A F	Mtg. Location G ± 0.75	Brkt. O/A H
4.00	2.48	4.39	6.37	8.03
6.00	4.48	6.39	8.37	10.03
8.00	6.48	8.39	10.37	12.03
10.00	8.48	10.39	12.37	14.03
12.00	10.48	12.39	14.37	16.03
14.00	12.48	14.39	16.37	18.03
16.00	14.48	16.39	18.37	20.03
FORMULA	C - 1.52	C + 0.39	C + 2.37	C + 4.03

Dimensions in inches unless otherwise specified

Gleason PowerTrak PT45E

Cable/Hose Carrier Options



Carrier Width C	Usable Window Width V	Overall PowerTrak Width W
4.00	3.62	5.16
6.00	5.62	7.16
8.00	7.62	9.16
10.00	9.62	11.16
12.00	11.62	13.16
14.00	13.62	15.16
16.00	15.62	17.16
Formula	C - 0.38	C + 1.16

Notes Regarding Carriers

① Carrier type RR limited to "C" dimension no greater than 10.00".

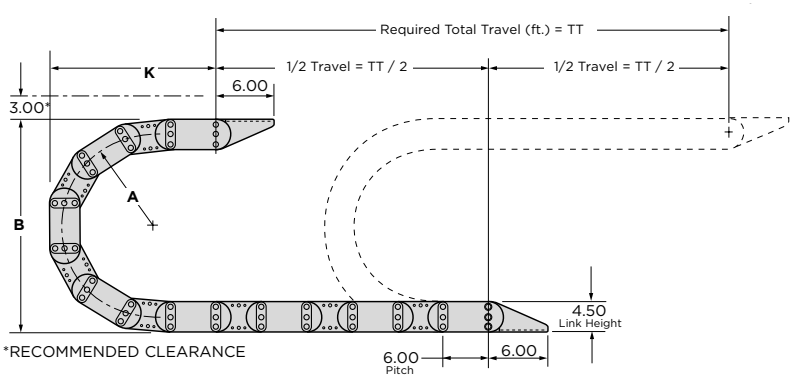
② Numeral "1" refers to number of vertical separators desired (2 = two separators, 3 = three separators, etc.). Number must be included in the model number when ordering.

Dimensions in inches unless otherwise specified

Gleason PowerTrak PT48E

- Standard Duty
- High Strength, Low Alloy Steel
- E-type Standard Duty Links
- Rugged One-piece Push-on Fasteners
- Standard or Custom Radii
- Total Travel w/o Supports = 46.0 ft. ①
- Maximum Speed = 500 fpm
- Maximum Acceleration = 5.0 ft/sec²
- Maximum Cable/Hose O.D. = 3.41”
- PowerTrak Weight Unloaded = 14.62 lbs/ft. ②

General Layout



Required Length (ft.)③ = TT/2 + L

Notes Regarding TRAK

① Based on standard travel with cable/hose package weight of 2.00 lbs/ft.

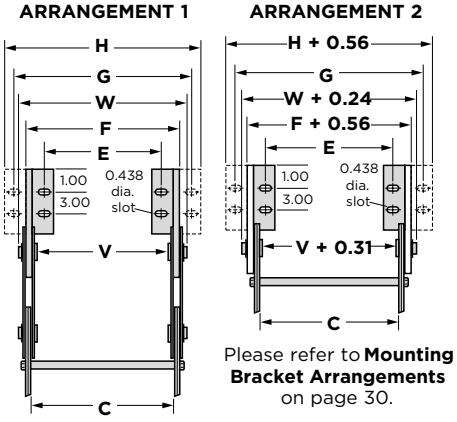
② Based on average carrier weight @ 8.00” width. For detailed information, please see “Weight Calculations”.

③ Based on standard travel, i.e. two-way payout as pictured above.

④ L = minimum length in FEET required to form PowerTrak curve.

Radius A	Height B	Minimum K	Curve L④
5.75	16.00	16.97	3.0 ft.
7.50	19.50	15.97	3.0 ft.
11.25	27.00	19.83	4.0 ft.
15.00	34.50	23.69	5.0 ft.
24.25	53.00	33.41	7.5 ft.

Mounting Brackets



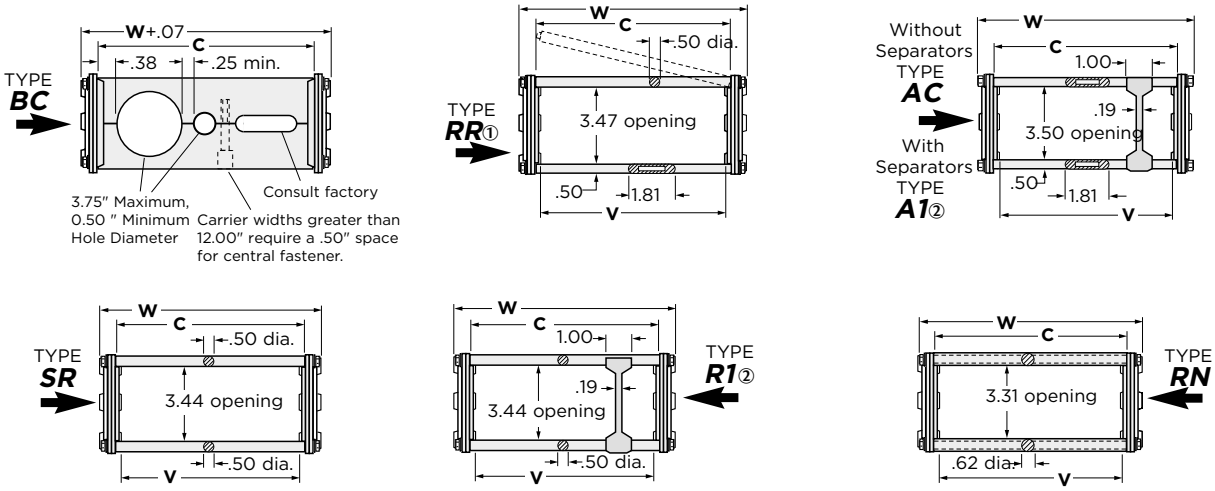
Please refer to **Mounting Bracket Arrangements** on page 30.

Carrier Width C	Feet Turned IN		Feet Turned OUT	
	Mtg. Location E± 0.47	Brkt. O/A F	Mtg. Location G ± 0.47	Brkt. O/A H
4.00	2.67	4.52	6.43	7.78
6.00	4.67	6.52	8.43	9.78
8.00	6.67	8.52	10.43	11.78
10.00	8.67	10.52	12.43	13.78
12.00	10.67	12.52	14.43	15.78
14.00	12.67	14.52	16.43	17.78
16.00	14.67	16.52	18.43	19.78
FORMULA	C - 1.33	C + 0.52	C + 2.43	C + 3.78

Dimensions in inches unless otherwise specified

Gleason PowerTrak PT48E

Cable/Hose Carrier Options



Carrier Width C	Usable Window Width V	Overall PowerTrak Width W
4.00	3.44	5.35
6.00	5.44	7.35
8.00	7.44	9.35
10.00	9.44	11.35
12.00	11.56	13.35
14.00	13.56	15.35
16.00	15.56	17.35
Formula	C - 0.44	C + 1.35

Notes Regarding Carriers

① Carrier type RR limited to "C" dimension no greater than 10.00".

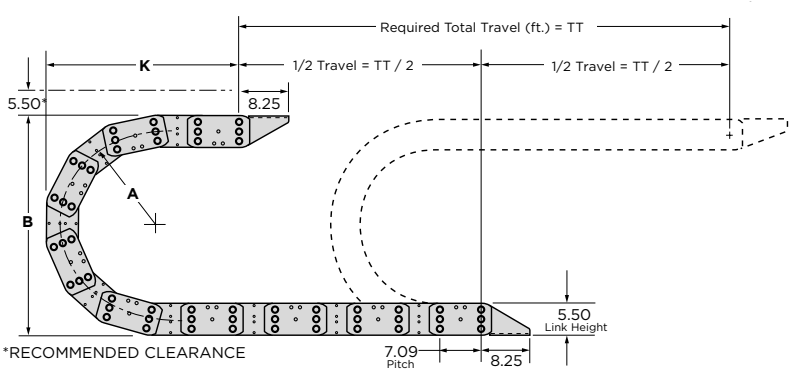
② Numeral "1" refers to number of vertical separators desired (2 = two separators, 3 = three separators, etc.). Number must be included in the model number when ordering.

Dimensions in inches unless otherwise specified

Gleason PowerTrak PT55E & PT55EF

- Heavy Duty or Mill Duty
- High Strength, Low Alloy Steel
- E-type or EF-Type (flanged) Links
- Retaining Ring or Bolted Construction ⑤
- Standard or Custom Radii
- Total Travel w/o Supports = 48.0 ft. ①
- Maximum Speed = 500 fpm
- Maximum Acceleration = 5.0 ft/sec^2
- Maximum Cable/Hose O.D. = 4.10”
- PowerTrak Weight Unloaded = 22.10 lbs/ft. ②

General Layout



Required Length (ft.)③ = TT/2 + L

PowerTrak length will be rounded to “odd” number of links.

Notes Regarding TRAK

① *Based on standard travel with cable/hose package weight of 2.00 lbs/ft.*

② *Based on average carrier weight @ 14.00” width. For detailed information, please see “Weight Calculations”.*

③ *Based on standard travel, i.e. two-way payout as pictured above.*

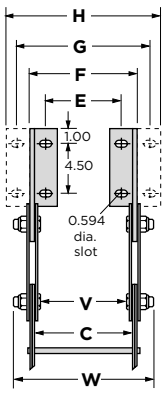
④ *L = minimum length in FEET required to form PowerTrak curve.*

⑤ *Retaining Ring construction standard on Heavy Duty (E-type) PowerTrak. Bolted construction standard on Mill Duty (EF-type) PowerTrak.*

Radius A	Height B	Minimum K	Curve L④
11.22	27.94	26.35	5.0 ft.
15.00	35.50	30.19	6.0 ft.
18.69	42.88	34.08	7.0 ft.
24.31	54.12	39.87	8.5 ft.
30.00	65.50	45.63	10.0 ft.
36.00	77.50	51.20	11.5 ft.

Mounting Brackets

ARRANGEMENT 1



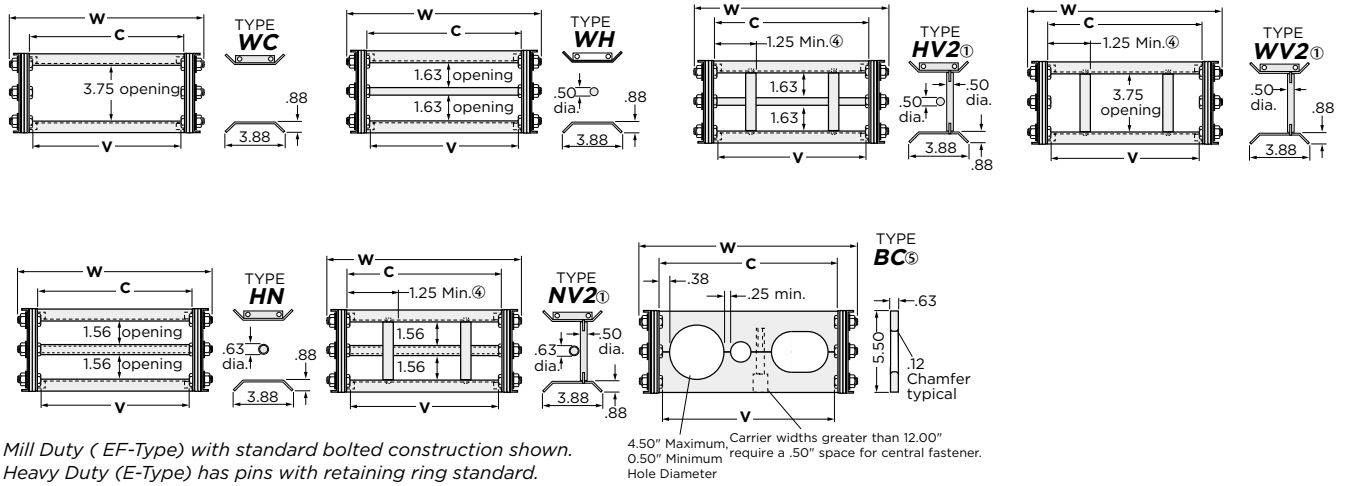
Only mounting bracket arrangement 1 can be used with types **PT55E & PT55EF.** Please refer to **Mounting Bracket Arrangements** on page 30.

Carrier Width C	Feet Turned IN		Feet Turned OUT	
	Mtg. Location E± 0.44	Brkt. O/A F	Mtg. Location G ± 0.44	OUT Brkt. O/A H
6.00	3.70	6.52	8.84	10.78
8.00	5.70	8.52	10.84	12.78
10.00	7.70	10.52	12.84	14.78
12.00	9.70	12.52	14.84	16.78
14.00	11.70	14.52	16.84	18.78
16.00	13.70	16.52	18.84	20.78
18.00	15.70	18.52	20.84	22.78
20.00	17.70	20.52	22.84	24.78
22.00	19.70	22.52	24.84	26.78
24.00	21.70	24.52	26.84	28.78
FORMULA	C - 2.30	C + 0.52	C + 2.84	C + 4.78

Dimensions in inches unless otherwise specified

Gleason PowerTrak PT55E & PT55EF

Cable/Hose Carrier Options



Mill Duty (EF-Type) with standard bolted construction shown. Heavy Duty (E-Type) has pins with retaining ring standard. Dimensions vary slightly. See page 4 and notes below.

Carrier Width	Usable Window Width V		Overall PowerTrak Width W	
C	E②	EF③	E②	EF③
6.00	5.42	5.17	7.27	7.86
8.00	7.42	7.17	9.27	8.86
10.00	9.42	9.17	11.27	10.86
12.00	11.42	11.17	13.27	12.86
14.00	13.42	13.17	15.27	14.86
16.00	15.42	15.17	17.27	16.86
18.00	17.42	17.17	19.27	18.86
20.00	19.42	19.17	21.27	20.86
22.00	21.42	21.17	23.27	22.86
24.00	23.42	23.17	25.27	24.86
Formula	C - 0.58	C - 0.83	C + 1.27	C + 1.86

Notes Regarding Carriers

① Numeral "2" refers to number of vertical separators desired (2 = two separators, 3 = three separators, etc.). Number must be included in the model number when ordering.

② Bolted option for PT55E (PT55EB) alters dimensions slightly: V = C - 0.83 and W = C + 1.74.

③ Retaining Ring option for PT55EF (PT55EFP) alters dimensions slightly: V = C - 0.58 and W = C + 1.86.

④ Separators adjustable in 0.50" increments.

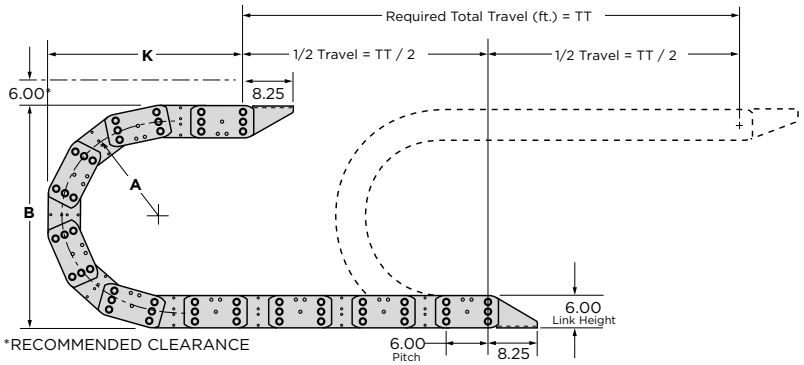
⑤ Custom milled carriers. Maximum hole diameter = 4.5". Minimum hole diameter = 0.50".Consult factory for slotted openings.

Dimensions in inches unless otherwise specified

Gleason PowerTrak PT60E & PT60EF

- Heavy Duty or Mill Duty
- High Strength, Low Alloy Steel
- E-type or EF-Type (flanged) Links
- Retaining Ring or Bolted Construction ⑤
- Standard or Custom Radii
- Total Travel w/o Supports = 54.0 ft. ①
- Maximum Speed = 500 fpm
- Maximum Acceleration = 5.0 ft/sec2
- Maximum Cable/Hose O.D. = 4.55”
- PowerTrak Weight Unloaded = 25.89 lbs/ft. ②

General Layout



Required Length (ft.)③ = TT/2 + L

PowerTrak length will be rounded to “odd” number of links.

Notes Regarding TRAK

① Based on standard travel with cable/hose package weight of 2.00 lbs/ft.

② Based on average carrier weight @ 14.00” width. For detailed information, please see “Weight Calculations”.

③ Based on standard travel, i.e. two-way payout as pictured above.

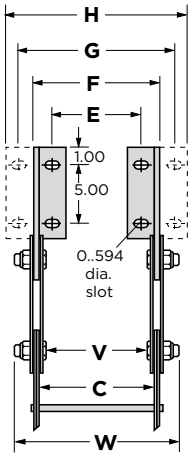
④ L = minimum length in FEET required to form PowerTrak curve.

⑤ Retaining Ring construction standard on Heavy Duty (E-type) PowerTrak. Bolted construction standard on Mill Duty (EF-type) PowerTrak.

Radius A	Height B	Minimum K	Curve L④
11.00	28.00	23.72	4.5 ft.
14.81	35.63	27.55	5.5 ft.
20.50	47.00	33.30	7.0 ft.
24.12	54.25	37.22	8.0 ft.
29.50	65.00	43.16	9.5 ft.

Mounting Brackets

ARRANGEMENT 1



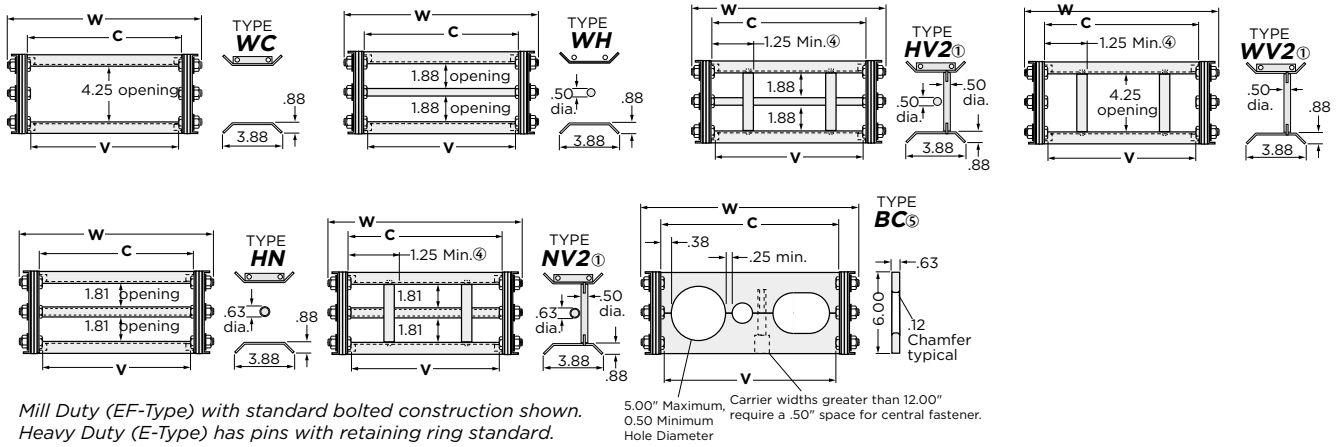
Only mounting bracket arrangement 1 can be used with types **PT60E & PT60EF**. Please refer to **Mounting Bracket Arrangements** on page 30.

Carrier Width C	Feet Turned IN		Feet Turned OUT	
	Mtg. Location E± 0.44	Brkt. O/A F	Mtg. Location G ± 0.44	Brkt. O/A H
6.00	3.70	6.52	8.84	10.78
8.00	5.70	8.52	10.84	12.78
10.00	7.70	10.52	12.84	14.78
12.00	9.70	12.52	14.84	16.78
14.00	11.70	14.52	16.84	18.78
16.00	13.70	16.52	18.84	20.78
18.00	15.70	18.52	20.84	22.78
20.00	17.70	20.52	22.84	24.78
22.00	19.70	22.52	24.84	26.78
24.00	21.70	24.52	26.84	28.78
FORMULA	C - 2.30	C + 0.52	C + 2.84	C + 4.78

Dimensions in inches unless otherwise specified

Gleason PowerTrak PT60E & PT60EF

Cable/Hose Carrier Options



Mill Duty (EF-Type) with standard bolted construction shown. Heavy Duty (E-Type) has pins with retaining ring standard. Dimensions vary slightly. See page 4 and notes below.

Carrier Width	Usable Window Width V		Overall PowerTrak Width W	
C	E②	EF③	E②	EF③
6.00	5.42	5.17	7.27	7.86
8.00	7.42	7.17	9.27	9.86
10.00	9.42	9.17	11.27	11.86
12.00	11.42	11.17	13.27	13.86
14.00	13.42	13.17	15.27	15.86
16.00	15.42	15.17	17.27	17.86
18.00	17.42	17.17	19.27	19.86
20.00	19.42	19.17	21.27	21.86
22.00	21.42	21.17	23.27	23.86
24.00	23.42	23.17	25.27	25.86
Formula	C - 0.58	C - 0.83	C + 1.27	C + 1.86

Notes Regarding Carriers

① Numeral "2" refers to number of vertical separators desired (2 = two separators, 3 = three separators, etc.). Number must be included in the model number when ordering.

② Bolted option for PT60E (PT60EB) alters dimensions slightly: V = C - 0.83 and W = C + 2.86.

③ Retaining Ring option for PT60EF (PT60EFP) alters dimensions slightly: V = C - 0.72 and W = C + 1.86.

④ Separators adjustable in 1.00" increments.

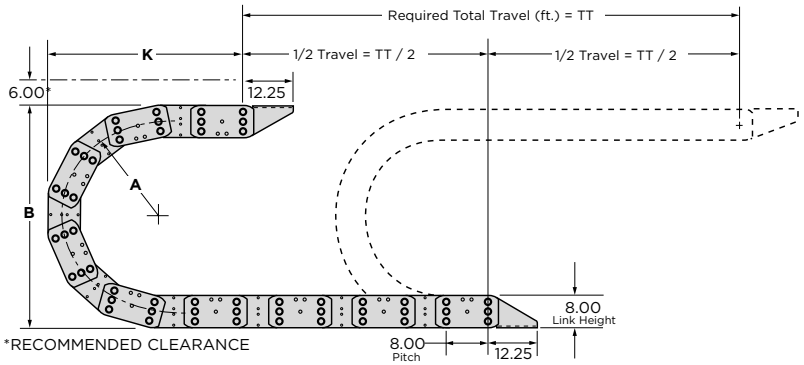
⑤ Custom milled carriers. Maximum hole diameter = 5.00". Minimum hole diameter = 0.50".Consult factory for slotted openings.

Dimensions in inches unless otherwise specified

Gleason PowerTrak PT80E & PT80EF

- Heavy Duty or Mill Duty
- High Strength, Low Alloy Steel
- E-type or EF-Type (flanged) Links
- Retaining Ring or Bolted Construction ⑤
- Standard or Custom Radii
- Total Travel w/o Supports = 61.0 ft. ①
- Maximum Speed = 500 fpm
- Maximum Acceleration = 5.0 ft/sec²
- Maximum Cable/Hose O.D. = 5.45”
- PowerTrak Weight Unloaded = 33.14 lbs/ft. ②

General Layout



Required Length (ft.)③ = TT/2 + L

PowerTrak length will be rounded to “odd” number of links.

Notes Regarding TRAK

① Based on standard travel with cable/hose package weight of 2.00 lbs/ft.

② Based on average carrier weight @ 14.00” width. For detailed information, please see “Weight Calculations”..

③ Based on standard travel, i.e. two-way payout as pictured above.

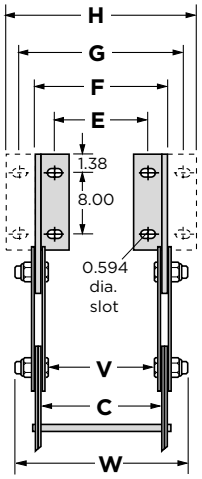
④ L = minimum length in FEET required to form PowerTrak curve.

⑤ Retaining Ring construction standard on Heavy Duty (E-type) PowerTrak. Bolted construction standard on Mill Duty (EF-type) PowerTrak.

Radius A	Height B	Minimum K	Curve L④
10.50	29.00	28.00	5.0 ft.
12.50	33.00	29.87	5.5 ft.
19.50	47.00	37.87	7.5 ft.
23.12	54.25	38.80	8.0 ft.

Mounting Brackets

ARRANGEMENT 1



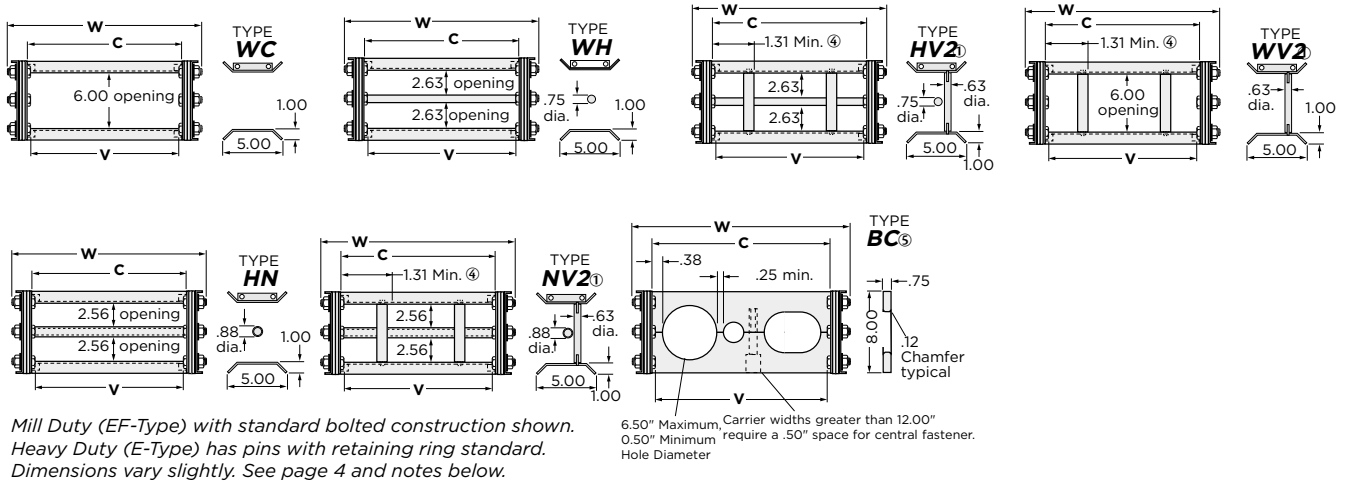
Only mounting bracket arrangement 1 can be used with types **PT80E & PT80EF**. Please refer to **Mounting Bracket Arrangements** on page 30.

Carrier Width C	Feet Turned IN		Feet Turned OUT	
	Mtg. Location E± 0.69	Brkt. O/A F	Mtg. Location G ± 0.69	Brkt. O/A H
8.00	5.70	8.52	10.84	12.78
10.00	7.70	10.52	12.84	14.78
12.00	9.70	12.52	14.84	16.78
14.00	11.70	14.52	16.84	18.78
16.00	13.70	16.52	18.84	20.78
18.00	15.70	18.52	20.84	22.78
20.00	17.70	20.52	22.84	24.78
22.00	19.70	22.52	24.84	26.78
24.00	21.70	24.52	26.84	28.78
FORMULA	C - 2.30	C + 0.52	C + 2.84	C + 4.78

Dimensions in inches unless otherwise specified

Gleason PowerTrak PT80E & PT80EF

Cable/Hose Carrier Options



Mill Duty (EF-Type) with standard bolted construction shown. Heavy Duty (E-Type) has pins with retaining ring standard. Dimensions vary slightly. See page 4 and notes below.

Carrier Width	Usable Window Width V		Overall PowerTrak Width W	
C	E②	EF③	E②	EF③
8.00	7..42	7.17	9.29	10.40
10.00	9..42	9.17	11.29	12.40
12.00	11..42	11.17	13.29	14.40
14.00	13..42	13.17	15.29	16.40
16.00	15..42	15.17	17.29	18.40
18.00	17..42	17.17	19.29	20.40
20.00	19..42	19.17	21.29	22.40
22.00	21..42	21.17	23.29	24.40
24.00	23..42	23.17	25.29	26.40
Formula	C - 0.58	C - 0.83	C + 1.29	C + 2.40

Notes Regarding Carriers

① Numeral "2" refers to number of vertical separators desired (2 = two separators, 3 = three separators, etc.). Number must be included in the model number when ordering.

② Bolted option for PT80E (PT80EB) alters dimensions slightly: V = C - 0.83 and W = C + 2.40

③ Retaining Ring option for PT80EF (PT80EFP) alters dimensions slightly: V = C - 0.58 and W = C + 1.84.

④ Separators adjustable in 1.00" increments.

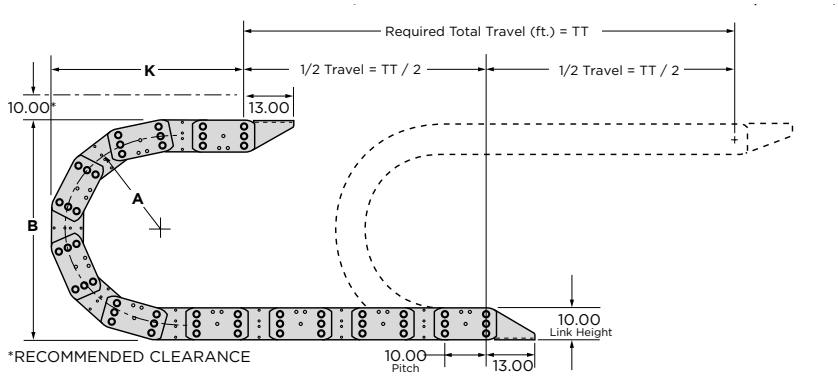
⑤ Custom milled carriers. Maximum hole diameter = 6.50". Minimum hole diameter = 0.50".Consult factory for slotted openings.

Dimensions in inches unless otherwise specified

Gleason PowerTrak PT100E & PT100EF

- Heavy Duty or Mill Duty
- High Strength, Low Alloy Steel
- E-type or EF-Type (flanged) Links
- Retaining Ring or Bolted Construction ⑤
- Standard or Custom Radii
- Total Travel w/o Supports = 73.0 ft. ①
- Maximum Speed = 500 fpm
- Maximum Acceleration = 5.0 ft/sec²
- Maximum Cable/Hose O.D. = 7.30"
- PowerTrak Weight Unloaded = 38.52 lbs/ft. ②

General Layout



Required Length (ft.)③ = TT/2 + L

PowerTrak length will be rounded to "odd" number of links.

Notes Regarding TRAK

① *Based on standard travel with cable/hose package weight of 2.00 lbs/ft.*

② *Based on average carrier weight @ 14.00" width. For detailed information, please see "Weight Calculations".*

③ *Based on standard travel, i.e. two-way payout as pictured above.*

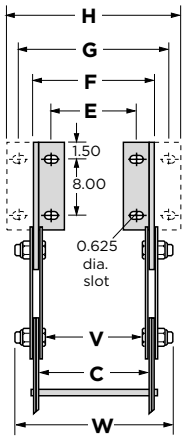
④ *L = minimum length in FEET required to form PowerTrak curve.*

⑤ *Retaining Ring construction standard on Heavy Duty (E-type) PowerTrak. Bolted construction standard on Mill Duty (EF-type) PowerTrak.*

Radius A	Height B	Minimum K	Curve L④
19.00	48.00	39.15	7.5 ft.
25.00	60.00	44.73	9.0 ft.
33.00	76.00	57.94	12.5 ft

Mounting Brackets

ARRANGEMENT 1



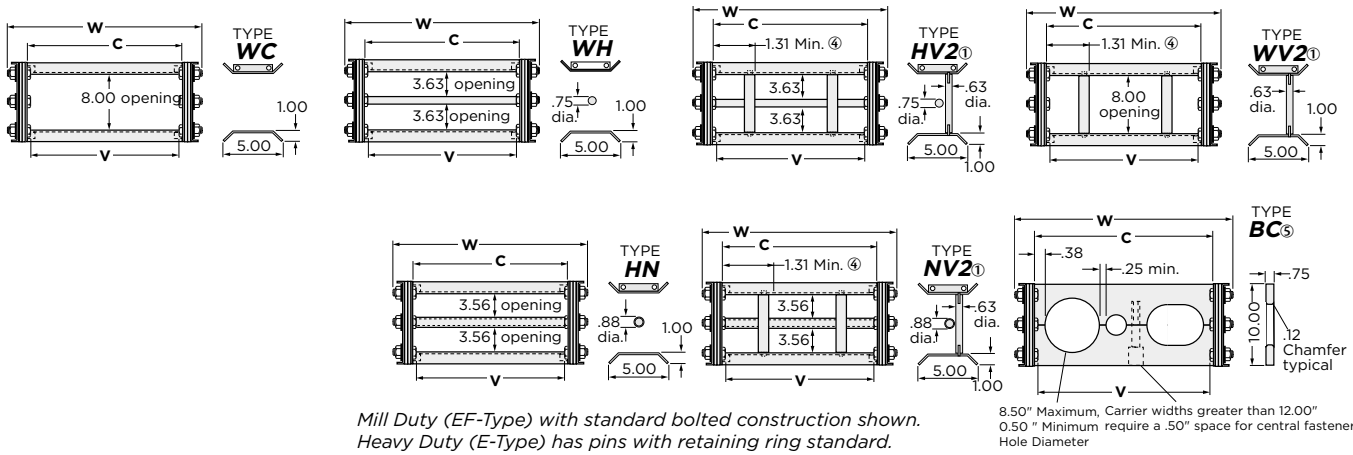
Only mounting bracket arrangement 1 can be used with types **PT100E & PT100EF**. Please refer to **Mounting Bracket Arrangements** on page 30.

Carrier Width C	Feet Turned IN		Feet Turned OUT	
	Mtg. Location E± 0.69	Brkt. O/A F	Mtg. Location G ± 0.69	Brkt. O/A H
10.00	7.70	10.52	12.84	14.78
12.00	9.70	12.52	14.84	16.78
14.00	11.70	14.52	16.84	18.78
16.00	13.70	16.52	18.84	20.78
18.00	15.70	18.52	20.84	22.78
20.00	17.70	20.52	22.84	24.78
22.00	19.70	22.52	24.84	26.78
24.00	21.70	24.52	26.84	28.78
FORMULA	C - 2.30	C + 0.52	C + 2.84	C + 4.78

Dimensions in inches unless otherwise specified

Gleason PowerTrak PT100E & PT100EF

Cable/Hose Carrier Options



Mill Duty (EF-Type) with standard bolted construction shown.
Heavy Duty (E-Type) has pins with retaining ring standard.
Dimensions vary slightly. See page 4 and notes below.

Carrier Width	Usable Window Width V		Overall PowerTrak Width W	
C	E②	EF③	E②	EF③
10.00	9.42	9.17	11.29	12.56
12.00	11.42	11.17	13.29	14.56
14.00	13.42	13.17	15.29	16.56
16.00	15.42	15.17	17.29	18.56
18.00	17.42	17.17	19.29	20.56
20.00	19.42	19.17	21.29	22.56
22.00	21.42	21.17	23.29	24.56
24.00	23.42	23.17	25.29	26.56
Formula	C - 0.58	C - 0.83	C + 1.29	C + 2.56

Notes Regarding Carriers

① Numeral "2" refers to number of vertical separators desired (2 = two separators, 3 = three separators, etc.). Number must be included in the model number when ordering.

② Bolted option for PT100E (PT100EB) alters dimensions slightly: V = C - 0.96 and W = C + 3.67.

③ Retaining Ring option for PT100EF (PT100EFP) alters dimensions slightly: V = C - 0.72 and W = C + 2.54.

④ Separators adjustable in 1.00" increments.

⑤ Custom milled carriers. Maximum hole diameter = 8.50". Minimum hole diameter = 0.50".Consult factory for slotted openings.

Dimensions in inches unless otherwise specified

For long travels and high speeds

Carriage Systems support PowerTrak throughout the entire travel length and allow longer travels and higher speeds than PowerTrak supported by rollers. Three types of systems cover a broad range of requirements. These pages provide information to help you specify a system. Please contact the factory for additional details or a recommendation.

OPPOSED TRAVEL ***STANDARD TRAVEL***

Carriage Systems may be used on either Standard Travel or Opposed Travel PowerTrak systems. Opposed Travel, which utilizes TWO PowerTraks, allows for separation of cables and hoses and may reduce overall system width. See Applying type "E" PowerTrak, page 5.

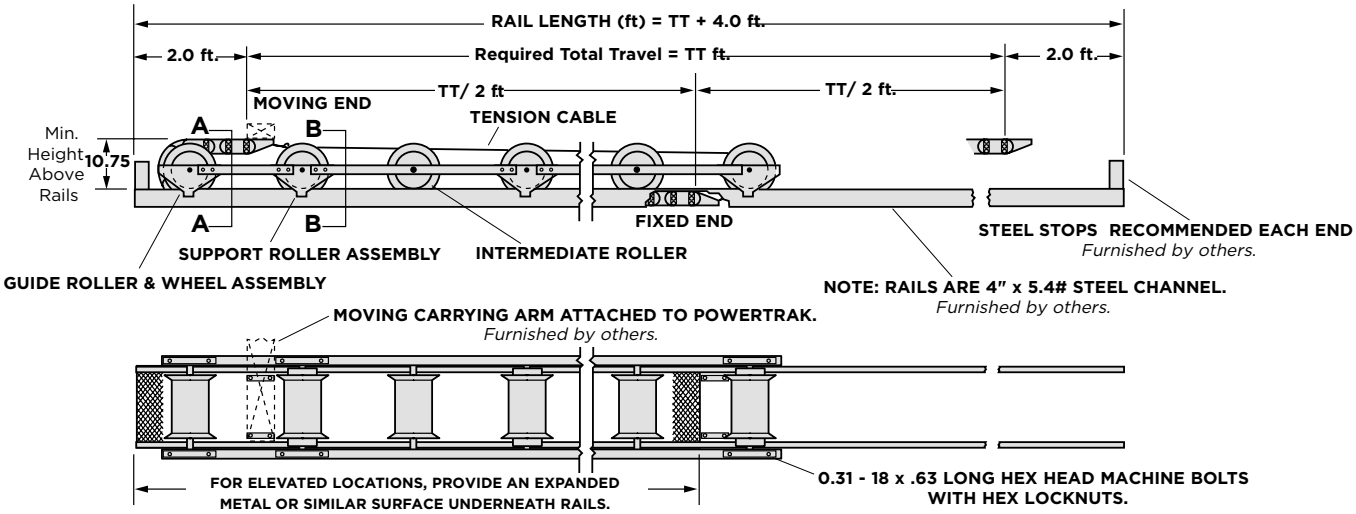
System Specifications

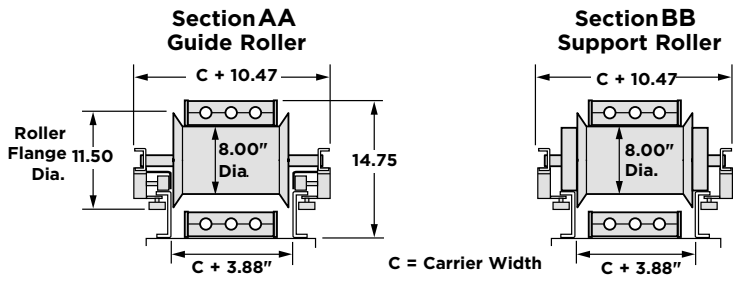
System Type	Maximum Travel	Maximum Speed	Maximum Acceleration	Powertrak Size(s) Available
222	500 FT.	400 FPM	5 FPS²	PT35E (5.22" radius only)
224	500 FT.	600 FPM	5 FPS²	PT35E, PT45EA
225	1000 FT.B	1000 FPM	10 FPS²	PT35E, PT45EA

① *Carriage systems for other PowerTrak sizes are available. Please consult factory.*

② *Longer travels are possible. Please consult factory.*

222 Carriage System





DRAWING BELOW SHOWS STANDARD TRAVEL.
Dimensions in inches unless otherwise noted.

APPLICATION NOTE

Type 222 Carriage is available for use with PT35E PowerTrak with a radius of 5.22" only. Carriage length will be adjusted to suit PowerTrak length. Additional PowerTrak length is required when using carriage, as follows:

STANDARD TRAVEL

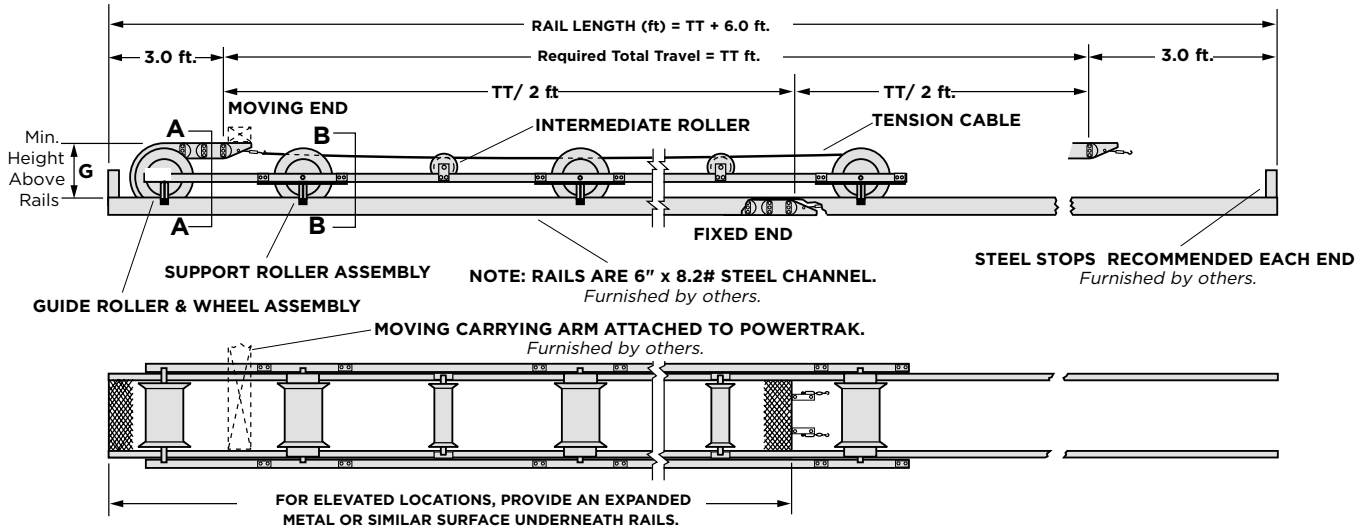
PowerTrak Length = (TT / 2) + 3.5 ft.

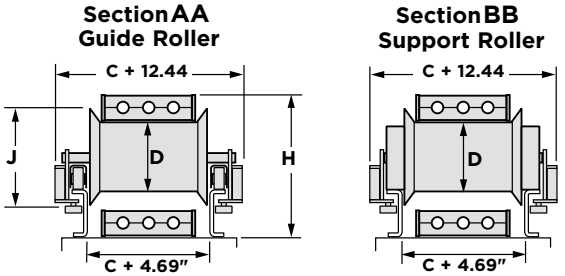
OPPOSED TRAVEL

PowerTrak Length = (TT / 2) + 2.5 ft.

224 Carriage System

Drawing Below Shows Standard Travel





PowerTrak Length = (TT /2) + L

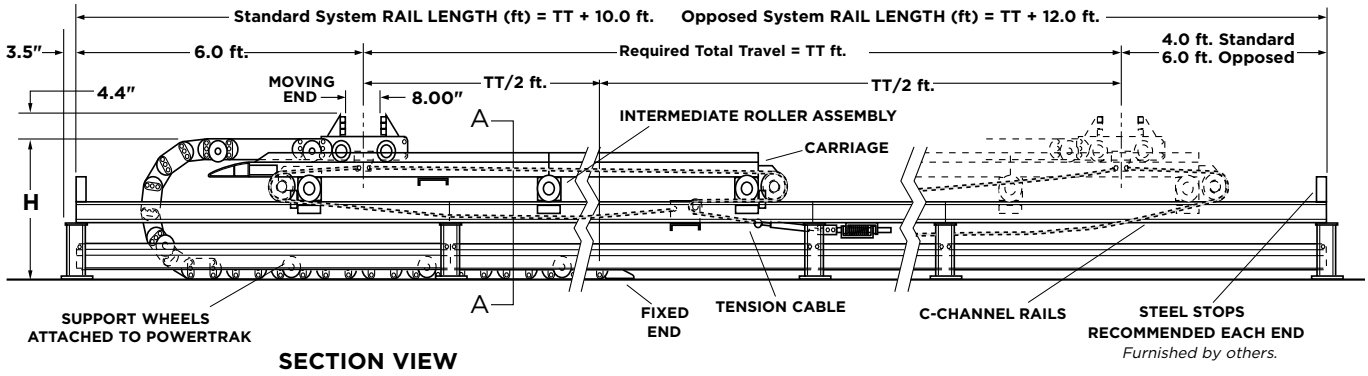
Dimensions In Inches

Powertrak Size & Radius	F	Flange Dia. J	Carriage Height H①	Above Rails G①	Standard Curve L	Opposed Curve L
PT35E-7.5	13.00	17.72	21.69	15.81	5.5 ft.	4.5 ft.
PT45E-7.5	13.00	17.72	22.72	16.88	5.5 ft.	4.5 ft.
PT35E-11.12	20.00	24.72	28.69	22.81	6.5 ft.	5.5 ft.
PT45E-11.2	20.00	24.72	29.72	23.88	6.5 ft.	5.5 ft.

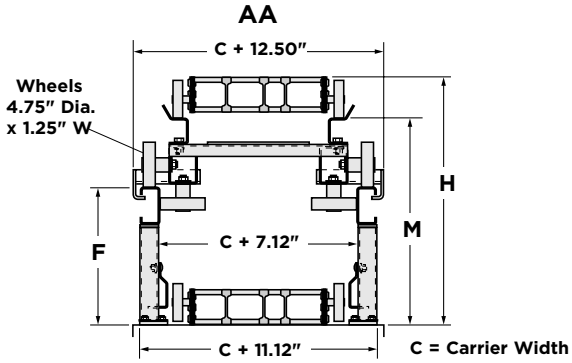
① *Minimum Clearance*

225 Carriage System

Drawing Below Shows Standard Travel



SECTION VIEW



PowerTrak Length = (TT /2) + L

Dimensions In Inches

Powertrak Size & Radius	F	Carriage Height H①	M	Standard Curve L	Opposed Curve L
PT35E-7.5	8.76	19.35	16.17	7.5 ft.	5.0 ft.
PT45E-7.5	9.79	21.40	17.05	7.5 ft.	5.0 ft.
PT35E-11.12	15.76	26.35	23.17	8.5 ft.	6.0 ft.
PT45E-11.2	16.78	28.40	24.04	8.5 ft.	6.0 ft.

① *Minimum Clearance*

Optional Accessories

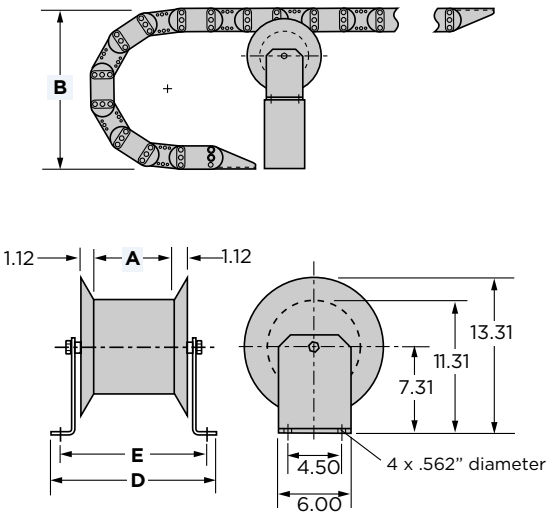
Roller Supports

PART NUMBER	CARRIER WIDTH C	A	D	E
090165	4.00	5.63	12.63	11.13
090166	6.00	7.63	14.63	13.13
090167	8.00	9.63	16.63	15.13
090168	10.00	11.63	18.63	17.13
090169	12.00	13.63	20.63	19.13
090170	14.00	15.63	22.63	21.13
090171	16.00	17.63	24.63	23.13
090172	18.00	19.63	26.63	25.13

* Stand height may be calculated using the formula:

B - (Link Height + 11.31)

B = PowerTrak Height–see "Dimensional Data" for "B" dimension of different Types and radii. Link Height may be found in "Dimensional Data" as well.

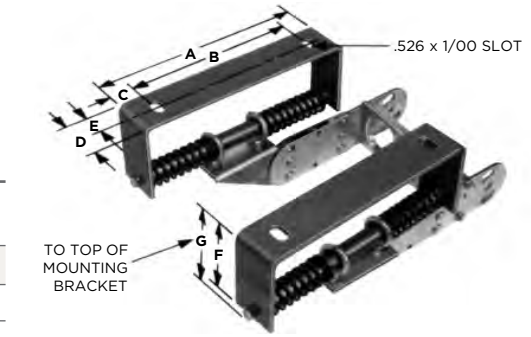


Roller Support shown here for sizes 35E - 48E only. For sizes 55E - 100E, please consult the factory.

Sliding Mounting Brackets

Sliding mounting brackets assemblies are recommended when PowerTrak is required to handle medium and high pressure hoses. Normally attached to the movable end of the PowerTrak, Sliding Mounting Brackets absorb any shrinkage or expansion of hoses caused by hydraulic surge. Refer to hose manufacturers data for specific information.

PART NO.	FITS MODELS	A	B	C	D	E	F	G
PL20-10	25E-48E	12.50	7.50	1.50	2.50	1.25	4.50	5.00
014875	55E-100E	16.00	12.00	2.00	2.75	1.38	4.00	4.87



Chip Covers

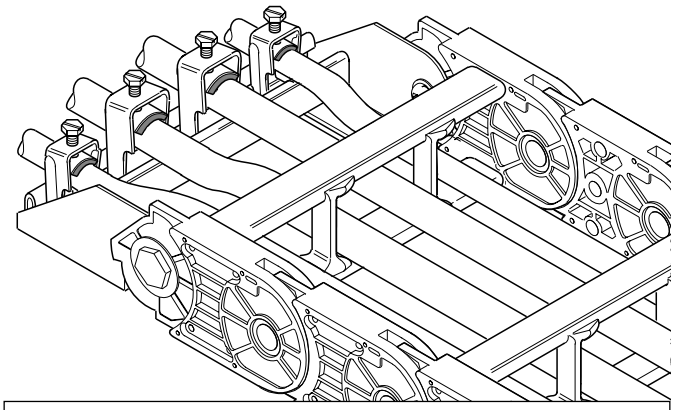
Stainless steel chip covers on both sides of the PowerTrak protect cables and hoses against hot chips and mechanical damage.

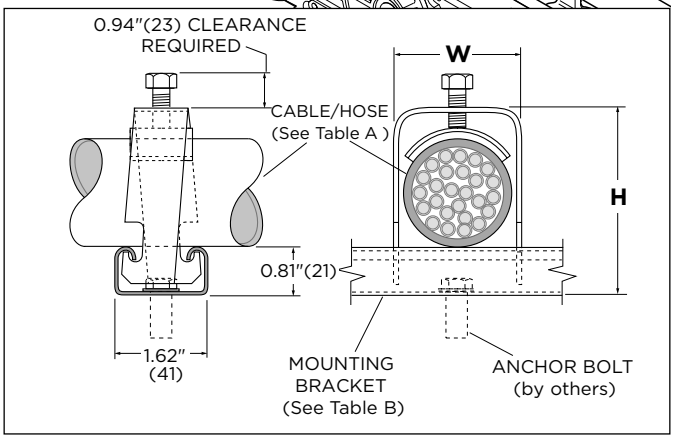
For use in the standard travel configuration only. Not for use with roller supports or for long travels. Notavailable for sizes 55E–100E. Please consult factory for recommendations.

Cable/Hose Anchor Clamps

- Affixes hoses or cables at ends of trak to prevent undue wear or stress.*
- Six sizes, for hose or cable 0.38" to 2.18" O.D.
- Rugged zinc plated steel for long life.
- Heavy duty steel mounting bracket.
- All clamps fit one mounting bracket. Simply attach proper size clamp when changing cable.

**Clamps not recommended for fixed end on long trak runs in guide tray. Use bar clamp in this application. Consult factory for details.*





CLIP MODEL CHART–TABLE A

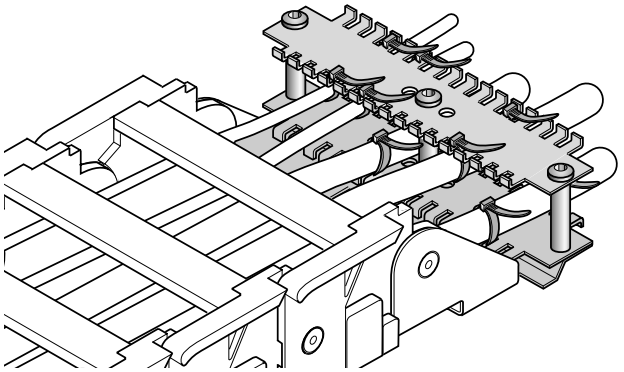
Cable / Hose O.D.		Width W		Height H		Clip Part Number
in.	(mm)	in.	(mm)	in.	(mm)	
0.38–0.62	(10–16)	1.1	(28)	2.1	(54)	04095101
0.63–0.88	(16–22)	1.4	(36)	2.3	(59)	04095102
0.89–1.12	(22–28)	1.6	(41)	2.4	(62)	04095103
1.13–1.38	(28–35)	2.1	(53)	2.7	(70)	04095104
1.39–1.75	(35–44)	2.3	(58)	3.0	(77)	04095105
1.76–2.18	(44–55)	2.7	(69)	3.5	(90)	04095106

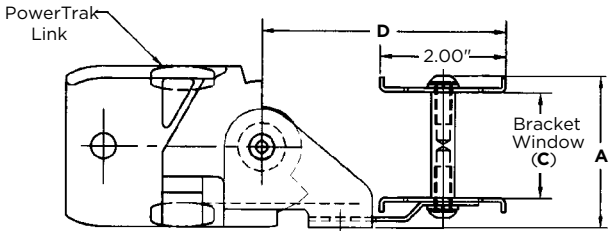
MOUNTING BRACKET MODEL CHART–TABLE B

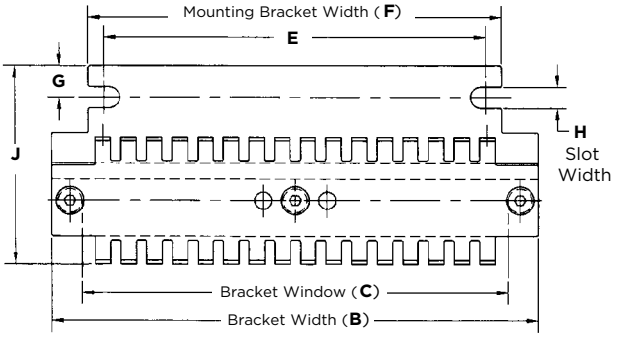
Carrier Width		Mounting Bracket Part No.
in.	(mm)	
4.00	(102)	03946501
6.00	(152)	03946502
8.00	(203)	03946503
10.00	(254)	03946504
12.00	(305)	03946505
14.00	(356)	03946506
16.00	(406)	03946507
18.00	(457)	03946508

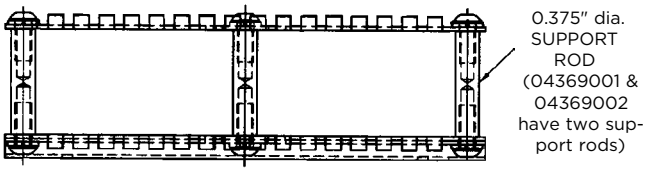
Heavy Duty Cable/Hose Tie Bracket

- Affixes hoses or cables at ends of trak to prevent undue wear or stress.
- Dual tie system holds more securely than single ties. Ties not included.
- Rugged baked polyester finished steel with zinc plated hardware.









PART NO	CABLE/ HOSE MAX. O.D.	A	B	C	D	E	F	G	H	J
04369005	2.12	3.26	9.60	2.50 x 8.66	7.18	6.84 +- 0.68	7.96	0.88	0.438	3.81
04369004	1.46	2.40	7.20	1.65 x 6.26	6.18	5.08 +- 0.62	6.11	0.63	0.406	3.44
04369003	1.46	2.38	7.60	1.65 x 6.66	3.87	5.96 +- 0.16	6.45	0.50	0.344	3.15
04369002	1.46	2.38	5.20	1.65 x 4.26	3.87	3.62 +- 0.16	4.11	0.50	0.344	3.15
04369001	1.46	2.38	3.60	1.65 x 2.66	3.87	1.96 +- 0.16	2.45	0.50	0.344	3.15

Building Model Number

For specific information, please refer to pages 8–19 and the following pages.

PT ____ E	—	____	—	____	—	____
a POWERTRAK SIZE		b CARRIER TYPE		c RADIUS		d CARRIER WIDTH
PT 28 E	—	AC	—	2.9	—	8

Example;

*Bend radius shortened when used in model number. Example: **2.95 = 2.9***

a Enter Powertrak Size

PowerTrak size should be suitable for the travel length required for your application and for the cable/hose package it is expected to carry. If it is not, you must choose another size or type PowerTrak. See pages 10–19 for specifications on each size PowerTrak. Use of a guide tray or guide tray & carriage, if available for a given size PowerTrak, can increase travel. See page 29 for help calculating travel in your application and page 28 for more information about defining your cable/hose “package”.

b Enter Carrier Type

Carrier Type should be suitable for the cable/hose package (page 28), machine duty cycle and PowerTrak size chosen. Refer to Carrier Selection Guides, pages 8 & 9, and PowerTrak Specifications, pages 10–19.

c Enter Bend “Radius”

Each PowerTrak size is available with several radii (pages 10–19 and Selection Guide, page 26). Radius chosen should be equal to or greater than the minimum bend radius of your LEAST FLEXIBLE cable or hose (page 28). If this condition is not met, you must choose a PowerTrak size with a larger bend radius. Consult your cable/hose supplier or manufacturer for specific information if you are not sure of the bending radius of each cable or hose to be used in the PowerTrak.

d Enter Carrier Width

Carrier width should be cable/hose package width x 1.20 (refer to page 28) and be compatible with PowerTrak size chosen. See Pages 10–19 for carrier window dimensions and compatibility with each size trak.

Add The Following

Required, but not part of model number

e Powertrak Length (page 29)

NOTE: “Length to order” is computed differently if “two-way payout” is not possible. See “Applying PowerTrak” on the previous pages for details and consult a factory representative if necessary.

e Powertrak Length (page 29)

NOTE: “Length to order” is computed differently if “two-way payout” is not possible. See “Applying PowerTrak” on the previous pages for details and consult a factory representative if necessary.

a b c d	e	f
PT28E - AC - 2.9 - 8	*6.5 ft*	*BRACKET DATA, ROLLER SUPPORTS, GUIDE TRAY LENGTH, CARRIAGE, ETC.*

INFORMATION COMPLETE!

Ordering Type “E” PowerTrak

a Determining Trak Size

Trak size must be carefully chosen to provide maximum life for both cable/hose package and trak. When selecting trak, pay close attention to the following:

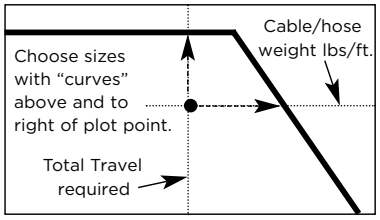
A. Radius...trak must have bend radius greater than least flexible cable/hose bend radius. See page 28 and PowerTrak Selection Guide, page 26.

B. Total travel...be sure total travel required does not exceed specifications for chosen trak size. See graphs at right and PowerTrak Selection Guide.

C. Carrier type...although carrier type and size may not have yet been chosen, consider width of total cable/hose package (pages 27 & 28), as well as diameter of largest cable or hose.

D. Choose trak that will allow use of a carrier of sufficient size to contain cable/hose. Refer to pages 10 – 19 for more information. With the above in mind, use graphs at right to select PowerTrak size. Draw horizontal line for weight (lbs/ft.) of cable package and vertical line for required total travel. Choose only PowerTrak sizes whose “curves” are above and to the right of the point at which these lines intersect. See example below. Refer to PowerTrak Selection Guide.

Sample Plot



See

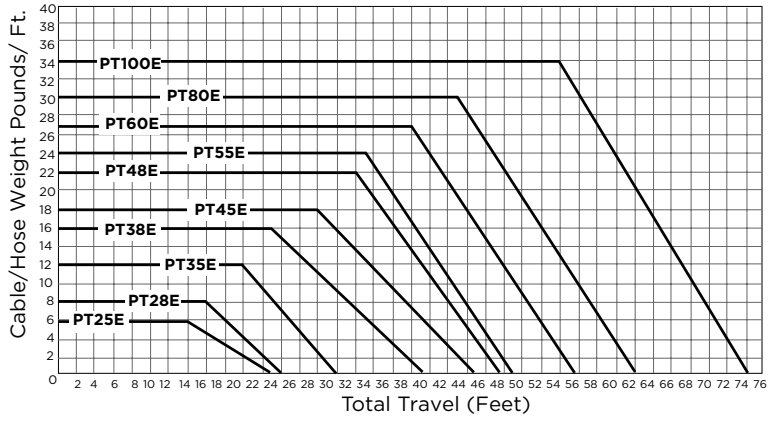
“CARRIAGE SYSTEMS”
or ask for

more information on

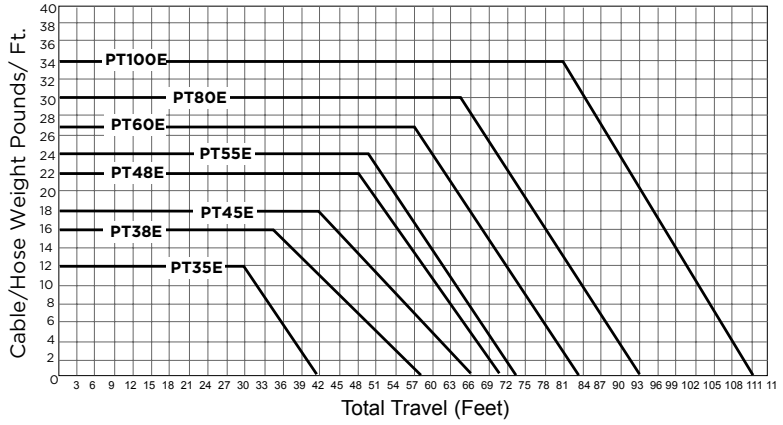
“SUPER DUTY POWERTRAK”

if your needs exceed the capabilities offered in the graphs at right.

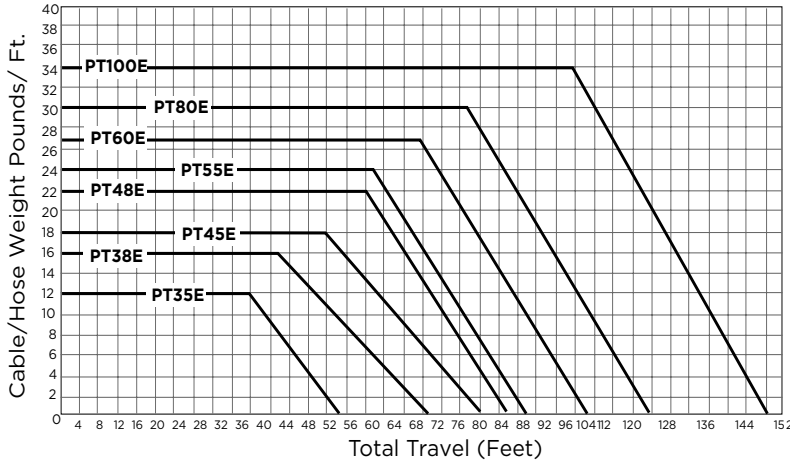
PowerTrak Travel Capabilities-Self Supported



PowerTrak Travel Capabilities-One Roller Support



PowerTrak Travel Capabilities-Two Roller Supports



Type "E" PowerTrak Selection Guide

PowerTrak Size	Cable/ Hose Max O.D.	Carrier Type	Powertrak Bend Radii		Carrier Width		Total Travel (Ft) ①			Max Speed (fpm)②	See Page Number
	ALLOWED	③	Standard	Optional	Standard "C"	Optional Widths	No Support	One Support	Two Supports		
PT25E	1.00 0.78 0.87 0.62 1.11 0.82	BC SR,R1 AC,A1,TB, RN SS ⑧ RR ⑧	2.95, 5.16 8.00, 11.72	Unlimited ④ over 2.95	4, 6, 8, 10, 12	Unlimited ④ from 2.00–12.00	20	NA ⑤	NA ⑤	300	10
PT28E	1.36 1.04 1.09 0.88 1.07	BC SR,R1 AC,A1,TB,T1 RN RR ⑧	2.95, 4.53 6.10	Unlimited ④ over 2.95	4, 6, 8, 10, 12	Unlimited ④ from 2.00–12.00	22	NA ⑤	NA ⑤	300	11
PT35E	1.81 1.29 1.39 1.19 1.92 1.34 1.03 1.03	BC SR,R1 AC,A1,TB,T1 RN SS ⑧ RR ⑧ RB, RB1 TRB, TR1	5.22, 7.50 11.12, 15.00 24.31	Unlimited ④ over 5.22	4, 6, 8, 10, 12, 14, 16	Unlimited ④ from 4.00–18.00	28	42 ⑥	56 ⑥	400	12
PT38E	2.28 1.62 1.67 1.51 1.64	BC SR,R1 AC,A1 RN RR ⑧	3.5, 5.00 6.00, 7.88 11.38, 15.38	Unlimited ④ over 3.5	4, 6, 8, 10, 12, 14, 16	Unlimited ④ from 4.00–18.00	37	55 ⑥	74 ⑥	400	13
PT45E	2.73 2.12 2.25 2.02 2.19 1.88 1.88	BC SR,R1 AC,A1,TB,T1 RN RR ⑧ RB, RB1 TRB, TR1	5.71, 7.50 11.22, 15.00 24.31	Unlimited ④ over 5.71	4, 6, 8, 10, 12, 14, 16	Unlimited ④ from 4.00–24.00	43	64 ⑥	86 ⑥	500	14
PT48E	3.41 2.87 2.92 2.76 2.89	BC SR,R1 AC,A1 RN RR ⑧	5.75, 7.50 11.25, 15.00 24.25	Unlimited ④ over 5.75	4, 6, 8, 10, 12, 14, 16	Unlimited ④ from 4.00–24.00	46	69 ⑥	92 ⑥	500	15
PT55E & PT55EF	4.10 3.12 3.12 1.36 1.30 1.36 1.30	BC WC WV WH HN HV NV	11.22, 15.00 18.69, 24.31 30.00, 36.00	Unlimited ④ over 11.22	6, 8, 10, 12, 14, 16, 18, 20, 22, 24	Unlimited ④ from 6.00–24.00	48	72	96 ⑦	500	16
PT60E & PT60EF	4.55 3.54 3.54 1.57 1.51 1.57 1.51	BC WC WV WH HN HV NV	11.00, 14.81 20.50, 24.12 29.50	Unlimited ④ over 11.00	6, 8, 10, 12, 14, 16, 18, 20, 22, 24	Unlimited ④ from 6.00–24.00	54	81 ⑦	108 ⑦	500	17
PT80E & PT80EF	5.91 5.00 5.00 2.19 2.13 2.19 2.13	BC WC WV WH HN HV NV	10.50, 12.50 19.50, 23012	Unlimited ④ over 10.50	8, 10, 12, 14, 16, 18, 20, 22, 24	Unlimited ④ from 8.00–24.00	61	92 ⑦	122 ⑦	500	18
PT100E & PT100EF	7.73 6.66 6.66 3.02 2.97 3.02 2.97	BC WC WV WH HN HV NV	19.00 25.00	Unlimited ④ over 19.00	10, 12 14, 16, 18, 20, 22, 24	Unlimited ④ from 10.00–24.00	73	110 ⑦	146 ⑦	500	19

Ordering (continued)

① Total Travel values based upon standard travel (two-way payout) and total cable/hose weight of 2.00 lbs/ft. See this weight applied in Travel Capabilities tables, page 25.
② Speed capabilities may increase for shorter machine travels and/or light loads. Please consult factory.
③ See pages 8–9 for details on Carrier types.
④ Please consult the factory concerning non-standard Bend Radii and non-standard Carrier Widths
⑤ Roller supports not recommended for Types PT25E and PT28E.
⑥ For Standard Duty Total Travel greater than 50 ft., please consult the factory.
⑦ For Heavy Duty and Mill Duty Total Travels greater than 80 ft., please consult the factory.
⑧ Carrier width limited to 10" (max).

a b Determining Carrier

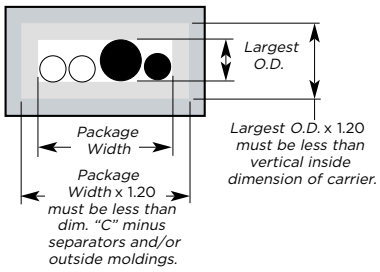
Refer to Carrier Options, pages 8 & 9, and Trak specifications, pages 10–19.

Use the following criteria when selecting a carrier type and width:

A. Cable/hose package (**JQsum and PKG HEIGHT** from calculations, page 28). Multiply each by 1.20 to find minimum carrier length and height that should be used for your application. See Figure 1, right.

B. CARRIER OPTIONS, pages 8 & 9, for benefits of each style carrier.

NOTE: Style BC is most efficient design from an operational standpoint but not necessarily from a capacity standpoint. Do a careful layout. Follow instructions below.



Select carrier style and size. **Selected carrier must fit PowerTrak size chosen.**

If it does not, select alternate carrier or go back and select next largest PowerTrak size.

Special Instructions for Type BC Carrier

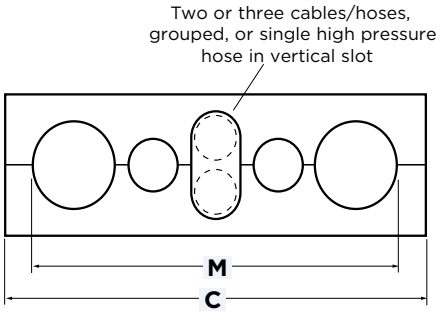
Type BC carrier uses a "split" machined aluminum bar which supports the cables/hoses near the true bending radius of the trak. Holes are custom machined to meet the particular application. When designing the hole layout, pay attention to the following:

1. Cables/hoses must be positioned to form a single layer with weight evenly distributed across width of carrier. If there are two or more such cables/hoses, the heaviest and largest should be located near the PowerTrak links (to outside) . If there is only one heavy cable/hose, locate it in the center to evenly distribute the weight.
2. Determine clearance for each cable or hose as follows:

   A. For nominal O.D.'s greater than 1.25", multiply O.D. by 1.1

   B. For nominal O.D's equal to or less than 1.25", add 0.12"
3. Maintain a 0.25" space between holes to facilitate machining. If this is not possible, use a wider carrier or group two or three cables/hoses together in one horizontal slot (Fig 2).

FIG. 2



4. Hoses operating at pressure greater than 200 psi should be individually contained in a vertical slot (Fig. 2).

To determine carrier width (C), calculate machining pattern (M) which is sum of hole diameters and spaces between holes plus 0.75" for PT25E thru PT48E and 1.00" for PT55E thru PT100E. Round this factor UP to nearest multiple of 2.

EXAMPLE: Sum of all holes ..... 8.75"
Sum of spaces between holes..... 1.00"
Trak chosen is PT35E. Add ..... 0.75" (1.00" on larger sizes. See above. Provides minimum 0.35" or 0.50" on each end of carrier.)
(M)= 10.50"
Round up to nearest 2"..... (C)= 12.00" (Standard widths in 2" increments.)

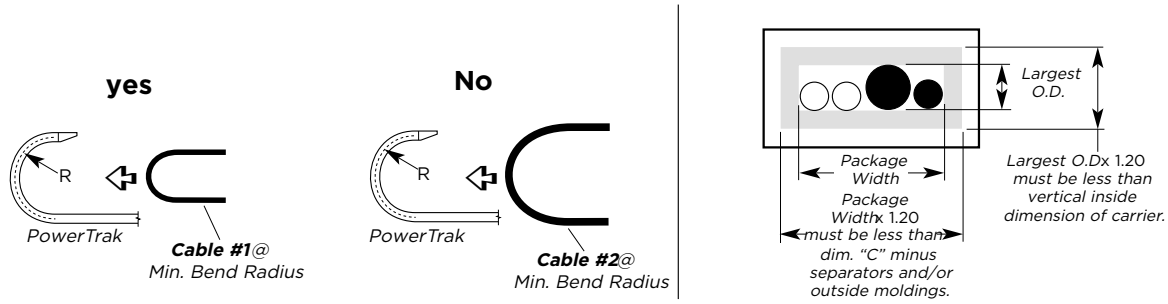
NOTE: Please include sketch of machining pattern with yourorder. Consult factory forspecial width requirements.

C Defining Your Cable/Hose "Package"

Picture your cables and hoses as a GROUP, what we call a cable/hose "PACKAGE."

- PowerTrak should NOT have a radius less than the minimum bending radius of the least flexible cable or hose in your package, usually the recommended minimum bend radius of the largest cable or hose in your package (Fig 1).
- Package must fit into a PowerTrak WINDOW. Allow for at least 20% clearance. See Fig. 2 and refer to pages 10–19.

IMPORTANT: Information about your cables and hoses is CRITICAL for selecting the correct PowerTrak.



Fill in all of the blanks in the Worksheet below (if necessary, refer to "Cable & Hose Data" at the back of this catalog for diameters and weights of typical cables and hoses).

Cable/Hose Descrip. (Include Qty of each @ right)	*J* O.D.	*D* Min. Bend*	*A* Lbs/Ft	*Q* Quantity	*AQ* (A x Q)	*JQ* (J x Q)

TOTAL NO. OF CABLES/HOSES (for machined bar carrier option) → Q_{SUM} = ____

TOTAL CABLE/ HOSE WEIGHT → AQ_{SUM} = _____ Lbs/ft

PKG WIDTH (Total of all O.D.'s) → JQ_{SUM} = _____ In

PKG HEIGHT (Largest O.D. [J] of all) _____ **Inches**

PKG MINIMUM BEND RADIUS* _____ **Inches**

*PKG MINIMUM BEND RADIUS: Your package should only bend as tight as the LARGEST recommended min. bend radius of all cables or hoses in your package. Generally, but not always, the minimum bend radius is largest on your LARGEST O.D. cable/ hose. Bend radius information should be available from the cable/hose manufacturer. If no information is available, a good method for determining min. bend radius of your package is to multiply your LARGEST O.D. by a factor of 6 (six): [6 x O.D.].

Ordering (continued)

e Determining Length

You need enough PowerTrak to cover:

- The Total Travel (TT) of your machine, for one-way payout (Fig 1), or 1/2 the Total Travel, for two-way payout (fig 2).
- Plus the length to form the PowerTrak curve (L) from Dimension Tables, pages 10–19 (fig 3).

The most cost-effective way to use PowerTrak is to locate the trak's fixed end (cable/hose source) at the CENTER of the machine travel, allowing pay-out in two (2) directions. We refer to this as "Two-way payout", illustrated in figure 4. Travel potential for the same length PowerTrak is DOUBLED when two-way payout is used. In the same way, you minimize the cost of cables and hoses – they need be only about HALF as long as your total travel (TT).

Opposed Travel application (Fig 4) does not shorten the length of PowerTrak required on each side (both must be 1/2 total travel). Rather, an Opposed Travel application is two similar PowerTraks installed in opposite directions. This application may allow use of a smaller trak style, shorter carriers or a single-wide rather than double-wide trak configuration.

See Pages 10–19 for "L" (curve lengths) of various PowerTrak styles.

Length to order:

ONE-WAY PAYOUT

$$TT_{(ft.)} + L_{(ft.)}$$

FIG. 1 ***STANDARD travel*** *with* ***ONE-WAY payout***

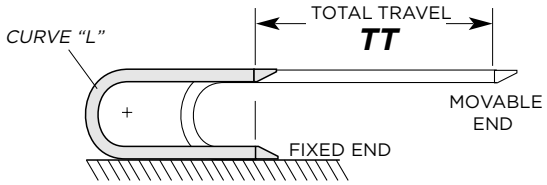
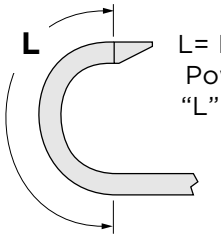


FIG. 3



L= Minimum length to form PowerTrak curve. Obtain "L" from Dimension Tables on pages 10–19.

On OPPOSED TRAVEL applications, length of track must be identical for both PowerTraks. Style of carrier, including number of dividers, may differ between the two PowerTraks so as to accommodate different cable and hose arrangements. For long travels, use of a GUIDE TRAY is highly recommended. Use of a CARRIAGE is also recommended but not essential. If GUIDE TRAY is used, trak link style and carrier lengths must also be identical for the two PowerTraks.

TWO-WAY PAYOUT

$$\frac{TT(ft.)}{2} + L_{(ft.)}$$

FIG. 2 ***STANDARD travel*** *with* ***TWO-WAY payout***

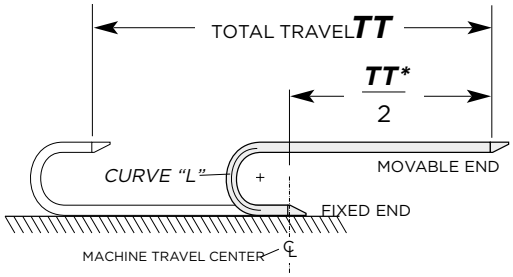
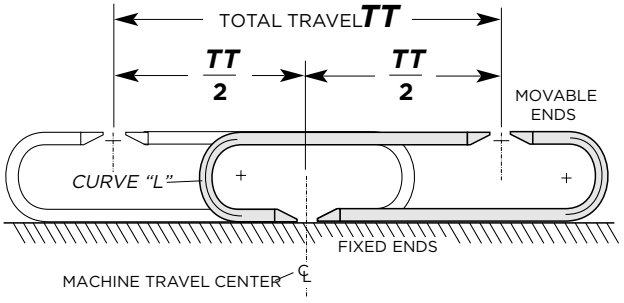


FIG. 4 ***OPPOSED travel*** *with* ***TWO-WAY payout***



Weight Calculations

Workspace for calculating PowerTrak® total assembly weight is provided below. Make copies if you wish. Weights for your specified cable/hose should be available from the manufacturer. Typical examples are listed on the facing page.

POWERTRAK TOTAL ASSEMBLY WEIGHT = (PowerTrak Weight/ft. + Total Cable/hose Weight/ft.) x PowerTrak Length

PowerTrak Weights

STANDARD DUTY (EMPTY)

Size	Pounds Per Foot
03946501	2.32 + (C x 0.09)
03946502	2.76 + (C x 0.11)
03946503	4.36 + (C x 0.13)
03946504	7.30 + (C x 0.14)
03946505	9.36 + (C x 0.14)
03946506	13.42 + (C x 0.15)

NOTE: *Carrier weights among Standard Duty Carrier sizes is very similar. Therefore, NOMINAL carrier weights are used.*

C = Carrier Width

Y = No. of Vertical Separators

HEAVY & MILL DUTY (EMPTY)

Size	Carrier	Pounds Per Foot
55E & EF	BC	18.00 + (C x 0.19)
	WC	18.18 + (C x 0.30)
	WH	18.23 + (C x 0.34)
	HN	18.23 + (C x 0.34)
	WV(Y)	18.18 + (C x 0.30) + (Y x 0.18)
	HV(Y)	18.23 + (C x 0.34) + (Y x 0.18)
	NV(Y)	18.23 + (C x 0.34) + (Y x 0.18)
60E & EF	BC	21.04 + (C x 0.24)
	WC	21.24 + (C x 0.35)
	WH	21.30 + (C x 0.40)
	HN	21.30 + (C x 0.40)
	WV(Y)	21.24 + (C x 0.35) + (Y x 0.24)
	HV(Y)	21.30 + (C x 0.40) + (Y x 0.24)
	NV(Y)	21.30 + (C x 0.40) + (Y x 0.24)
80E & EF	BC	27.57 + (C x 0.29)
	WC	27.92 + (C x 0.33)
	WH	28.00 + (C x 0.42)
	HN	28.00 + (C x 0.42)
	WV(Y)	27.92 + (C x 0.33) + (Y x 0.38)
	HV(Y)	28.00 + (C x 0.42) + (Y x 0.38)
	NV(Y)	28.00 + (C x 0.42) + (Y x 0.38)
100E & EF	BC	33.78 + (C x 0.26)
	WC	33.96 + (C x 0.27)
	WH	34.03 + (C x 0.34)
	HN	34.03 + (C x 0.34)
	WV(Y)	33.96 + (C x 0.27) + (Y x 0.41)
	HV(Y)	34.03 + (C x 0.34) + (Y x 0.41)
	NV(Y)	34.03 + (C x 0.34) + (Y x 0.41)

Mounting Bracket Arrangements

- Even though they are usually required, mounting brackets are not automatically included and must be itemized on the order.
- Unless otherwise specified, trak will be manufactured with bracket flanges pointing “in”. Please indicate if flanges must face “out”.
- Arrangement 1 (see drawing at right) will be used on the moving end on all models. If an even number of links is required on models PT25E through PT48E, the fixed end brackets will be mounted using arrangement 2. Arrangement 1 is used on both ends of larger tracks. As an aid to preparing detailed drawings, use the following procedure and refer to Pages 10–19 for mounting bolt location.

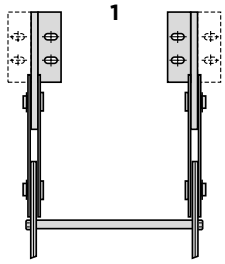
1. Convert PowerTrak Length (from previous page) to inches.
2. Determine number of links using the formula:

   Number of Links = PowerTrak Length (inches) ÷ Link Pitch.

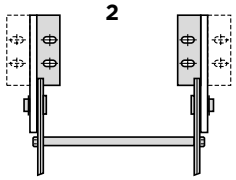
   Round UP. (Link pitch found on pages 10–19).
3. If the result is an ODD number of links, mounting brackets on both ends will be installed using ARRANGEMENT 1.

   If the result is an EVEN number of links, the “fixed” or stationary end of your PowerTrak will receive ARRANGEMENT 2. The “moving end” will receive ARRANGEMENT 1.

ARRANGEMENT 1



ARRANGEMENT 2



Cable & Hose Data

Type SO Cable — 600 Volt

16 AWG			14 AWG			12 AWG			10 AWG		
No. Cond.	Dia. In.	Weight lb/ft	No. Cond.	Dia. In.	Weight lb/ft	No. Cond.	Dia. In.	Weight lb/ft	No. Cond.	Dia. In.	Weight lb/ft
2	0.374	0.094	2	0.512	0.158	2	0.586	0.204	2	0.638	0.250
3	0.393	0.110	3	0.538	0.184	3	0.616	0.244	3	0.671	0.310
4	0.427	0.144	4	0.584	0.224	4	0.668	0.282	4	0.730	0.371
5	0.510	0.156	5	0.665	0.260	5	0.725	0.322	5	0.796	0.425
6	0.565	0.178	6	0.710	0.302	6	0.805	0.380	6	0.883	0.485
7	0.605	0.202	7	0.710	0.329	7	0.865	0.435	7	0.982	0.593
8	0.645	0.222	8	0.770	0.373	8	0.920	0.475	9	1.127	0.725
9	0.720	0.268	9	0.820	0.414	9	1.020	0.550	10	1.127	0.760
10	0.720	0.278	10	0.885	0.434	10	1.020	0.581	12	1.153	0.850
12	0.740	0.305	12	0.905	0.481	12	1.050	0.645	20	1.455	1.400
14	0.775	0.348	14	1.000	0.556	14	1.105	0.743	24	1.595	1.645
16	0.825	0.386	16	1.050	0.657	16	1.160	0.840	26	1.595	1.740
18	0.860	0.430	18	1.110	0.715	18	1.227	0.925	28	1.725	1.880
20	0.900	0.466	20	1.150	0.785	20	1.287	1.005	32	1.830	2.180
22	0.940	0.503	22	1.210	0.857	22	1.370	1.140	36	1.890	2.400
24	1.015	0.564	24	1.320	0.920	24	1.443	1.225	40	2.030	2.660
26	1.015	0.604	26	1.350	0.986	26	1.443	1.290	44	2.115	2.890
28	1.070	0.654	28	1.370	1.098	28	1.523	1.400	48	2.150	3.100
30	1.070	0.677	30	1.390	1.138	30	1.523	1.450	52	2.200	3.330
32	1.120	0.714	32	1.450	1.220	40	1.820	1.990	56	2.275	3.550
34	1.155	0.807	34	1.495	1.300	44	1.900	2.140			
36	1.155	0.820	36	1.515	1.359	48	1.930	2.300			
40	1.235	0.881	40	1.550	1.429	52	1.980	2.450			
44	1.280	0.940	44	1.715	1.619	56	2.020	2.600			
48	1.290	0.995	48	1.740	1.734	60	2.090	2.780			
52	1.360	1.100	52	1.784	1.843						
56	1.410	1.170	56	1.865	2.030						
60	1.465	1.260	60	1.925	2.156						

Type W Cable — 600 Volt

AWG Size	No. Cond.	Dia. In.	Weight lb/ft
8	2	0.788	0.328
	3	0.894	0.470
	4	0.966	0.583
6	2	0.872	0.425
	3	0.983	0.614
	4	1.068	0.769
4	2	1.040	0.780
	3	1.068	0.797
	4	1.166	1.019
3	2	1.033	0.687
	3	1.135	0.950
	4	1.241	1.197
2	2	1.177	0.888
	3	1.244	1.152
	4	1.326	1.429
1	2	1.365	1.090
	3	1.413	1.491
	4	1.548	1.877
1/0	2	1.454	1.386
	3	1.539	1.805
	4	1.686	2.309
2/0	2	1.555	1.640
	3	1.647	2.154
	4	1.807	2.738

Whenever possible, refer to specific manufacturer's information regarding cable or hose. If this information is not available, these charts are composites and may be used as guides to typical cable and hose size and weights.

Type G-GC Cable — 600 Volt

AWG Size	No. Cond.	Dia. In.	Weight lb/ft
8	3	0.915	0.661
6	3	1.000	0.792
4	3	1.120	1.088
3	3	1.180	1.250
2	3	1.250	1.436
1	3	1.440	1.856
1/0	3	1.565	2.270
2/0	3	1.630	2.660

Refer to the National Electric Code for ampere ratings and other details

Hose General Purpose

I.D. In.	Braid	O.D. In.	PSI (WORKING)	Weight lb/ft
.25	2	0.59	250	0.13
.38	2	0.72	250	0.18
.50	2	0.84	250	0.23
.75	2	1.16	250	0.37
1.00	2	1.50	150	0.64
1.25	2	1.75	150	1.01
1.50	2	2.00	150	1.06

Listings for general purpose hose do NOT include fluid weight. Specific fluid weights should be added when figuring Total Cable/ Hose Weight.

Hose Single Hydraulic

I.D. In.	Braid	O.D. In.	PSI (WORKING)	Weight lb/ft
.25	2	0.58	5000	0.23
.38	2	0.73	4000	0.35
.50	2	0.86	3500	0.42
.75	2	1.14	2250	0.60
1.00	2	1.48	2000	0.89
1.25	2	1.87	1625	1.40

Listings for single hydraulic hose do NOT include fluid weight. Specific fluid weights should be added when figuring Total Cable/ Hose Weight.

Cable Management

Since 1911 Gleason Reel Corp. has been in the business of CABLE MANAGEMENT. Our products are designed to convey and protect valuable cables and hoses that power and control moving machines of all types. They improve productivity and safety on the job by moving cables and hoses away from hazardous locations on machinery or the shop floor into a controlled environment. Whether you choose Reels for efficient storage and payout from virtually any angle, Festoon Systems for overhead applications or PowerTrak® for protection on machinery in motion, your cables and/or hoses will last longer and provide better service with a cable management system from **Gleason Reel Corp. ...**

...The Cable & Hose Management Company!

In addition to three types of PowerTrak, one of which is detailed in this catalog, Gleason manufactures a complete line of motor or spring driven and hand operated cable and hose reels in a wide variety of sizes as well as I-beam, c-rail and wire rope supported festoon systems for handling cables or hoses overhead. Contact Gleason Reel Corp. or your local Gleason Representative.

Notes

Notes

Gleason Reel, part of Hubbell Incorporated, has over 100 years of experience in crafting durable, application-specific cable and hose reels. Their products are designed to endure harsh environments, providing reliable performance. They focus on meeting present and future cable and hose management needs.

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