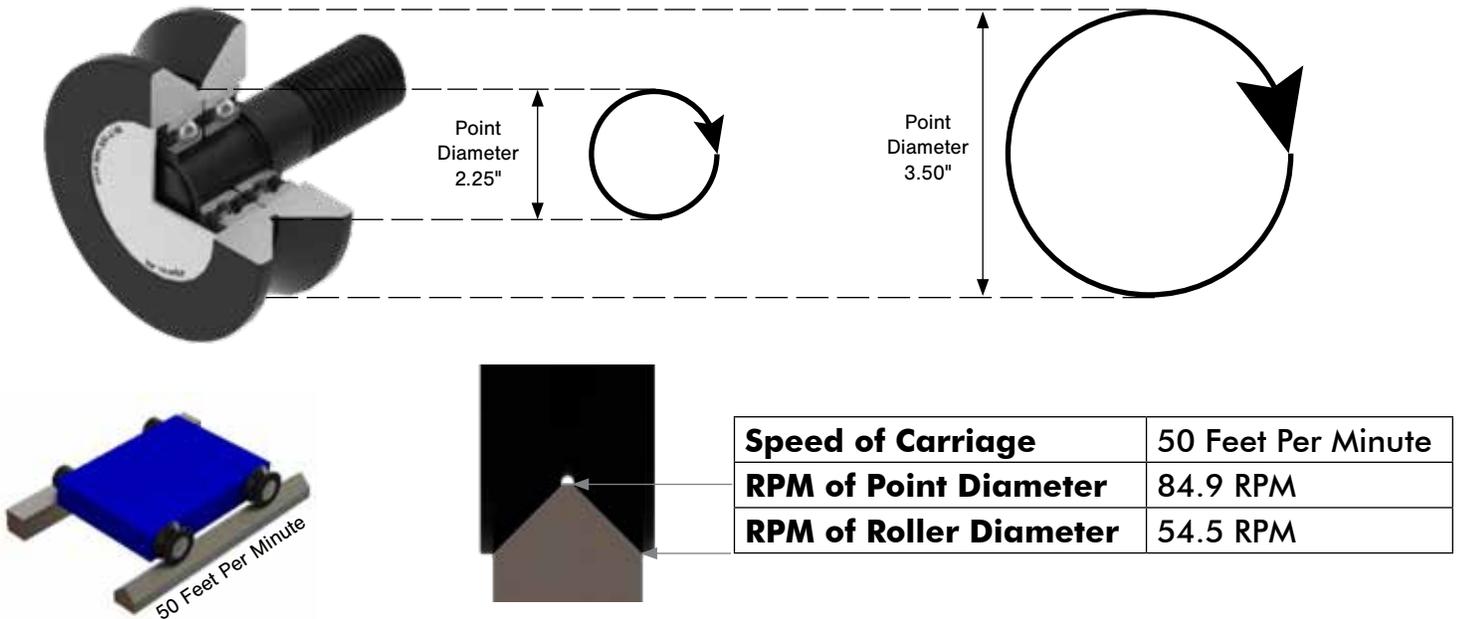


PCI has been developing Load Bearing Roller Assembly solutions for nearly 40 years. An integral part of our success has been our commitment to understanding the ever-changing needs of our valued customers and developing solutions that turn application hurdles into success stories. Our constant drive to provide solutions by innovating far beyond the product has fueled the development of our CVTR-Crown V-Groove Track Rollers. PCI's patented design addresses performance problems associated with traditional V-Groove Track Roller products to maximize performance and decrease maintenance costs.

SCRUBBING

Traditional V-Groove Roller designs are well suited for dirty environments and applications with needs for accurately locating the carriage or mounted assembly. The problem with traditional V-Groove designs is the friction between the flat tread surfaces and the rail due to a speed differential. The largest diameter on the tread of the v-groove has a larger circumference than the smaller point diameter. This difference in circumferences creates a surface speed differential during operation thereby creating a scrubbing effect.



UNDESIRABLE EFFECTS OF SCRUBBING

INCREASED WEAR

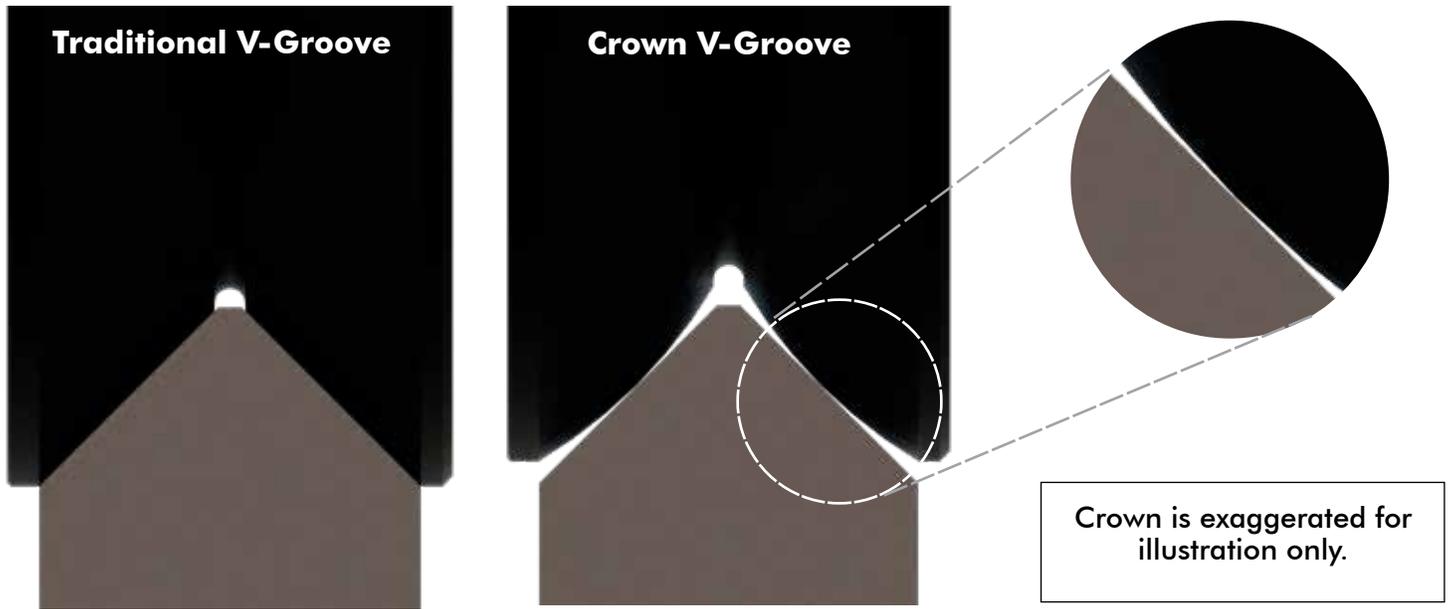
The speed differential on the tread surface induces scrubbing, which creates friction between the contact surfaces of the roller and rail. While scrubbing may prove beneficial in dirty environments by assisting in keeping the track clean, the effect of scrubbing causes wear on the surfaces of both the roller body and rail, of which the softer surface will degrade faster.

ADDED ROLLING RESISTANCE

The added friction between the tread and rail surfaces also increases the difficulty to start and support the movement of the carriage or trolley under heavy loads. Often additional energy is required to overcome this resistance and maintain speed and momentum. If the carriage movement is manually powered, the added rolling resistance can pose a safety concern. If electrically or mechanically powered, the added rolling resistance increases energy and operating costs.

THE CVTR ROLLER – CROWN V-GROOVE TRACK ROLLERS WITH R3 TECHNOLOGY

PCI's CVTR Track Rollers address the performance issues associated with traditional V-Groove Track Roller designs by incorporating our patented R3 technology into the design. The R3 (Reduced Rolling Resistance) technology significantly reduces the friction between the roller and track surface thereby decreasing scrubbing damage and energy costs.



CROWN V-SHAPE REDUCES SCRUBBING

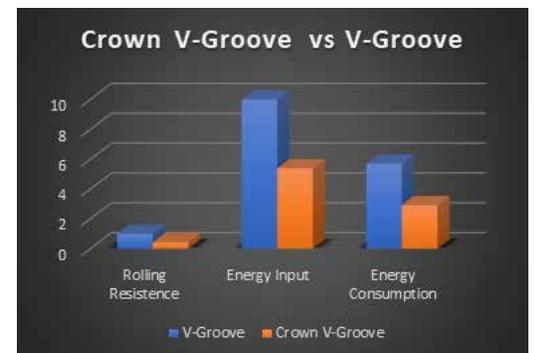
Reducing the contact between the roller body and the rail to a single point reduces the development of friction due to rolling speed differentials. Because the friction is essentially eliminated, the negative effect of scrubbing is minimized. The CVTR roller maximizes the wear life of both surfaces.

REDUCED ROLLING RESISTANCE

Reducing the contact between the roller body and the rail to a single point also significantly reduces the amount of effort required to move the carriage or trolley assembly. The patented design of the CVTR roller reduces the rolling resistance 2.34 times from what a traditional V-Groove would need.

PROVEN PERFORMANCE

Under the demands of a trial application, the CVTR design proved to reduce rolling resistance by 2.34 times that of a traditional V-Groove unit resulting in a 50% reduction in input energy and required half of the energy to keep the trolley moving at a consistent speed.



*The above trial was conducted with a CVTR-2.00 and VTR-2.00 running at 25 ft/min under a 250lb load.

CROWNED V-BODY PROFILE

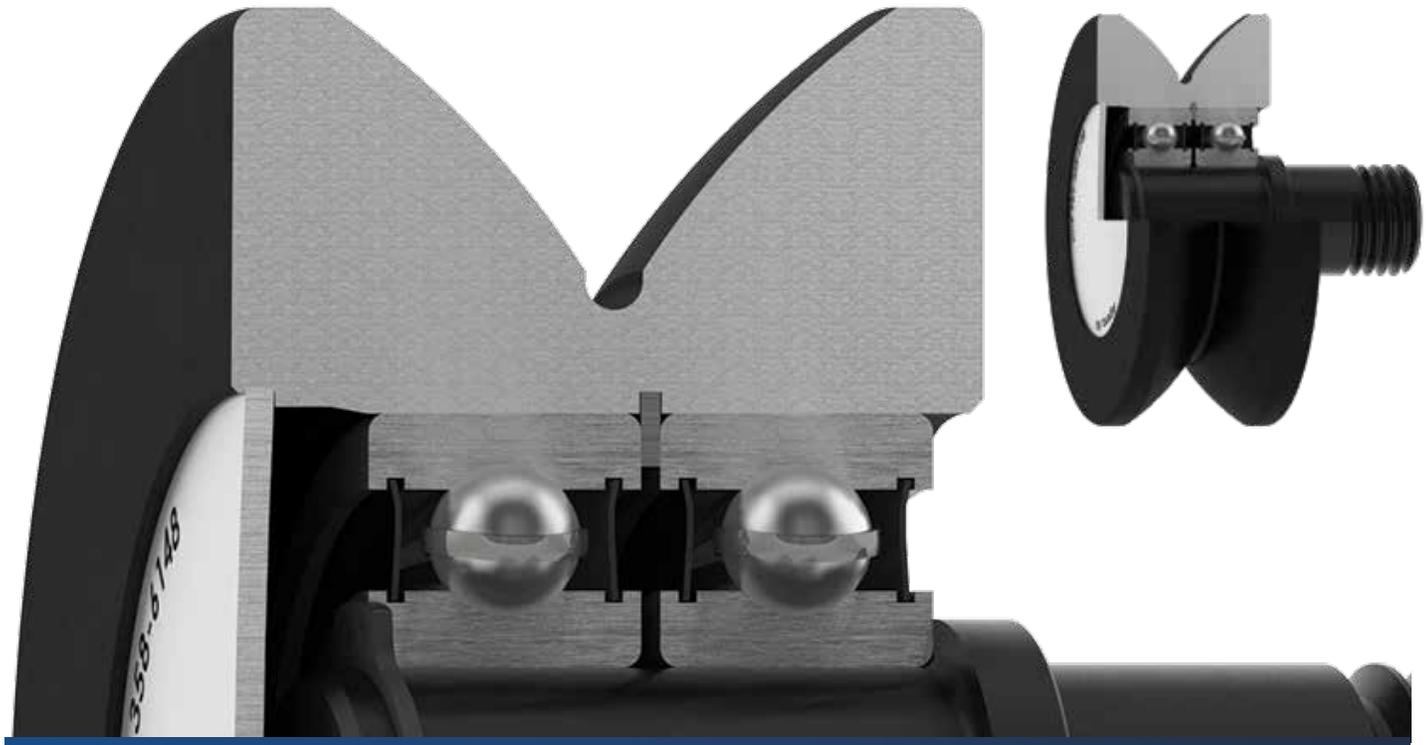
with R³™ design not only accommodates angled track use for thrust loads, but provides compact bi-axial guidance, reducing the need for increased roller diameters and/or full system redesign.

CROWNED DUAL DIRECTION

location provides energy savings with 2.34 times reduced rolling resistance and decreases track wear while shedding debris.

CV-SHAPE REDUCES SCRUBBING

while still maintaining a minimal distance which replicates the self-cleaning effect of traditional V-Rollers.



**BLACK OXIDE FINISHED
CASE HARDENED
PRECISION ROLLER BODY** maintains assembly integrity by preventing premature fracture under shock loads.

**TIGHT FIT STAINLESS STEEL
DUST COVER** adds protection against direct spray and contamination (stud type).

**NITRILE RUBBER DUAL
LIP SEALS** aid with lubricant retention and incorporate multifaceted contact points to exclude contaminants. These superior designs result in maximum protection of the bearing elements.

**PRECISION DEEP GROOVE
BALL BEARINGS** perform under high speeds and light to moderate combination loads.

**PREMIUM SYNTHETIC
LUBRICANT** resists break down to minimize downtime.

STRESSPROOF® STUD is high strength material providing dependable performance under load.

CROWNED V-BODY PROFILE

with R³™ design not only accommodates angled track use for thrust loads, but provides compact bi-axial guidance, reducing the need for increased roller diameters and/or full system redesign.

CROWNED DUAL DIRECTION

location provides energy savings with 2.34 times reduced rolling resistance and decreases track wear while shedding debris.

CV-SHAPE REDUCES SCRUBBING

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**NITRILE RUBBER DUAL
LIP SEALS** aid with lubricant retention and incorporate multifaceted contact points to exclude contaminants. These superior designs result in maximum protection of the bearing elements.

**MATCHED SET OF TAPERED
ROLLER BEARINGS** ensure maximum thrust load paired with moderate radial load capacity in a precision bearing package.

**PREMIUM SYNTHETIC
LUBRICANT** resists break down to minimize downtime.

STRESSPROOF® STUD is high strength material providing dependable performance under load.



Solutions Through Innovation

CVTR – TRACK ROLLERS

Crowned V-Groove Stud Type – Concentric Ball & Tapered Roller Bearings

∞ | Infinity Roller™ Technology

U.S. Patent Number 11,215,224

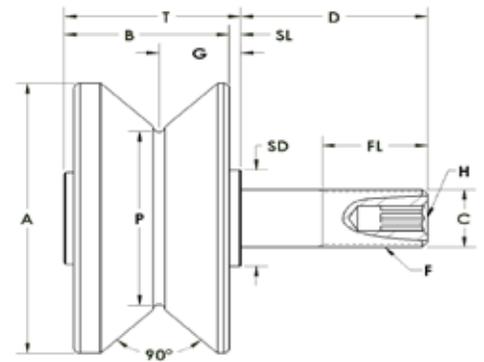
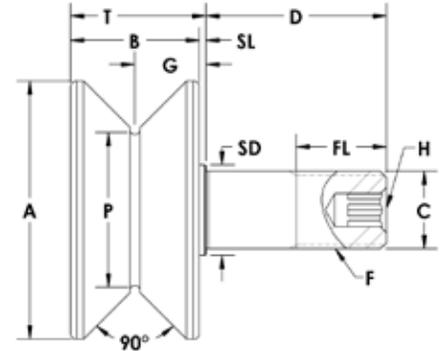
STUD TYPE TRACK ROLLER PART NUMBER	A	B	C	D	F	FL	G	H	P	SD	SL	T
	ROLLER		STUD		THREAD		Groove Center	Hex Size	Point Dia. +.000 -.001	SHOULDER		
	Dia. +.000 -.001	Width	Dia.	Len.	Size	Len.				Dia.	len.	Roller Width + Len.
CVTR-1.50	1.50	0.75	0.437	1.00	7/16 - 20	0.50	0.39	3/16	1.125	0.5	0.03	0.78
CVTR-2.00	2.00	0.81	0.500	1.25	1/2 - 20	0.63	0.42	3/16	1.375	0.6	0.03	0.84
CVTR-2.50	2.50	1.25	0.750	1.75	3/4 - 16	0.88	0.69	5/16	1.500	0.9	0.06	1.31
CVTR-3.50	3.50	1.63	0.875	2.00	7/8 - 14	1.13	0.88	5/16	2.250	1.0	0.06	1.69
CVTR-3.50E*	3.50	1.65	0.750	2.00	3/4 - 16	1.13	0.88	5/16	2.250	0.9	0.13	1.90†
CVTR-4.50A	4.50	1.94	1.250	2.50	1 1/4 - 12	1.75	1.00	1/2	3.000	1.5	0.06	2.00
CVTR-4.50	4.50	1.94	1.250	2.50	1 1/4 - 12	1.75	1.00	1/2	3.000	1.8	0.06	2.00
CVTR-5.50A	5.50	1.94	1.250	2.75	1 1/4 - 12	1.75	1.00	1/2	4.000	1.5	0.06	2.00
CVTR-5.50	5.50	1.94	1.250	2.75	1 1/4 - 12	1.75	1.00	1/2	4.000	1.8	0.06	2.00
CVTR-6.50	6.50	2.94	2.000	4.50	2 - 12	2.50	1.50	5/8	5.000	3.0	0.06	3.00
CVTR-7.50	7.50	2.94	2.500	5.50	2 1/2 - 12	3.25	1.50	5/8	6.000	3.5	0.06	3.00
CVTR-8.50	8.50	2.94	2.500	5.50	2 1/2 - 12	3.25	1.50	5/8	7.000	3.5	0.06	3.00



PCI's standard part number features ∞Infinity Roller™ Technology to target and address the most vulnerable areas of the assembly

*CVTR-3.50E is designed with stud extending 7/64" from end of roller

†Design does not incorporate a dust cover



CVTR 3.50E



Solutions Through Innovation

CVTR – TRACK ROLLERS

Crowned V-Groove Stud Type – Concentric Ball & Tapered Roller Bearings

∞ | **Infinity Roller™ Technology**

U.S. Patent Number 11,215,224

STUD TYPE TRACK ROLLER PART NUMBER	Basic Radial Dynamic Load Rating (Lbf) C	Basic Radial Static Load Rating (Lbf) Co	Thrust Dynamic Load Rating (lbf)	Thrust Static Load Rating (lbf)	Max Speed Rating (rpm)	Stud Capacity (Lbf)	Retaining Ring Capacity (Lbf)	Max. Clamping Torque (In-Lbf)*	Seal Type	Bearing Type	Approx. Roller Weight (Lbs)
CVTR-1.50	860	430	220	110	20,000	870	470	180	NBR Lip	PREMIUM DGBB	0.33
CVTR-2.00	1,430	750	360	190	20,000	1,230	470	180	NBR Lip	PREMIUM DGBB	0.56
CVTR-2.50	2,660	1,400	670	350	19,000	1,390	550	650	NBR Lip	PREMIUM DGBB	1.31
CVTR-3.50	4,920	2,950	2,460	1,480	19,000	5,370	1,340	650	NBR Lip	PREMIUM DGBB	3.44
CVTR-3.50E	15,040	14,400	4,520	7,390	3,750	4,200	-	1,500	NBR Dual Lip	PREMIUM TRB	3.40
CVTR-4.50A	7,400	5,040	3,700	2,520	8,000	22,200	1,950	1,500	NBR Lip	PREMIUM DGBB	6.68
CVTR-4.50	17,940	20,000	7,410	14,120	2,490	17,080	-	1,500	NBR Dual Lip	PREMIUM TRB	6.88
CVTR-5.50A	7,400	5,040	3,700	2,520	8,000	22,200	1,950	1,500	NBR Lip	PREMIUM DGBB	10.82
CVTR-5.50	17,940	20,000	7,410	14,120	2,490	17,080	-	1,500	NBR Dual Lip	PREMIUM TRB	11.04
CVTR-6.50	38,060	58,400	14,350	37,660	1,550	43,630	-	1,500	NBR Dual Lip	PREMIUM TRB	27.42
CVTR-7.50	37,990	56,200	15,320	38,740	1,250	85,210	-	1,500	NBR Dual Lip	PREMIUM TRB	39.14
CVTR-8.50	37,990	56,200	15,320	38,740	1,250	85,210	-	1,500	NBR Dual Lip	PREMIUM TRB	48.68



NOTE:

PCI's standard part offering features ∞ | **Infinity Roller™ Technology.**

This innovation targets and addresses the most vulnerable areas of the assembly outlasting all competitive products on the market.

*For lubricated threads, use half the maximum clamping torque value shown.

SEAL TYPE:

NBR: Nitrile Butadiene Rubber

BEARING TYPES:

DGBB: Deep Groove Ball Bearings - Alloy Steel

TRB: Tapered Roller Bearings - Alloy Steel

Grease Fittings, Jam Nut & Lock Washer sets are available at an additional cost.

Specifications subject to change without notice.



Solutions Through Innovation

CVTR-R – TRACK ROLLERS

Crowned V-Groove Stud Type – Concentric Ball & Tapered Roller Bearings - Regreasable

∞ | Infinity Roller™ Technology

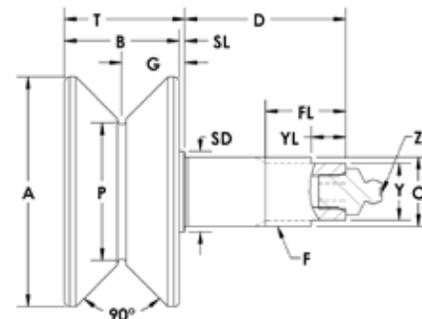
U.S. Patent Number 11,215,224

STUD TYPE TRACK ROLLER PART NUMBER	A	B	C	D	F	FL	G	H	P	SD	SL	T	Y	YL	Z
	ROLLER		STUD		THREAD		Groove Center	Hex Size	Point Dia. +0.000 -0.001	SHOULDER			WRENCH		Lube Size
	Dia. +0.000 -0.001	Width	Dia.	LEN.	Size	LEN.				Dia.	Len.	Roller Width + Shoulder Length	Flat	Flat Len.	
CVTR-1.50-R	1.50	0.75	0.437	1.00	7/16 - 20	0.50	0.39	-	1.125	0.5	0.03	0.78	0.312	0.250	1/8 Drive
CVTR-2.00-R	2.00	0.81	0.500	1.25	1/2 - 20	0.63	0.42	-	1.375	0.6	0.03	0.84	0.375	0.250	1/8 Drive
CVTR-2.50-R	2.50	1.25	0.750	1.75	3/4 - 16	0.88	0.69	-	1.500	0.9	0.06	1.31	0.625	0.375	1/8-27 NPT
CVTR-3.50-R	3.50	1.63	0.875	2.00	7/8 - 14	1.13	0.88	-	2.250	1.0	0.06	1.69	0.625	0.375	1/8-27 NPT
CVTR-3.50E-R*	3.50	1.65	0.750	2.00	3/4 - 16	1.13	0.88	5/16	2.250	0.9	0.13	1.90†	-	-	1/4-28 UNF
CVTR-4.50A-R	4.50	1.94	1.250	2.50	1 1/4 - 12	1.75	1.00	5/8	3.000	1.5	0.06	2.00	-	-	1/4-28 UNF
CVTR-4.50-R	4.50	1.94	1.250	2.50	1 1/4 - 12	1.75	1.00	5/8	3.000	1.8	0.06	2.00	-	-	1/4-28 UNF
CVTR-5.50A-R	5.50	1.94	1.250	2.75	1 1/4 - 12	1.75	1.00	5/8	4.000	1.5	0.06	2.00	-	-	1/4-28 UNF
CVTR-5.50-R	5.50	1.94	1.250	2.75	1 1/4 - 12	1.75	1.00	5/8	4.000	1.8	0.06	2.00	-	-	1/4-28 UNF
CVTR-6.50-R	6.50	2.94	2.000	4.50	2 - 12	2.50	1.50	5/8	5.000	3.0	0.06	3.00	-	-	1/4-28 UNF
CVTR-7.50-R	7.50	2.94	2.500	5.50	2 1/2 - 12	3.25	1.50	5/8	6.000	3.5	0.06	3.00	-	-	1/4-28 UNF
CVTR-8.50-R	8.50	2.94	2.500	5.50	2 1/2 - 12	3.25	1.50	5/8	7.000	3.5	0.06	3.00	-	-	1/4-28 UNF

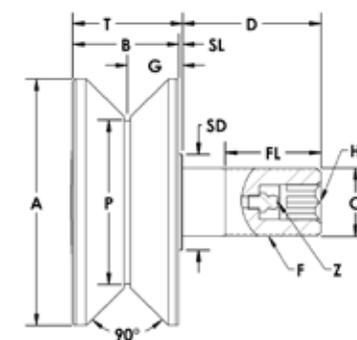
PCI's standard part number features ∞Infinity Roller™ Technology to target and address the most vulnerable areas of the assembly

*CVTR-3.50E-R is designed with stud extending 7/64" from end of roller

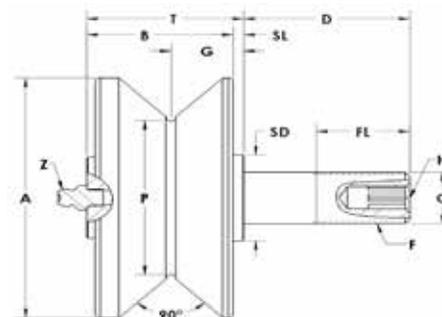
†Design does not incorporate a dust cover



THROUGH CVTR 3.50R



CVTR 4.50" ROLLER DIA. AND LARGER



CVTR 3.50E-R



Solutions Through Innovation

CVTR-R – TRACK ROLLERS

Crowned V-Groove Stud Type – Concentric Ball & Tapered Roller Bearings - Regreasable

∞ | **Infinity Roller™ Technology**

U.S. Patent Number 11,215,224

STUD TYPE TRACK ROLLER PART NUMBER	Basic Radial Dynamic Load Rating (Lbf) C	Basic Radial Static Load Rating (Lbf) Co	Thrust Dynamic Load Rating (lbf)	Thrust Static Load Rating (lbf)	Max Speed Rating (rpm)	Stud Capacity (Lbf)	Retaining Ring Capacity (Lbf)	Max. Clamping Torque (In-Lbf)*	Seal Type	Bearing Type	Approx. Roller Weight (Lbs)
CVTR-1.50-R	860	430	220	110	20,000	870	470	180	NBR Lip	PREMIUM DGGB	0.33
CVTR-2.00-R	1,430	750	360	190	20,000	1,230	470	180	NBR Lip	PREMIUM DGGB	0.56
CVTR-2.50-R	2,660	1,400	670	350	19,000	1,390	550	650	NBR Lip	PREMIUM DGGB	1.31
CVTR-3.50-R	4,920	2,950	2,460	1,480	19,000	5,370	1,340	650	NBR Lip	PREMIUM DGGB	3.44
CVTR-3.50E-R	15,040	14,400	4,520	7,390	3,750	4,200	-	1,500	NBR Dual Lip	PREMIUM TRB	3.40
CVTR-4.50A-R	7,400	5,040	3,700	2,520	8,000	22,200	1,950	1,500	NBR Lip	PREMIUM DGGB	6.85
CVTR-4.50-R	17,940	20,000	7,410	14,120	2,490	17,080	-	1,500	NBR Dual Lip	PREMIUM TRB	6.88
CVTR-5.50A-R	7,400	5,040	3,700	2,520	8,000	22,200	1,950	1,500	NBR Lip	PREMIUM DGGB	10.82
CVTR-5.50-R	17,940	20,000	7,410	14,120	2,490	17,080	-	1,500	NBR Dual Lip	PREMIUM TRB	11.04
CVTR-6.50-R	38,060	58,400	14,350	37,660	1,550	43,630	-	1,500	NBR Dual Lip	PREMIUM TRB	27.42
CVTR-7.50-R	37,990	56,200	15,320	38,740	1,250	85,210	-	1,500	NBR Dual Lip	PREMIUM TRB	39.14
CVTR-8.50-R	37,990	56,200	15,320	38,740	1,250	85,210	-	1,500	NBR Dual Lip	PREMIUM TRB	48.68



NOTE:

PCI's standard part offering features ∞ | **Infinity Roller™ Technology.**

This innovation targets and addresses the most vulnerable areas of the assembly outlasting all competitive products on the market.

*For lubricated threads, use half the maximum clamping torque value shown.

SEAL TYPE:

NBR: Nitrile Butadiene Rubber

BEARING TYPES:

DGGB: Deep Groove Ball Bearings - Alloy Steel

TRB: Tapered Roller Bearings - Alloy Steel

Grease Fittings, Jam Nut & Lock Washer sets are available at an additional cost.

Specifications subject to change without notice.



Solutions Through Innovation

CVTRE - TRACK ROLLERS

Crowned V-Groove Stud Type - Eccentric Ball & Tapered Roller Bearings

∞ | **Infinity Roller™ Technology**

U.S. Patent Number 11,215,224

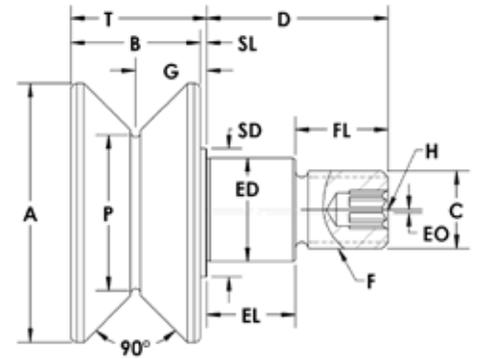
STUD TYPE TRACK ROLLER PART NUMBER	A	B	C	D	ED	EL	EO	F	FL	G	H	P	SD	SL	T
	ROLLER		STUD		ECC			THREAD		Groove Center	Hex Size	Point Dia. +0.000 -0.001	SHOULDER		Roller Width + Shoulder Len.
	Dia. +0.000 -0.001	Width	Dia.	Len.	Dia +0.000 -0.002	Len.	Offset	Size	LEN.				Shoulder Dia.	Shoulder Len.	
CVTRE-1.50	1.50	0.75	0.437	1.00	0.625	0.48	0.03	7/16 - 20	0.52	0.39	3/16	1.125	0.7	0.03	0.78
CVTRE-2.00	2.00	0.81	0.500	1.25	0.687	0.61	0.03	1/2 - 20	0.65	0.42	3/16	1.375	0.8	0.03	0.84
CVTRE-2.50	2.50	1.25	0.750	1.75	1.000	0.86	0.03	3/4 - 16	0.90	0.69	5/16	1.500	1.3	0.06	1.31
CVTRE-3.50	3.50	1.63	0.875	2.00	1.187	0.98	0.03	7/8 - 14	1.02	0.88	5/16	2.250	1.5	0.06	1.69
CVTRE-3.50E*	3.50	1.65	0.750	2.00	1.187	0.98	0.03	3/4 - 16	1.02	0.88	5/16	2.250	1.5	0.13	1.90†
CVTRE-4.50A	4.50	1.94	1.250	2.50	1.750	1.23	0.06	1 1/4 - 12	1.27	1.00	1/2	3.000	2.2	0.06	2.00
CVTRE-4.50	4.50	1.94	1.250	2.50	1.750	1.23	0.06	1 1/4 - 12	1.27	1.00	1/2	3.000	2.2	0.06	2.20
CVTRE-5.50A	5.50	1.94	1.250	2.75	1.812	1.36	0.06	1 1/4 - 12	1.40	1.00	1/2	4.000	2.2	0.06	2.00
CVTRE-5.50	5.50	1.94	1.250	2.75	1.812	1.36	0.06	1 1/4 - 12	1.40	1.00	1/2	4.000	2.2	0.06	2.00
CVTRE-6.50	6.50	2.94	2.000	4.50	2.625	2.13	0.06	2 - 12	2.38	1.50	5/8	5.000	3.3	0.06	3.00
CVTRE-7.50	7.50	2.94	2.500	5.50	3.125	2.88	0.06	2 1/2 - 12	2.63	1.50	5/8	6.000	3.6	0.06	3.00



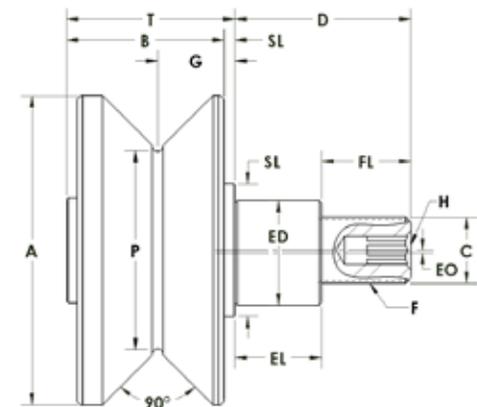
PCI's standard part number features ∞Infinity Roller™ Technology to target and address the most vulnerable areas of the assembly

*CVTRE-3.50E is designed with stud extending 7/64" from end of roller

†Design does not incorporate a dust cover



CVTRE



CVTRE-3.50E*



Solutions Through Innovation

CVTRE – TRACK ROLLERS

Crowned V-Groove Stud Type – Concentric Ball & Tapered Roller Bearings - Regreasable

∞ | **Infinity Roller™ Technology**

U.S. Patent Number 11,215,224

STUD TYPE TRACK ROLLER PART NUMBER	Basic Radial Dynamic Load Rating (lbf) C	Basic Radial Static Load Rating (lbf) Co	Thrust Dynamic Load Rating (lbf)	Thrust Static Load Rating (lbf)	Max Speed Rating (rpm)	Stud Capacity (lbf)	Retaining Ring Capacity (lbf)	Max. Clamping Torque (in*lbft)*	Seal Type	Bearing Type	Approx. Roller Weight (lbs)
CVTRE-1.50	860	430	220	110	20,000	870	470	250	NBR Lip	PREMIUM DGGB	0.36
CVTRE-2.00	1,430	750	360	190	20,000	1,230	470	180	NBR Lip	PREMIUM DGGB	0.59
CVTRE-2.50	2,660	1,400	670	350	19,000	1,390	550	650	NBR Lip	PREMIUM DGGB	1.38
CVTRE-3.50	4,920	2,950	2,460	1,480	19,000	5,370	1,340	650	NBR Lip	PREMIUM DGGB	3.49
CVTRE-3.50E	15,040	14,400	4,520	7,390	3,750	4,200	-	1,500	NBR Dual Lip	PREMIUM TRB	3.51
CVTRE-4.50A	7,400	5,040	3,700	2,520	8,000	22,200	1,950	1,500	NBR Lip	PREMIUM DGGB	7.31
CVTRE-4.50	17,940	20,000	7,410	14,120	2,490	17,080	-	1,500	NBR Dual Lip	PREMIUM TRB	7.36
CVTRE-5.50A	7,400	5,040	3,700	2,520	8,000	22,200	1,950	1,500	NBR Lip	PREMIUM DGGB	11.24
CVTRE-5.50	17,940	20,000	7,410	14,120	2,490	17,080	-	1,500	NBR Dual Lip	PREMIUM TRB	11.33
CVTRE-6.50	38,060	58,400	14,350	37,660	1,550	43,630	-	1,500	NBR Dual Lip	PREMIUM TRB	28.81
CVTRE-7.50	37,990	56,200	15,320	38,740	1,250	85,210	-	1,500	NBR Dual Lip	PREMIUM TRB	41.17



NOTE:

PCI's standard part offering features ∞ | **Infinity Roller™ Technology.**

This innovation targets and addresses the most vulnerable areas of the assembly outlasting all competitive products on the market.

*For lubricated threads, use half the maximum clamping torque value shown.

SEAL TYPE:

NBR: Nitrile Butadiene Rubber

BEARING TYPES:

DGGB: Deep Groove Ball Bearings - Alloy Steel

TRB: Tapered Roller Bearings - Alloy Steel

Grease Fittings, Jam Nut & Lock Washer sets are available at an additional cost.

Specifications subject to change without notice.



Solutions Through Innovation

CVTRE-R – TRACK ROLLERS

Crowned V-Groove Stud Type – Eccentric Ball & Tapered Roller Bearings - Regreasable

∞ | **Infinity Roller™ Technology**

U.S. Patent Number 11,215,224

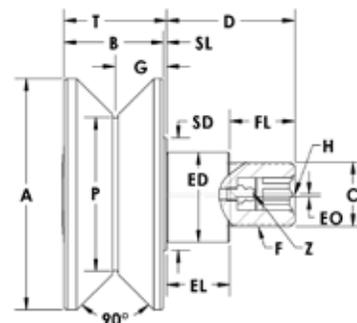
STUD TYPE TRACK ROLLER PART NUMBER	A	B	C	D	ED	EL	EO	F	FL	G	H	P	SD	SL	T	Y	YL	Z
	ROLLER		STUD		ECC			THREAD		Groove Center	Hex Size	Point Dia. +0.000 -0.001	SHOULDER			WRENCH		Lube Size
	Dia. +0.000 -0.001	Width	Dia.	Len.	Dia +0.000 -0.002	Len.	Offset	Size	Len.				Shldr Dia.	Shldr Len.	Roller Width + Len.	Flat	Flat Len.	
CVTRE-1.50-R	1.50	0.75	0.437	1.00	0.625	0.48	0.03	7/16 - 20	0.52	0.39	-	1.125	0.7	0.03	0.78	0.312	0.250	1/8 Drive
CVTRE-2.00-R	2.00	0.81	0.500	1.25	0.687	0.61	0.03	1/2 - 20	0.65	0.42	-	1.375	0.8	0.03	0.84	0.375	0.250	1/8 Drive
CVTRE-2.50-R	2.50	1.25	0.750	1.75	1.000	0.86	0.03	3/4 - 16	0.90	0.69	-	1.500	1.3	0.06	1.31	0.625	0.375	1/8-27 NPT
CVTRE-3.50-R	3.50	1.63	0.875	2.00	1.187	0.98	0.03	7/8 - 14	1.02	0.88	-	2.250	1.5	0.06	1.69	0.625	0.375	1/8-27 NPT
CVTRE-3.50E-R*	3.50	1.65	0.750	2.00	1.187	0.98	0.03	3/4 - 16	1.02	0.88	5/16	2.250	1.5	0.13	1.90†	-	-	1/4-28 UNF
CVTRE-4.50A-R	4.50	1.94	1.250	2.50	1.750	1.23	0.06	1 1/4 - 12	1.27	1.00	5/8	3.000	2.2	0.06	2.00	-	-	1/4-28 UNF
CVTRE-4.50-R	4.50	1.94	1.250	2.50	1.750	1.23	0.06	1 1/4 - 12	1.27	1.00	5/8	3.000	2.2	0.06	2.20	-	-	1/4-28 UNF
CVTRE-5.50A-R	5.50	1.94	1.250	2.75	1.812	1.36	0.06	1 1/4 - 12	1.40	1.00	5/8	4.000	2.2	0.06	2.00	-	-	1/4-28 UNF
CVTRE-5.50-R	5.50	1.94	1.250	2.75	1.812	1.36	0.06	1 1/4 - 12	1.40	1.00	5/8	4.000	2.2	0.06	2.00	-	-	1/4-28 UNF
CVTRE-6.50-R	6.50	2.94	2.000	4.50	2.625	2.13	0.06	2 - 12	2.38	1.50	5/8	5.000	3.3	0.06	3.00	-	-	1/4-28 UNF
CVTRE-7.50-R	7.50	2.94	2.500	5.50	3.125	2.88	0.06	2 1/2 - 12	2.63	1.50	5/8	6.000	3.6	0.06	3.00	-	-	1/4-28 UNF



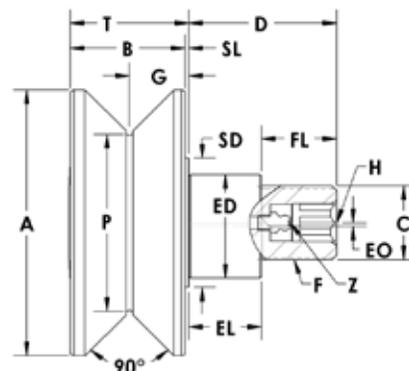
PCI's standard part number features ∞Infinity Roller™ Technology to target and address the most vulnerable areas of the assembly

*CVTRE-3.50E-R is designed with stud extending 7/64" from end of roller

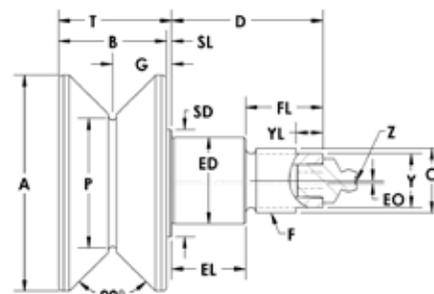
†Design does not incorporate a dust cover



THROUGH CVTRE-3.50-R



4.50" ROLLER DIA. AND LARGER



CVTRE-3.50E-R*



Solutions Through Innovation

CVTRE-R – TRACK ROLLERS

Crowned V-Groove Stud Type – Eccentric Ball & Tapered Roller Bearings - Regreasable

∞ | **Infinity Roller™ Technology**

U.S. Patent Number 11,215,224

STUD TYPE TRACK ROLLER PART NUMBER	Basic Radial Dynamic Load Rating (lbf) C	Basic Radial Static Load Rating (lbf) Co	Thrust Dynamic Load Rating (lbf)	Thrust Static Load Rating (lbf)	Max Speed Rating (rpm)	Stud Capacity (lbf)	Retaining Ring Capacity (lbf)	Max. Clamping Torque (in*lbf)*	Seal Type	Bearing Type	Approx. Roller Weight (lbs)
CVTRE-1.50-R	860	430	220	110	20,000	870	470	250	NBR Lip	PREMIUM DGGB	0.36
CVTRE-2.00-R	1,430	750	360	190	20,000	1,230	470	180	NBR Lip	PREMIUM DGGB	0.59
CVTRE-2.50-R	2,660	1,400	670	350	19,000	1,390	550	650	NBR Lip	PREMIUM DGGB	1.38
CVTRE-3.50-R	4,920	2,950	2,460	1,480	19,000	5,370	1,340	650	NBR Lip	PREMIUM DGGB	3.49
CVTRE-3.50E-R	15,040	14,400	4,520	7,390	3,750	4,200	-	1,500	NBR Dual Lip	PREMIUM TRB	3.51
CVTRE-4.50A-R	7,400	5,040	3,700	2,520	8,000	22,200	1,950	1,500	NBR Lip	PREMIUM DGGB	7.31
CVTRE-4.50-R	17,940	20,000	7,410	14,120	2,490	17,080	-	1,500	NBR Dual Lip	PREMIUM TRB	7.36
CVTRE-5.50A-R	7,400	5,040	3,700	2,520	8,000	22,200	1,950	1,500	NBR Lip	PREMIUM DGGB	11.24
CVTRE-5.50-R	17,940	20,000	7,410	14,120	2,490	17,080	-	1,500	NBR Dual Lip	PREMIUM TRB	11.33
CVTRE-6.50-R	38,060	58,400	14,350	37,660	1,550	43,630	-	1,500	NBR Dual Lip	PREMIUM TRB	28.81
CVTRE-7.50-R	37,990	56,200	15,320	38,740	1,250	85,210	-	1,500	NBR Dual Lip	PREMIUM TRB	41.17



NOTE:

PCI's standard part offering features ∞ | **Infinity Roller™ Technology.**

This innovation targets and addresses the most vulnerable areas of the assembly outlasting all competitive products on the market.

*For lubricated threads, use half the maximum clamping torque value shown.

SEAL TYPE:

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BEARING TYPES:

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Grease Fittings, Jam Nut & Lock Washer sets are available at an additional cost.

Specifications subject to change without notice.

CROWNED V-BODY PROFILE

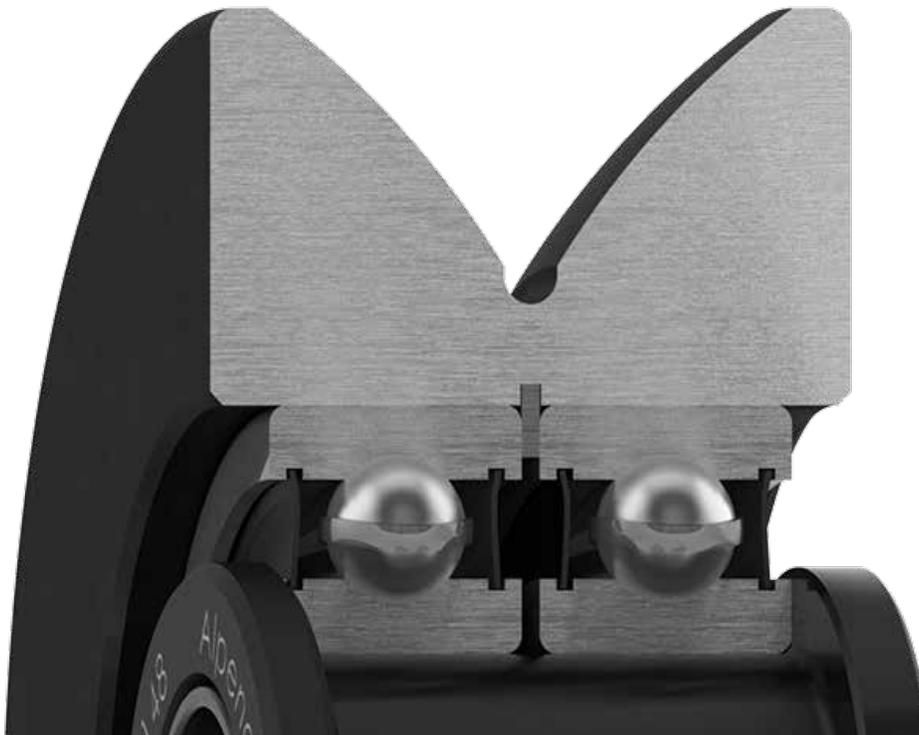
with R³™ design not only accommodates angled track use for thrust loads, but provides compact bi-axial guidance, reducing the need for increased roller diameters and/or full system redesign.

CROWNED DUAL DIRECTION

location provides energy savings with 2.34 times reduced rolling resistance and decreases track wear while shedding debris.

CV-SHAPE REDUCES SCRUBBING

while still maintaining a minimal distance which replicates the self-cleaning effect of traditional V-Rollers.



BLACK OXIDE FINISHED CASE HARDENED PRECISION ROLLER BODY

maintains assembly integrity by preventing premature fracture under shock loads.

TIGHT FIT STAINLESS STEEL DUST COVER adds protection against direct spray and contamination (stud type).

NITRILE RUBBER DUAL LIP SEALS

aid with lubricant retention and incorporate multifaceted contact points to exclude contaminants. These superior designs result in maximum protection of the bearing elements.

PRECISION DEEP GROOVE BALL BEARINGS perform under high speeds and light to moderate combination loads.

PREMIUM SYNTHETIC LUBRICANT

resists break down to minimize downtime.

EASY INSTALLATION slip fit bore is designed for use with positive end clamping force without thrust loading the ball bearings.

CROWNED V-BODY PROFILE

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NITRILE RUBBER DUAL LIP SEALS aid with lubricant retention and incorporate multifaceted contact points to exclude contaminants. These superior designs result in maximum protection of the bearing elements.

MATCHED SET OF TAPERED ROLLER BEARINGS ensure maximum thrust load paired with moderate radial load capacity in a precision bearing package.

PREMIUM SYNTHETIC LUBRICANT resists break down to minimize downtime.

EASY INSTALLATION slip fit bore is designed for use with positive end clamping force without thrust loading the ball bearings.



Solutions Through Innovation

CVTRY – TRACK ROLLERS

Crowned V-Groove Yoke Type
Ball & Tapered Roller Bearings

∞ | Infinity Roller™ Technology

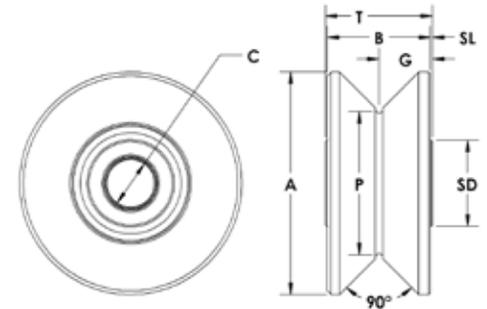
U.S. Patent Number 11,215,224

YOKE TYPE DCB ROLLER PART NUMBER	A	B	C	L	M	SD	SL	T
	ROLLER		Bore Dia. + .000 - .001	FLANGED		SHOULDER		Inner Race Width + .005 - .010
	Dia. + .000 - .001	Width		Dia.	Width	Dia.	Len.	
CVTRY-1.50	1.50	0.630	0.3130	0.34	1.063	0.6	0.03	0.688
CVTRY-1.75	1.75	0.750	0.3755	0.41	1.313	0.6	0.03	0.813
CVTRY-2.00	2.00	0.880	0.4380	0.44	1.500	0.9	0.03	0.938
CVTRY-2.50-9	2.50	0.880	0.4380	0.47	1.750	0.9	0.03	0.938
CVTRY-2.50	2.50	1.250	0.6255	0.66	2.000	1.1	0.03	1.313
CVTRY-3.00	3.00	1.250	0.6255	0.66	2.060	1.1	0.03	1.313
CVTRY-3.50-9	3.50	1.500	0.7505	0.78	2.250	1.2	0.03	1.563
CVTRY-3.50	3.50	1.625	0.7505	0.84	2.250	1.2	0.03	1.687
CVTRY-3.75A	3.75	1.500	0.7505	0.78	2.500	1.2	0.03	1.563
CVTRY-3.75	3.75	1.500	0.7505	0.78	2.500	1.3	0.03	1.563
CVTRY-4.50A	4.50	1.750	1.0005	0.91	3.000	1.8	0.03	1.813
CVTRY-4.50	4.50	1.750	1.0005	0.91	3.000	1.8	0.03	1.813
CVTRY-5.00A	5.00	2.000	1.1255	1.03	3.500	2.0	0.03	2.063
CVTRY-5.00	5.00	2.000	1.1255	1.03	3.500	2.0	0.03	2.063
CVTRY-5.50A	5.50	2.250	1.2505	1.16	4.000	2.0	0.03	2.313
CVTRY-5.50	5.50	2.250	1.2505	1.16	4.000	2.0	0.03	2.313
CVTRY-6.50	6.50	2.750	1.7508	1.44	5.000	3.2	0.06	2.875
CVTRY-7.50	7.50	3.250	2.2508	1.69	6.000	3.5	0.06	3.375
CVTRY-8.50	8.50	3.750	2.7508	1.94	7.000	4.1	0.06	3.875
CVTRY-9.50	9.50	4.250	3.2560	2.25	8.000	4.7	0.13	4.500
CVTRY-10.50	10.50	4.750	3.7560	2.50	9.000	5.3	0.13	5.000
CVTRY-11.50	11.50	5.250	4.2560	2.75	10.000	6.5	0.13	5.500

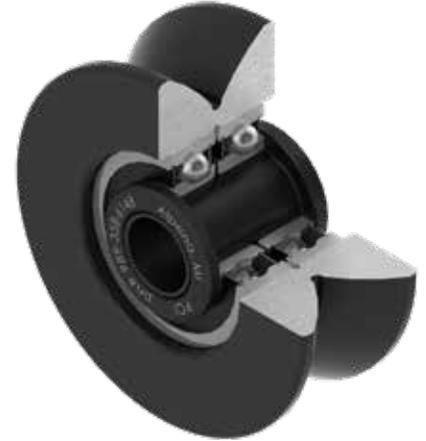
OPTIONAL	
PCI Yoke Shaft	PCI Eccentric Yoke Shaft
YSH-.312	YSHE-.312
YSH-.375	YSHE-.375
YSH-.437	YSHE-.437
YSH-.437	YSHE-.437
YSH-.625	YSHE-.625
YSH-.625	YSHE-.625
YSH-.750	YSHE-.750
YSH-1.000	YSHE-1.000
YSH-1.000	YSHE-1.000
YSH-1.125	YSHE-1.125
YSH-1.125	YSHE-1.125
YSH-1.250	YSHE-1.250
YSH-1.250	YSHE-1.250
YSH-1.750	YSHE-1.750
YSH-2.250	YSHE-2.250
YSH-2.750	YSHE-2.750
YSH-3.250	-
YSH-3.750	-
YSH-4.250	-



PCI's standard part number features ∞Infinity Roller™ Technology to target and address the most vulnerable areas of the assembly



YOKE TYPE DCB ROLLER PART NUMBER	Basic Radial Dynamic Load Rating (Lbf) C	Basic Radial Static Load Rating (lbf) Co	Thrust Dynamic Load Rating (lbf)	Thrust Static Load Rating (lbf)	Max Speed Rating (rpm)	Seal Type	Bearing Type	Approx. Roller Weight (lbs)
CVTRY-1.50	640	420	160	110	20,000	NBR Lip	PREMIUM DGGB	0.2
CVTRY-1.75	1,060	660	270	170	19,000	NBR Lip	PREMIUM DGGB	0.35
CVTRY-2.00	1,690	1,150	850	580	14,000	NBR Lip	PREMIUM DGGB	0.54
CVTRY-2.50-9	1,690	1,150	850	580	14,000	NBR Lip	PREMIUM DGGB	0.82
CVTRY-2.50	3,630	2,250	1,820	1,130	11,000	NBR Lip	PREMIUM DGGB	1.3
CVTRY-3.00	3,630	2,250	1,820	1,130	11,000	NBR Lip	PREMIUM DGGB	1.69
CVTRY-3.50-9	4,340	2,950	2,170	1,480	9,500	NBR Lip	PREMIUM DGGB	2.53
CVTRY-3.50	4,340	2,950	2,170	1,480	9,500	NBR Lip	PREMIUM DGGB	2.7
CVTRY-3.75A	5,390	3,510	2,700	1,760	8,500	NBR Lip	PREMIUM DGGB	3.05
CVTRY-3.75	13,720	14,800	5,130	9,470	2,100	NBR Dual Lip	PREMIUM TRB	3.08
CVTRY-4.50A	6,120	4,590	3,060	2,300	7,000	NBR Lip	PREMIUM DGGB	4.88
CVTRY-4.50	17,940	20,000	7,410	14,120	2,490	NBR Dual Lip	PREMIUM TRB	5.12
CVTRY-5.00A	6,490	4,950	3,250	2,480	6,300	NBR Lip	PREMIUM DGGB	7.48
CVTRY-5.00	18,670	27,200	6,210	15,480	2,140	NBR Dual Lip	PREMIUM TRB	7.61
CVTRY-5.50A	6,490	4,950	3,250	2,480	6,300	NBR Lip	PREMIUM DGGB	11.06
CVTRY-5.50	18,670	27,200	6,210	15,480	2,140	NBR Dual Lip	PREMIUM TRB	11.56
CVTRY-6.50	38,060	58,400	14,350	37,660	1,550	NBR Dual Lip	PREMIUM TRB	20.4
CVTRY-7.50	37,990	56,200	15,320	38,740	1,250	NBR Dual Lip	PREMIUM TRB	31.14
CVTRY-8.50	45,050	79,800	18,750	56,790	1,020	NBR Lip	PREMIUM TRB	45.37
CVTRY-9.50	89,040	159,800	42,050	129,030	850	NBR Lip	PREMIUM TRB	64.81
CVTRY-10.50	142,470	167,000	57,860	115,980	760	NBR Lip	PREMIUM TRB	88.12
CVTRY-11.50	145,100	266,000	66,730	209,180	650	NBR Lip	PREMIUM TRB	115.79



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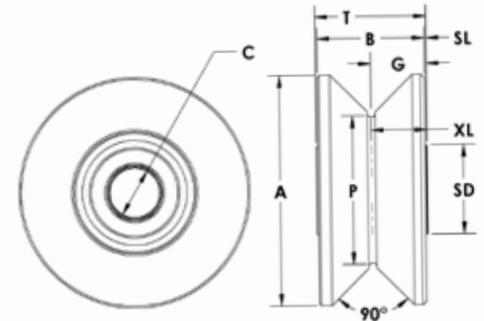
Specifications subject to change without notice.

YOKE TYPE DCB ROLLER PART NUMBER	A	B	C	G	P	SD	SL	T	XL
	ROLLER		Bore Dia. +0.000 -0.001	FLANGED		SHOULDER		Inner Race Width +0.005 -0.010	Grease Groove Location
	Dia. +0.000 -0.001	Width		Dia.	Width	Dia.	Len.		
CVTRY-1.50-R	1.50	0.630	0.3130	0.34	1.063	0.6	0.03	0.688	0.34
CVTRY-1.75-R	1.75	0.750	0.3755	0.41	1.313	0.6	0.03	0.813	0.41
CVTRY-2.00-R	2.00	0.880	0.4380	0.44	1.500	0.9	0.03	0.938	0.44
CVTRY-2.50-9-R	2.50	0.880	0.4380	0.47	1.750	0.9	0.03	0.937	0.47
CVTRY-2.50-R	2.50	1.250	0.6255	0.66	2.000	1.1	0.03	1.313	0.66
CVTRY-3.00-R	3.00	1.250	0.6255	0.66	2.060	1.1	0.03	1.313	0.66
CVTRY-3.50-9-R	3.50	1.500	0.7505	0.78	2.250	1.2	0.03	1.563	0.78
CVTRY-3.50-R	3.50	1.625	0.7505	0.84	2.250	1.2	0.03	1.687	0.78
CVTRY-3.75A-R	3.75	1.500	0.7505	0.78	2.500	1.2	0.03	1.563	0.78
CVTRY-3.75-R	3.75	1.500	0.7505	0.78	2.500	1.3	0.03	1.563	0.78
CVTRY-4.50A-R	4.50	1.750	1.0005	0.91	3.000	1.8	0.03	1.813	0.91
CVTRY-4.50-R	4.50	1.750	1.0005	0.91	3.000	1.8	0.03	1.813	0.91
CVTRY-5.00A-R	5.00	2.000	1.1255	1.03	3.500	2.0	0.03	2.063	1.03
CVTRY-5.00-R	5.00	2.000	1.1255	1.03	3.500	2.0	0.03	2.063	1.03
CVTRY-5.50A-R	5.50	2.250	1.2505	1.16	4.000	2.0	0.03	2.313	1.16
CVTRY-5.50-R	5.50	2.250	1.2505	1.16	4.000	2.0	0.03	2.313	1.16
CVTRY-6.50-R	6.50	2.750	1.7508	1.44	5.000	3.2	0.06	2.875	1.44
CVTRY-7.50-R	7.50	3.250	2.2508	1.69	6.000	3.5	0.06	3.375	1.69
CVTRY-8.50-R	8.50	3.750	2.7508	1.94	7.000	4.1	0.06	3.875	1.94
CVTRY-9.50-R	9.50	4.250	3.2560	2.25	8.000	4.7	0.13	4.500	2.25
CVTRY-10.50-R	10.50	4.750	3.7560	2.50	9.000	5.3	0.13	5.000	2.50
CVTRY-11.50-R	11.50	5.250	4.2560	2.75	10.000	6.5	0.13	5.500	2.75

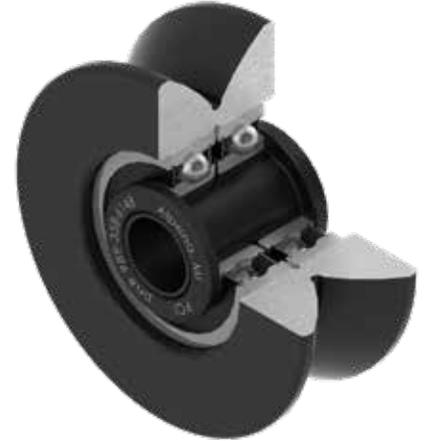
OPTIONAL	
PCI Yoke Shaft	PCI Eccentric Yoke Shaft
YSH-312-R	YSHE-312-R
YSH-375-R	YSHE-375-R
YSH-437-R	YSHE-437-R
YSH-437-R	YSHE-437-R
YSH-625-R	YSHE-625-R
YSH-625-R	YSHE-625-R
YSH-750-R	YSHE-750-R
YSH-1000-R	YSHE-1000-R
YSH-1000-R	YSHE-1000-R
YSH-1125-R	YSHE-1125-R
YSH-1125-R	YSHE-1125-R
YSH-1250-R	YSHE-1250-R
YSH-1250-R	YSHE-1250-R
YSH-1750-R	YSHE-1750-R
YSH-2250-R	YSHE-2250-R
YSH-2750-R	YSHE-2750-R
YSH-3250-R	-
YSH-3750-R	-
YSH-4250-R	-



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YOKE TYPE DCB ROLLER PART NUMBER	Basic Radial Dynamic Load Rating (lbf) C	Basic Radial Static Load Rating (lbf) Co	Thrust Dynamic Load Rating (lbf)	Thrust Static Load Rating (lbf)	Max Speed Rating (rpm)	Seal Type	Bearing Type	Approx. Roller Weight (lbs)
CVTRY-1.50-R	640	420	160	110	20,000	NBR Lip	PREMIUM DGGB	0.2
CVTRY-1.75-R	1,070	660	270	170	19,000	NBR Lip	PREMIUM DGGB	0.35
CVTRY-2.00-R	1,690	1,150	850	580	14,000	NBR Lip	PREMIUM DGGB	0.54
CVTRY-2.50-9-R	1,690	1,150	770	290	14,000	NBR Lip	PREMIUM DGGB	0.82
CVTRY-2.50-R	3,630	2,250	1,820	1,130	11,000	NBR Lip	PREMIUM DGGB	1.3
CVTRY-3.00-R	3,630	2,250	1,820	1,130	11,000	NBR Lip	PREMIUM DGGB	1.69
CVTRY-3.50-9-R	4,340	2,950	2,170	1,480	9,500	NBR Lip	PREMIUM DGGB	2.53
CVTRY-3.50-R	4,340	2,950	2,170	1,480	9,500	NBR Lip	PREMIUM DGGB	2.7
CVTRY-3.75A-R	5,390	3,510	2,700	1,760	8,500	NBR Lip	PREMIUM DGGB	3.05
CVTRY-3.75-R	13,720	14,800	5,130	9,470	2,100	NBR Dual Lip	PREMIUM TRB	3.08
CVTRY-4.50A-R	6,120	4,590	3,060	2,300	7,000	NBR Lip	PREMIUM DGGB	4.88
CVTRY-4.50-R	17,940	20,000	7,410	14,120	2,490	NBR Dual Lip	PREMIUM TRB	5.12
CVTRY-5.00A-R	6,490	4,950	3,250	2,480	6,300	NBR Lip	PREMIUM DGGB	7.48
CVTRY-5.00-R	18,670	27,200	6,210	15,480	2,140	NBR Dual Lip	PREMIUM TRB	7.61
CVTRY-5.50A-R	6,490	4,950	3,250	2,480	6,300	NBR Lip	PREMIUM DGGB	11.06
CVTRY-5.50-R	18,670	27,200	6,210	15,480	2,140	NBR Dual Lip	PREMIUM TRB	11.56
CVTRY-6.50-R	38,060	58,400	14,350	37,660	1,550	NBR Dual Lip	PREMIUM TRB	20.4
CVTRY-7.50-R	37,990	56,200	15,320	38,740	1,250	NBR Dual Lip	PREMIUM TRB	31.14
CVTRY-8.50-R	45,050	79,800	18,750	56,790	1,020	NBR Lip	PREMIUM TRB	45.37
CVTRY-9.50-R	89,040	159,800	42,050	129,030	850	NBR Lip	PREMIUM TRB	64.81
CVTRY-10.50-R	142,470	167,000	57,860	115,980	760	NBR Lip	PREMIUM TRB	88.12
CVTRY-11.50-R	145,100	266,000	66,730	209,180	650	NBR Lip	PREMIUM TRB	115.79



NOTE:

PCI's standard part offering features
∞ | **Infinity Roller™ Technology.**

This innovation targets and addresses the most vulnerable areas of the assembly outlasting all competitive products on the market.

*For lubricated threads, use half the maximum clamping torque value shown.

SEAL TYPE:

NBR: Nitrile Butadiene Rubber

BEARING TYPES:

DGGB: Deep Groove Ball Bearings - Alloy Steel
TRB: Tapered Roller Bearings - Alloy Steel

Grease Fittings, Jam Nut & Lock Washer sets are available at an additional cost.

Specifications subject to change without notice.