

# TIMKEN

Where You Turn

轴承 · 特种钢 · 工业技术服务



## Timken® 航空微型精密轴承产品目录



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# 关于铁姆肯公司

铁姆肯公司，以其创新的摩擦管理和动力传动产品及服务帮助客户的设备运转更快速，更高效，是您提高工作绩效的最佳选择。

总部位于美国俄亥俄州的铁姆肯公司具有一百多年的发展历史，在轴承、动力传动和特种合金钢产品的研发和生产方面都始终位于技术创新和高效节能的前沿。铁姆肯公司的高品质产品和解决方案在众多行业有着广泛的应用，以节能环保的方式帮助世界各地的机械顺畅运转。自1992年以来，铁姆肯公司始终坚持将先进的产品、技术以及创新理念引入中国，目前已经在中国拥有几千名员工。公司不断增加在华投资，扩大生产和服务能力，致力于服务国内和国际客户。公司设立的中国工程技术培训中心不仅用于培训自身的专业工程力量，也用于和中国的客户分享前沿知识与技术，使客户从公司一百多年的专业经验，包括先进的材料技术和钢铁制造能力中获益。

## 专业知识，服务航空行业

### 行业经验

铁姆肯公司进入航空市场已有70余年。我们提供的航空解决方案横跨研发、工程、制造、维修以及机队管理等多个领域。长期以来，我们的产品与服务以严格的质量标准和一贯优异的性能表现而备受航空客户推崇。随着2007年对Purdy公司的收购，铁姆肯公司的航空业务实力得到进一步壮大。

### 产品与服务

铁姆肯公司的航空产品广泛应用于飞机（含直升机）及其发动机、齿轮箱、传动装置、辅助动力系统、起落架机轮、机翼及相关设备中。此外，我们还为世界各地的航空客户提供轴承维修、发动机大修等服务。我们的产品与服务符合FAA、EASA以及中国民用航空适航管理当局的相关技术标准和规范。

### 技术与创新

我们致力于运用先进的摩擦管理和动力传动知识，帮助航空客户提高工作绩效。凭借在材料科学和动力传动领域的丰富经验，在技术创新领域不间断的巨额投入，以及专业的工程和技术团队，我们已成为航空客户设计、检测和样机研发的理想合作伙伴。铁姆肯公司始终在积极全面地开发航空系统专业技术，力求为客户创造更高价值。

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在中国，ARJ21-700的发动机、辅助动力系统、液压系统、起落架机轮和机翼前缘缝翼等五大系统采用了Timken® 轴承。此外，Timken® 轴承还被用于新舟60起落架机轮等。

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# FAA TSO-C149资格认证



U.S. Department  
of Transportation  
Federal Aviation  
Administration

Boston Aircraft Cert. Office  
12 New England Executive Park  
Burlington, MA 01803-5299  
Tel: (781) 238-7181  
Fax: (781) 238-7189

May 19, 1999

Timken Aerospace & Super  
Precision Bearings (MPB  
Division)  
Attn: Mr. Edward Jarvis, Group  
Leader, Product Engineering  
P.O. Box 547  
Precision Park  
Keene, NH 03431-0547

Dear Mr. Jarvis:

This will acknowledge receipt of your April 12, 1999  
letter requesting Technical Standard Order (TSO)  
authorization for the following Miniature Precision  
Bearing (MPB) Miniature/Instrument Ball bearings:

( ) (C, MC, MCD, MCJ, MCK, MCP, MCX, R, ST) ( )  
( ) (M, MP, MR, MX) ( )  
( ) (MB) ( )  
( ) (HN) ( )

A281 ( )	B703 ( )	S518HH ( )
A521 ( )	D983 ( )	S3332 ( )
A430 ( )	E685 ( )	S5632 ( )
A431 ( )	G229 ( )	S5632F ( )
A834 ( )	S2 ( )	SR2 ( )
B70 ( )	S100 ( )	SR3 ( )
B69B ( )	S518F ( )	SR4 ( )

The data and certification of conformance with the  
requirements of Subpart O of the Federal Aviation  
Regulations (FAR), and TSO-C149 have been found  
acceptable. Accordingly the cited bearings are qualified  
as Miniature/Instrument Ball bearings.








Your quality control procedures contained in MPB Quality  
Manual, dated April 28, 1999, are considered adequate in  
accordance with FAR 21.143. You are authorized to identify  
the above Miniature/Instrument Ball bearings with the  
applicable TSO-C149 markings, subject to the provisions  
and restrictions of FAR 21. Paragraph 21.611 contains  
information concerning approval of design changes. This  
authorization is valid only at MPB, Precision Park, Keene,  
NH 03431-0547. Our office must be notified of any proposed  
relocation.








The data pertinent to this authorization, submitted with  
your April 12, 1999 letter, will be kept on file at this  
office. A copy of the cited Quality Control Manual will be  
retained by our Manufacturing Inspection Satellite Office,  
Burlington, MA.








Sincerely,

*for Terry Fah*  
Ronald L. Vavruska  
Manager, Boston Aircraft  
Certification Office








## Deep groove, radial retainer, miniature & instrument ball bearing








Timken P/N	Bore (Inch)	O.D (Inch)	Width (Inch)	Load ratings (lbs)		Configuration						Reference Speed limit (RPM)
				Dynamic	Static	径向深沟球轴承						
						STD Cage Code	Material	Design	Useful features	Shield	STD Bearing class	
S2C5	0.0400	0.1250	0.0469	12	2	<b>C</b> Description: Balls in deep groove bearing separated by a one-piece snap-in pressed steel retainer	410 SST Hardened		Low frictional torque at speeds up to 10000 RPM Not to be used under high acceleration	Only Open type	ABEC 5	10000
S2C7	0.0400	0.1250	0.0469	12	2	<b>C</b> Description: Balls in deep groove bearing separated by a one-piece snap-in pressed steel retainer	410 SST Hardened		Low frictional torque at speeds up to 10000 RPM Not to be used under high acceleration	Only Open type	ABEC 7	10000
S2R5	0.0400	0.1250	0.0469	12	2	<b>R</b> Description: Ball in deep groove bearing separated by a two-piece, pressed steel retainer.	430 SST or 300 series SST		Low breakaway friction at speed to 10000 RPM High speeds may result in excessive wear.	Only Open type	ABEC 5	10000
S2R7	0.0400	0.1250	0.0469	12	2	<b>R</b> Description: Ball in deep groove bearing separated by a two-piece, pressed steel retainer.	430 SST or 300 series SST		Low breakaway friction at speed to 10000 RPM High speeds may result in excessive wear.	Only Open type	ABEC 7	10000
S2MC5	0.0400	0.1250	0.0469	12	2	<b>MC</b> Description: one-piece, machined, snap-in crown phenolic retainer	Phenolic Laminate		Can be vacuum impregnated with oil. Speed to 200000 RPM. Ambient temperature to 275 °F	Only Open type	ABEC 5	200000
S2MC7	0.0400	0.1250	0.0469	12	2	<b>MC</b> Description: one-piece, machined, snap-in crown phenolic retainer	Phenolic Laminate		Can be vacuum impregnated with oil. Speed to 200000 RPM. Ambient temperature to 275 °F	Only Open type	ABEC 7	200000
S2MCJ5	0.0400	0.1250	0.0469	12	2	<b>MCJ</b> Description: one-piece, machined, snap-in retainer	Glass reinforced teflon with MOS2		Self lubricated. Compatible with high vacuum and cryogenic environments. Temperature to 550°F	Only Open type	ABEC 5	On condition








Timken P/N	Bore (Inch)	O.D (Inch)	Width (Inch)	Load ratings (lbs)		Configuration						Reference Speed limit (RPM)
						径向深沟球轴承						
				Dynamic	Static	STD Cage Code	Material	Design	Useful features	Shield	STD Bearing class	
S2MCJ7	0.0400	0.1250	0.0469	12	2	<b>MCJ</b> Description: one-piece, machined, snap-in retainer	Glass reinforced teflon with MOS2		Self lubricated. Compatible with high vacuum and cryogenic environments. Temperature to 550°F	Only Open type	ABEC 7	On condition
S2MCX5	0.0400	0.1250	0.0469	12	2	<b>MCX</b> Description: one-piece, machined, snap-in retainer	Bronze Reinforced Teflon		Self lubricated. Compatible with high vacuum and cryogenic environments. Temperature to 550°F	Only Open type	ABEC 5	On condition
S2MCX7	0.0400	0.1250	0.0469	12	2	<b>MCX</b> Description: one-piece, machined, snap-in retainer	Bronze Reinforced Teflon		Self lubricated. Compatible with high vacuum and cryogenic environments. Temperature to 550°F	Only Open type	ABEC 7	On condition
S2MCP5	0.0400	0.1250	0.0469	12	2	<b>MCP</b> Description: one-piece, machined, snap-in retainer	Minapore Meldin 8100 Porous Polyimide		Can be vacuum impregnated with oil. Speed to 200000 RPM. Temperature range from -400°F to 600°F	Only Open type	ABEC 5	On condition
S2MCP7	0.0400	0.1250	0.0469	12	2	<b>MCP</b> Description: one-piece, machined, snap-in retainer	Minapore Meldin 8100 Porous Polyimide		Can be vacuum impregnated with oil. Speed to 200000 RPM. Temperature range from -400°F to 600°F	Only Open type	ABEC 7	On condition
S2MCK5	0.0400	0.1250	0.0469	12	2	<b>MCK</b> Description: one-piece, snap-in molded retainer	Minapar II		Low friction torque, speeds to 200000 RPM. Low wear rate Ambient temperature to 275°F	Only Open type	ABEC 5	On condition
S2MCK7	0.0400	0.1250	0.0469	12	2	<b>MCK</b> Description: one-piece, snap-in molded retainer	Minapar II		Low friction torque, speeds to 200000 RPM. Low wear rate Ambient temperature to 275°F	Only Open type	ABEC 7	On condition
S2ST5	0.0400	0.1250	0.0469	12	2	<b>ST</b> Description: Tube type, slug seperator	Teflon	—	—	Only Open type	ABEC 5	On condition
S2ST7	0.0400	0.1250	0.0469	12	2	<b>ST</b> Description: Tube type, slug seperator	Teflon	—	—	Only Open type	ABEC 7	On condition








Timken P/N	Bore (Inch)	O.D (Inch)	Width (Inch)	Load ratings (lbs)		Configuration						Reference Speed limit (RPM)
				Dynamic	Static	径向深沟球轴承						
						STD Cage Code	Material	Design	Useful features	Shield	STD Bearing class	
S3332C5	0.0937	0.1875	0.0625	24.2	3.7	<b>C</b> Description: Balls in deep groove bearing separated by a one-piece snap-in pressed steel retainer	410 SST Hardened		Low frictional torque at speeds up to 10000 RPM Not to be used under high acceleration	Open type	ABEC 5	10000
S3332C7	0.0937	0.1875	0.0625	24.2	3.7	<b>C</b> Description: Balls in deep groove bearing separated by a one-piece snap-in pressed steel retainer	410 SST Hardened		Low frictional torque at speeds up to 10000 RPM Not to be used under high acceleration	Open type	ABEC 7	10000
S3332R5	0.0937	0.1875	0.0625	24.2	3.7	<b>R</b> Description: Ball in deep groove bearing separated by a two-piece, pressed steel retainer.	430 SST or 300 series SST		Low breakaway frictionat at speed to 10000 RPM High speeds may result in excessive wear.	Open type	ABEC 5	10000
S3332R7	0.0937	0.1875	0.0625	24.2	3.7	<b>R</b> Description: Ball in deep groove bearing separated by a two-piece, pressed steel retainer.	430 SST or 300 series SST		Low breakaway frictionat at speed to 10000 RPM High speeds may result in excessive wear.	Open type	ABEC 7	10000
S3332MC5	0.0937	0.1875	0.0625	24.2	3.7	<b>MC</b> Description: one-piece, machined, snap-in crown phenolic retainer	Phenolic Laminate		Can be vacuum impregnated with oil. Speed to 200000 RPM. Ambient temperature to 275 °F	Open type	ABEC 5	200000
S3332MC7	0.0937	0.1875	0.0625	24.2	3.7	<b>MC</b> Description: one-piece, machined, snap-in crown phenolic retainer	Phenolic Laminate		Can be vacuum impregnated with oil. Speed to 200000 RPM. Ambient temperature to 275 °F	Open type	ABEC 7	200000
S3332MCJ5	0.0937	0.1875	0.0625	24.2	3.7	<b>MCJ</b> Description: one-piece, machined, snap-in retainer	Glass reinforced teflon with MOS2		Self lubricated. Compatible with high vacuum and cryogenic environments. Temperature to 550°F	Open type	ABEC 5	On condition

















Timken P/N	Bore (Inch)	O.D (Inch)	Width (Inch)	Load ratings (lbs)		Configuration						Reference Speed limit (RPM)
						径向深沟球轴承						
				Dynamic	Static	STD Cage Code	Material	Design	Useful features	Shield	STD Bearing class	
S3332MCJ7	0.0937	0.1875	0.0625	24.2	3.7	<b>MCJ</b> Description: one-piece, machined, snap-in retainer	Glass reinforced teflon with MOS2		Self lubricated. Compatible with high vacuum and cryogenic environments. Temperature to 550°F	Open type	ABEC 7	On condition
S3332MCX5	0.0937	0.1875	0.0625	24.2	3.7	<b>MCX</b> Description: one-piece, machined, snap-in retainer	Bronze Reinforced Teflon		Self lubricated. Compatible with high vacuum and cryogenic environments. Temperature to 550°F	Open type	ABEC 5	On condition
S3332MCX7	0.0937	0.1875	0.0625	24.2	3.7	<b>MCX</b> Description: one-piece, machined, snap-in retainer	Bronze Reinforced Teflon		Self lubricated. Compatible with high vacuum and cryogenic environments. Temperature to 550°F	Open type	ABEC 7	On condition
S3332MCP5	0.0937	0.1875	0.0625	24.2	3.7	<b>MCP</b> Description: one-piece, machined, snap-in retainer	Minapore Meldin 8100 Porous Polyimide		Can be vacuum impregnated with oil. Speed to 200000 RPM. Temperature range from -400°F to 600 °F	Open type	ABEC 5	On condition
S3332MCP7	0.0937	0.1875	0.0625	24.2	3.7	<b>MCP</b> Description: one-piece, machined, snap-in retainer	Minapore Meldin 8100 Porous Polyimide		Can be vacuum impregnated with oil. Speed to 200000 RPM. Temperature range from -400°F to 600°F	Open type	ABEC 7	On condition
S3332MCK5	0.0937	0.1875	0.0625	24.2	3.7	<b>MCK</b> Description: one-piece, snap-in molded retainer	Minapar II		Low friction torque, speeds to 200000 RPM. Low wear rate Ambient temperature to 275°F	Open type	ABEC 5	On condition
S3332MCK7	0.0937	0.1875	0.0625	24.2	3.7	<b>MCK</b> Description: one-piece, snap-in molded retainer	Minapar II		Low friction torque, speeds to 200000 RPM. Low wear rate Ambient temperature to 275°F	Open type	ABEC 7	On condition
S3332ST5	0.0937	0.1875	0.0625	24.2	3.7	<b>ST</b> Description: Tube type, slug separator	Teflon	—	—	Open type	ABEC 5	On condition
S3332ST7	0.0937	0.1875	0.0625	24.2	3.7	<b>ST</b> Description: Tube type, slug separator	Teflon	—	—	Open type	ABEC 7	On condition








Timken P/N	Bore (Inch)	O.D (Inch)	Width (Inch)	Load ratings (lbs)		Configuration						Reference Speed limit (RPM)
						径向深沟球轴承						
				Dynamic	Static	STD Cage Code	Material	Design	Useful features	Shield	STD Bearing class	
S5632C5	0.1875	0.3125	0.1094	53.8	11.2	<b>C</b> Description: Balls in deep groove bearing separated by a one-piece snap-in pressed steel retainer	410 SST Hardened		Low frictional torque at speeds up to 10000 RPM Not to be used under high acceleration	Open type	ABEC 5	10000
S5632C7	0.1875	0.3125	0.1094	53.8	11.2	<b>C</b> Description: Balls in deep groove bearing separated by a one-piece snap-in pressed steel retainer	410 SST Hardened		Low frictional torque at speeds up to 10000 RPM Not to be used under high acceleration	Open type	ABEC 7	10000
S5632R5	0.1875	0.3125	0.1094	53.8	11.2	<b>R</b> Description: Ball in deep groove bearing separated by a two-piece, pressed steel retainer.	430 SST or 300 series SST		Low breakaway frictionat at speed to 10000 RPM High speeds may result in excessive wear.	Open type	ABEC 5	10000
S5632R7	0.1875	0.3125	0.1094	53.8	11.2	<b>R</b> Description: Ball in deep groove bearing separated by a two-piece, pressed steel retainer.	430 SST or 300 series SST		Low breakaway frictionat at speed to 10000 RPM High speeds may result in excessive wear.	Open type	ABEC 7	10000
S5632MC5	0.1875	0.3125	0.1094	53.8	11.2	<b>MC</b> Description: one-piece, machined, snap-in crown phenolic retainer	Phenolic Laminate		Can be vacuum impregnated with oil. Speed to 200000 RPM. Ambient temperature to 275 °F	Open type	ABEC 5	200000
S5632MC7	0.1875	0.3125	0.1094	53.8	11.2	<b>MC</b> Description: one-piece, machined, snap-in crown phenolic retainer	Phenolic Laminate		Can be vacuum impregnated with oil. Speed to 200000 RPM. Ambient temperature to 275 °F	Open type	ABEC 7	200000
S5632MCJ5	0.1875	0.3125	0.1094	53.8	11.2	<b>MCJ</b> Description: one-piece, machined, snap-in retainer	Glass reinforced teflon with MOS2		Self lubricated. Compatible with high vacuum and cryogenic environments. Temperature to 550°F	Open type	ABEC 5	On condition








Timken P/N	Bore (Inch)	O.D (Inch)	Width (Inch)	Load ratings (lbs)		Configuration						Reference Speed limit (RPM)
						径向深沟球轴承						
				Dynamic	Static	STD Cage Code	Material	Design	Useful features	Shield	STD Bearing class	
S5632MCJ7	0.1875	0.3125	0.1094	53.8	11.2	<b>MCJ</b> Description: one-piece, machined, snap-in retainer	Glass reinforced teflon with MOS2		Self lubricated. Compatible with high vacuum and cryogenic environments. Temperature to 550°F	Open type	ABEC 7	On condition
S5632MCX5	0.1875	0.3125	0.1094	53.8	11.2	<b>MCX</b> Description: one-piece, machined, snap-in retainer	Bronze Reinforced Teflon		Self lubricated. Compatible with high vacuum and cryogenic environments. Temperature to 550°F	Open type	ABEC 5	On condition
S5632MCX7	0.1875	0.3125	0.1094	53.8	11.2	<b>MCX</b> Description: one-piece, machined, snap-in retainer	Bronze Reinforced Teflon		Self lubricated. Compatible with high vacuum and cryogenic environments. Temperature to 550°F	Open type	ABEC 7	On condition
S5632MCP5	0.1875	0.3125	0.1094	53.8	11.2	<b>MCP</b> Description: one-piece, machined, snap-in retainer	Minapore Meldin 8100 Porous Polyimide		Can be vacuum impregnated with oil. Speed to 200000 RPM. Temperature range from -400°F to 600 °F	Open type	ABEC 5	On condition
S5632MCP7	0.1875	0.3125	0.1094	53.8	11.2	<b>MCP</b> Description: one-piece, machined, snap-in retainer	Minapore Meldin 8100 Porous Polyimide		Can be vacuum impregnated with oil. Speed to 200000 RPM. Temperature range from -400°F to 600 °F	Open type	ABEC 7	On condition
S5632MCK5	0.1875	0.3125	0.1094	53.8	11.2	<b>MCK</b> Description: one-piece, snap-in molded retainer	Minapar II		Low friction torque, speeds to 200000 RPM. Low wear rate Ambient temperature to 275 °F	Open type	ABEC 5	On condition
S5632MCK7	0.1875	0.3125	0.1094	53.8	11.2	<b>MCK</b> Description: one-piece, snap-in molded retainer	Minapar II		Low friction torque, speeds to 200000 RPM. Low wear rate Ambient temperature to 275 °F	Open type	ABEC 7	On condition
S5632ST5	0.1875	0.3125	0.1094	53.8	11.2	<b>ST</b> Description: Tube type, slug separator	Teflon	—	—	Open type	ABEC 5	On condition
S5632ST7	0.1875	0.3125	0.1094	53.8	11.2	<b>ST</b> Description: Tube type, slug separator	Teflon	—	—	Open type	ABEC 7	On condition

Timken P/N	Bore (Inch)	O.D (Inch)	Width (Inch)	Load ratings (lbs)		Configuration						Reference Speed limit (RPM)
						径向深沟球轴承						
				Dynamic	Static	STD Cage Code	Material	Design	Useful features	Shield	STD Bearing class	
SR2C5	0.1250	0.3750	0.1562	85.3	17.1	<b>C</b> Description: Balls in deep groove bearing separated by a one-piece snap-in pressed steel retainer	410 SST Hardened		Low frictional torque at speeds up to 10000 RPM Not to be used under high acceleration	Open type	ABEC 5	10000
SR2C7	0.1250	0.3750	0.1562	85.3	17.1	<b>C</b> Description: Balls in deep groove bearing separated by a one-piece snap-in pressed steel retainer	410 SST Hardened		Low frictional torque at speeds up to 10000 RPM Not to be used under high acceleration	Open type	ABEC 7	10000
SR2R5	0.1250	0.3750	0.1562	85.3	17.1	<b>R</b> Description: Ball in deep groove bearing separated by a two-piece, pressed steel retainer.	430 SST or 300 series SST		Low breakaway frictionat at speed to 10000 RPM High speeds may result in excessive wear.	Open type	ABEC 5	10000
SR2R7	0.1250	0.3750	0.1562	85.3	17.1	<b>R</b> Description: Ball in deep groove bearing separated by a two-piece, pressed steel retainer.	430 SST or 300 series SST		Low breakaway frictionat at speed to 10000 RPM High speeds may result in excessive wear.	Open type	ABEC 7	10000
SR2MC5	0.1250	0.3750	0.1562	85.3	17.1	<b>MC</b> Description: one-piece, machined, snap-in crown phenolic retainer	Phenolic Laminate		Can be vacuum impregnated with oil. Speed to 200000 RPM. Ambient temperature to 275 °F	Open type	ABEC 5	200000
SR2MC7	0.1250	0.3750	0.1562	85.3	17.1	<b>MC</b> Description: one-piece, machined, snap-in crown phenolic retainer	Phenolic Laminate		Can be vacuum impregnated with oil. Speed to 200000 RPM. Ambient temperature to 275 °F	Open type	ABEC 7	200000
SR2MCJ5	0.1250	0.3750	0.1562	85.3	17.1	<b>MCJ</b> Description: one-piece, machined, snap-in retainer	Glass reinforced teflon with MOS2		Self lubricated. Compatible with high vacuum and cryogenic environments. Temperature to 550°F	Open type	ABEC 5	On condition








Timken P/N	Bore (Inch)	O.D (Inch)	Width (Inch)	Load ratings (lbs)		Configuration						Reference Speed limit (RPM)
						径向深沟球轴承						
				Dynamic	Static	STD Cage Code	Material	Design	Useful features	Shield	STD Bearing class	
SR2MCJ7	0.1250	0.3750	0.1562	85.3	17.1	<b>MCJ</b> Description: one-piece, machined, snap-in retainer	Glass reinforced teflon with MOS2		Self lubricated. Compatible with high vacuum and cryogenic environments. Temperature to 550°F	Open type	ABEC 7	On condition
SR2MCX5	0.1250	0.3750	0.1562	85.3	17.1	<b>MCX</b> Description: one-piece, machined, snap-in retainer	Bronze Reinforced Teflon		Self lubricated. Compatible with high vacuum and cryogenic environments. Temperature to 550°F	Open type	ABEC 5	On condition
SR2MCX7	0.1250	0.3750	0.1562	85.3	17.1	<b>MCX</b> Description: one-piece, machined, snap-in retainer	Bronze Reinforced Teflon		Self lubricated. Compatible with high vacuum and cryogenic environments. Temperature to 550°F	Open type	ABEC 7	On condition
SR2MCP5	0.1250	0.3750	0.1562	85.3	17.1	<b>MCP</b> Description: one-piece, machined, snap-in retainer	Minapore Meldin 8100 Porous Polyimide		Can be vacuum impregnated with oil. Speed to 200000 RPM. Temperature range from -400°F to 600 °F	Open type	ABEC 5	On condition
SR2MCP7	0.1250	0.3750	0.1562	85.3	17.1	<b>MCP</b> Description: one-piece, machined, snap-in retainer	Minapore Meldin 8100 Porous Polyimide		Can be vacuum impregnated with oil. Speed to 200000 RPM. Temperature range from -400°F to 600 °F	Open type	ABEC 7	On condition
SR2MCK5	0.1250	0.3750	0.1562	85.3	17.1	<b>MCK</b> Description: one-piece, snap-in molded retainer	Minapar II		Low friction torque, speeds to 200000 RPM. Low wear rate Ambient temperature to 275 °F	Open type	ABEC 5	On condition
SR2MCK7	0.1250	0.3750	0.1562	85.3	17.1	<b>MCK</b> Description: one-piece, snap-in molded retainer	Minapar II		Low friction torque, speeds to 200000 RPM. Low wear rate Ambient temperature to 275 °F	Open type	ABEC 7	On condition
SR2ST5	0.1250	0.3750	0.1562	85.3	17.1	<b>ST</b> Description: Tube type, slug separator	Teflon	—	—	Open type	ABEC 5	On condition
SR2ST7	0.1250	0.3750	0.1562	85.3	17.1	<b>ST</b> Description: Tube type, slug separator	Teflon	—	—	Open type	ABEC 7	On condition

Timken P/N	Bore (Inch)	O.D (Inch)	Width (Inch)	Load ratings (lbs)		Configuration						Reference Speed limit (RPM)
						径向深沟球轴承						
				Dynamic	Static	STD Cage Code	Material	Design	Useful features	Shield	STD Bearing class	
SR3C5	0.1875	0.5000	0.1562	178.3	41.5	<b>C</b> Description: Balls in deep groove bearing separated by a one-piece snap-in pressed steel retainer	410 SST Hardened		Low frictional torque at speeds up to 10000 RPM Not to be used under high acceleration	Open type	ABEC 5	10000
SR3C7	0.1875	0.5000	0.1562	178.3	41.5	<b>C</b> Description: Balls in deep groove bearing separated by a one-piece snap-in pressed steel retainer	410 SST Hardened		Low frictional torque at speeds up to 10000 RPM Not to be used under high acceleration	Open type	ABEC 7	10000
SR3R5	0.1875	0.5000	0.1562	178.3	41.5	<b>R</b> Description: Ball in deep groove bearing separated by a two-piece, pressed steel retainer.	430 SST or 300 series SST		Low breakaway frictionat at speed to 10000 RPM High speeds may result in excessive wear.	Open type	ABEC 5	10000
SR3R7	0.1875	0.5000	0.1562	178.3	41.5	<b>R</b> Description: Ball in deep groove bearing separated by a two-piece, pressed steel retainer.	430 SST or 300 series SST		Low breakaway frictionat at speed to 10000 RPM High speeds may result in excessive wear.	Open type	ABEC 7	10000
SR3MC5	0.1875	0.5000	0.1562	178.3	41.5	<b>MC</b> Description: one-piece, machined, snap-in crown phenolic retainer	Phenolic Laminate		Can be vacuum impregnated with oil. Speed to 200000 RPM. Ambient temperature to 275 °F	Open type	ABEC 5	200000
SR3MC7	0.1875	0.5000	0.1562	178.3	41.5	<b>MC</b> Description: one-piece, machined, snap-in crown phenolic retainer	Phenolic Laminate		Can be vacuum impregnated with oil. Speed to 200000 RPM. Ambient temperature to 275 °F	Open type	ABEC 7	200000
SR3MCJ5	0.1875	0.5000	0.1562	178.3	41.5	<b>MCJ</b> Description: one-piece, machined, snap-in retainer	Glass reinforced teflon with MOS2		Self lubricated. Compatible with high vacuum and cryogenic environments. Temperature to 550°F	Open type	ABEC 5	On condition









Timken P/N	Bore (Inch)	O.D (Inch)	Width (Inch)	Load ratings (lbs)		Configuration						Reference Speed limit (RPM)
						径向深沟球轴承						
				Dynamic	Static	STD Cage Code	Material	Design	Useful features	Shield	STD Bearing class	
SR3MCJ7	0.1875	0.5000	0.1562	178.3	41.5	<b>MCJ</b> Description: one-piece, machined, snap-in retainer	Glass reinforced teflon with MOS2		Self lubricated. Compatible with high vacuum and cryogenic environments. Temperature to 550°F	Open type	ABEC 7	On condition
SR3MCX5	0.1875	0.5000	0.1562	178.3	41.5	<b>MCX</b> Description: one-piece, machined, snap-in retainer	Bronze Reinforced Teflon		Self lubricated. Compatible with high vacuum and cryogenic environments. Temperature to 550°F	Open type	ABEC 5	On condition
SR3MCX7	0.1875	0.5000	0.1562	178.3	41.5	<b>MCX</b> Description: one-piece, machined, snap-in retainer	Bronze Reinforced Teflon		Self lubricated. Compatible with high vacuum and cryogenic environments. Temperature to 550°F	Open type	ABEC 7	On condition
SR3MCP5	0.1875	0.5000	0.1562	178.3	41.5	<b>MCP</b> Description: one-piece, machined, snap-in retainer	Minapore Meldin 8100 Porous Polyimide		Can be vacuum impregnated with oil. Speed to 200000 RPM. Temperature range from -400°F to 600 °F	Open type	ABEC 5	On condition
SR3MCP7	0.1875	0.5000	0.1562	178.3	41.5	<b>MCP</b> Description: one-piece, machined, snap-in retainer	Minapore Meldin 8100 Porous Polyimide		Can be vacuum impregnated with oil. Speed to 200000 RPM. Temperature range from -400°F to 600 °F	Open type	ABEC 7	On condition
SR3MCK5	0.1875	0.5000	0.1562	178.3	41.5	<b>MCK</b> Description: one-piece, snap-in molded retainer	Minapar II		Low friction torque, speeds to 200000 RPM. Low wear rate Ambient temperature to 275 °F	Open type	ABEC 5	On condition
SR3MCK7	0.1875	0.5000	0.1562	178.3	41.5	<b>MCK</b> Description: one-piece, snap-in molded retainer	Minapar II		Low friction torque, speeds to 200000 RPM. Low wear rate Ambient temperature to 275 °F	Open type	ABEC 7	On condition
SR3ST5	0.1875	0.5000	0.1562	178.3	41.5	<b>ST</b> Description: Tube type, slug separator	Teflon	—	—	Open type	ABEC 5	On condition
SR3ST7	0.1875	0.5000	0.1562	178.3	41.5	<b>ST</b> Description: Tube type, slug separator	Teflon	—	—	Open type	ABEC 7	On condition

Timken P/N	Bore (Inch)	O.D (Inch)	Width (Inch)	Load ratings (lbs)		Configuration						Reference Speed limit (RPM)
						径向深沟球轴承						
				Dynamic	Static	STD Cage Code	Material	Design	Useful features	Shield	STD Bearing class	
SR4C5	0.2500	0.6250	0.1960	203.3	53.5	<b>C</b> Description: Balls in deep groove bearing separated by a one-piece snap-in pressed steel retainer	410 SST Hardened		Low frictional torque at speeds up to 10000 RPM Not to be used under high acceleration	Open type	ABEC 5	10000
SR4C7	0.2500	0.6250	0.1960	203.3	53.5	<b>C</b> Description: Balls in deep groove bearing separated by a one-piece snap-in pressed steel retainer	410 SST Hardened		Low frictional torque at speeds up to 10000 RPM Not to be used under high acceleration	Open type	ABEC 7	10000
SR4R5	0.2500	0.6250	0.1960	203.3	53.5	<b>R</b> Description: Ball in deep groove bearing separated by a two-piece, pressed steel retainer.	430 SST or 300 series SST		Low breakaway frictionat at speed to 10000 RPM High speeds may result in excessive wear.	Open type	ABEC 5	10000
SR4R7	0.2500	0.6250	0.1960	203.3	53.5	<b>R</b> Description: Ball in deep groove bearing separated by a two-piece, pressed steel retainer.	430 SST or 300 series SST		Low breakaway frictionat at speed to 10000 RPM High speeds may result in excessive wear.	Open type	ABEC 7	10000
SR4MC5	0.2500	0.6250	0.1960	203.3	53.5	<b>MC</b> Description: one-piece, machined, snap-in crown phenolic retainer	Phenolic Laminate		Can be vacuum impregnated with oil. Speed to 200000 RPM. Ambient temperature to 275 °F	Open type	ABEC 5	200000
SR4MC7	0.2500	0.6250	0.1960	203.3	53.5	<b>MC</b> Description: one-piece, machined, snap-in crown phenolic retainer	Phenolic Laminate		Can be vacuum impregnated with oil. Speed to 200000 RPM. Ambient temperature to 275 °F	Open type	ABEC 7	200000
SR4MCJ5	0.2500	0.6250	0.1960	203.3	53.5	<b>MCJ</b> Description: one-piece, machined, snap-in retainer	Glass reinforced teflon with MOS2		Self lubricated. Compatible with high vacuum and cryogenic environments. Temperature to 550°F	Open type	ABEC 5	On condition













Timken P/N	Bore (Inch)	O.D (Inch)	Width (Inch)	Load ratings (lbs)		Configuration						Reference Speed limit (RPM)
						径向深沟球轴承						
				Dynamic	Static	STD Cage Code	Material	Design	Useful features	Shield	STD Bearing class	
SR4MCJ7	0.2500	0.6250	0.1960	203.3	53.5	<b>MCJ</b> Description: one-piece, machined, snap-in retainer	Glass reinforced teflon with MOS2		Self lubricated. Compatible with high vacuum and cryogenic environments. Temperature to 550°F	Open type	ABEC 7	On condition
SR3MCX5	0.2500	0.6250	0.1960	203.3	53.5	<b>MCX</b> Description: one-piece, machined, snap-in retainer	Bronze Reinforced Teflon		Self lubricated. Compatible with high vacuum and cryogenic environments. Temperature to 550°F	Open type	ABEC 5	On condition
SR4MCX7	0.2500	0.6250	0.1960	203.3	53.5	<b>MCX</b> Description: one-piece, machined, snap-in retainer	Bronze Reinforced Teflon		Self lubricated. Compatible with high vacuum and cryogenic environments. Temperature to 550°F	Open type	ABEC 7	On condition
SR4MCP5	0.2500	0.6250	0.1960	203.3	53.5	<b>MCP</b> Description: one-piece, machined, snap-in retainer	Minapore Meldin 8100 Porous Polyimide		Can be vacuum impregnated with oil. Speed to 200000 RPM. Temperature range from -400°F to 600 °F	Open type	ABEC 5	On condition
SR4MCP7	0.2500	0.6250	0.1960	203.3	53.5	<b>MCP</b> Description: one-piece, machined, snap-in retainer	Minapore Meldin 8100 Porous Polyimide		Can be vacuum impregnated with oil. Speed to 200000 RPM. Temperature range from -400°F to 600 °F	Open type	ABEC 7	On condition
SR4MCK5	0.2500	0.6250	0.1960	203.3	53.5	<b>MCK</b> Description: one-piece, snap-in molded retainer	Minapar II		Low friction torque, speeds to 200000 RPM. Low wear rate Ambient temperature to 275 °F	Open type	ABEC 5	On condition
SR4MCK7	0.2500	0.6250	0.1960	203.3	53.5	<b>MCK</b> Description: one-piece, snap-in molded retainer	Minapar II		Low friction torque, speeds to 200000 RPM. Low wear rate Ambient temperature to 275 °F	Open type	ABEC 7	On condition
SR4ST5	0.2500	0.6250	0.1960	203.3	53.5	<b>ST</b> Description: Tube type, slug seperator	Teflon	—	—	Open type	ABEC 5	On condition
SR4ST7	0.2500	0.6250	0.1960	203.3	53.5	<b>ST</b> Description: Tube type, slug seperator	Teflon	—	—	Open type	ABEC 7	On condition

## Deep groove, radial retainer, single shield narrow series miniature & instrument ball bearing

Timken P/N	Bore (Inch)	O.D (Inch)	Width (Inch)	Load ratings (lbs)		Configuration						Reference Speed limit (RPM)
				Dynamic	Static	深沟单防尘盖窄系列径向球轴承						
						STD Cage Code	Material	Design	Useful features	Shield	STD Bearing class	
S518RHN5	0.1250	0.3125	0.1094	77.9	14.8	<b>R</b> Description: Ball in deep groove bearing separated by a two-piece, pressed steel retainer.	430 SST or 300 series SST		Low breakaway friction at speed to 10000 RPM High speeds may result in excessive wear.	Single shield Narrow series	5P	10000
S518RHN7	0.1250	0.3125	0.1094	77.9	14.8	<b>R</b> Description: Ball in deep groove bearing separated by a two-piece, pressed steel retainer.	430 SST or 300 series SST		Low breakaway friction at speed to 10000 RPM High speeds may result in excessive wear.	Single shield Narrow series	7P	10000
S518CHN5	0.1250	0.3125	0.1094	77.9	14.8	<b>C</b> Description: Balls in deep groove bearing separated by a one-piece snap-in pressed steel retainer	410 SST Hardened		Low frictional torque at speeds up to 10000 RPM Not to be used under high acceleration	Single shield Narrow series	5P	10000
S518CHN7	0.1250	0.3125	0.1094	77.9	14.8	<b>C</b> Description: Balls in deep groove bearing separated by a one-piece snap-in pressed steel retainer	410 SST Hardened		Low frictional torque at speeds up to 10000 RPM Not to be used under high acceleration	Single shield Narrow series	7P	10000
S5632RHN5	0.1875	0.3125	0.1094	53.7	11.2	<b>R</b> Description: Ball in deep groove bearing separated by a two-piece, pressed steel retainer.	430 SST or 300 series SST		Low breakaway friction at speed to 10000 RPM High speeds may result in excessive wear.	Single shield Narrow series	5P	10000
S5632RHN7	0.1875	0.3125	0.1094	53.7	11.2	<b>R</b> Description: Ball in deep groove bearing separated by a two-piece, pressed steel retainer.	430 SST or 300 series SST		Low breakaway friction at speed to 10000 RPM High speeds may result in excessive wear.	Single shield Narrow series	7P	10000
S5632CHN5	0.1875	0.3125	0.1094	53.7	11.2	<b>C</b> Description: Balls in deep groove bearing separated by a one-piece snap-in pressed steel retainer	410 SST Hardened		Low frictional torque at speeds up to 10000 RPM Not to be used under high acceleration	Single shield Narrow series	5P	10000
S5632CHN7	0.1875	0.3125	0.1094	53.7	11.2	<b>C</b> Description: Balls in deep groove bearing separated by a one-piece snap-in pressed steel retainer	410 SST Hardened		Low frictional torque at speeds up to 10000 RPM Not to be used under high acceleration	Single shield Narrow series	7P	10000

## Deep groove, radial retainer, modified dimension miniature & instrument ball bearing

Timken P/N	Bore (Inch)	O.D (Inch)	Width (Inch)	Load ratings (lbs)		Configurations 尺寸修改后径向深沟球轴承						Reference Speed limit (RPM) <sup>a</sup>
				Dynamic	Static	STD Cage Code	Material	Design	Useful features	Shield	STD Bearing class	
A281- (Sequential number)	0.1250	0.3750	0.1094	38	6.8	C Description: Balls in deep groove bearing separated by a one-piece snap-in pressed steel retainer.	410 SST Hardened		Low frictional torque at speeds up to 10000 RPM Not to be used under high acceleration.	double shield	7P	10000
A430- (Sequential number)	0.1250	0.5000	0.1094	38	6.8	C Description: Balls in deep groove bearing separated by a one-piece snap-in pressed steel retainer.	410 SST Hardened		Low frictional torque at speeds up to 10000 RPM Not to be used under high acceleration.	single shield	5P	10000
A431- (Sequential number)	0.1250	0.5000	0.1094	38	6.8	C Description: Balls in deep groove bearing separated by a one-piece snap-in pressed steel retainer.	410 SST Hardened		Low frictional torque at speeds up to 10000 RPM Not to be used under high acceleration.	double shield	5P	10000
A521- (Sequential number)	0.1250	0.4100	0.0937	50.2	11.9	C Description: Balls in deep groove bearing separated by a one-piece snap-in pressed steel retainer.	410 SST Hardened		Low frictional torque at speeds up to 10000 RPM Not to be used under high acceleration.	single shield	7P	10000
B698- (Sequential number)	0.2500	0.7500	0.1960	203	53.5	R Description: Ball in deep groove bearing separated by a two-piece, pressed steel retainer.	430 SST or 300 series SST		Low breakaway frictionat at speed to 10000 RPM High speeds may result in excessive wear.	double shield	7P	10000
A834- (Sequential number)	0.1250	0.3750	0.0937	41.5	7.8	R Description: Ball in deep groove bearing separated by a two-piece, pressed steel retainer.	430 SST or 300 series SST		Low breakaway frictionat at speed to 10000 RPM High speeds may result in excessive wear.	double shield	7P	10000
B70- (Sequential number)	0.1250	0.4100	0.0937	41.5	7.7	R Description: Ball in deep groove bearing separated by a two-piece, pressed steel retainer.	430 SST or 300 series SST		Low breakaway frictionat at speed to 10000 RPM High speeds may result in excessive wear.	double shield	5P	10000
B703- (Sequential number)	0.2500	0.5000	0.1562	119	34.6	R Description: Ball in deep groove bearing separated by a two-piece, pressed steel retainer.	430 SST or 300 series SST		Low breakaway frictionat at speed to 10000 RPM High speeds may result in excessive wear.	double shield	7P	10000
G229- (Sequential number)	0.3750	0.6250	0.1960	140	53.2	ST Description: PTFE slug separators Tube type	TEFLON Confirming to AMS 3651, AMS 3656	—	—	double shield	7P	—









Timken P/N	Bore (Inch)	O.D (Inch)	Width Inner (Inch)	Width Outer (Inch)	Load ratings (lbs)		Configuration								Reference Speed limit (RPM)
							尺寸修改后的带法兰的径向深沟球轴承								
					Dynamic	Static	STD Cage Code	Material	Design	Useful features	Shield	Flanged Dia	Flanged Width	STD Bearing class	
E685- (Sequential number)	0.3125	0.5000	0.1094	0.1094	119	34.8	<b>R</b> Description: Ball in deep groove bearing separated by a two-piece, pressed steel retainer.	430 SST or 300 series SST		Low breakaway friction at speed to 10000 RPM High speeds may result in excessive wear.	open type	0.547	0.023	5P	10000
D983- (Sequential number)	0.2500	0.5000	0.2650	0.1250	113	30.9	<b>C</b> Description: Balls in deep groove bearing separated by a one-piece snap-in pressed steel retainer.	410 SST Hardened		Low frictional torque at speeds up to 10000 RPM Not to be used under high acceleration	open type	0.547	0.023	7P	10000

## Deep groove, full complement miniature & instrument ball bearing







Timken P/N	Bore (Inch)	O.D (Inch)	Width (Inch)	Load ratings (lbs)		Configuration						Reference Speed limit (RPM)
						带法兰的深沟满滚珠径向球轴承						
				Dynamic	Static (Steel ball)	STD Cage Code	Design	Shield	Flanged Dia	Flanged Width	STD Bearing class	
S518F5	0.1250	0.3125	0.1094	116.7	27.2	N/A Full complement		Open	0.359	0.023	5P	—
S518F7											7P	
S5632F5	0.1875	0.3125	0.1094	93.2	25.7	N/A Full complement		Open	0.359	0.023	5P	—
S5632F7											7P	






Timken P/N	Bore (Inch)	O.D (Inch)	Width (Inch)	Load ratings (lbs)		Configuration					Reference Speed limit (RPM)
						满滚珠深沟径向球轴承					
				Dynamic	Static	STD Cage Code	Design	Useful features	Shield	STD Bearing class	
S1005	0.0250	0.1000	0.0312	13	1.5	N/A Full Complement		High radial load High torque due to ball rubbing	Open	5P	—
S1007										7P	—
S25	0.0400	0.1250	0.0469	19	2.5	N/A Full Complement		High radial load High torque due to ball rubbing	Open	5P	—
S27										7P	—
S33325	0.0937	0.1875	0.0625	38.4	7.4	N/A Full Complement		High radial load High torque due to ball rubbing	Open	5P	—
S33327										7P	—
S518HH5	0.1250	0.3125	0.1406	116.7	27.2	N/A Full Complement		High radial load High torque due to ball rubbing	Double shield	5P	—
S518HH7										7P	—
S56325	0.1875	0.3125	0.1094	25.7	93.2	N/A Full Complement		High radial load High torque due to ball rubbing	Open	5P	—
S56327										7P	—
SR25	0.1250	0.3750	0.1562	122.2	29.3	N/A Full Complement		High radial load High torque due to ball rubbing	Open	5P	—
SR27										7P	—
SR35	0.1875	0.5000	0.1562	241.1	65.3	N/A Full Complement		High radial load High torque due to ball rubbing	Open	5P	—
SR37										7P	—
SR45	0.2500	0.6250	0.1960	295.2	93.6	N/A Full Complement		High radial load High torque due to ball rubbing	Open	5P	—
SR47										7P	—

## Separable angular contact miniature &amp; instrument ball bearing




Timken P/N	Bore (Inch)	O.D (Inch)	Width (Inch)	Load ratings (lbs)				Configuration						Reference Speed limit (RPM)
				Dynamic	Static	R.I.C Range (Inch)	Reference Contact Angle Range (degree)	可分离式角接触球轴承						
								STD Cage Code	Material	Design	Useful features	Shield	STD Bearing class	
S518MB5	0.1250	0.3125	0.1094	88.3	17.2	0.0004 TO 0.0010	12.5 TO 19.5	<b>MB</b> Description: Angular contact, Separable bearing with one-piece, step pocked machined retainer.	Phenolic Laminate		Retains balls in outer race allowing removal of innr race. Ambinent temperature to 275° F	Open	ABEC 5	200000
				85.4	15	0.0010 TO 0.0018	19.5 TO 26.5							
S518MB7	0.1250	0.3125	0.1094	88.3	17.2	0.0004 TO 0.0010	12.5 TO 19.5	<b>MB</b> Description: Angular contact, Separable bearing with one-piece, step pocked machined retainer.	Phenolic Laminate		Retains balls in outer race allowing removal of innr race. Ambinent temperature to 275° F	Open	ABEC 7	200000
				85.4	15	0.0010 TO 0.0018	19.5 TO 26.5							
SR2MB5	0.1250	0.3750	0.1562	82	15.1	0.0004 TO 0.0010	12.5 TO 19.5	<b>MB</b> Description: Angular contact, Separable bearing with one-piece, step pocked machined retainer.	Phenolic Laminate		Retains balls in outer race allowing removal of innr race. Ambinent temperature to 275° F	Open	ABEC 5	200000
				80.3	13.4	0.0010 TO 0.0018	19.5 TO 26.5							
SR2MB7	0.1250	0.3750	0.1562	82	15.1	0.0004 TO 0.0010	12.5 TO 19.5	<b>MB</b> Description: Angular contact, Separable bearing with one-piece, step pocked machined retainer.	Phenolic Laminate		Retains balls in outer race allowing removal of innr race. Ambinent temperature to 275° F	Open	ABEC 7	200000
				80.3	13.4	0.0010 TO 0.0018	19.5 TO 26.5							
SR3MB5	0.1875	0.5000	0.1562	178	38.5	0.0004 TO 0.0012	10 TO 18	<b>MB</b> Description: Angular contact, Separable bearing with one-piece, step pocked machined retainer.	Phenolic Laminate		Retains balls in outer race allowing removal of innr race. Ambinent temperature to 275° F	Open	ABEC 5	200000
				175	33.4	0.0012 TO 0.0020	18 TO 23							
				173	32.2	0.0020 TO 0.0025	23 TO 26							
SR3MB7	0.1875	0.5000	0.1562	178	38.5	0.0004 TO 0.0012	10 TO 18	<b>MB</b> Description: Angular contact, Separable bearing with one-piece, step pocked machined retainer.	Phenolic Laminate		Retains balls in outer race allowing removal of innr race. Ambinent temperature to 275° F	Open	ABEC 7	200000
				175	33.4	0.0012 TO 0.0020	18 TO 23							
				173	32.2	0.0020 TO 0.0025	23 TO 26							
SR4MB5	0.2500	0.6250	0.1960	201	49.3	0.0004 TO 0.0012	10 TO 18	<b>MB</b> Description: Angular contact, Separable bearing with one-piece, step pocked machined retainer.	Phenolic Laminate		Retains balls in outer race allowing removal of innr race. Ambinent temperature to 275° F	Open	ABEC 5	200000
				197	43	0.0012 TO 0.0020	18 TO 23							
				194	40.1	0.0020 TO 0.0025	23 TO 26							
SR4MB7	0.2500	0.6250	0.1960	201	49.3	0.0004 TO 0.0012	10 TO 18	<b>MB</b> Description: Angular contact, Separable bearing with one-piece, step pocked machined retainer.	Phenolic Laminate		Retains balls in outer race allowing removal of innr race. Ambinent temperature to 275° F	Open	ABEC 7	200000
				197	43	0.0012 TO 0.0020	18 TO 23							
				194	40.1	0.0020 TO 0.0025	23 TO 26							

## Non-separable angular contact miniature & instrument ball bearing


Timken P/N	Bore (Inch)	O.D (Inch)	Width (Inch)	Load ratings (lbs)				Configuration						Reference Speed (RPM)
				Dynamic	Static	R.I.C Range (Inch)	Reference Contact Angle Range (degree)	不可分离式角接触球轴承						
								STD Cage Code	Material	Design	Useful features	Shield	STD Bearing class	
S518M5	0.1250	0.3125	0.1094	84.5	20	0.0002 TO 0.0005	9 TO 14	<b>M</b> Description: Angular contact, non-separable bearing with one-piece machined retiner.	Phenolic Laminate		Can be vacuum impregnated with oil for long life. Operates at speeds to 400000 RPM	Open	ABEC 5	400000
				88.5	17.7	0.0005 TO 0.0009	14 TO 19							
				87.1	16	0.0009 TO 0.0013	19 TO 22.5							
S518M7	0.1250	0.3125	0.1094	84.5	20	0.0002 TO 0.0005	9 TO 14	<b>M</b> Description: Angular contact, non-separable bearing with one-piece machined retiner.	Phenolic Laminate		Can be vacuum impregnated with oil for long life. Operates at speeds to 400000 RPM	Open	ABEC 7	400000
				88.5	17.7	0.0005 TO 0.0009	14 TO 19							
				87.1	16	0.0009 TO 0.0013	19 TO 22.5							
S518MP5	0.1250	0.3125	0.1094	84.5	20	0.0002 TO 0.0005	9 TO 14	<b>MP</b> Description: Angular contact, one-piece machined through hole, Porous polyimide.	Minapore Meldin 8100 Porous Plyimide		High oil retention when vacuum impregnated. Speeds up to 200000 RPM	Open	ABEC 5	200000
				88.5	17.7	0.0005 TO 0.0009	14 TO 19							
				87.1	16	0.0009 TO 0.0013	19 TO 22.5							
S518MP7	0.1250	0.3125	0.1094	84.5	20	0.0002 TO 0.0005	9 TO 14	<b>MP</b> Description: Angular contact, one-piece machined through hole, Porous polyimide.	Minapore Meldin 8100 Porous Plyimide		High oil retention when vacuum impregnated. Speeds up to 200000 RPM	Open	ABEC 7	200000
				88.5	17.7	0.0005 TO 0.0009	14 TO 19							
				87.1	16	0.0009 TO 0.0013	19 TO 22.5							
S518MR5	0.1250	0.3125	0.1094	84.5	20	0.0002 TO 0.0005	9 TO 14	<b>MR</b> Description: Full ball complement, No retainer used	—		—	Open	ABEC 5	—
				88.5	17.7	0.0005 TO 0.0009	14 TO 19							
				87.1	16	0.0009 TO 0.0013	19 TO 22.5							
S518MR7	0.1250	0.3125	0.1094	84.5	20	0.0002 TO 0.0005	9 TO 14	<b>MR</b> Description: Full ball complement, No retainer used.	—		—	Open	ABEC 7	—
				88.5	17.7	0.0005 TO 0.0009	14 TO 19							
				87.1	16	0.0009 TO 0.0013	19 TO 22.5							
S518MX5	0.1250	0.3125	0.1094	84.5	20	0.0002 TO 0.0005	9 TO 14	<b>MX</b> Description: One piece, machined through hole, salox M	Salox M	—	—	Open	ABEC 5	—
				88.5	17.7	0.0005 TO 0.0009	14 TO 19							
				87.1	16	0.0009 TO 0.0013	19 TO 22.5							

Timken P/N	Bore (Inch)	O.D (Inch)	Width (Inch)	Load ratings (lbs)				Configuration						Reference Speed (RPM)
				Dynamic	Static	R.I.C Range (Inch)	Reference Contact Angle Range (degree)	不可分离式角接触球轴承						
								STD Cage Code	Material	Design	Useful features	Shield	STD Bearing class	
S518MX7	0.1250	0.3125	0.1094	84.5	20	0.0002 TO 0.0005	9 TO 14	<b>MX</b> Description: One piece, machined through hole, salox M	Salox M	—	—	Open	ABEC 7	—
				88.5	17.7	0.0005 TO 0.0009	14 TO 19							
				87.1	16	0.0009 TO 0.0013	19 TO 22.5							
SR2M5	0.1250	0.3750	0.1562	98.2	24.2	0.0002 TO 0.0005	11 TO 17	<b>M</b> Description: Angular contact, non-separable bearing with one-piece machined retiner.	Phenolic Laminate		Can be vacuum impregnated with oil for long life. Operates at speeds to 400000 RPM	Open	ABEC 5	400000
				96.5	21.4	0.0005 TO 0.0009	17 TO 23							
				94.6	19.4	0.0009 TO 0.0013	23 TO 28							
SR2M7	0.1250	0.3750	0.1562	98.2	24.2	0.0002 TO 0.0005	11 TO 17	<b>M</b> Description: Angular contact, non-separable bearing with one-piece machined retiner.	Phenolic Laminate		Can be vacuum impregnated with oil for long life. Operates at speeds to 400000 RPM	Open	ABEC 7	400000
				96.5	21.4	0.0005 TO 0.0009	17 TO 23							
				94.6	19.4	0.0009 TO 0.0013	23 TO 28							
SR2MP5	0.1250	0.3750	0.1562	98.2	24.2	0.0002 TO 0.0005	11 TO 17	<b>MP</b> Description: Angular contact, one-piece machined through hole, Porous polyimide.	Minapore Meldin 8100 Porous Polyimide		High oil retention when vacuum impregnated. Speeds up to 200000 RPM	Open	ABEC 5	200000
				96.5	21.4	0.0005 TO 0.0009	17 TO 23							
				94.6	19.4	0.0009 TO 0.0013	23 TO 28							
SR2MP7	0.1250	0.3750	0.1562	98.2	24.2	0.0002 TO 0.0005	11 TO 17	<b>MP</b> Description: Angular contact, one-piece machined through hole, Porous polyimide.	Minapore Meldin 8100 Porous Polyimide		High oil retention when vacuum impregnated. Speeds up to 200000 RPM	Open	ABEC 7	200000
				96.5	21.4	0.0005 TO 0.0009	17 TO 23							
				94.6	19.4	0.0009 TO 0.0013	23 TO 28							
SR2MR5	0.1250	0.3750	0.1562	98.2	24.2	0.0002 TO 0.0005	11 TO 17	<b>MR</b> Description: Full ball complement, No retainer used.	—		—	Open	ABEC 5	—
				96.5	21.4	0.0005 TO 0.0009	17 TO 23							
				94.6	19.4	0.0009 TO 0.0013	23 TO 28							



Timken P/N	Bore (Inch)	O.D (Inch)	Width (Inch)	Load ratings (lbs)				Configuration						Reference Speed (RPM)
				Dynamic	Static	R.I.C Range (Inch)	Reference Contact Angle Range (degree)	不可分离式角接触球轴承						
								STD Cage Code	Material	Design	Useful features	Shield	STD Bearing class	
SR2MR7	0.1250	0.3750	0.1562	98.2	24.2	0.0002 TO 0.0005	11 TO 17	<b>MR</b> Description: Full ball complement, No retainer used.	—		—	Open	ABEC 7	—
				96.5	21.4	0.0005 TO 0.0009	17 TO 23							
				94.6	19.4	0.0009 TO 0.0013	23 TO 28							
SR2MX5	0.1250	0.3750	0.1562	98.2	24.2	0.0002 TO 0.0005	11 TO 17	<b>MX</b> Description: One piece, machined through hole, salox M	Salox M	—	—	Open	ABEC 5	—
				96.5	21.4	0.0005 TO 0.0009	17 TO 23							
				94.6	19.4	0.0009 TO 0.0013	23 TO 28							
SR2MX7	0.1250	0.3750	0.1562	98.2	24.2	0.0002 TO 0.0005	11 TO 17	<b>MX</b> Description: One piece, machined through hole, salox M	Salox M	—	—	Open	ABEC 7	—
				96.5	21.4	0.0005 TO 0.0009	17 TO 23							
				94.6	19.4	0.0009 TO 0.0013	23 TO 28							
SR4M5	0.2500	0.6250	0.1960	222	64.5	0.0002 TO 0.0005	7 TO 11.5	<b>M</b> Description: Angular contact, non-separable bearing with one-piece machined retiner.	Phenolic Laminate		Can be vacuum impregnated with oil for long life. Operates at speeds to 400000 RPM	Open	ABEC 5	400000
				219	59	0.0005 TO 0.0009	11.5 TO 15.5							
				217	54.4	0.0009 TO 0.0013	15.5 TO 18.5							
				215	50.8	0.0013 TO 0.0017	18.5 TO 21.5							
				213	47.7	0.0017 TO 0.0021	21.5 TO 23.5							
				210	45.1	0.0021 TO 0.0025	23.5 TO 26							
SR4M7	0.2500	0.6250	0.1960	222	64.5	0.0002 TO 0.0005	7 TO 11.5	<b>M</b> Description: Angular contact, non-separable bearing with one-piece machined retiner.	Phenolic Laminate		Can be vacuum impregnated with oil for long life. Operates at speeds to 400000 RPM	Open	ABEC 7	400000
				219	59	0.0005 TO 0.0009	11.5 TO 15.5							
				217	54.4	0.0009 TO 0.0013	15.5 TO 18.5							
				215	50.8	0.0013 TO 0.0017	18.5 TO 21.5							
				213	47.7	0.0017 TO 0.0021	21.5 TO 23.5							
				210	45.1	0.0021 TO 0.0025	23.5 TO 26							

Timken P/N	Bore (Inch)	O.D (Inch)	Width (Inch)	Load ratings (lbs)				Configuration						Reference Speed (RPM)
				Dynamic	Static	R.I.C Range (Inch)	Reference Contact Angle Range (degree)	不可分离式角接触球轴承						
								STD Cage Code	Material	Design	Useful features	Shield	STD Bearing class	
SR4MP5	0.2500	0.6250	0.1960	222	64.5	0.0002 TO 0.0005	7 TO 11.5	<b>MP</b> Description: Angular contact, one-piece machined through hole, Porous polyimide.	Minapore Meldin 8100 Porous Plyimide		High oil retention when vacuum impregnated. Speeds up to 200000 RPM	Open	ABEC 5	200000
				219	59	0.0005 TO 0.0009	11.5 TO 15.5							
				217	54.4	0.0009 TO 0.0013	15.5 TO 18.5							
				215	50.8	0.0013 TO 0.0017	18.5 TO 21.5							
				213	47.7	0.0017 TO 0.0021	21.5 TO 23.5							
				210	45.1	0.0021 TO 0.0025	23.5 TO 26							
SR4MP7	0.2500	0.6250	0.1960	222	64.5	0.0002 TO 0.0005	7 TO 11.5	<b>MP</b> Description: Angular contact, one-piece machined through hole, Porous polyimide.	Minapore Meldin 8100 Porous Plyimide		High oil retention when vacuum impregnated. Speeds up to 200000 RPM	Open	ABEC 7	200000
				219	59	0.0005 TO 0.0009	11.5 TO 15.5							
				217	54.4	0.0009 TO 0.0013	15.5 TO 18.5							
				215	50.8	0.0013 TO 0.0017	18.5 TO 21.5							
				213	47.7	0.0017 TO 0.0021	21.5 TO 23.5							
				210	45.1	0.0021 TO 0.0025	23.5 TO 26							
SR4MR5	0.2500	0.6250	0.1960	222	64.5	0.0002 TO 0.0005	7 TO 11.5	<b>MR</b> Description: Full ball complement, No retainer used.	—		—	Open	ABEC 5	—
				219	59	0.0005 TO 0.0009	11.5 TO 15.5							
				217	54.4	0.0009 TO 0.0013	15.5 TO 18.5							
				215	50.8	0.0013 TO 0.0017	18.5 TO 21.5							
				213	47.7	0.0017 TO 0.0021	21.5 TO 23.5							
				210	45.1	0.0021 TO 0.0025	23.5 TO 26							

Timken P/N	Bore (Inch)	O.D (Inch)	Width (Inch)	Load ratings (lbs)				Configuration						Reference Speed (RPM)
				Dynamic	Static	R.I.C Range (Inch)	Reference Contact Angle Range (degree)	不可分离式角接触球轴承						
								STD Cage Code	Material	Design	Useful features	Shield	STD Bearing class	
SR4MR7	0.2500	0.6250	0.1960	222	64.5	0.0002 TO 0.0005	7 TO 11.5	MR Description: Full ball complement, No retainer used.	—		—	Open	ABEC 7	—
				219	59	0.0005 TO 0.0009	11.5 TO 15.5							
				217	54.4	0.0009 TO 0.0013	15.5 TO 18.5							
				215	50.8	0.0013 TO 0.0017	18.5 TO 21.5							
				213	47.7	0.0017 TO 0.0021	21.5 TO 23.5							
				210	45.1	0.0021 TO 0.0025	23.5 TO 26							
SR4MX5	0.2500	0.6250	0.1960	222	64.5	0.0002 TO 0.0005	7 TO 11.5	MX Description: One piece, machined through hole, salox M	Salox M	—	—	Open	ABEC 5	—
				219	59	0.0005 TO 0.0009	11.5 TO 15.5							
				217	54.4	0.0009 TO 0.0013	15.5 TO 18.5							
				215	50.8	0.0013 TO 0.0017	18.5 TO 21.5							
				213	47.7	0.0017 TO 0.0021	21.5 TO 23.5							
				210	45.1	0.0021 TO 0.0025	23.5 TO 26							
SR4MX7	0.2500	0.6250	0.1960	222	64.5	0.0002 TO 0.0005	7 TO 11.5	MX Description: One piece, machined through hole, salox M	Salox M	—	—	Open	ABEC 7	—
				219	59	0.0005 TO 0.0009	11.5 TO 15.5							
				217	54.4	0.0009 TO 0.0013	15.5 TO 18.5							
				215	50.8	0.0013 TO 0.0017	18.5 TO 21.5							
				213	47.7	0.0017 TO 0.0021	21.5 TO 23.5							
				210	45.1	0.0021 TO 0.0025	23.5 TO 26							

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