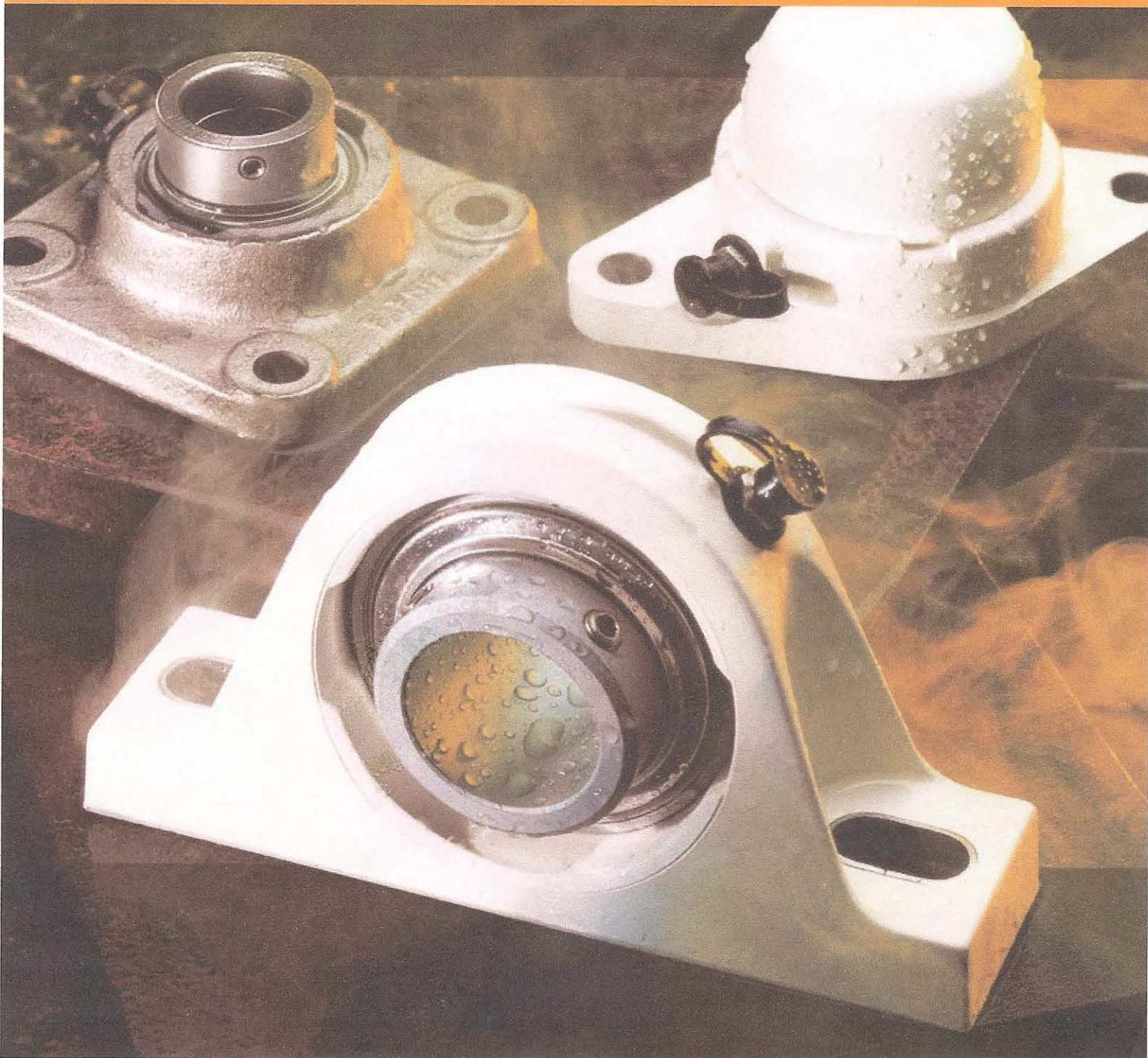


TIMKEN
Where You Turn

Timken® Survivor® Series
Corrosion Resistant Housed Units



THE SUPERIOR SOLUTION FOR CORROSIVE APPLICATIONS

SURVIVOR UNIT SELECTION GUIDE FEATURING TIMKEN FAFNIR® BALL BEARINGS

Survivor Unit Nomenclature

Example: YCJT 1 ³/₁₆ PT

Y

Insert Type:

- Y = setscrew lock
- R = self-locking collar**
- K = light-duty, setscrew lock

1 ³/₁₆

Shaft Size:

- 1 ³/₁₆ = 1 ³/₁₆"
- 25 = 25mm

CJT

Housing Style:

- AK = low base pillow block
- AS = high base pillow block
- CJ = four-bolt flange**
- CJT = two-bolt flange
- TB = tapped base pillow block
- FB = flanged bracket
- TU = take-up unit

PT

Series Type:

- PT = polymer housing, TDC coated insert
- NT = nickel-plated housing, TDC coated insert**
- PS = polymer housing, stainless steel insert

	FREQUENT WASHDOWNS	LOW SPEED OR LIGHT LOADS	FULL RANGE SPEED/LOAD	SINGLE- DIRECTION ROTATION	REVERSING- DIRECTION ROTATION	LARGE SIZES AVAILABLE
Y-PT SURVIVOR PT with setscrew lock pages 4-6						
R-PT SURVIVOR PT with self-locking collar pages 4-5						
K-PS SURVIVOR PS with light-duty stainless steel, setscrew lock bearings page 10						
R-NT SURVIVOR NT with self-locking collar pages 7-9						

COMMON APPLICATIONS FOR SURVIVOR BEARINGS

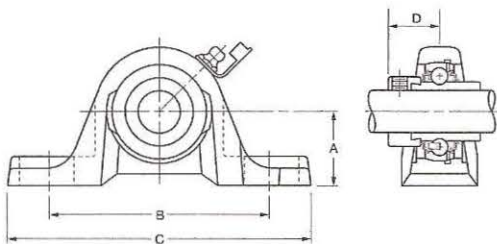
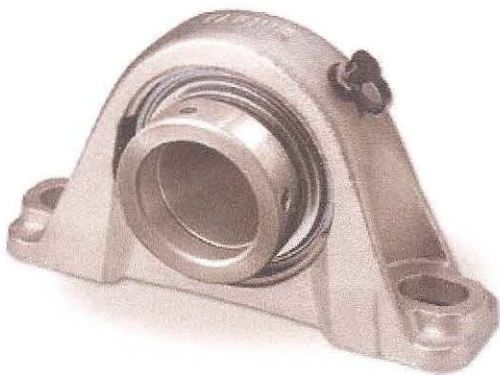
Food Applications

- Packaging and Processing
- Beverage Bottling
- Dairies
- Beef, Pork, Poultry and Fish Processing
- Fruit and Vegetable Processing
- Bakeries

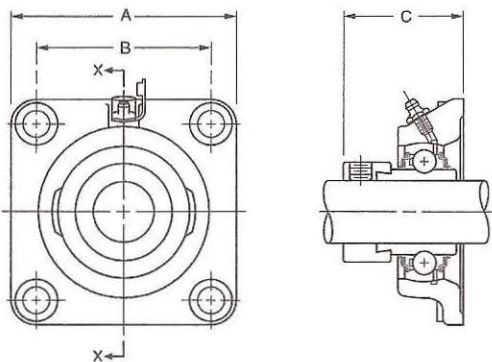
Other Applications

- Chemical & Rubber Processing
- Pharmaceutical Industries
- Paper Mills
- Car Washes
- Material Handling
- Maritime Applications
- Highway Salt & Sand Trucks
- Wastewater Treatment Facilities

TIMKEN SURVIVOR NT HOUSED UNITS



Timken Fafnir P/N	Insert Bearing P/N	TDCF	RAK A	RAS A	B	C	D	LOAD RATINGS		Limiting Speed (RPM)
								Static lbs.	Dynamic lbs.	
RAK 1/2	NT	G1008KRRB	1.06	1.19	3.62	4.87	0.92	1,060	2,400	13,800
RAK 5/8	NT	G1010KRRB	1.06	1.19	3.62	4.87	0.92	1,060	2,400	11,000
RAK 3/4	NT	G1012KRRB	1.25	1.31	3.78	5.00	1.05	1,460	3,250	9,200
RAK 1	NT	G1100KRRB	1.31	1.44	4.12	5.50	1.06	1,730	3,550	6,900
RAK 1 3/16	NT	G1103KRRB	1.56	1.69	4.62	6.19	1.18	2,500	4,900	5,800
RAK 1 1/4S	NT	G1103KRRB3	1.56	1.69	4.62	6.19	1.18	2,500	4,900	5,500
RAK 1 1/4	NT	G1104KRRB	1.81	1.87	5.12	6.56	1.28	3,400	6,400	5,500
RAK 1 7/16	NT	G1107KRRB	1.81	1.87	5.12	6.56	1.28	3,400	6,400	4,800
RAK 1 1/2	NT	G1108KRRB	1.94	1.94	5.37	7.06	1.37	4,400	8,150	4,600
RAK 1 11/16	NT	G1111KRRB	2.06	2.12	5.87	7.53	1.37	4,500	8,150	4,100
RAK 1 3/4	NT	G1112KRRB	2.06	2.12	5.87	7.53	1.37	4,500	8,150	3,900
RAK 1 15/16	NT	G1115KRRB	2.19	2.25	6.22	7.87	1.50	5,100	8,800	3,600
RAK 2	NT	G1200KRRB	2.44	2.50	6.94	8.75	1.72	6,400	10,800	3,400
RAK 2 3/16	NT	G1203KRRB	2.44	2.50	6.94	8.75	1.72	6,400	10,800	3,100
RAK 2 7/16	NT	G1207KRRB	2.69	—	7.41	9.44	1.84	8,000	13,200	2,800
RAK 2 11/16	NT	G1211KRRB	3.00	—	8.00	10.50	1.78	9,650	15,600	2,600
RAK 2 15/16	NT	G1215KRRB	3.31	—	9.50	12.00	2.16	9,800	15,600	2,300



Timken Fafnir P/N	A	B	C	LOAD RATINGS		Limiting Speed (RPM)
				Static lbs.	Dynamic lbs.	
RCJ 1/2	NT	3.00	2.12	1,060	2,400	13,800
RCJ 5/8	NT	3.00	2.12	1,060	2,400	11,000
RCJ 3/4	NT	3.37	2.50	1,460	3,250	9,200
RCJ 1	NT	3.75	2.76	1,730	3,550	6,900
RCJ 1 3/16	NT	4.25	3.25	2,500	4,900	5,800
RCJ 1 1/4S	NT	4.25	3.25	2,500	4,900	5,500
RCJ 1 1/4	NT	4.62	3.62	3,400	6,400	5,500
RCJ 1 7/16	NT	4.62	3.62	3,400	6,400	4,800
RCJ 1 1/2	NT	5.12	4.00	4,400	8,150	4,600
RCJ 1 11/16	NT	5.37	4.12	4,500	8,150	4,100
RCJ 1 3/4	NT	5.37	4.12	4,500	8,150	3,900
RCJ 1 15/16	NT	5.62	4.37	5,100	8,800	3,600
RCJ 2	NT	6.37	5.12	6,400	10,800	3,400
RCJ 2 3/16	NT	6.37	5.12	6,400	10,800	3,100
RCJ 2 7/16	NT	6.87	5.62	8,000	13,200	2,800
RCJ 2 11/16	NT	7.37	5.87	9,650	15,600	2,600
RCJ 2 15/16	NT	7.75	6.00	9,800	15,600	2,300

Note: All dimensions shown are in inches.

ECS House Tail-Bearing Life Calculations

	<u>Insert</u>	<u>RPM</u>	<u>Load Rating (lbs)</u>	<u>Radial Load lbs</u>	<u>Life (hours)</u>	<u>TDC Factor</u>	<u>HP</u>
RCJ NT 1 1/4	G1103KRRB3	84	4900	80	45,592,817	136,778,452	2hp
RCJ NT 1 1/2	G1108KRRB	80	8150	165	25,106,631	75,319,893	5hp
RCJ NT 1 15/16	G1115KRRB	78	8800	250	9,319,462	27,958,385	7.5hp
		78	8800	350	3,396,305	10,188,916	10hp
RCJ NT 2 7/16	G1207KRRB	79	13200	550	2,916,514	8,749,542	15hp
		79	13200	700	1,414,679	4,244,038	20hp
		79	13200	850	790,124	2,370,373	25hp



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Survivor Series housed units excel in highly corrosive environments.

Survivor PT Series

With a polymer housing that is more durable than nylon or coatings, the Survivor PT Series provides lasting protection with high-load capacity. Integral anti-corrosion properties cannot scrape or flake off during use. The polymer resists a broad range of acids and alkalis, as well as steam and continuous temperature up to 120 degrees Celsius (250 degrees Fahrenheit) (brief exposure up to 160 degrees Celsius (320 degrees Fahrenheit)).

Survivor NT Series

These units feature an electroless, nickel-plated housing and a corrosion-resistant bearing insert with a choice of locking systems.

PS Series

The PS Series offers polymer housing and a 300-series stainless-steel insert to provide the highest possible corrosion resistance.

Design Attributes:

- Proprietary thin-dense chrome (TDC) coating is applied to all NT/PT bearing inserts for superior corrosion protection. Coating is designed not to crack or peel under known application conditions.
- All Survivor units are FDA/USDA-compliant for incidental contacts.
- Bearings are installed in housings that use engineered torque fits.
- Channels grease to flush through the bearing rather than between the bearing OD and housing.
- Stainless balls, set screws and collars are included (where applicable).

Applications

- Food and beverage
- Waste water
- Car washes
- Highway salt and sand
- Chemical and rubber
- Pharmaceutical
- Maritime
- Paper mills
- Material handling

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[back to top](#)

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Housing types available: pillow blocks, flange units, take-up units.

Centerline heights available: high base, low base, tapped base.

Product variations:

Example: YCJT 1 3/16 PT

Y	Insert Type:	1 3/16	Shaft Size:
	Y = setscrew lock		1 3/16 = 1 3/16"
	R = self-locking collar		25 = 25mm
	K = light-duty, setscrew lock	PT	Series Type:
CJT	Housing Style:		PT = polymer housing, TDC coated insert
	AK = low base pillow block		NT = nickel-plated housing, TDC coated insert
	AS = high base pillow block		PS = polymer housing, stainless steel insert
	CJ = four-bolt flange		
	CJT = two-bolt flange		
	TB = tapped base		
	FB = flanged bracket		
	TU = take-up unit		

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	FREQUENT WASDOWNS	LOW SPEED OR LIGHT LOADS	FULL RANGE SPEED/LOAD
Y-PT SURVIVOR PT with setscrew lock	X		X
R-PT SURVIVOR PT with self-locking collar	X		X
K-PS SURVIVOR PS with light-duty stainless steel, setscrew lock bearings	X	X	
R-NT SURVIVOR NT with self-locking collar	X		X

	SINGLE- DIRECTION ROTATION	REVERSING- DIRECTION ROTATION	LARGE SIZES AVAILABLE
Y-PT SURVIVOR PT with setscrew lock		X	
R-PT SURVIVOR PT with self-locking collar	X		
K-PS SURVIVOR PS with light-duty stainless steel, setscrew lock bearings		X	
R-NT SURVIVOR NT with self-locking collar	X		X

HOUSING - ELECTROLESS NICKEL-PLATED				
TDC INSERTS	2-bolt flange	4-bolt flange	High Base Pillow Block	Low Base Pillow Block
Eccentric Locking Collar	RCJT NT	RCJ NT	RAS NT	RAK NT
Setscrew	YCJT NT SGT	YCJT NT SGT	YAS NT SGT	YAS NT SGT
*STAINLESS INSERTS	Not Applicable	Not Applicable	Not Applicable	Not Applicable

HOUSING - ENGINEERED POLYMER				
TDC INSERTS	2-bolt flange	4-bolt flange	High Base Pillow Block	Low Base Pillow Block
Eccentric Locking Collar	RCJT PT	RCJ PT	RAS PT	RAK PT
Setscrew	YCJT PT SGT	YCJT PT SGT	YAS PT SGT	YAS PT SGT
*STAINLESS INSERTS	KCJT PS	KCJ PS	KAS PS	KAK PS

[back to top](#)