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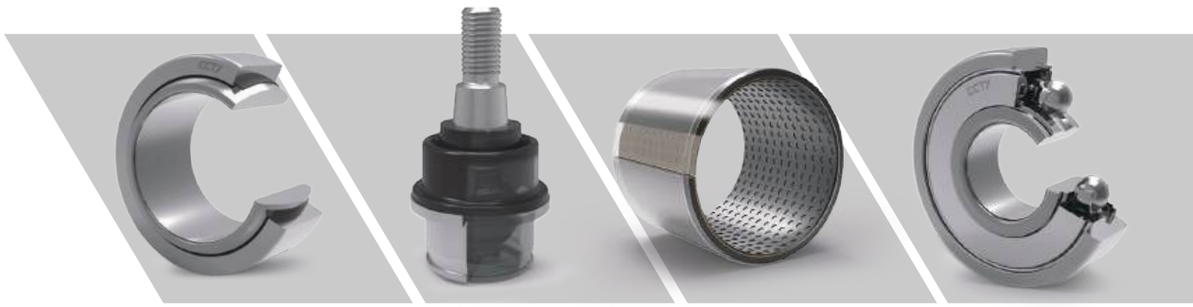

Product Families

Spherical Plain Bearings
Rod Ends
Ball Joints
Tie Rod Assemblies
Bushings
Roller Bearings
Square Ball Universal Joint®

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About CCTY

Bold engineering produces bold design. At CCTY our engineers reimagine what is possible in motion control. These innovative ideas lead to patented products like the Square Ball Universal Joint® and assemblies.

As a full-service manufacturing partner, we lend our engineering support to OEMs to quickly turn ideas into reality. More than 90% of the products we manufacture are assemblies and unique designs specific to OEM applications.

Our 110,000 m^2 plant featuring precision robotics and CNC-controlled production is located in Zhenjiang, China. The plant's size allows for all critical processes, such as heat treatment, sintering, welding and phosphating, to be conducted onsite.

Engineering support and warehousing are offered at our offices in India, China, Germany, Japan and the United States. For more information about CCTY Bearing or to speak with an expert, visit CCTYGroup.com.

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SPHERICAL PLAIN BEARINGS

Spherical Plain Bearings

Radial Spherical Plain Bearings

Metric - Requires Maintenance

GE .. ES / GE .. ES 2RS

ISO 12240-1, dimension series E

Technical parameters	Units	Values
Sliding contact surface	—	Steel / Steel
Working temperature	°C	-50 / +150 (open)
	°C	-30 / +130 (sealed)
Type of lubrication	—	Grease or oil
Seal configuration	—	Open or sealed
Range (inner diameter)	mm	6 - 220

GE .. LO

ISO 12240-1, dimension series W
With extended inner ring

Technical parameters	Units	Values
Sliding contact surface	—	Steel / Steel
Working temperature	°C	-50 / +150
Type of lubrication	—	Grease or oil
Seal configuration	—	Open design
Range (inner diameter)	mm	12 - 200

GEF .. ES

Technical parameters	Units	Values
Sliding contact surface	—	Steel / Steel
Working temperature	°C	-50 / +150
Type of lubrication	—	Grease or oil
Seal configuration	—	Open design
Range (inner diameter)	mm	12 - 150

GE .. FO /GE .. FO 2RS

ISO 12240-1, dimension series G, heavy duty

Technical parameters	Units	Values
Sliding contact surface	—	Steel / Steel
Working temperature	°C	-50 / +150 (open)
	°C	-30 / +130 (sealed)
Type of lubrication	—	Grease or oil
Seal configuration	—	Open or sealed
Range (inner diameter)	mm	6 - 200

GE .. HO 2RS

With extended inner ring

Technical parameters	Units	Values
Sliding contact surface	—	Steel / Steel
Working temperature	°C	-30 / +130 (sealed)
Type of lubrication	—	Grease or oil
Seal configuration	—	With lip seals
Range (inner diameter)	mm	17 - 80

PB

ISO 12240-1, dimension series K

Technical parameters	Units	Values
Sliding contact surface	—	Steel / Bronze
Working temperature	°C	-50 / +150
Type of lubrication	—	Grease or oil
Seal configuration	—	Open design
Range (inner diameter)	mm	5 - 30

Radial Spherical Plain Bearings
Metric - Maintenance Free

GE .. C

ISO 12240-1, dimension series E
Formed steel outer ring

Technical parameters	Units	Values
Sliding contact surface	—	Steel / PTFE composite
Working temperature	°C	-50 / +150
Type of lubrication	—	Self-lubricating
Seal configuration	—	Open design
Range (inner diameter)	mm	6 - 30

GEH .. C

ISO 12240-1, dimension series G, heavy duty
Formed steel outer ring

Technical parameters	Units	Values
Sliding contact surface	—	Steel / PTFE composite
Working temperature	°C	-50 / +150
Type of lubrication	—	Self-lubricating
Seal configuration	—	Open design
Range (inner diameter)	mm	6 - 25

GEH .. HO 2RS

With extended inner ring

Technical parameters	Units	Values
Sliding contact surface	—	Steel / Steel
Working temperature	°C	-30 / +120 (sealed)
Type of lubrication	—	Grease
Seal configuration	—	With boots
Range (inner diameter)	mm	10 - 30

GE .. UK 2RS

ISO 12240-1, dimension series E

Technical parameters	Units	Values
Sliding contact surface	—	Steel / PTFE Fabric
Working temperature	°C	-30 / +130 (sealed)
Type of lubrication	—	Self-lubricating
Seal configuration	—	With lip seals
Range (inner diameter)	mm	17 - 220

GE .. FW 2RS

ISO 12240-1, dimension series G, heavy duty

Technical parameters	Units	Values
Sliding contact surface	—	Steel / PTFE Fabric
Working temperature	°C	-30 / +130 (sealed)
Type of lubrication	—	Self-lubricating
Seal configuration	—	With lip seals
Range (inner diameter)	mm	20 - 200

Radial Spherical Plain Bearings
Inch - Requires Maintenance

GEZ .. ES /GEZ .. ES 2RS

Technical parameters	Units	Values
Sliding contact surface	—	Steel / Steel
Working temperature	°F	-58 / +302 (open)
	°F	-22 / +266 (sealed)
Type of lubrication	—	Grease or oil
Seal configuration	—	Open or sealed
Range (inner diameter)	inch	*½" - 6"*

COM

Formed steel outer ring

Technical parameters	Units	Values
Sliding contact surface	—	Steel / Steel
Working temperature	°C	-50 / +150
	°F	-58 / +302
Type of lubrication	—	Grease or oil
Seal configuration	—	Open design
Range (inner diameter)	inch	*3⁄16" - 1"*

Radial Spherical Plain Bearings
Inch - Maintenance Free

COM .. T

Maintenance free, inch sizes
Formed steel outer ring

Technical parameters	Units	Values
Sliding contact surface	—	Steel / PTFE fabric
Working temperature	°C	-50 / +150
	°F	-58 / +302
Type of lubrication	—	Self-lubricating
Seal configuration	—	Open design
Range (inner diameter)	inch	*3⁄16" - 1"*

Angular Contact Spherical Plain Bearings

GE .. SX

Requires maintenance, metric sizes
ISO 12240-2

Technical parameters	Units	Values
Sliding contact surface	—	Steel / Steel
Working temperature	°C	-50 / +150
Type of lubrication	—	Grease or oil
Seal configuration	—	Open design
Range (inner diameter)	mm	25 - 200

GE .. SW

Maintenance free, metric sizes
ISO 12240-2

Technical parameters	Units	Values
Sliding contact surface	—	Steel / PTFE fabric
Working temperature	°C	-50 / +150
Type of lubrication	—	Self-lubricating
Seal configuration	—	Open design
Range (inner diameter)	mm	25 - 200

Axial/Thrust Spherical Plain Bearings

GE .. AX

Requires Maintenance, metric sizes
ISO 12240-3

Technical parameters	Units	Values
Sliding contact surface	—	Steel / Steel
Working temperature	°C	-50 / +150
Type of lubrication	—	Grease or oil
Seal configuration	—	Open design
Range (inner diameter)	mm	10 - 100

GE .. AW

Maintenance-free, metric sizes
ISO 12240-3

Technical parameters	Units	Values
Sliding contact surface	—	Steel / PTFE fabric
Working temperature	°C	-50 / +150
Type of lubrication	—	Self-lubricating
Seal configuration	—	Open design
Range (inner diameter)	mm	10 - 100

ROD ENDS
BALL JOINTS
TIE ROD ASSEMBLIES

Rod Ends
Metric - Requires Maintenance

POS .. DF / PHS .. DF

ISO 12240-4, dimension series K

Technical parameters	Units	Values
Sliding contact surface	—	Steel / Bronze
Working temperature	°C	-50 / +150
Type of lubrication	—	Grease or oil
Seal configuration	—	Open design
Range (inner diameter)	mm	5 - 30

GAR .. DO / GIR .. DO

ISO 12240-4, dimension series E

Technical parameters	Units	Values
Sliding contact surface	—	Steel / Steel
Working temperature	°C	-50 / +150
Type of lubrication	—	Grease or oil
Seal configuration	—	Open design
Range (inner diameter)	mm	6 - 45

GAR .. DO 2RS / GIR .. DO 2RS

ISO 12240-4, dimension series E

Technical parameters	Units	Values
Sliding contact surface	—	Steel / Steel
Working temperature	°C	-30 / +130 (sealed)
Type of lubrication	—	Grease or oil
Seal configuration	—	With lip seals
Range (inner diameter)	mm	20 - 45

Rod Ends
Inch - Requires Maintenance

MC / FC

Precision rod ends

Technical parameters	Units	Values
Sliding contact surface	—	Steel / Steel
Working temperature	°C	-50 / +150
	°F	-58 / +302
Type of lubrication	—	Grease or oil
Seal configuration	—	Open design
Range (inner diameter)	inch	3/16" - 1"

MA / FA

Precision rod ends, heavy duty

Technical parameters	Units	Values
Sliding contact surface	—	Steel / Steel
Working temperature	°C	-50 / +150
	°F	-58 / +302
Type of lubrication	—	Grease or oil
Seal configuration	—	Open design
Range (inner diameter)	inch	3/16" - 1"

EM / EF

Economical rod ends

Technical parameters	Units	Values
Sliding contact surface	—	Steel / Steel
Working temperature	°C	-50 / +150
	°F	-58 / +302
Type of lubrication	—	Grease or oil
Seal configuration	—	Open design
Range (inner diameter)	inch	3/16" - 3/4"

Rod Ends
Maintenance Free

COS .. BK / CHS .. BK

ISO 12240-4, dimension series K

Technical parameters	Units	Values
Sliding contact surface	—	Steel / PTFE composite
Working temperature	°C	-50 / +150
Type of lubrication	—	Self-lubricating
Seal configuration	—	Open design
Range (inner diameter)	mm	5 - 30

COS .. N / CHS .. N

ISO 12240-4, dimension series K

Technical parameters	Units	Values
Sliding contact surface	—	Steel / Nylon
Working temperature	°C	-40 / +120
Type of lubrication	—	Self-lubricating
Seal configuration	—	Open design
Range (inner diameter)	mm	5 - 30

SQF .. N RS

Ball joint rod ends

Technical parameters	Units	Values
Sliding contact surface	—	Steel / Nylon
Working temperature	°C	-30 / +120 (sealed)
Type of lubrication	—	Self-lubricating
Seal configuration	—	With boot
Range (thread size)	mm	M8 - M16

GAR .. C / GIR .. C

ISO 12240-4, dimension series E

Technical parameters	Units	Values
Sliding contact surface	—	Steel / PTFE composite
Working temperature	°C	-50 / +150
Type of lubrication	—	Self-lubricating
Seal configuration	—	Open design
Range (inner diameter)	mm	6 - 30

GAR .. UK 2RS / GIR .. UK 2RS

ISO 12240-4, dimension series E

Technical parameters	Units	Values
Sliding contact surface	—	Steel / PTFE fabric
Working temperature	°C	-30 / +130
Type of lubrication	—	Self-lubricating
Seal configuration	—	With lip seals
Range (inner diameter)	mm	20 - 45

MCN / FCN

Inch sizes

Technical parameters	Units	Values
Sliding contact surface	—	Steel / Nylon
Working temperature	°C	-40 / +120
	°F	-40 / +248
Type of lubrication	—	Self-lubricating
Seal configuration	—	Open design
Range (inner diameter)	inch	3/16" - 3/4"

Ball Joints and Tie Rod Assemblies
Maintenance Free

BJH .. RS

Ball joints

Technical parameters	Units	Values
Sliding contact surface	—	Steel / Steel (polymer)
Working temperature	°C	-30 / +120 (sealed)
Type of lubrication	—	Grease
Seal configuration	—	With boot
Range (thread size)	mm	Customizable

TRM .. RS

Sway bar link

Technical parameters	Units	Values
Sliding contact surface	—	Steel / Steel (polymer)
Working temperature	°C	-30 / +120 (sealed)
Type of lubrication	—	Grease
Seal configuration	—	With boot(s)
Range (thread size)	mm	Customizable

TR .. N

Sway bar link

Technical parameters	Units	Values
Sliding contact surface	—	Steel / Polymer
Working temperature	°C	-40 / +120 (sealed)
Type of lubrication	—	Self-lubricating
Seal configuration	—	Open design
Range (inner diameter)	mm	Customizable

TR SQ .. RS

Linkages

Technical parameters	Units	Values
Sliding contact surface	—	Steel / Steel (polymer)
Working temperature	°C	-30 / +120 (sealed)
Type of lubrication	—	Grease
Seal configuration	—	With boots
Range (thread size)	mm	Customizable

TR .. COM

Tie rods

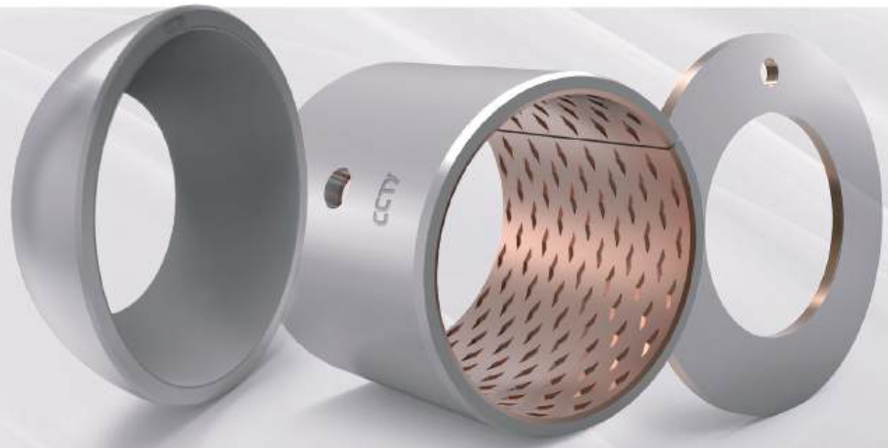
Technical parameters	Units	Values
Sliding contact surface	—	Steel / Steel (polymer)
Working temperature	°C	-30 / +120 (sealed)
Type of lubrication	—	Grease
Seal configuration	—	Open or with boot
Range (thread size)	mm	Customizable

TR SQF .. HJM .. RS

Tie rods

Technical parameters	Units	Values
Sliding contact surface	—	Steel / Steel (polymer)
Working temperature	°C	-30 / +120 (sealed)
Type of lubrication	—	Grease
Seal configuration	—	With boot
Range (thread size)	mm	Customizable

BUSHINGS



Bushings

PTFE Composite / Metal Bushings

TSA

- Low carbon steel backing with sintered porous bronze and impregnated PTFE composite polymer.
- Excellent wear resistance and low friction performance covering a wide range of loads, speeds and temperatures in dry running conditions.
- Also suitable for lubricated applications.

Technical parameters		Units	Values
Maximum load, p	Static	N/mm^2	250
	Dynamic	N/mm^2	140
Working temperature		°C	-200 / +280
Coefficient of friction		—	0.02 - 0.20 (dry)
Maximum sliding speed		m/s	2.5 (dry)
Range（inner diameter）		mm	4 - 300

B-TSA

- Bronze backing with with sintered porous bronze and impregnated PTFE composite polymer.
- The bronze backing offers improved corrosion resistance compared to the standard TSA bushing.

Technical parameters		Units	Values
Maximum load, p	Static	N/mm^2	140
	Dynamic	N/mm^2	140
Working temperature		°C	-200 / +280
Coefficient of friction		—	0.02 - 0.20 (dry)
Maximum sliding speed		m/s	2.5 (dry)
Range（inner diameter）		mm	5 - 300

TFA

- Steel backed, bronze sintered and impregnated with a PTFE composite material.
- Suitable for dry applications with high frequency and low amplitude oscillating motion.

Technical parameters		Units	Values
Maximum load, p	Static	N/mm^2	250
	Dynamic	N/mm^2	140
Working temperature		°C	-200 / +280
Coefficient of friction		—	0.04 - 0.20 (dry)
Maximum sliding speed		m/s	2.5 (dry)
Range（inner diameter）		mm	Customizable

TOA

- Steel backed, bronze sintered and impregnated with a PTFE composite polymer.
- Excellent wear resistance and low friction in oil lubricated applications.
- Excellent flow erosion and cavitation resistance.
- Good chemical resistance.

Technical parameters		Units	Values
Maximum load, p	Static	N/mm^2	250
	Dynamic	N/mm^2	140
Working temperature		°C	-200 / +280
Coefficient of friction		—	0.01 - 0.05 (oil)
Maximum sliding speed		m/s	2.5 (oil)
Range（inner diameter）		mm	5 - 300

PTFE Composite / Metal Bushings

TGA

- Steel backed, bronze sintered and impregnated with a PTFE composite material.
- Excellent wear resistance and low friction performance in a range of loads, speeds and temperatures in grease lubricated conditions.

Technical parameters		Units	Values
Maximum load, p	Static	N/mm^2	250
	Dynamic	N/mm^2	140
Working temperature		°C	-200 / +280
Coefficient of friction		—	0.02 - 0.15 (grease)
Maximum sliding speed		m/s	2.5 (grease)
Range（inner diameter）		mm	4 - 4 - 300

Ball Cups

- Excellent wear resistance and low friction performance in a range of loads, speeds and temperatures in grease lubricated conditions.
- Suitable for oscillating movements.

Technical parameters		Units	Values
Maximum load, p	Static	N/mm^2	250
	Dynamic	N/mm^2	140
Working temperature		°C	-200 / +280
Coefficient of friction		—	0.02 - 0.20 (dry)
Maximum sliding speed		m/s	2.5 (dry)
Range（inner diameter）		mm	Customizable

PTFE Fabric / Metal Bushings

FSA

- PTFE and support fibers bonded to metal backing; maintenance-free.
- Designed for heavy duty applications.
- Good resistance to fatigue under shock loads.

Technical parameters		Units	Values
Maximum load, p	Static	N/mm^2	250
	Dynamic	N/mm^2	140
Working temperature		°C	-50 / +150
Coefficient of friction		—	0.03 - 0.20 (dry)
Maximum sliding speed		m/s	3.0 (dry)
Range（inner diameter）		mm	10 - 300

FHA

- PTFE and high performance support fibers bonded to metal backing; maintenance-free.
- Designed for high-performance and heavy-duty applications.
- Good resistance to fatigue under shock loads.

Technical parameters		Units	Values
Maximum load, p	Static	N/mm^2	250
	Dynamic	N/mm^2	200
Working temperature		°C	-50 / +150
Coefficient of friction		—	0.03 - 0.20 (dry)
Maximum sliding speed		m/s	3.0 (dry)
Range（inner diameter）		mm	10 - 300

Polymer Composite / Metal Bushings

PSA

- Steel backed, bronze sintered and POM impregnated material; low maintenance.
- Standard components contain grease indents in the sliding layer.
- Suitable for grease or oil lubricated applications.

Technical parameters		Units	Values
Maximum load, p	Static	N/mm^2	140
	Dynamic	N/mm^2	140
Working temperature		°C	-40 / +130
Coefficient of friction		—	0.05 - 0.15 (grease)
Maximum sliding speed		m/s	2.5 (grease)
Range（inner diameter）		mm	10 - 300

PHA

- Steel backed, bronze sintered and high-performance impregnated material; low maintenance.
- Good wear resistance performance in greased applications.
- Perfect for heavy-duty and high-temperature conditions.

Technical parameters		Units	Values
Maximum load, p	Static	N/mm^2	250
	Dynamic	N/mm^2	140
Working temperature		°C	-40 / +175
Coefficient of friction		—	0.01 - 0.10 (grease)
Maximum sliding speed		m/s	2.5 (grease)
Range（inner diameter）		mm	10 - 300

Bimetal / Metal Bushings

MBA

- Bimetal bearing with steel backing.
- Bearing material contains lead, good resistance to fatigue strength.
- Suitable for oscillating motion with high loads.

Technical parameters		Units	Values
Maximum load, p	Static	N/mm^2	300
	Dynamic	N/mm^2	140
Working temperature	Greased	°C	-40 / +150
	Oil lubricated	°C	-40 / +250
Coefficient of friction		—	0.05 - 0.12(lubricated)
Maximum sliding speed		m/s	2.5(lubricated)
Range（inner diameter）		mm	10 - 300

MBB

- Bimetal bearing with steel backing.
- Very good resistance to fatigue strength.
- Suitable for oscillating motion with high loads.

Technical parameters		Units	Values
Maximum load, p	Static	N/mm^2	300
	Dynamic	N/mm^2	140
Working temperature	Greased	°C	-40 / +150
	Oil lubricated	°C	-40 / +250
Coefficient of friction		—	0.06 - 0.15(lubricated)
Maximum sliding speed		m/s	2.5(lubricated)
Range（inner diameter）		mm	10 - 300

Bimetal / Metal Bushings

MCA

- Bronze strip contains dimples for lubrication.
- Good wear resistance.
- Suitable for rough conditions.

Technical parameters		Units	Values
Maximum load, p	Static	N/mm^2	120
	Dynamic	N/mm^2	40
Working temperature	Greased	°C	-40 / +150
	Oil lubricated	°C	-40 / +250
Coefficient of friction		—	0.06 - 0.15(lubricated)
Maximum sliding speed		m/s	2.5(lubricated)
Range（inner diameter）		mm	10 - 300

KDB

- Bronze bushing with modified graphite.
- Improved corrosion resistance.
- Suitable for grease or oil lubricated applications.

Technical parameters		Units	Values
Maximum load, p		N/mm^2	100
Working temperature	Greased	°C	-40 / +150
	Oil lubricated	°C	-40 / +250
Coefficient of friction		—	0.03 - 0.16(lubricated)
Maximum sliding speed		m/s	1.5(lubricated)
Range（inner diameter）		mm	30 - 160

Steel Bushings

GT

Steel bushings

Technical parameters	Units	Values
Maximum load, p	N/mm^2	250
Working temperature	°C	-50 / +150
Coefficient of friction	—	—
Maxiumum sliding speed	m/s	0.1
Range（inner diameter）	mm	15 - 160

CB

Cushion bearings

Technical parameters	Units	Values
Maximum load, p	N/mm^2	250
Working temperature	°C	-50 / +150
Coefficient of friction	—	—
Maxiumum sliding speed	m/s	0.1
Range（inner diameter）	mm	15 - 160

ROLLING BEARINGS

Rolling Bearings

Ball Bearings

Deep Groove Ball Bearings

Series		Units	Range (inner diameter)
6	miniature	mm	4 - 9
618 / 619	superlight	mm	10 - 160
160	superthin	mm	10 - 100
60	light	mm	10 - 160
62	medium	mm	10 - 160
63	heavy	mm	10 - 160

Angular Contact Ball Bearings

Series	Units	Range (inner diameter)
70	mm	30 - 100
72	mm	30 - 100
73	mm	25 - 90
52	mm	25 - 100
53	mm	25 - 100

Four-Point Contact Ball Bearings

Series	Units	Range (inner diameter)
QJ	mm	25 - 100

Hydraulic Motor Single Row Angular Contact Ball Bearings

Technical parameters	Units	Range
Inner diameter	mm	50 - 250
Outer diameter	mm	80 - 350
Width of inner ring	mm	15 - 50
Width of outer ring	mm	20 - 60

Hydraulic Motor Double Row Angular Contact Ball Bearings

Technical parameters	Units	Range
Inner diameter	mm	50 - 250
Outer diameter	mm	80 - 350
Width of inner ring	mm	15 - 50
Width of outer ring	mm	20 - 60

Mast Guide Bearings

Load Rollers

Technical parameters	Units	Range
Inner diameter	mm	25 - 110
Outer diameter	mm	52 - 200
Width of inner ring	mm	15 - 50
Width of outer ring	mm	20 - 60

Inch dimensions are the same as metric.
Custom dimensions are available upon request.

Chain Rollers / Chain Sheaves

Technical parameters	Units	Range
Inner diameter	mm	25 - 110
Outer diameter	mm	52 - 200
Width of inner ring	mm	15 - 50
Width of outer ring	mm	20 - 60

Inch dimensions are the same as metric.
Custom dimensions are available upon request.

Side Rollers

Technical parameters	Units	Range
Shaft diameter	mm	24 - 55
Outer diameter	mm	40 - 120
Length of stud	mm	24 - 80

Inch dimensions are the same as metric.
Custom dimensions are available upon request.

Roller Bearings

Cylindrical Roller Bearings

Series	Units	Range (inner diameter)
N	mm	25 - 100
NU	mm	25 - 100
NJ	mm	25 - 100
NF	mm	25 - 100
NUP	mm	25 - 100

Full Complement Cylindrical Roller Bearings

Technical parameters	Units	Range
Inner diameter	mm	25 - 60
Outer diameter	mm	52 - 160
Width of inner ring	mm	15 - 70

Custom dimensions are available upon request.

Inner Rings

Technical parameters	Units	Values
Inner diameter	mm	10 - 100
Outer diameter	mm	52 - 160
Width of inner ring	mm	15 - 70

Custom Dimensions are available upon request.

SQUARE BALL UNIVERSAL JOINT®

Square Ball Universal Joint®

SBJ

The patented Square Ball Universal Joint is a smoother, more consistent universal joint for intermittent applications. The design reduces the number of components from nearly 100 to just eight. The improved design provides:

- More consistent & lower operating torque values < 0.025 N•m.
- Minimized tolerance stackup due to fewer parts.
- Larger grease volume which is more resistant to contaminant saturation.
- Elimination of line fretting leading to premature part failure.
- External seal free of frictional wear.

Technical parameters	Units	Values
Sliding contact surface	—	Steel / Steel
Working temperature	°C	-30 / +120 (sealed)
Type of lubrication	—	Grease or oil
Seal configuration	—	With boot(s)
Tilt angle	°	0 - 40 (single)

Backwards compatible to mating components.

Chain Anchor Bolts

Technical parameter	Unit	Range
Thread size	mm	M6 - M30

Custom dimensions are available upon request.

Custom Designs and Assemblies

If you did not find a bearing solution that fits your application in this brochure, contact us. As a manufacturer, CCTY is able to produce unique designs for specific applications and tolerances.

We also manufacture housings so that an entire assembly is shipped as a single unit. This streamlined approach to inventory management improves production timelines and reduces costs.

Notes