





Collector Designs for all Applications

Many different Collector Interface Materials & Styles

Rigid Conductor Bar Collectors

Pick up Wire Collector Designs

Self Aligning and Tracking Collector Designs

Collectors for Under, Over and Side Running Applications

Application Engineering Available to Design to Meet Customer Specifications



V Bar System with Corrugated Standoff Insulators

Features

- Dual Collector Designs Available
- Carbon Contact Surfaces
- Incorporated Insulator Designs
- Multiple Shoe Designs with Custom Engineered Options Available
- Designs for Misalignment Correction both Vertical and Horizontal
- Designs for Rigid & Wire Conductors
- Tracking Shoe Options Available

Moving Electrification

Heavy Duty Current Collectors

Application

XVI Collectors are for pick-up wire conductor systems, mainly used on overhead crane bridges to collect current from the trolley wire conductor system to run the transverse movement or lifting motors of the crane. These collectors are suitable for all sizes of trolley wire up to and including 3/0 B & S.

Features

The XVI Collector consists of an aluminum or brass body made in two halves which retains the contact member. This type of collector provides a self-cleaning and lubricating action which maintains a burnished conductor wire assuring longer life.

On critical circuits to assure continuity of service or where dirt contamination is prevalent, collectors in tandem are recommended. When using the square bar mounting, a single bracket assembly supports two collectors in tandem, however when using collectors with insulator mounting for the same purpose, two collectors are mounted together to suit the customer's mounting conditions.

Special Features

Body - Two types

- Aluminum -recommended for indoor service.
- Brass -recommended for outdoor service or where excessive industrial contamination prevails.

Terminal mounting holes are provided as shown on drawings.

Mounting - Two types

- Composition insulator with integrated molded shaft and tapped boss.
- Bracket for square bar mounting. In this type the insulation is provided by the customer's mounting which normally consists of a square bar covered with an insulating tube. Brackets are designed for mounting on square bars including insulation from 1" to 1¹/₂". It is necessary when ordering to specify the size bar used including the insulation.

Removable Contact Members

Accurately machined grooved blocks to secure maximum transfer or current. They can easily be replaced by loosening two screws in the body assembly. Furnished in two capacities.

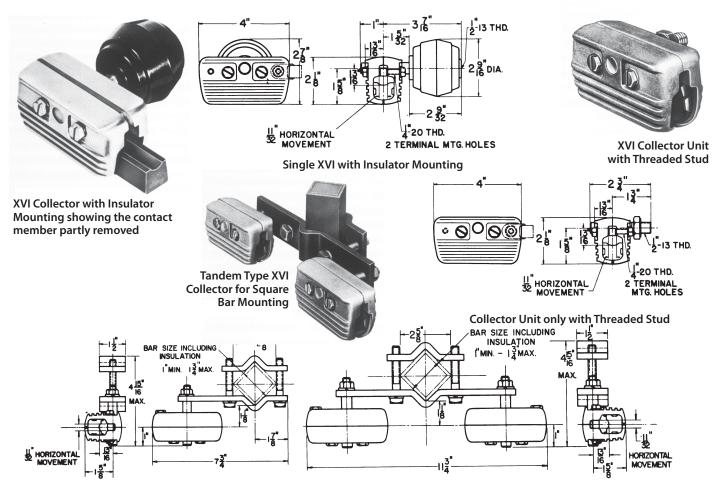
- Standard (Electro Graphite Carbon) 35 to 75 amperes approximate continuous rating depending upon working conditions.
- High Capacity (Metal Graphite) 75 to 125 amperes approximate continuous rating depending upon working conditions.

Collector Unit with Threaded Stud

This unit is supplied for replacement or where user supplies the insulator. For this application the collector unit is equipped with a special shaft threaded 1/2'' - 13 and supplied with a jam nut.

Project Engineering and On-Site Installation Support

TransTech's engineers custom-configure our products and systems to meet each customer's unique application requirements. We provide on-site technical installation support and layout drawings to our customers and their installation teams.



Single XVI with Square Bar Mounting

Double XVI with Square Bar Mounting

Catalog Information									
Style of Mounting	Collector	Body	Contact	Contact Number	*Approx. Continuous Current Capacity Amperes	Net Wt. Each Lbs.	Catalog Number		
Insulator	Single	Alum.	Standard	88321	35 - 75	1.50	88804		
Insulator	Single	Alum.	High Capacity	88597	75 - 125	1.80	88595		
Insulator	Single	Brass	Standard	88321	35 - 75	2.75	88825		
Insulator	Single	Brass	High Capacity	88597	75 - 125	3.05	91554		
Square Bar	Single	Alum.	Standard	88321	35 - 75	2.45	93828		
Square Bar	Double	Alum.	Standard	88321	70 - 150	3.70	93382		
Square Bar	Single	Alum.	High Capacity	88597	75 - 125	2.75	93829		
Square Bar	Double	Alum.	High Capacity	88597	150 - 250	4.40	93830		
Square Bar	Single	Brass	Standard	88321	35 - 75	3.75	98390		
Square Bar	Double	Brass	Standard	88321	70 - 150	6.35	98367		
Square Bar	Single	Brass	High Capacity	88597	75 - 125	4.05	98391		
Square Bar	Double	Brass	High Capacity	88597	150 - 250	7.00	98368		
¹ / ₂ " Threaded Stud	Single	Alum.	Standard	88321	35 - 75	1.0	88803		
¹ / ₂ " Threaded Stud	Single	Alum.	High Capacity	88597	75 - 125	1.3	88596		
¹ / ₂ " Threaded Stud	Single	Brass	Standard	88321	35 - 75	2.25	90428		
¹ / ₂ " Threaded Stud	Single	Brass	High Capacity	88597	75 - 125	2.55	92422		
Standard Renewable	e contact onl	у				.13	88321		
High Capacity Renew	vable contac	t only				.44	88597		
* This rating is neces	sarily approx	imate due to cha	nges in working	conditions					

Ordering Directions: Specify by catalog number.

On bar mounted collectors, specify bar size when ordering, from 1'' to $1^{3}/_{4}''$ including insulation.

Collectors - Pick-Up Type XVE, BV, BW, PW

Application

Four types of "Pick-up" collectors illustrated are mainly used on overhead crane bridges to collect current from the trolley conductor system to run the transverse movement or lifting motors of the crane.

The XVE collectors are "pick-up" wire conductor systems where the runs are comparatively short and current requirements are low.

These collectors are suitable for all sizes up to and including #3/0 B & S trolley conductors.

Features

Contact members of the type XVE is a grooved carbon insert bonded to a copper plated steel body and can be quickly removed and replaced by means of a cotter pin. Terminal connections can be made to the holes on either side of the body. Short height of this unit permits close spacing of the trolley wire conductors.

BV, BW, and PW contact members are either bronze wheels or shoes, the sliding shoe type of contact being preferred where there is dust and dirt because of its self-cleaning action.

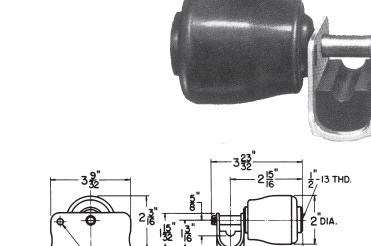
Types BV and BW have a molded composition insulator with an integrally molded shaft while the PW is furnished with a porcelain corrugated insulator.

Type BW is constructed with two contact wheels mounted on a frame to provide a higher capacity positive contact with the conductor wire. Its compactness permits close spacing of conductors.

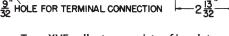
Type PW with porcelain corrugated insulator provides better insulation, particularly for outdoor service.

Type BV has sliding contact providing self-cleaning action. It is compact, permitting close spacing of conductors.

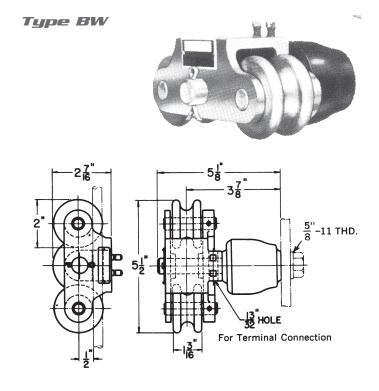
Type XVE collector consists of insulator with an integrally molded shaft supporting an inexpensive replaceable contact.



Type XVE

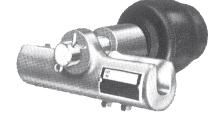


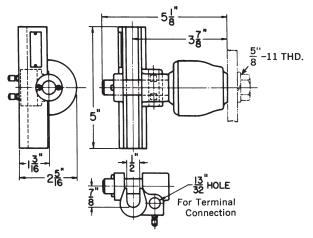
Type XVE collector consists of insulator with an integrally molded shaft supporting an inexpensive replaceable contact.



Type BW with two contact wheels mounted on a frame to provide a higher capacity and positive contact with the conductor wire. Its compactness permits close spacing of conductors. Collectors - Pick-Up Type XVE, BV, BW, PW

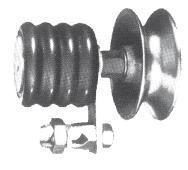
Type BV

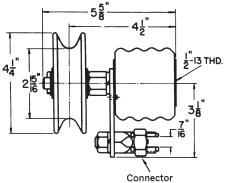




Type BV with sliding contact provides self-cleaning action, its compactness permits close spacing of conductors.

Type PW





Connector Range up to 3/0 Solid and 2/0 Standard Max.

Type PW with porcelain corrugated insulator provides better insulation, particularly for outdoor service.

Catalog Information									
Description	Contact Number	*Approx. Current Capacity Amperes	Net Wt. Each Lbs.	Catalog Number					
XVE Complete	93824	35	.90	93820					
Replaceable Contact		35	.45	93824					
BV Collector Complete	46615	100	3	46491					
BW Collector Complete	46488	75	4.75	46492					
PW Collector Complete	18897	75	5	70545					
*This rating is approximate	due to changes in w	vorking conditions.							

Collectors - Arm Type "Junior" Series

Application

"Junior" series of wire or rigid type conductor collectors illustrated are designed for light crane indoor operation with service characteristics as listed. This is the "Junior" series of a group of collectors including the "Universal" and "Pantograph" type for wire or rigid conductor applications.

Features

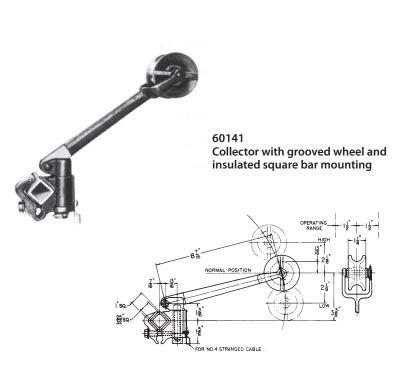
"Junior" collectors consist of a malleable iron arm and mounting assembly with either bronze wheels or shoes as contact members. Compression spring in the mounting assembly maintains pressure for contact with the conductor.

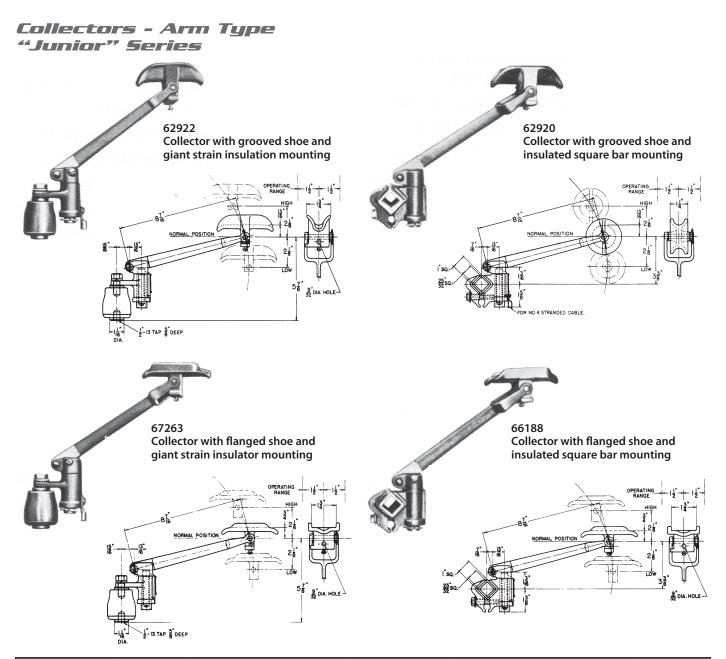
Arm can swivel 360° so that the collector can be positioned to meet space and mounting conditions. This is also of value in allowing for some misalignment of the conductor.

Insulation is provided by either a giant strain insulator or a square mica tube bushing depending upon the type of mounting.

Provision for feeder connections are provided direct to the contact shoe or to the mounting body in the wheel types.

Installation of collectors in parallel on the same conductor is recommended in order to assure maximum efficiency and insure continuous contact. This is particularly desirable on control circuits or in contaminated areas where dirt build-up reduces contact efficiency. 60036 Collector with grooved wheel and giant strain insulator mounting





	Catalog Information										
Description	Type of Mounting	Contact Member	*Approx. Current Capacity Amperes	Maximum Service Rating Volts	Net Wt. Each Lbs.	Catalog Number					
Type JAW	Insulator	60047 — 2 ¹ / ₂ " Bronze Wheel	40	750	3.50	60036					
Type JBW	Square Bar	60047 — 2 ¹ / ₂ " Bronze Wheel	40	750	3.50	60141					
Type JAS	Insulator	62918 — Bronze Shoe	75	440	3.50	62922					
Type JBS	Square Bar	62918 — Bronze Shoe	75	440	3.50	62920					
Type JAF	Insulator	62918 — Bronze Shoe	75	750	3.50	67263					
Type JBF	Square Bar	62918 — Bronze Shoe	75	440	3.25	66188					
* Current carrying of use, cleanliness	•	approximate as they depend up aces, etc.	on conditions of instal	lation such as speed, co	ontact pressure	es, frequency					

Collectors - Arm Type "Universal Series

Application

"Universal" collectors are used for many conductor systems as required on crane bridge or main runways or similar applications. Designation "Universal" refers to the design which, by combining parts, provides mountings and contacts to meet varying conditions. Collectors shown are considered as standard, however other assemblies are available, made to order, such as collectors with porcelain insulators, bronze contacts, other width contacts, without insulators, etc.

Features

Collector consists of cast iron and aluminum arm assembly with mounting and various shapes of shoes or wheels as contact members. Strong adjustable compression spring maintains the proper pressure of the contact member with the conductor depending upon operating conditions.

Feeder connections are made to the contact member of the shoe types or to the arm of wheel types. Horizontally mounted collectors shown have swivel bases to compensate for a certain degree of misalignment of the conductor wire. Vertically mounted collectors have a rigid base but the wheel has an extending shaft for side movement in case of misalignment.

Two Red-Poly insulators are normally supplied for mounting, however where excessive moisture or industrial contamination are prevalent, porcelain insulators can be supplied with a larger mounting base, made to order.

Dual installation of collectors connected in parallel on the same conductor is recommended in order to assure maximum efficiency and insure continuous contact. This is particularly desirable on control circuits or in contaminated areas where dirt build-up reduces contact efficiency.

Collectors having flat shoe contacts with or without flanges have a cleaning groove to allow dirt contamination to drop away and are furnished with two special composition inserts achieving a lubricating and burnishing action on the conductor.

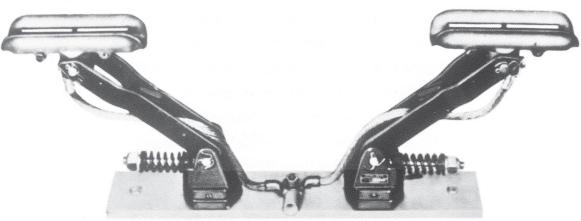
Catalog No.'s 46199 and 46211 collectors are supplied with high quality bronze: wheels and are normally used on systems of low current ratings.

Catalog No. 93148 collectors have a grooved bronze sliding contact furnishing a self-cleaning action together with a greater contact surface.

Catalog No.'s 92944 and 94136 have a grooved bronze sliding contact with two special composition inserts achieving a lubricating and burnishing action on the conductor wire. Inserts are furnished in two ratings, the "Standard" and the "High Capacity" with values as shown in the tabular listing on the following page.

Catalog No.'s 94058 and 94059 collectors have a cast iron arm provided with a ball that fits a socket in the shoe thus providing considerable movement or shoe in case of conductor misalignment. The long cast iron shoe has a large cleaning groove. This shoe provides two contact surfaces, fitting the inside of an inverted angle conductor.

Catalog No. 46227 collector is provided with a bronze flanged wheel for use on a narrow tee or bar conductors.

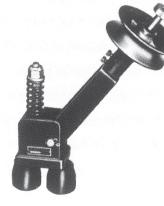


Typical arrangement of collectors in parallel

Collectors - Arm Type "Universal Series



46199 Collector with horizontal mounting and bronze wheel contact.



46211 Collector with vertical mounting and bronze wheel contact.



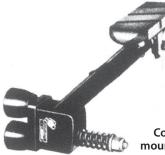
93148 Collector with horizontal mounting and bronze sliding contact.



92944 or 94136 Collector with horizontal mounting and sliding contact with standard or high capacity inserts.



94106 Collector with horizontal mounting and cast iron grooved contact shoe with inserts.

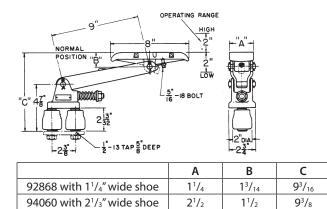


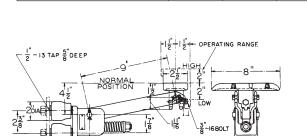
46192 Collector with vertical mounting and cast iron flat contact shoe with inserts.



94058 Collector with horizontal mounting and inverted "V" cast iron shoe for inverted angles used as conductors.

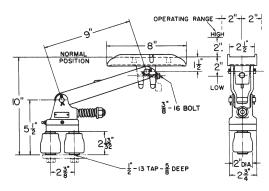
Collectors - Arm Type "Universal Series



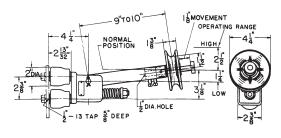


46192

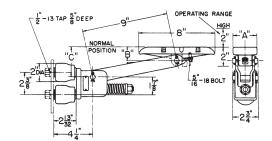
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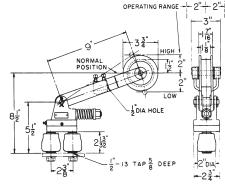




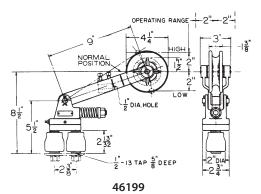


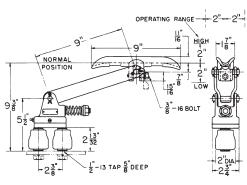


	Α	В	C
94102 with 1 ¹ / ₄ " wide shoe	1 ¹ / ₄	1 ³ / ₁₄	4 ³ / ₁₆
94103 with 2 ¹ / ₃ " wide shoe	2 ¹ / ₂	1 ¹ / ₂	4 ³ / ₈

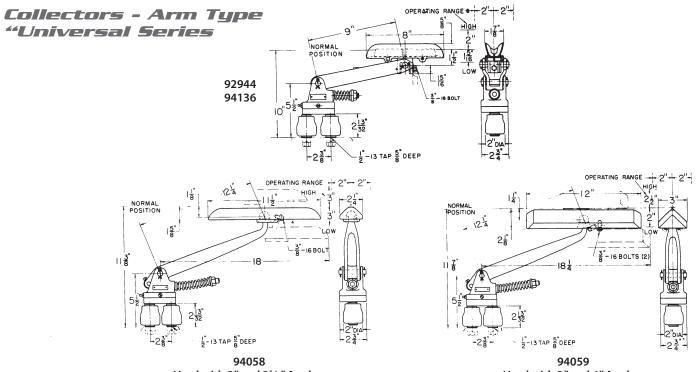








93148



Used with 2'' and $2^{1}/_{2}''$ Angles.

Used with 3" and 4" Angles.

Catalog Information									
Description	Width of Contact Inches	Contact Number	Distance from Mounting Surface to Conductor Inches	*Approx. Cur- rent Capacity Amperes	Maximum Service Rating Volts	Net Wt. Each Lbs.	Catalog Number		
Collector - Horizontal Mounting Bronze Wheel		18897	10	75	750	11	46199		
Collector - Vertical Mounting Bronze Wheel		18897	See Drawing on page 9	75	750	9 ¹ / ₂	46211		
Collector - Horizontal Mounting Bronze Siding Contact		94657	9 ³ / ₈	150	750	11 ¹ /4	93148		
Collector - Horizontal Mounting Sliding Contact & Standard Inserts		94658	10	150	750	11	92944		
Collector - Horizontal Mounting Sliding Contact & High Capacity Inserts		94661	10	200	750	11 ¹ / ₂	94136		
Collector - Horizontal Mounting Flat Iron Shoe with Inserts	1 ¹ /4	94770	9 ³ / ₁₆	75	750	9	92868		
Collector - Horizontal Mounting Flat Iron Shoe with Inserts	2 ¹ / ₂	94654	9 ³ / ₈	125	750	11	94060		
Collector - Vertical Mounting Flat Iron Shoe with Inserts	1 ¹ /4	94770	See Drawing on page 9	75	750	10 ¹ / ₂	94102		
Collector - Vertical Mounting Flat Iron Shoe with Inserts	2 ¹ / ₂	94654	See Drawing on page 9	125	750	11 ¹ / ₂	94103		
Collector - Vertical Mounting Flat Shoe with Inserts	2 ¹ / ₂	93121	See Drawing on page 9	125	750	11 ¹ / ₂	46192		
Collector - Horizontal Mounting Flanged Bronze Wheel	1 ¹ / ₈	46162	10	100	750	11 ¹ /4	46227		
Collector - Horizontal Mounting Flanged Iron Shoe with Inserts	2 ¹ / ₂	94660	10	125	750	13	94106		
Collector - Horizontal Mounting Inverted V Shoe - Ball & Socket Design		94659	See Drawing Above	150	750	12 ¹ / ₂	94058		
Collector - Horizontal Mounting Inverted V Shoe - Ball & Socket Design		94094	See Drawing Above	150	750	15³/4	94059		
*Current carrying capacities are approximate as the	ney depend upo	on conditions	of installation such as speed,	contact pressure, free	quency of use, clear	nliness of sur	faces, etc.		

Collectors - Pantograph Wire Conductor Series

Application

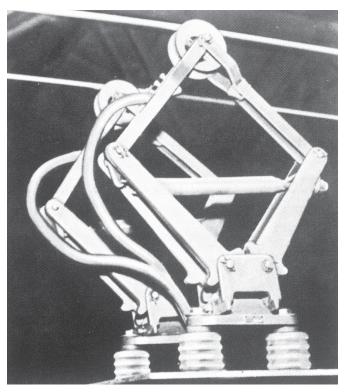
Pantograph Collectors with wheels are used on trolley wire conductor systems for slow-speed industrial cranes, particularly where there is much vertical misalignment in the installation.

Turne	Height in normal	Range of I	Novement
Туре	working position	Up	Down
SW	11 ¹ / ₂ ″	3 ⁵ /8″	3″
KWL	16″	4″	5″

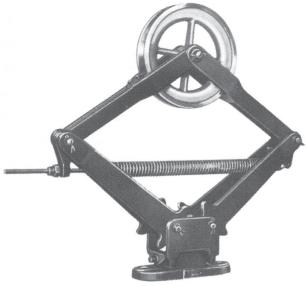
Features

Collector consists principally of malleable iron parts, the two lower arms being geared together at the base and controlled by a single adjustable tension spring assuring uniform pressure of the wheel on the conductor wire when running in either direction. In addition to the vertical movement, the entire pantograph is hinged at the base in order to give a slight horizontal movement to compensate for some misalignment in the conductor wire. Contact wheels are high quality bronze, 4¹/4" diameter in the Type SW and 8" diameter in type KWL. Large 8" wheel, obviously provides greater contact wearing surface and less tendency to leave the wire.

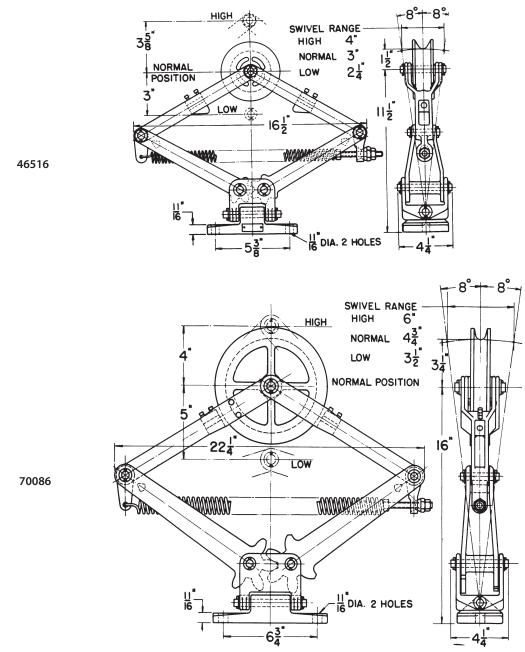
Feeder connections can be made to either or both of the upper arms in holes provided with set screws for securing the cable.



Typical Application of two pantographs in service



Type "KWL"



Collectors - Pantograph Wire Conductor Series

Catalog Information									
Contact Wheel Number	*Approx. Current Capacity Amperes	Approx. Wt. Each — Lbs.	Catalog Number						
18897	75	17	46516						
48384	125	37	70086						
	18897	Capacity Amperes 18897 75 48384 125	Capacity Amperes Each — Lbs. 18897 75 17 48384 125 37						

Collectors - Pantograph Rigid Conductor Series

Application

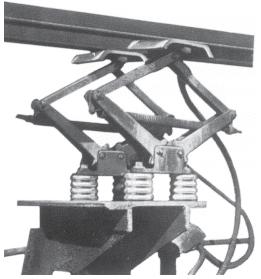
Pantograph Collectors with shoes are used with rigid conductors such as angles, tees and bars on collector systems for slow-speed industrial cranes, particularly where there is much vertical misalignment in the installation.

Tuna	Height in normal	Range of <i>N</i>	Novement
Туре	working position	Up Dowr	
SA	11 ⁷ /8″	3 ⁵ / ₈ ″	3″
KA	16 ¹ / ₄ ″	4″	5″

Features

Collector consists principally of malleable iron parts, the two lower arms being geared together at the base and controlled by a single adjustable tension spring assuring uniform pressure of the contact member on the conductor when running in either direction. Cast iron shoe with carbon inserts used in #46628 and 48287 pantograph collectors has a contact surface of $2^{1}/_{2}$ " x 6" but when equipped with the steel plate assembly the contact surface is increased to 5" x 8". Where there is considerable arcing necessitating more frequent replacement of the contact and excessive horizontal misalignment of the conductor bar, the use of the steel plate is recommended.

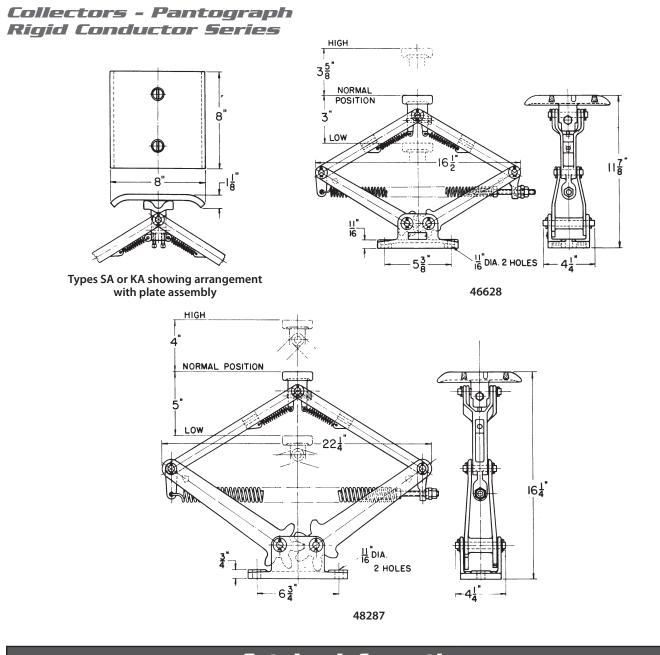
Feeder connections in the #46628 and 48287 pantographs are provided by means of a terminal attached to the contact member. Similar connections in #48480 and 48271 pantographs are made to a ¹/₂" hole with set screws to the casting supporting the contact plate.



Pantograph with contact plate assembly



Type "KA"



	Catalog Information									
Description	Contact Number	*Approx. Current Capacity Amperes	Approx. Wt. Each — Lbs.	Catalog Number						
Pantograph Collector Type SA — with shoe	93121 — Shoe	125	17	46628						
Pantograph Collector Type SA — with plate	48272 — Plate 48321 — Shoe	125	27	48480						
Pantograph Collector Type KA — with shoe	93121 — Shoe	125	29	48287						
Pantograph Collector Type KA — with plate	48272 — Plate 48321 — Shoe	125	39	48271						
* This rating is approxima	te due to variations in	operating conditions, but is based on emp	oloying full contact surface.							

Collectors - Shoe Type For Rigid Conductors

Application

LMI, LM and LMV Collectors listed on the following pages are of the heavy duty type for use on conductor systems with rigid conductors as used on crane runways and similar installations. Underrunning is preferable in installations subject to sleet, snow and dirt conditions.

In areas of excessive dirt contamination, the Type LMV Collector used with an inverted angle conductor is recommended.

Individual types vary in size and style of contact member.

Features

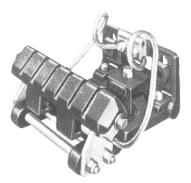
Collectors consist of an assembly of a vertical mounting frame plus a spring loaded arm supporting the contact member. Adjustable spring assures proper contact with the conductor and may be varied to meet the particular working conditions.

Types LMI, LM Pony and LM Standard are assembled in the factory for either overrunning or underrunning service. Correct catalog number should be selected from the listing shown on the following pages. Mounting frame is provided with a corrugated surface around an elongated slot interlocking with a corrugated washer for vertical adjustment.

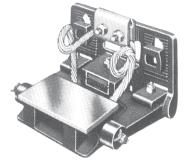
Feeder connections are made to a bronze solderless connector on the mounting frame. Flexible copper cable connects the terminal lug and the contact member, thus bridging and bonding the hinged portion.

Replaceable contact member on all styles with the exception of the LMV, are reversible, thereby providing increased life. These contact members have a swiveling action to allow for any slight misalignment in the conductor.

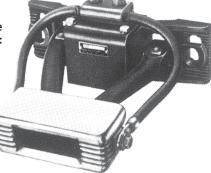
Replaceable contact members and insulators for mounting these collectors are available. A Polyester fiberglass insulator is generally preferred for this application. Comparative features of each series are shown or page 21. LMV Pony Generally used on the following conductors: 2" or 2¹/₂" angles



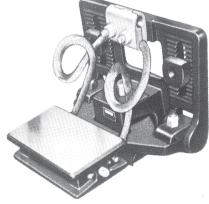
LM Pony Generally used on the following conductors: tees and angles 30 lbs. rail or under



LMI Pony Generally used on the following conductors: tees and angles 30 lb. rails or under



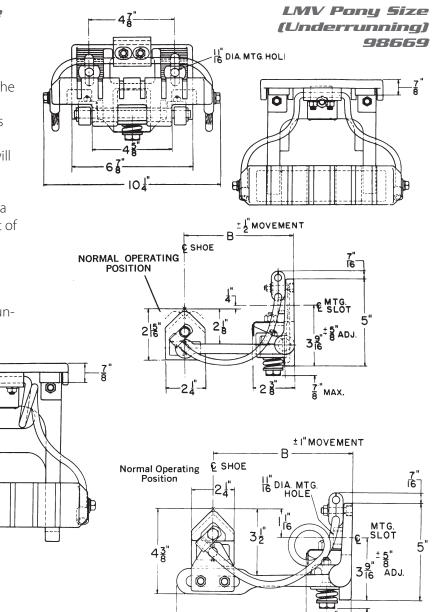
LM Standard Generally used on the following conductors: tees and angles 40 lbs. rail or above

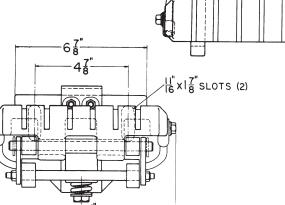


Collectors - Shoe Type For Rigid Conductors LMV Pony Size

Features

LMV Collectors are designed for use where the contact rail consists of an inverted "V" angle, either 2" x 2" or 2¹/₂" x 2¹/₂". Contact members are provided with self cleaning grooves so much of any foreign matter accumulating will be dislodged and will drop away from the contact surface. 98669 LMV collector is provided with a contact member which allows a horizontal movement of 1" for misalignment of the conductor. 98911 is similar in design except it is provided with an added plate construction, so arranged to provide a 2" horizontal movement where excessive misalignment of the conductor system is encountered.





LMV Pony Size (Underrunning) 98911

93

28

78

MAX.

Catalog Information									
Description	Extension	Horizontal	Contact	*R	ange	Net Wt.	Catalog		
Description	B Movement	Member	Up	Down	Each — Lbs.	Number			
LMV Collector — Underrunning	61/8″	1″	92930	³ /4″	1 ³ /8″	14.25	98669		
LMV Collector — Underrunning	7 ³ / ₈ ″	1 ⁵ /8″	92930	1″	1 ⁵ /8″	17.75	98911		
* Range measurements apply to the	vortical rango w	vith the collector	in a horizont	al position	and moacu	od from the point	t at the contor of		

* Range measurements apply to the vertical range with the collector in a horizontal position and measured from the point at the center of the member.

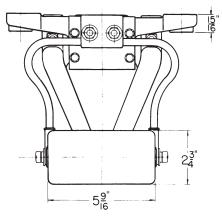
† When ordering, specify by catalog number.

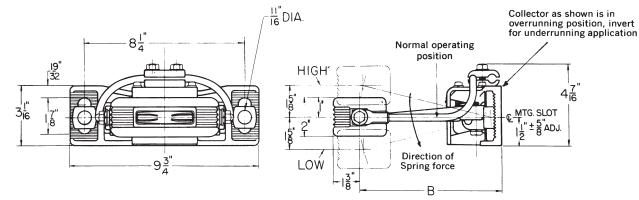
104

Collectors - Shoe Type For Rigid Conductors LMI Pony Size

Features

LMI Collector has been designed with a short overall height to conserve vertical space in multiple collector installations. Open center design and fins provide a large radiating surface, high overload capacity and a minimum of weight moving part. LMI Pony Size 95659 (Overrunning) 95660 (Underrunning)





Catalog Information									
Description	Extension	Contact	*Ra	nge	Net Wt.	Catalog			
Description	В	Member	Up	Down	Each — Lbs.	Number			
LMI Collector — Overrunning	7³/8″	88810	1 ⁵ /8″	1 ⁵ /8″	16	95659			
LMI Collector — Underrunning	7 ³ /8″	88810	1 ⁵ /8″	1 ⁵ /8″	16	95660			

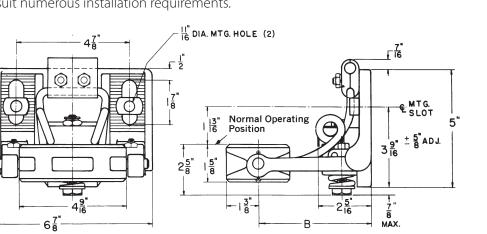
* Range measurements apply to the vertical range with the collector in a horizontal position and measured from the point at the center of the member.

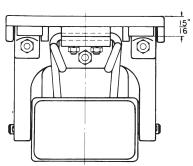
† When ordering, specify by catalog number.

Collectors - Shoe Type For Rigid Conductors LM Pony Size

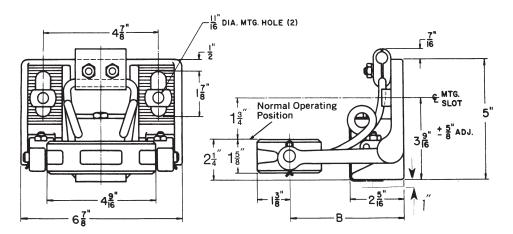
Features

LM Pony and the LM Standard are similar in design, the LM Standard series being roughly twice the size of the LM Pony series and consequently has twice the current carrying capacity. Detailed characteristics of the two types are shown in this section. LM Standard series has a larger range of arm extension to suit numerous installation requirements.





LM Pony Size (Underrunning) 98637 98634



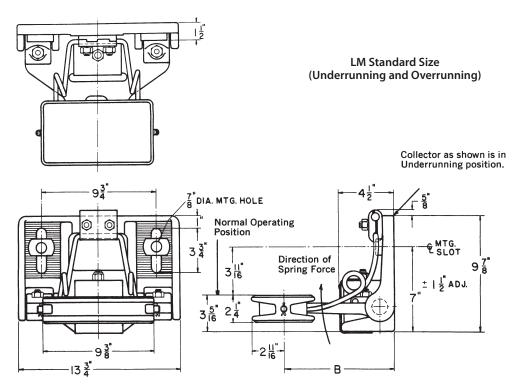
LM Pony Size (Overrunning) 76512 76514

Catalog Information									
Description	Extension	Contact	*Range		Net Wt.	Catalog			
Description	В	Member	Up	Down	Each — Lbs.	Number			
LM Pony — Underrunning	4 ¹⁵ / ₁₆ "	45650	⁵ / ₈ ″	1″	12	98637			
LM Pony — Overrunning	4 ¹⁵ / ₁₆ "	45650	1″	⁵ /8″	12	76512			
LM Pony — Underrunning	7 ³ / ₈ ″	45650	1″	1 ⁵ / ₈ ″	13	98634			
LM Pony — Overrunning	7 ³ / ₈ ″	45650	15/8″	1″	13	76514			
[¢] Range measurements apply to the vertical range with the collector in a horizontal position and measured from the point at the center of the member.									

Collectors - Shoe Type For Rigid Conductors LM Standard Size

Features

LM Pony and the LM Standard are similar in design, the LM Standard series being roughly twice the size of the LM Pony series and consequently has twice the current carrying capacity. Detailed characteristics of the two types are shown in this section. LM Standard series has a larger range of arm extension to suit numerous installation requirements.



Description	Extension B	Contact Member	*Range		Net Wt.	Catalog
			Up	Down	Each — Lbs.	Number
LM Standard — Underrunning	9 ⁵ / ₁₆ "	45715	1″	1 ¹ / ₄ "	67	45712
LM Standard — Overrunning	9 ⁵ / ₁₆ "	45715	1 ¹ / ₄ "	1″	67	76507
LM Standard — Underrunning	1013/16″	45715	1 ¹ / ₄ "	1 ³ / ₈ ″	69	45713
LM Standard — Overrunning	1013/16″	45715	1 ³ /8″	1 ¹ / ₄ "	69	76508
LM Standard — Underrunning	12 ⁵ /16″	45715	1 ¹ / ₂ "	1 ³ / ₄ "	71	45714
LM Standard — Overrunning	12 ⁵ / ₁₆ ″	45715	1 ³ /4″	1 ¹ / ₂ "	71	76509
LM Standard — Underrunning	15 ¹ / ₁₆ "	45715	17/8″	2 ¹ / ₂ "	75	48474
LM Standard — Overrunning	15 ¹ / ₁₆ "	45715	2 ¹ / ₈ "	2 ¹ / ₈ "	75	76510

Collectors - Shoe Type For Rigid Conductors Type PS Collector

Application

Type PS Collector with its exceedingly heavy construction is adaptable for severe service on pushing machines and quenching locomotives in coke oven operation.

Features

Collector consists primarily of rugged cast iron assembly, the extension arm is made from ductile iron designed to provide a pantograph action whereby the shoe contact member is always in line with the rail regardless of any normal amount of vertical or horizontal misalignment of either the contact or the running rails or both.

Heavy compression spring assures uniform pressure of the contact member on the conductor. A dust cover is provided to protect against contamination.

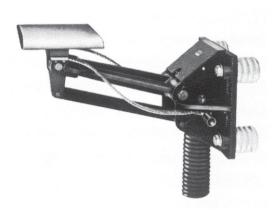
Main fulcrum points of the assembly are provided with bearings and the main shaft bearing is in addition provided with an oil cup.

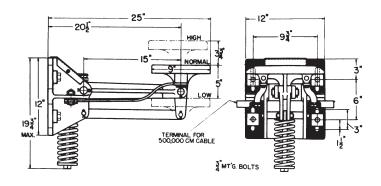
Large replaceable shoe has a smooth contact surface of about $9'' \times 9''$. It is provided with two flexible braided copper shunts, each of which is provided with feeder terminals for 500 MCM cable.

Type PS collectors are supplied with four mounting holes. They can be mounted on four #89791 insulators .

Provision is made for vertical adjustment of the mounting height by means of a corrugated surface around an elongated mounting slot plus interlocking corrugated washers under the mounting bolts.

Replaceable contact members are available.





Catalog Information					
Description	Contact Member	*Approx. Current Rating Amperes	Net Wt. Each — Lbs.	Catalog Number	
Type PS Underrunning Collector	77864	750 Constant 1500 Intermittent	185	75745	
* Current carrying capacities are approximate as they depend upon conditions of installation such as speed, contact pressure, frequency of use, cleanliness of surfaces, etc.					

Collectors - Shoe Type For Rigid Conductors

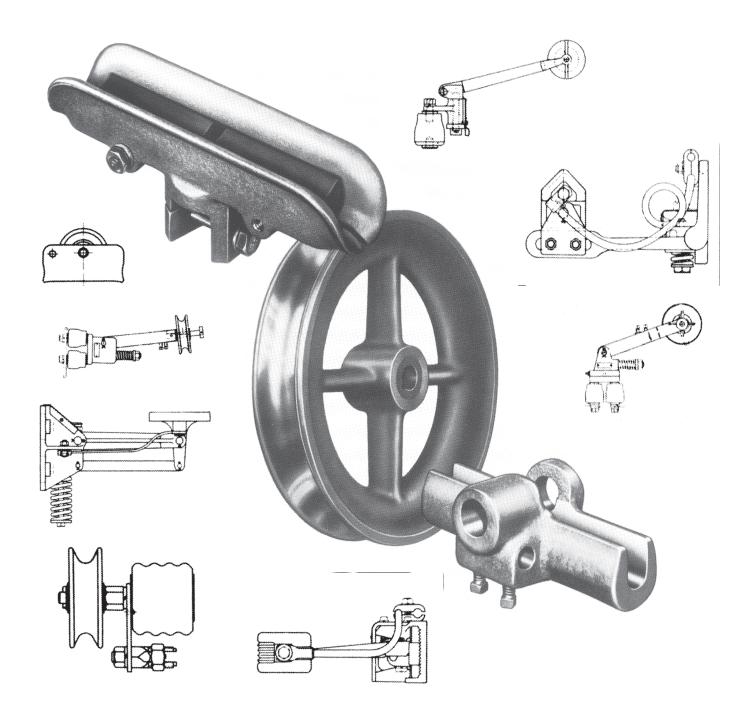
Comparison Chart					
	LMV Pony Series	LMI Pony Series	LM Pony Series	LM Standard Series	
Approx. Current Capacity (Amperes) Average Conditions					
• Continuous Load	300	250	250	550	
 Intermittent Load 	600	500	500	1000	
Contact Member	Two Contact Surfaces, each 1 ¹ / ₂ " x 9" including cleaning grooves. Cast Iron. Non-reversible.	Contact Surface 2 ³ /4" x 5 ⁹ /16" Cast Iron. Copper Coated. Reversible.	Contact Surface 2 ¹ / ₂ " x 4 ¹ / ₂ " Cast Iron. Reversible.	Contact Surface 5" x 9" Cast Iron Reversible.	
Bronze Cable Terminals	Adjustable for wire diameters .414" to .528.	Adjustable for wire diameters .414" to .528.	Adjustable for wire diameters .414" to .528.	Adjustable for wire diameters .536" to .772.	
Service	Underrunning	Under or Overrunning	Under or Overrunning	Under or Overrunning	
Height of Mounting Back	5″	3 ¹ / ₁₆ "	5″	9 ⁷ / ₈ ″	
Vertical Adjustment of Corrugated Mounting Washer	1 ¹ / ₄ ″	1 ¹ / ₄ ″	1 ¹ / ₄ ″	3″	
Mounting Bolt Diam. (Not Included with Collectors)	⁵ / ₈ ″	⁵ / ₈ ″	⁵ / ₈ ″	3/4″	
(Mounting Bolt Length depends on Mounting conditions.) Thickness of back and corrugated washer	¹⁵ / ₁₆ ″	¹⁵ / ₁₆ ″	¹⁵ / ₁₆ ″	11/2″	

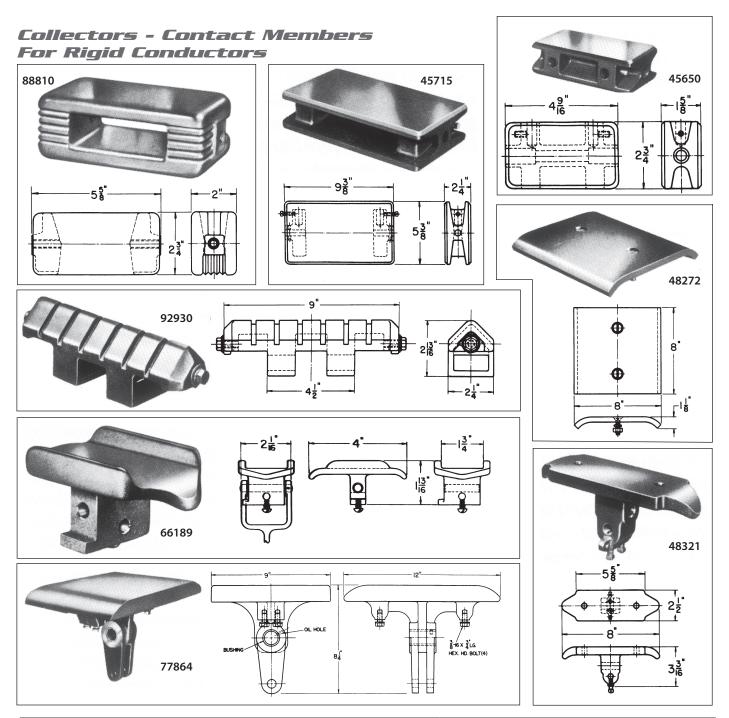
Collectors - Contact Members For Rigid or Wire Conductors

Applications

The replaceable contacts for rigid or wire conductors in this section are those used with collectors previously listed.

Ratings are shown with the collectors. Bronze contacts in place of cast iron contacts are available in most sizes.





Catalog Information				
Description	Used on Collector	Net Wt. Each — Lbs.	Catalog Number	
Cast Iron — Reversible Shoe	LMI — 95659, 95660	5.75	88810	
Cast Iron — Reversible Shoe	LM Pony — 76512, 44276, 76514, 45674	3.125	45650	
Cast Iron — Reversible Shoe	LM Standard—45712, 76507, 45713, 76508, 45714, 76509, 48474, 76510	18.75	45715	
Cast Iron — Shoe	LMV — 67388, 78514, 98911, 986510	5.50	92930	
Cast Iron — Shoe	PS — 72446, 75745	40.50	77864	
Cast Iron — Support Only	Pantograph — 48480, 48271	13.00	48321	
Steel plate contact for Cat. No. 48321	Pantograph — 48480, 48271	4.00	48272	
Cast Bronze Shoe	Junior — 66188, 67263	1.25	66189	

8"-94654 94659 64 2늘 Γź U <u>ie</u> 9' 9" DIA. 5 BOLT 님 8"-94770 7<u>1</u> 14 जि <u>9"</u> 15"-5" BOLT 8"-٦' 94660 6<u>1</u>" 2; 46162 115 31 0 Π -1<mark>9</mark>"-13 8" 93121 3<u>3</u> 3<u>4</u> DIA. 21rzDIA. 6" υ Ľļ 32 7 θ 3 BOLT H |<u>↓</u> → 15 12" 94094 54 6

Collectors - Contact Members For Rigid Conductors

Catalog Information				
Description	Used on Collector	Net Wt. Each — Lbs.	Catalog Number	
Cast Iron Shoe with Carbon Inserts	Universal — 46192, Pantograph — 46628, 48287	4.00	93121	
Bronze Wheel	Universal — 46227	2.25	46162	
Cast Iron Shoe with Carbon Inserts	Universal — 94060, 94102	4.25	94654	
Cast Iron Shoe with Carbon Inserts	Universal — 92868, 94103	2.00	94770	
Cast Iron Shoe with Carbon Inserts	Universal — 94106	5.25	94660	
Cast Iron Shoe	Universal — 94058	3.40	94659	
Cast Iron Shoe	Universal — 94059	7.00	94094	

3 BOLT (2)

Collectors - Contact Members For Wire Conductors





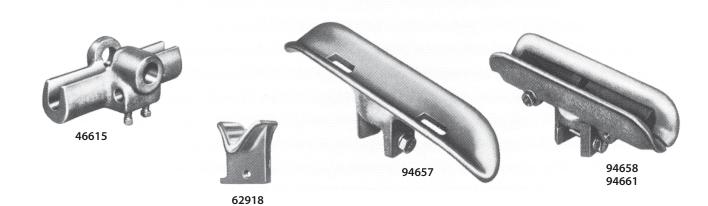
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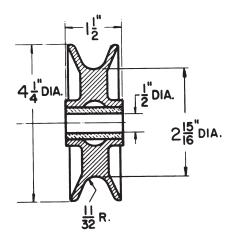


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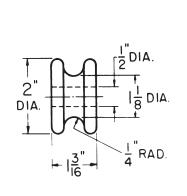


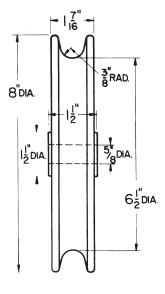
Catalog Information				
Description	Used on Collector	Net Wt. Each — Lbs.	Catalog Number	
Bronze Wheel — Spoked	46199, 46211 Universal 70545 Type PW, 46516 Pantograph	1.88	18897	
Bronze Wheel — Solid	46492 Type BW	.69	46488	
Bronze Wheel — Spoked	70086 Pantograph	7.13	48384	
Bronze Wheel — Solid	60036, 60141 Junior	.88	60047	
Bronze Shoe	46491 Type BV	1.81	46615	
Bronze Shoe	62920, 60141 Junior	2.25	62918	
Bronze Shoe	93148 Universal	2.38	94657	
Bronze Shoe with Standard Inserts	92944 Universal	2.69	94658	
Bronze Shoe with High Capacity Inserts	94136 Universal	3.63	94661	
Standard renewable contact only	92944	.13	88321	
High Capacity renewable contact only	94136	.44	88597	

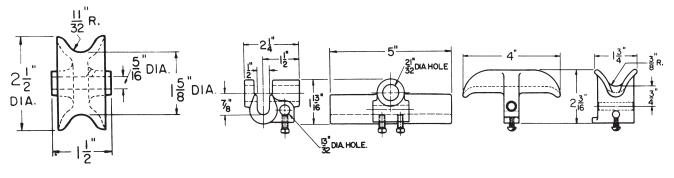


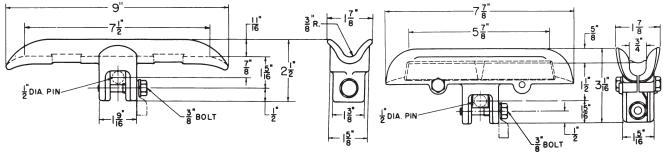
For Wire Conductors

Collectors - Contact Members









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