

# *Nidec*

## RXC Mechanical Adjustable Speed Drive



**NIDEC DRIVE TECHNOLOGY CORPORATION**

## Letter from the President

The Nidec Drive Technology Corporation was originally founded in Kyoto Japan in 1952. Since our inception, we have made every possible effort to improve our manufacturing skill and capabilities, including the advancement of power transmission products to support new technologies and markets. Nidec DTC initially established an industry-wide leadership position in the area of mechanical variable speed drives. We are very proud of our history with mechanical drive technology, through which Nidec DTC helped contribute to the growth of the emerging industries that are now the cornerstone of our world economy today.

Over time, within the field of power transmission engineering, Nidec DTC has maintained the highest level of skill and production quality throughout the industry. We have earned a reputation as a long term dependable partner to our customers, and this solid reputation is firmly supported by the many industrial awards we hold, such as the Japanese Machinery Society Award, and Deming Award, among others.


Today, the growing global market for motion control has driven us to continuously develop products that provide the highest level of accuracy, reliability and value for our customers. We are technical experts across all of the various gear technologies we offer, and are the only company in the world producing such a wide range of product.

Nidec DTC promises to continue to provide high precision power transmission products at unmatched value, which solve the new requirements of our customer base and allow them to be competitive in an increasingly tough global market. Within our company, we have coined this promise as "Enduring Process of Nidec DTC" - a pledge by our employees to approach all of their day-to-day work activities with full effort, full dedication, and full energy to support the evolving needs of our customers.

Your continued support and loyal patronage to our company is highly appreciated. Thank you for your time.

Best Regards,  
President

T. Nishimoto

  
西本達也



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# NIDEC Corporation

With annual sales exceeding \$11 Billion, the NIDEC Corporation is the world's largest manufacturer of brushless DC motors. NIDEC has operations in 40 countries through 297 group companies. Founded in 1973 by current Chairman of the Board and CEO, Shigenobu Nagamori, the NIDEC Corporation has built out a portfolio of motor technologies that span all industries and impact us in our everyday lives. NIDEC is making significant contributions to energy savings by developing and manufacturing highly efficient motor and drive technologies—technologies that keep the world moving forward.

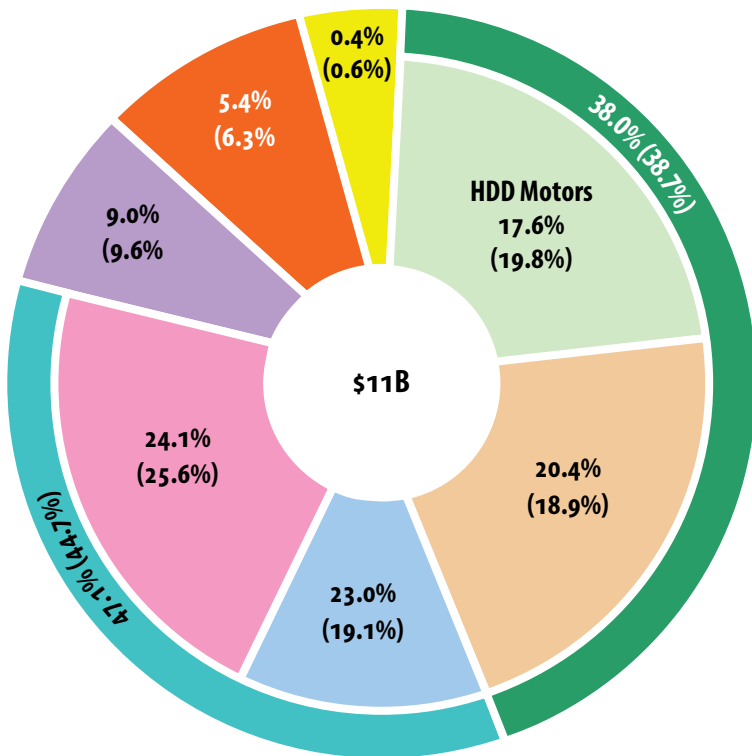
**Corporate Headquarters**  
Kyoto, Japan

**Share Listing**  
New York Stock Exchange  
Tokyo Nikkei Stock Exchange

**Bond Rating**  
JCR: A+  
R&I: A+

The NIDEC Group umbrella includes over 150 corporate subsidiaries that span the globe. More than 100,000 employees are supplying products and services to customers every day, in over 150 countries. The NIDEC Group companies are categorized into the following complementary business segments:

## Sales by Product Group



### Automotive, Appliance, Commercial & Industrial Products

Motors for automobiles, home electronic appliances and industrial equipment

### Small Precision Motors

#### HDD Motors

#### Other Small Motors

Optical disk drive motors, OA equipment motors, polygon scanners, MPU cooling fans, game machine fans, PC/communications fans, home appliance fans, automobile fans, vibration motors, brush motors, stepping motors, actuator units

#### Auto

Vibration motors, brush motors, stepping motors

#### Appliance Commercial Industrial

Game machine consoles, MPU cooling fans, PC/communications devices, home appliances, automobiles

### Machinery:

Industrial robots, card readers, circuit board testers, high-speed press machines, chip mounters, measuring equipment, power transmission equipment, factory automation systems

### Electronic & Optical Components:

Camera shutters, switches, trimmer potentiometers, precision plastic mold products

### Others:

Logistics and services, musical instruments

The NIDEC Group has numerous manufacturing operations across the globe, which allows them to maintain a leading global market share position across its primary focus areas. NIDEC invests a significant portion of its yearly revenue in R&D in order to remain in the forefront of precision motor and drive technology. NIDEC believes strongly in education and established its own Institute for Industrial Science in 2016.

The NIDEC Corporation continues to expand its product portfolio in various motor technologies and has maintained its leadership position through aggressive product development and global acquisitions. The corporate slogan – **All for Dreams** – coined by founder Shigenobu Nagamori himself, epitomizes the NIDEC Group spirit and the promise to continue to deliver on the high value products and technologies that make our dreams possible.

We begin with dreams.  
 Dreams drive our motivation.  
 Dreams are our future.  
 The world's dreams, people's dreams, our dreams.  
 Our passion creates ideas that make dreams come alive.  
 Technology and products that were only dreams become reality.

**All for dreams**  
 Dreams challenge and the Nidec-Group  
 will continue to meet the challenge.  
 For the world's tomorrow,  
 we will develop the world's first technologies and provide the world's best  
 products. We will continue our part in creating a better society.

# NIDEC DRIVE TECHNOLOGY

Nidec Drive Technology Corporation has established itself as the leading supplier of precision gearing solutions to the industrial automation marketplace. Since 1952, when we introduced the world's first mechanical variable speed drive, Nidec DTC has expanded into a diverse manufacturer of high precision power transmission systems for highly dynamic motion control applications.

In 1994, Nidec Drive Technology Corporation was acquired by the NIDEC Corporation and became formally known as Nidec Drive Technology. Nidec DTC began to focus on accelerating production volumes as the global market for motion control and mechatronics grew at an accelerated rate. We saw a unique opportunity to supply our customer base with the highest variety of transmission technologies, which brought forward strain wave, index table and worm gear products to complement our existing portfolio of planetary and cycloidal gearheads. The result for our customers was a single source drive solutions supplier.

Today, our company is shipping over 100,000 gearheads per month out of our manufacturing plants throughout the Asia-Pacific and Europe. Our products are used in robotics, machine tools, food packaging, printing, pulp & paper, material handling, medical, semiconductor and aerospace related systems. Our diverse product portfolio, state-of-the-art equipment, engineering know-how and manufacturing scale allow our customers to compete and expand their businesses globally. Our aim is to continue to innovate and provide the highest quality, best-in-class products and services for our customer base.

## Sales and Distribution Network

Nidec Drive Technology is committed to being a world class partner for our customers. To support the needs of a constantly expanding and evolving global economy, we continue to invest heavily in extending the footprint of our support network, distribution channels and manufacturing capabilities. Our customers know our products will always be supported, no matter where they're shipped.

We utilize the latest manufacturing techniques, equipment technology and inventory management systems to ensure our products to get market fast. In addition to our primary manufacturing and assembly facilities in Japan, China, Germany and the US, we have over 30 stocking points throughout the Americas, Asia-Pacific and Europe. We leverage our broad scale but rely on these local regions to intimately serve the needs of our customers in an increasingly competitive environment. This guarantees a high level of flexibility for various gearbox adaptations and the fastest delivery times in the industry.

Nidec Drive Technology offers worldwide support with application assistance, installation and start-up, troubleshooting and repair as well as phone support and internet tools. Our footprint allows us to handle multi-national projects with distributed design and build locations, helping equipment manufacturers speed up their time to market. Whether the need is for emergency service or international project coordination, Nidec DTC is a company you can rely on.



Nidec Drive Technology has grown to over 2,400 employees strong with a presence across five continents. Our engineering staff, customer support team and distribution partners undergo rigorous product training to ensure the quickest response to our customers' needs.



## Global Connections

### Americas

- \* Glendale Heights, IL
- Querétaro
- São Paulo

### Europe

- Barcelona
- Warsaw
- Vienna
- Birmingham
- Copenhagen

### Asia-Pacific

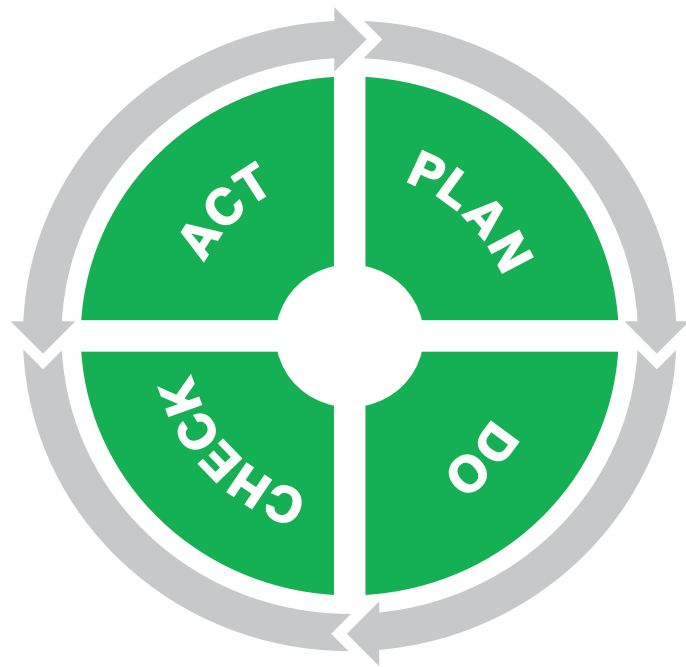
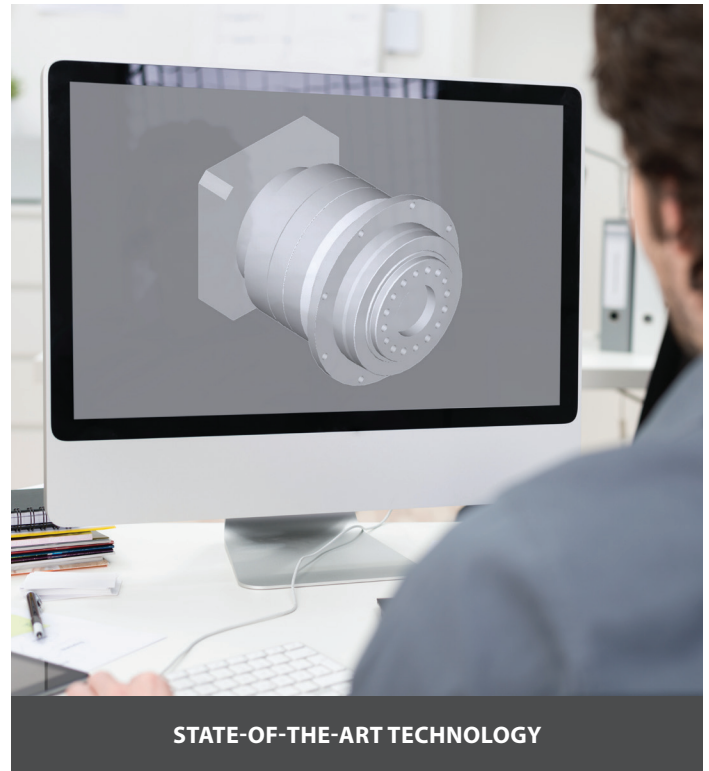
- \* Kyoto (Headquarters)
- Beijing
- Shanghai
- Pinghu
- Xianggang
- Seoul
- Taiwan
- Singapore
- Bangalore



# Total Quality Management

The spirit of challenge is basic to the Nidec Drive Technology culture, influencing all aspects of product development, manufacturing and customer satisfaction. The practice of challenging each individual in our organization has helped drive innovation and foster an environment of continuous improvement. We place quality and reliability at the forefront of everything we do—from design, to production, to service. We refuse to cut corners and continue to set standards within our industry.

In 1969 Nidec DTC received The Deming Prize for our outstanding quality control based on the Total Quality Management (TQM) Method. Since that time, Nidec DTC's desire to deliver top notch products has steered us towards internalizing a unique statistical quality control procedure across all departments and functional teams. Our rigid quality control program and Kaizen philosophy influences all aspects of product development, raw material procurement, production, logistics and post-sales support. By instilling the Deming Cycle – *Plan, Do, Check, Act* – deep within our company culture, Nidec DTC develops and manufactures products that exceed our customers' specifications and requirements across all criteria when benchmarked against our competition.



Nidec Drive Technology constantly measures the reliability of new technologies, consistency of raw materials, and failures rates of all components within our products to ensure new and existing designs exceed the performance benchmarks we put in place. For example, we utilize the highest quality case hardened carbon steel when designing gears for optimum safety under high pressures and bending. Our gears are carburized and also undergo a proprietary secondary finishing operation after heat treatment to improve accuracy and surface finish, which protects against wear and reduces noise during operation. Our bearings are only sourced from leading manufacturers in Japan.

What truly sets us apart is our testing. No other manufacturer in our industry puts their products through such strenuous tests as

Nidec DTC. We conduct several tests during development, most of which are done at 10 million cycles. We run accelerated endurance tests at full load, in a variety of environmental conditions, to demonstrate that our calculated safety factors are achieved in reality. Our gearheads are 100% exit-tested and critical factors such as backlash, noise, vibration and no-load running torque are recorded and serialized for each of the million plus products we ship yearly. From bearings, to seals, to castings, our quality inspections at material point of entry are as stringent as any testing done throughout our manufacturing process. We can setup and execute unique bench tests to mimic our customers' motion profiles and operating conditions—making us a partner from prototyping through production.

Our quality management system has been certified according to ISO 9001:2008 and ISO 14001:2004 standards. Copies of these certificates for our manufacturing facilities can be found on our website. Nidec DTC regularly undergoes strict quality audits. We take this process very seriously, realizing we must maintain these standards in order to build brand awareness and establish credibility globally.



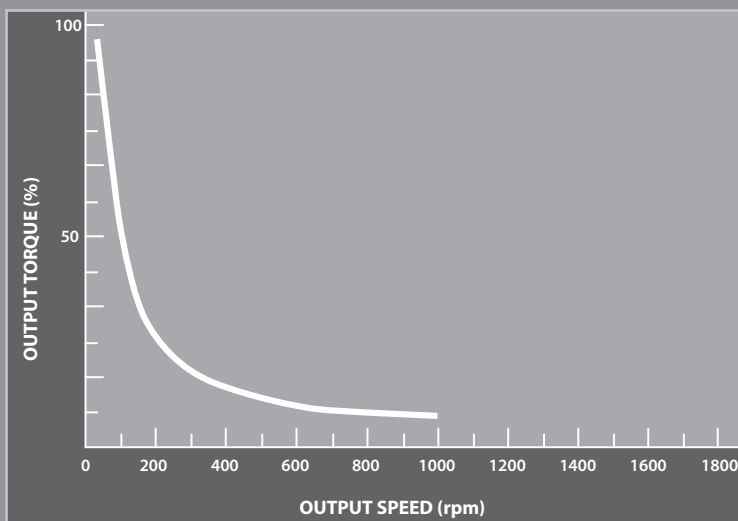
Nidec DTC will continue to challenge itself and our individual employees while striving for greater levels of product quality. It is a daunting challenge, as the incremental gains in quality become smaller and much harder to achieve. However, the challenge is ingrained within the spirit of each Nidec DTC employee. This *"Do It Now, Complete The Job and Follow Through"* Attitude exhibited by our employees helps create superior products for the global marketplace.

# RXC-SERIES

The Nidec Drive Technology RXC has a strong advantage over the common electronic variable speed drives in certain performance aspects. The RXC is a mechanical adjustable speed drive utilizing a ring and cone friction power train. The internal drive assembly consists of an input disc, a set of planetary cones, a control ring, the cam disc and a pressure control cam. The RXC has different sizes to handle motor power ranging between 1/4HP – 20HP, and nominal output torque ratings spanning 15 – 130,000 in-lbs. This unique drive provides a speed range of 0 – 800 RPM, and a cam mechanism that adjusts to the environment downstream and can withstand a heavy amount of shock load.

With a variable frequency drive, the output torque remains constant from base speed down to the lower limit, whatever it may be for the application. However, with the RXC mechanical variable speed drive, the output torque increases as the speed drops. At the low speed range, the output torque approaches 500% of the motor rating providing large breakaway torque values. The mechanical drive is also capable of handling a 200% overload capacity throughout the entire speed range. This performance advantage allows the user to set a low speed that can help the drive package push through difficult areas.

Although VFDs have become the default solution for industry, the mechanical variable speed drives have its niche in specific applications, such as extreme pumping, mixing, and recycling; where its mechanical advantage and low maintenance requirements are an excellent fit. It is ideally suited for rugged, trouble free service in the worst environments including explosion proof, chemical processing, and washdown applications.



RXC Torque Curve



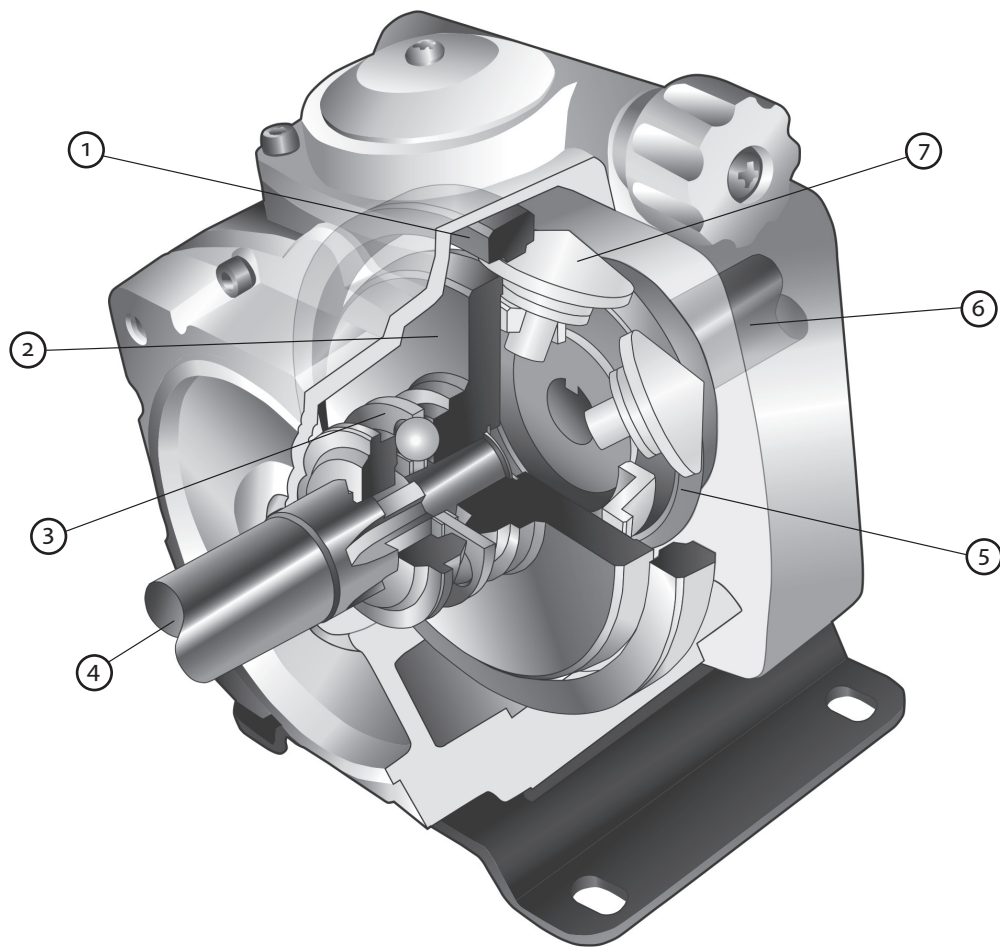


## RXC-SERIES

- Variable Speed Range: Easily accelerates high inertia loads. Smoothly starts delicate equipment. Provides high starting torque without shock
- Oil-Filled Mechanical Design: Rugged and reliable operation. Case seals out the environment. Inherently explosion proof with appropriate motor
- Low Speed Torque – up to 285%: Ideal for mixers, extruders or other machines with excessive low speed torque requirements. Easily starts screw conveyors, positive displacement pumps, or any heavy load
- NEMA C-face Input and Output Available: Simplified mounting and motor attachment

# RXC SERIES Mechanical Adjustable Speed Drive

## RXC Series Features



- ① Control ring
- ② Cam disk
- ③ Pressure control cam
- ④ Output shaft
- ⑤ Input disk
- ⑥ Input shaft
- ⑦ Planetary Cone

## RXC Series Model Code

<b>NMA</b>	<b>1</b>	<b>0</b>	<b>B</b>	<b>1</b>	<b>0</b>	<b>3</b>	<b>1</b>	<b>A</b>	<b>A</b>	<b>A</b>	<b>0</b>	<b>3</b>	<b>0</b>
<b>Input Code</b>	<b>Size Code</b>		<b>Reducer Code</b>	<b>Mounting Code</b>	<b>Speed Control Code</b>		<b>Main Motor</b>	<b>Motor Specification</b>			<b>Factory Use</b>	<b>Speed Adjustment</b>	<b>Environmental</b>
<b>A</b>	<b>B</b>		<b>C</b>	<b>D</b>	<b>E</b>		<b>F</b>	<b>G</b>			<b>H</b>	<b>I</b>	<b>J</b>

### Input Code **A**

<b>RMA</b>	1X C-Face Input
<b>RXA</b>	1X Shaft-In
<b>NMC</b>	2X C-Face Input
<b>NXC</b>	2X Shaft-In
<b>NMA</b>	3X-8X C-Face Input
<b>NXA</b>	3X-8X Shaft-In

### Frame Size Code **B**

<b>90</b>	1X, 0.125HP
<b>02</b>	2X, 0.25HP
<b>04</b>	2X, 0.5HP
<b>05</b>	3X, 0.75HP
<b>07</b>	3X, 1HP
<b>10</b>	4X, 1.5HP
<b>15</b>	4X, 2HP
<b>22</b>	5X, 3HP
<b>37</b>	6X, 5HP
<b>55</b>	7X, 7.5HP
<b>75</b>	7.5X, 10HP
<b>91</b>	8X, 15HP
<b>95</b>	8X, 20HP

### External Reducer Code **C**

<b>00</b>	No Reducer
<b>--</b>	See each Rating Table for detail

Note:  
Built-in Planetary or  
Built-in Cycloidal

### Output Mounting Code **D**

<b>0</b>	Horizontal w/ Base
<b>1</b>	Output Shaft Down w/Flange
<b>2</b>	Output Shaft Up w/Flange
<b>4</b>	Output Shaft Down w/Base
<b>5</b>	Output Shaft Up w/Base
<b>6</b>	Horizontal w/ Flange
<b>L</b>	Wall Mount Left, Viewing from Output Shaft
<b>R</b>	Wall Mount Right, Viewing from Output Shaft
<b>*</b>	Special, please specify

### Motor Speed Control Code (Bolt Circle of motor in mm) **E**

<b>00</b>	Manual Handwheel
<b>10</b>	Manual Handwheel w/MGS
<b>11</b>	Open Loop, PM 115VAC
<b>12</b>	Open Loop, w/MGS PM 115VAC
<b>14</b>	Open Loop, w/Auxillary Handwheel, PM 115VAC
<b>15</b>	Open Loop, w/MGS and Auxillary Handwheel, PM 115VAC
<b>31</b>	Closed Loop, w/MGS PM 115VAC
<b>32</b>	Closed Loop, w/MGS and Auxillary Handwheel, PM 115VAC
<b>40</b>	Open Loop, EXP PM 115VAC
<b>41</b>	Open Loop, w/EXP MGS EXP PM 115VAC
<b>42</b>	Closed Loop, w/EXP MGS EXP PM 115VAC
<b>43</b>	Hand Wheel w/EXP MGS
<b>*</b>	Special, please specify

Note:  
PM: Pilot Motor  
MGS: Magnetic Sensor  
EXP: Explosion Proof

### Worm Position Code **H** Codes 1-6 are for the R\_A-90 unit w/integral worm reducer only

<b>0</b>	Right angle reducer not used
<b>1</b>	Vertical up on left
<b>2</b>	Vertical down on left
<b>3</b>	Vertical up on right
<b>4</b>	Vertical down on right
<b>5</b>	Horizontal on left, worm under
<b>6</b>	Horizontal on right, worm under
<b>B</b>	Horizontal on right, worm over
<b>C</b>	Horizontal on left, worm under
<b>9</b>	Special, requires description

### Main Motor Code **F**

<b>A</b>	No Motor
<b>B</b>	1ph, 115/230VAC, 60Hz
<b>C</b>	3ph, 230/460VAC, 60Hz
<b>*</b>	Other, please specify

### Motor Specification Code **G**

<b>Motor AA through AE are C-Face connected, 1750rpm</b>	
<b>AA</b>	No Motor
<b>AB</b>	TEFC
<b>AC</b>	Wash Down
<b>AD</b>	Explosion Proof
<b>AE</b>	Brake Motor
<b>Motor CB through CE are Top-mounted, 1750rpm</b>	
<b>CB</b>	TEFC
<b>CC</b>	Wash Down
<b>CD</b>	Explosion Proof
<b>CE</b>	Brake Motor
<b>99</b>	Other, please specify

### Speed Adjustment Code **I**

<b>0</b>	800rpm top speed
	533rpm w/1165rpm Input
<b>3</b>	600rpm top speed
	400rpm w/1165rpm Input
<b>4</b>	1000rpm Top speed
<b>*</b>	Other, please specify

### Environmental Code **J**

<b>0</b>	Standard
<b>2</b>	Washdown protection for Handwheel unit, includes Washdown Breather, V-Ring, Stainless Steel Sleeve under Oil Seal, and White Epoxy Painting
<b>4</b>	Washdown Breather only
<b>5</b>	Washdown protection for Electric Remote Control unit, includes Washdown Breather, V-Ring, Stainless Steel Sleeve under Oil Seal, and NEMA4 at PM, and White Epoxy Painting
<b>6</b>	NEMA 4 at PM
<b>*</b>	Other, please specify

Note:  
\* Consult Factory

# RXC SERIES Mechanical Adjustable Speed Drive

## Operating Principles

Planetary gear reducers are popular due to the way they transmit a great deal of power through a relatively small package. The central sun gear is surrounded by a number of planet gears which engage both the sun gear and outer ring gear. Due to the large number of gear teeth always in contact, a great deal of torque is transmitted.

An RXC drive is similar. The sun gear is replaced by an Input Disc, the planet gears by Cones, and the ring gear by a Control Ring. There are no gear teeth. Torque is transmitted through contact with the rolling edges of the cones.

If this were the complete system, and the Cone retainer were tied to the output shaft, it would operate as a simple speed reducer. In fact, NIDEC DRIVE TECHNOLOGY does manufacture such speed reducers, for applications which cannot tolerate the speed ripple that results from engaging and disengaging gear teeth. No gears, no ripple.

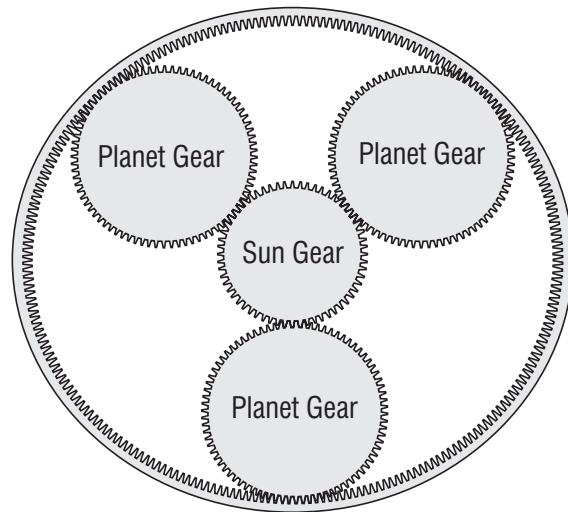
However, the RXC variable speed system separates the cones from the output shaft, and adds another contact element, the Cam Disc, to allow output speed changes.

As shown in the diagram, the cones are somewhat “umbrella shaped,” with a stem area. When placed in a retainer, the cones are held at such an angle that a portion of the cone surface is horizontal. This horizontal surface makes contact with the Control Ring.

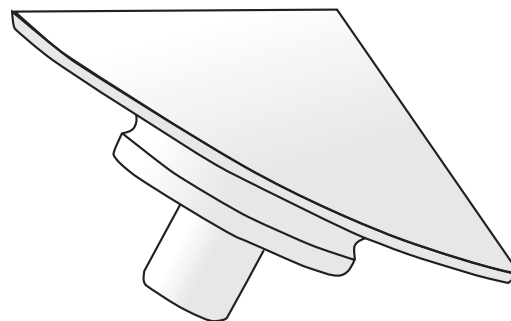
The Input Disk is tied to the input shaft, usually rotating at motor speed, and contacts the Cones under the “umbrella,” on a machined shoulder. The Cam Disc is tied to the output shaft, and contacts the Cones on the underside of their outer edge. The Control Ring is tied to the body of the drive, so it does not rotate. It makes contact with the Cones along the horizontal surface, and can slide from near the outer edge to near the center of the Cones.

The Control Ring is the variable speed element in the RXC system. When moved toward the center of the Cones, it causes them to rotate faster, as they orbit the Input Disc. Moved toward the outer edge, the Control Ring causes the Cones to rotate more slowly. As the outer edges of the Cones change speed, the Cam Disc (and therefore output shaft) also changes speed.

Typical Planetary Gear Reducer  
Ring Gear

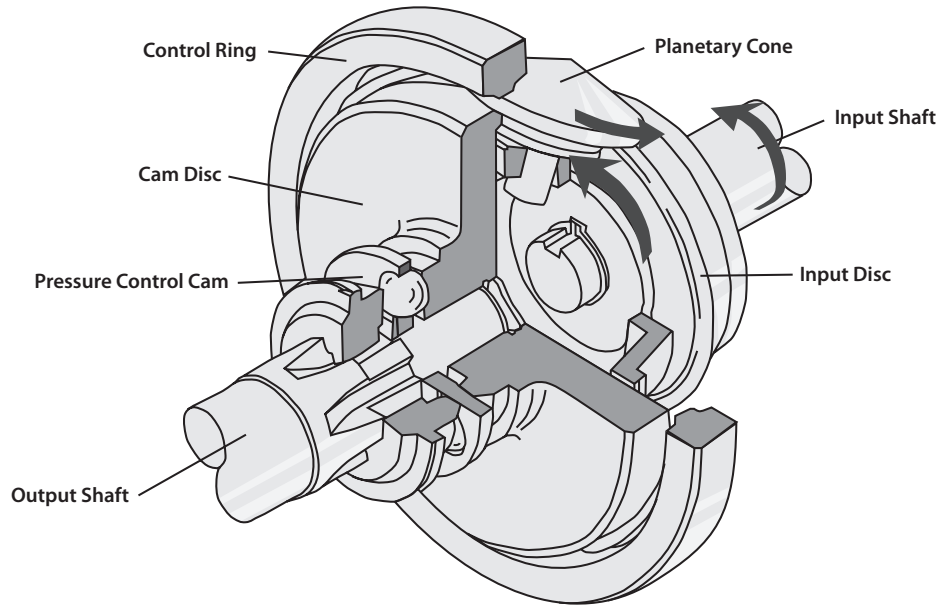


Horizontal Surface makes Contact  
with the Control Ring



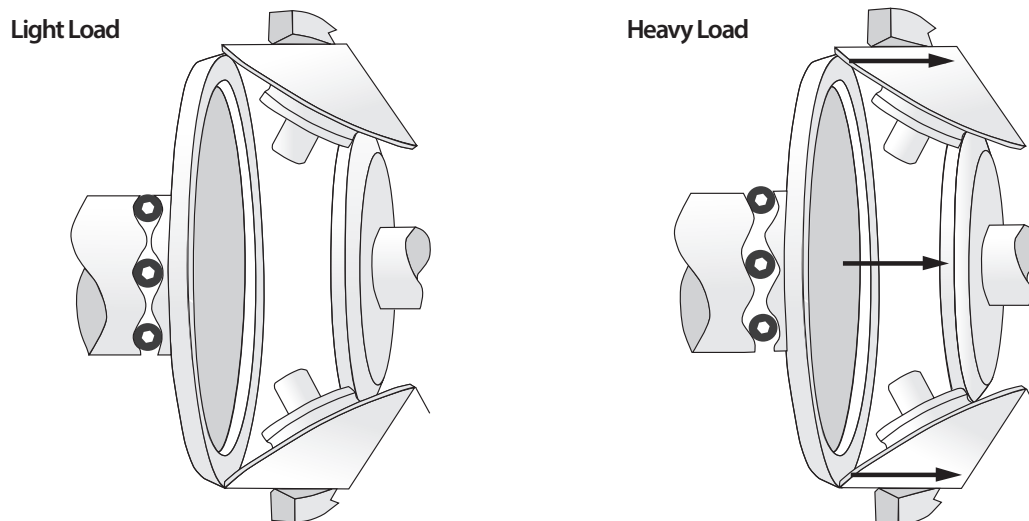
## Operating Principles

As the Cones spin, they are also orbiting the Input Disk, as with a typical planetary gear system. If the Control Ring is adjusted such that the orbit speed and Cone edge speed cancel each other, the output shaft will remain stationary under power. This is a unique feature of the RXC system.



The RXC system is essentially a variable speed reducer. It's output speed is the result of a changing reduction ratio, which means torque increases as the output speed decreases. This is what makes the RXC system superior to the common AC variable frequency drive, a constant torque system.

To further take advantage of the low speed/high torque relationship, the RXC design adds a spring-loaded cam system which forces the friction components more tightly together as the load increases. This action also causes the Cones to move relative to the Control Ring, slowing the output speed momentarily. The combination both prohibits slip between components, and automatically increases the output torque, two actions which may resolve the increased load.



The result is a system that will stall the properly sized input motor before it will slip. When the load decreases, the spring pressure on the components relaxes, reducing system stress and allowing the output speed to return to normal. Again, a unique feature which makes the RXC system ideal for the toughest applications, especially those subject to wild fluctuations in load.

# RXC SERIES Mechanical Adjustable Speed Drive

## Selection Procedure

The standard selection procedure for RXC drives is fairly simple. It assumes that the required output torque and speed range have already been determined. If the torque figure does not already include a Service Factor for difficult applications or long hours of use, start at step 1. Otherwise, skip to step 4.

1. Find the application in the Load Classification Table located on page 13. Determine whether the application is a Uniform load, Moderate load, or Heavy shock load.
2. In the table below, find the correct column for the Load Classification, and the correct line for the Duration of Service. The intersection of these parameters contains the Service Factor.
3. Multiply the initial required torque by the Service Factor, to determine the necessary rating torque.
4. In the tables on pages 14 through 27, find the page that includes the speed range required for this application.
5. On that page, locate a torque rating that fits the rating torque as determined above.
6. From the Model Number column of that page, copy the partial Model Number displayed for that unit.
7. Use the Model Number chart on page 9 to complete the Model Number (replace the dashes in the partial Model Number), considering any options required for this application.

Duration of Service	Load Classification					
	Uniform load (U)		Moderate Shock load (M)		Heavy Shock load (H)	
	AGMA	RXC	AGMA	RXC	AGM	RXC
<b>Occasional: 1/2 hour per day</b>	0.50	0.50	0.80	0.80	1.25	1.20
<b>Intermittent: 3 hours per day</b>	0.80	0.80	1.00	1.00	1.50	1.35
<b>Continuous up to 10 hours per day</b>	1.00	1.00	1.25	1.20	1.75	1.50
<b>Continuous 24 hours per day</b>	1.25	1.20	1.50	1.35	2.00	1.60

Note: AGMA service factors shown are the American Gear Manufacturers' recommendations for conventional gear reducers.

## Load Classification Table

### U - Uniform Load

### M - Moderate Shock Load

### H - Heavy Shock Load

#### AGITATORS

Pure Liquids.....	U
Liquids and Solids.....	M
Liquids - Variable Density.....	M
Semi-liquids Variable Density.....	M*

#### BLOWER

Centrifugal.....	U
Lobe.....	M
Vane.....	U

#### BREWING and DISTILLING

Bottling Machinery.....	U
Brew Kettles - Continuous Duty.....	U
Cookers - Continuous Duty.....	U
Mash Tubs - Continuous Duty.....	U
Scale Hopper Frequent Starts.....	M

#### CAN FILLING MACHINES..... U |

#### CANE KNIVES..... M |

#### CAR DUMPERS..... H |

#### CAR PULLERS - Intermittent Duty..... U |

#### CLARIFIERS..... U |

#### CLASSIFIERS..... M |

#### CLAY WORKING MACHINERY

Brick Press.....	H
Briquette Machine.....	H
Clay Working Machinery.....	M
Pug Mill.....	M

#### COMPRESSORS

Centrifugal.....	U
Lobe.....	M
Reciprocating.....	U
Multi-Cylinder.....	M*
Single Cylinder.....	H*

#### CONVEYORS - UNIFORMLY

##### LOADED OR FED

Apron.....	M
Assembly.....	M
Belt.....	M
Bucket.....	M
Chain.....	U
Flight.....	U
Oven.....	U

#### CONVEYORS - HEAVY DUTY NOT

##### UNIFORMLY FED

Apron.....	M
Assembly.....	M
Belt.....	M
Bucket.....	M
Chain.....	M
Flight.....	M
Live Roll (Package).....	M
Oven.....	M
Reciprocating.....	H
Screw.....	M
Shaker.....	H

#### CRANES and HOISTS

Main Hoists.....	U
Heavy Duty.....	H
Medium Duty.....	M
Reversing.....	M
Skip Hoists.....	M
Trolley Drive.....	M*
Bridge Drive.....	M*

#### CRUSHERS

Ore.....	H
Stone.....	H

#### DREDGES

Cable Reels.....	M
Conveyors.....	M
Cutter Head Drives.....	H
Jig Drives.....	H
Maneuvering Winches.....	M
Pumps.....	M
Screen Drive.....	H
Stackers.....	M
Utility Winches.....	M

#### ELEVATORS

Bucket - Uniform load.....	U
Bucket - Heavy load.....	M
Bucket - Continuous.....	U
Centrifugal Discharge.....	U
Escalators.....	U
Freight.....	M
Gravity Discharge.....	U
Man Lifts.....	**
Passenger.....	**
Service - Hand Lift.....	H

#### FANS

Centrifugal.....	M
Cooling Towers.....	**
Induced Draft.....	M
Forced Draft.....	**
Induced Draft.....	M
Large (Mine, etc.).....	M*
Large Industrial.....	M*
Light (Small Diameter).....	U

#### FEEDERS

Apron.....	M
Belt.....	M
Disc.....	U
Reciprocating.....	H
Screw.....	M

#### FOOD INDUSTRY

Beet Slicer.....	M
Cereal Cooker.....	U
Dough Mixer.....	M
Meat Grinders.....	M

#### GENERATORS - (Not Welding)..... U |

#### HAMMER MILLS..... H |

#### LAUNDRY WASHERS

Reversing.....	M
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#### LAUNDRY TUMBLERS..... M |

#### LINE SHAFTS

Heavy Shock Load.....	H
Moderate Shock Load.....	M
Uniform Load.....	U

#### LUMBER INDUSTRY

Barker - Hydraulic - Mechanical.....	M
Burner Conveyor.....	M
Chain Saw and Drag Saw.....	H
Chain Transfer.....	H
Craneway Transfer.....	H
De-Barking Drum.....	H
Edger Feed.....	M
Gang Feed.....	M
Green Chain.....	M
Live Rolls.....	H
Log Deck.....	H
Log Haul - Incline.....	H
Log Haul - Well Type.....	H
Log Turning Device.....	H
Main Log Conveyor.....	H
Off Bearing Rolls.....	M
Planer Feed Chains.....	M
Planer Floor Chains.....	M
Planer Tilting Hoist.....	M
Re-saw Merry-Go-Round.....	M
Conveyor.....	M
Roll Cases.....	H
Slab Conveyor.....	H
Small Waste Conveyor - Belt.....	U
Small Waste Conveyor - Chain.....	M
Log Turning Device.....	H
Sorting Table.....	M
Tipple Hoist Conveyor.....	M
Tipple Hoist Drive.....	M
Transfer Conveyor.....	H
Transfer Rolls.....	H
Tray Drive.....	M
Trimmer Feed.....	M
Waste Conveyor.....	M

#### MACHINE TOOLS

Bending Roll.....	M
Notching Press - Belt Driven.....	*
Plate Planer.....	H
Punch Press - Gear Driven.....	H
Tapping Machines.....	H
Other Machine Tools.....	U
Main Drives.....	M
Auxiliary Drives.....	U

#### METAL MILLS

Draw Bench - Carriage.....	H
Draw Bench - Main Drive.....	M
Forming Machines.....	H
Pinch Dryer & Scrubber Rolls,.....	U
Reversing.....	*
Slitters.....	M*
Table Conveyors.....	U
Non-reversing.....	M
Reversing.....	H
Wire Drawing & Flattening.....	U
Machine.....	M
Wire Winding Machine.....	M

#### MILLS, ROTARY TYPE

Ball.....	H
Cement Kilns.....	**
Dryers & Coolers.....	M
Kilns.....	M
Pebble.....	H
Rod.....	H
Tumbling Barrels.....	H

#### MIXERS

Concrete Mixers, Continuous.....	M
Concrete Mixers, Intermittent.....	U
Constant Density.....	U
Variable Density.....	M

#### OIL INDUSTRY

Chillers.....	M
Oil Well Pumping.....	**
Paraffin Filter Press.....	M
Rotary Kilns.....	M

#### PAPER MILLS

Agitators (Mixers).....	M
Barker Auxiliaries, Hydraulic.....	M
Barker, Mechanical.....	M
Barking Drum.....	H
Beater & Pulper.....	M
Bleacher U.....	U
Calendars.....	M
Calendars - Super.....	H
Converting Machines,.....	M
except Cutters, Platers.....	M
Conveyors.....	U
Couch.....	M
Cutters, Platers.....	H
Cylinders.....	M
Dryers.....	M
Felt Stretcher.....	M
Felt Whipper.....	H
Jordans.....	H
Log Haul.....	H
Presses.....	U
Pulp Machines.....	M
Reel.....	M
Stock Chests.....	M
Suction Roll.....	U
Washers & Thickeners.....	M
Winders.....	U

#### PRINTING PRESSES U

#### PULLERS

Barge Haul.....	M
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#### PUMPS

Centrifugal.....	H
Proportioning.....	M*
Reciprocating.....	U
Single Acting.....	U
3 or more Cylinders.....	M
Double Acting.....	*
2 or more Cylinders.....	*
Single Acting 1 or 2 Cylinders.....	*
Double Acting.....	*
Single Cylinder.....	*
Rotary - Gear Type.....	H
Rotary - Lobe, Vane.....	H

#### RUBBER INDUSTRY

Mixer.....	H
Rubber Calendar.....	M
Rubber Mill (2 or more).....	M*
Sheeter.....	M*
Tire Building Machines.....	**
Tire & Tube Press Openers.....	**
Tubers & Strainers.....	M

#### SEWAGE DISPOSAL EQUIPMENT

Bar Screens.....	H
Chemical Feeders.....	H
Collectors, Circuline or.....	U
Straight Line.....	H
Dewatering Screens.....	M
Grit Collectors.....	H
Scum Breakers.....	M
Slow or Rapid Mixers.....	M
Sludge Collectors.....	U
Thickeners.....	M
Vacuum Filters.....	M

#### SCREENS

Air Washing.....	U
Rotary - Stone or Gravel.....	M
Traveling Water Intake.....	U

#### SLABPUSHERS..... M |

#### STEERING GEAR..... M |

#### STOKERS..... U |

#### TEXTILE INDUSTRY

Batchers.....	M
Calendars.....	M
Card Machines.....	M*
Cloth Finishing Machines,.....	U
(washers, pads, tenters, dryers,.....	M
calendars, etc.).....	M
Dry Cans.....	M
Dryers.....	M
Dyeing Machinery.....	M
Knitting Machines (looms, etc.).....	*
Looms.....	M
Mangles.....	M
Nappers.....	M
Pads.....	M
Range Drives.....	*
Slashers.....	M
Soapers.....	M
Spinners.....	M
Tenter Frames.....	M
Washers.....	M
Winders (Other than Batchers).....	M
Yarn Preparatory Machines(Cards,.....	M
Spinners, Slashers, etc.).....	M

#### WINDLASS..... M\* |

\* In view of varying load conditions, it is suggested that these applications be carefully reviewed before a final selection is made.

\*\*Check safety codes and refer to NIDEC DRIVE TECHNOLOGY Customer Service.

# RXC SERIES Mechanical Adjustable Speed Drive

## Rating Table

Speed Range: 0-800 RPM, Motor Speed: 1750 RPM, Reducer: None

Size	in-lbs	Rating at Output RPM						Model Code	Motor	OHL	k	Thrust
	HP	800	640	480	320	160	0		HP	lbs	in	lbs
2X	Torque	15	19	22	26	32	44	N-C0200-----00-	0.25	130	2.8	66
	HP	0.19	0.19	0.17	0.13	0.08	---					
2X	Torque	30	36	43	51	65	87	N-C0400-----00-	0.5	130	2.8	66
	HP	0.38	0.037	0.33	0.26	0.17	---					
3X	Torque	45	55	65	77	97	130	N-A0500-----00-	0.75	180	3.1	88
	HP	0.57	0.56	0.50	0.39	0.25	---					
3X	Torque	60	73	87	102	130	174	N-A0700-----00-	1	180	3.1	88
	HP	0.76	0.74	0.66	0.52	0.33	---					
4X	Torque	90	109	130	154	195	260	N-A1000-----00-	1.5	260	4.3	130
	HP	1.14	1.11	0.99	0.78	0.50	---					
4X	Torque	120	146	173	205	260	347	N-A1500-----00-	2	260	4.3	130
	HP	1.52	1.48	1.32	1.04	0.66	---					
5X	Torque	180	219	260	307	390	521	N-A2200-----00-	3	400	4.3	200
	HP	2.28	2.22	1.98	1.56	0.99	---					
6X	Torque	299	364	433	512	650	868	N-A3700-----00-	5	420	4.9	210
	HP	3.80	3.70	3.30	2.60	1.65	---					
7X	Torque	449	547	650	768	975	1,300	N-A5500-----00-	7.5	440	5.3	220
	HP	5.70	5.55	4.95	3.90	2.48	---					
7.5X	Torque	599	729	867	1,020	1,300	1,740	N-A7500-----00-	10	440	5.3	220
	HP	7.60	7.40	6.60	5.18	3.30	---					
8X	Torque	898	1,090	1,300	1,540	1,950	2,600	N-A9100-----00-	15	880	7.7	440
	HP	11.4	11.1	9.90	7.82	4.95	---					
8X	Torque	1,200	1,460	1,730	2,050	2,600	3,470	N-A9500-----00-	20	880	7.7	440
	HP	15.2	14.8	13.2	10.4	6.60	---					

See page 28 - 42 for dimensions.

Overhung load ratings are based on the load being applied at the center of the output shaft extension.



## Rating Table

Speed Range: 0-600 RPM, Motor Speed: 1750 RPM, Reducer: None

Size	in-lbs	Rating at Output RPM						Model Code	Motor	OHL	k	Thrust
	HP	600	480	360	240	120	0		HP	lbs	in	lbs
2X	Torque	19	22	25	28	34	44	N-C0200-----03-	0.25	130	2.8	66
	HP	0.18	0.17	0.14	0.11	0.06	---					
2X	Torque	38	43	49	56	68	87	N-C0400-----03-	0.5	130	2.8	66
	HP	0.36	0.33	0.28	0.21	0.13	---					
3X	Torque	58	65	74	85	102	130	N-A0500-----03-	0.75	180	3.1	88
	HP	0.55	0.50	0.42	0.32	0.19	---					
3X	Torque	77	87	98	113	137	174	N-A0700-----03-	1	180	3.1	88
	HP	0.73	0.66	0.56	0.43	0.26	---					
4X	Torque	115	130	147	169	205	260	N-A1000-----03-	1.5	260	4.3	130
	HP	1.09	0.99	0.84	0.64	0.39	---					
4X	Torque	153	173	196	226	273	347	N-A1500-----03-	2	260	4.3	130
	HP	1.46	1.32	1.12	0.86	0.52	---					
5X	Torque	230	260	294	339	410	521	N-A2200-----03-	3	400	4.3	200
	HP	2.19	1.98	1.68	1.29	0.78	---					
6X	Torque	383	433	490	565	685	868	N-A3700-----03-	5	420	4.9	210
	HP	3.65	3.30	2.80	2.15	1.30	---					
7X	Torque	575	650	735	847	1,020	1,300	N-A5500-----03-	7.5	440	5.3	220
	HP	5.47	4.95	4.20	3.23	1.94	---					
7.5X	Torque	767	867	980	1,130	1,370	1,740	N-A7500-----03-	10	440	5.3	220
	HP	7.30	6.60	5.60	4.30	2.61	---					
8X	Torque	1,150	1,300	1,470	1,690	2,050	2,600	N-A9100-----03-	15	880	7.7	440
	HP	10.9	9.90	8.40	6.44	3.90	---					
8X	Torque	1,530	1,730	1,960	2,260	2,730	3,470	N-A9500-----03-	20	880	7.7	440
	HP	14.6	13.2	11.2	8.61	5.20	---					

See page 28 - 42 for dimensions.

Overhung load ratings are based on the load being applied at the center of the output shaft extension.

# RXC SERIES Mechanical Adjustable Speed Drive

## Rating Table

Speed Range: 0-400 RPM, Motor Speed: 1150 RPM, Reducer: None

Size	in-lbs HP	Rating at Output RPM						Model Code	Motor HP	OHL lbs	k in	Thrust lbs
		400	320	240	160	80	0					
2X	Torque	30	33	37	44	53	66	N-C0400-----03-	0.25	130	2.8	66
	HP	0.19	0.17	0.14	0.11	0.07	---					
2X	Torque	59	65	73	87	104	131	N-A0500-----03-	0.5	130	2.8	66
	HP	0.37	0.33	0.28	0.22	0.13	---					
3X	Torque	89	98	110	131	157	195	N-A0700-----03-	0.75	180	3.1	88
	HP	0.56	0.50	0.42	0.33	0.20	---					
3X	Torque	118	131	147	175	210	261	N-A1000-----03-	1	180	3.1	88
	HP	0.75	0.67	0.56	0.44	0.27	---					
4X	Torque	175	195	221	260	312	390	N-A2200-----03-	1.5	260	4.3	130
	HP	1.11	0.99	0.84	0.66	0.40	---					
4X	Torque	234	260	291	346	416	521	N-A2200-----03-	2	260	4.3	130
	HP	1.49	1.32	1.11	0.88	0.53	---					
5X	Torque	351	390	437	520	624	782	N-A3700-----03-	3	400	4.3	200
	HP	2.23	1.98	1.66	1.32	0.79	---					
6X	Torque	585	650	728	866	1,040	1,300	N-A5500-----03-	5	420	4.9	210
	HP	3.71	3.30	2.77	2.20	1.32	---					
7X	Torque	877	975	1,092	1,300	1,560	1,950	N-A7500-----03-	7.5	440	5.3	220
	HP	5.57	4.95	4.16	3.30	1.98	---					
7.5X	Torque	1,170	1,300	1,456	1,730	2,080	2,610	N-A9100-----03-	10	440	5.3	220
	HP	7.43	6.60	5.54	4.39	2.64	---					
8X	Torque	1,760	1,950	2,210	2,540	3,120	3,920	N-A9100-----03-	15	880	7.7	440
	HP	13.4	9.90	8.42	6.45	3.96	---					
8X	Torque	2,340	2,600	2,920	3,460	4,160	5,220	N-A9500-----03-	20	880	7.7	440
	HP	14.9	13.2	11.1	8.78	5.28	---					

See page 28 - 42 for dimensions.

Overhung load ratings are based on the load being applied at the center of the output shaft extension.

## Rating Table

Speed Range: 0-267 RPM, Motor Speed: 1750 RPM, Built-in Planetary Reducer, Ratio: 3:1

Size	in-lbs	Rating at Output RPM						Model Code	Motor	OHL	k	Thrust
	HP	267	213	160	107	53	0		HP	lbs	in	lbs
2X	Torque	43	54	63	74	91	125	N-C0283-----00-	0.25	260	2.9	110
	HP	0.18	0.18	0.16	0.13	0.08	---					
2X	Torque	86	103	123	145	185	248	N-C0483-----00-	0.5	260	2.9	110
	HP	0.36	0.35	0.31	0.25	0.16	---					
3X	Torque	128	157	185	219	276	371	N-A0503-----00-	0.75	370	3.5	110
	HP	0.54	0.53	0.47	0.37	0.23	---					
3X	Torque	171	208	248	291	371	496	N-A0703-----00-	1	370	3.5	110
	HP	0.72	0.70	0.63	0.49	0.31	---					
4X	Torque	257	311	371	439	556	741	N-A1003-----00-	1.5	490	4.7	200
	HP	1.09	1.05	0.94	0.74	0.47	---					
4X	Torque	342	416	493	584	741	989	N-A1503-----00-	2	490	4.7	200
	HP	1.45	1.41	1.25	0.99	0.63	---					
5X	Torque	513	624	741	875	1,110	1,480	N-A2203-----00-	3	570	6.1	290
	HP	2.17	2.11	1.88	1.48	0.94	---					
6X	Torque	852	1,040	1,230	1,460	1,850	2,470	N-A3703-----00-	5	840	6.7	420
	HP	3.61	3.52	3.12	2.47	1.57	---					
7X	Torque	1,280	1,560	1,850	2,190	2,780	3,710	N-A5503-----00-	7.5	1,100	7.3	540
	HP	5.42	5.28	4.70	3.71	2.35	---					
7.5X	Torque	1,710	2,080	2,470	2,910	3,710	4,960	N-A7503-----00-	10	1,100	7.3	540
	HP	7.24	7.04	6.27	4.93	3.14	---					
8X	Torque	2,560	3,110	3,710	4,390	5,560	7,410	N-A9103-----00-	15	2,000	3.9	1,100
	HP	10.8	10.5	9.42	7.43	4.71	---					
8X	Torque	3,420	4,160	4,930	5,840	7,410	9,890	N-A9503-----00-	20	2,000	3.9	1,100
	HP	14.5	14.1	12.5	9.88	6.27	---					

See page 28 - 42 for dimensions.

Overhung load ratings are based on the load being applied at the center of the output shaft extension.

# RXC SERIES Mechanical Adjustable Speed Drive

## Rating Table

**Speed Range: 0-200 RPM, Motor Speed: 1750 RPM, Built-in Planetary Reducer, Ratio: 3:1**

Size	in-lbs HP	Rating at Output RPM						Model Code	Motor HP	OHL lbs	k in	Thrust lbs
		200	160	120	80	40	0					
2X	Torque	54	63	71	80	97	125	N-C0283-----03-	0.25	260	2.9	110
	HP	0.17	0.16	0.14	0.10	0.06	---					
2X	Torque	108	123	140	160	194	248	N-C0483-----03-	0.5	260	2.9	110
	HP	0.34	0.31	0.27	0.20	0.12	---					
3X	Torque	165	185	211	242	291	371	N-A0503-----03-	0.75	370	3.5	110
	HP	0.52	0.47	0.40	0.31	0.18	---					
3X	Torque	219	248	279	322	390	496	N-A0703-----03-	1	370	3.5	110
	HP	0.70	0.63	0.53	0.41	0.25	---					
4X	Torque	328	371	419	482	584	741	N-A1003-----03-	1.5	490	4.7	200
	HP	1.04	0.94	0.80	0.61	0.37	---					
4X	Torque	436	493	559	644	778	989	N-A1503-----03-	2	490	4.7	200
	HP	1.38	1.25	1.06	0.82	0.49	---					
5X	Torque	656	741	838	966	1,170	1,480	N-A2203-----03-	3	570	6.1	290
	HP	2.08	1.88	1.60	1.23	0.74	---					
6X	Torque	1,090	1,230	1,400	1,610	1,950	2,470	N-A3703-----03-	5	840	6.7	420
	HP	3.46	3.12	2.67	2.04	1.24	---					
7X	Torque	1,640	1,850	2,090	2,410	2,910	3,710	N-A5503-----03-	7.5	1,100	7.3	540
	HP	5.20	4.70	3.98	3.06	1.85	---					
7.5X	Torque	2,190	2,470	2,790	3,220	3,900	4,960	N-A7503-----03-	10	1,100	7.3	540
	HP	6.95	6.27	5.31	4.09	2.48	---					
8X	Torque	3,280	3,710	4,190	4,820	5,840	7,410	N-A9103-----03-	15	2,000	3.9	1,100
	HP	10.41	9.42	7.98	6.12	3.71	---					
8X	Torque	4,360	4,930	5,590	6,440	7,780	9,890	N-A9503-----03-	20	2,000	3.9	1,100
	HP	13.8	12.5	10.6	8.17	4.94	---					

**Speed Range: 0-160 RPM, Motor Speed: 1750 RPM, Built-in Planetary Reducer, Ratio: 5:1**

Size	in-lbs HP	Rating at Output RPM						Model Code	Motor HP	OHL lbs	k in	Thrust lbs
		160	128	96	64	32	0					
2X	Torque	71	90	105	124	152	209	N-C0285-----00-	0.25	330	2.9	110
	HP	0.18	0.18	0.16	0.13	0.08	---					
2X	Torque	143	171	204	242	309	413	N-C0485-----00-	0.5	330	2.9	110
	HP	0.36	0.35	0.31	0.25	0.16	---					
8X	Torque	4,270	5,180	6,180	7,320	9,260	12,400	N-A9105-----00-	15	3,300	3.9	1,700
	HP	10.8	10.5	9.41	7.43	4.70	---					
8X	Torque	5,700	6,940	8,220	9,740	12,400	16,500	N-A9505-----00-	20	3,300	3.9	1,700
	HP	14.5	14.1	12.5	9.89	6.30	---					

See page 28 - 42 for dimensions.

Overhung load ratings are based on the load being applied at the center of the output shaft extension.

## Rating Table

Speed Range: 0-133 RPM, Motor Speed: 1750 RPM, Built-in Planetary Reducer, Ratio: 6:1

Size	in-lbs	Rating at Output RPM						Model Code	Motor	OHL	k	Thrust
	HP	133	107	80	53	27	0		HP	lbs	in	lbs
3X	Torque	257	314	371	439	553	741	N-A0506-----00-	0.75	490	3.5	110
	HP	0.54	0.53	0.47	0.37	0.23	---					
3X	Torque	342	416	496	581	741	992	N-A0706-----00-	1	490	3.5	110
	HP	0.72	0.70	0.63	0.49	0.31	---					
4X	Torque	513	621	741	878	1,110	1,480	N-A1006-----00-	1.5	620	4.7	200
	HP	1.09	1.05	0.94	0.74	0.47	---					
4X	Torque	648	832	986	1,170	1,480	1,980	N-A1506-----00-	2	620	4.7	200
	HP	1.45	1.41	1.25	0.99	0.63	---					
5X	Torque	1,030	1,250	1,480	1,750	2,220	2,970	N-A2206-----00-	3	730	6.1	330
	HP	2.18	2.12	1.88	1.48	0.94	---					
6X	Torque	1,700	2,070	2,470	2,920	3,710	4,950	N-A3706-----00-	5	1,100	6.7	440
	HP	3.60	3.50	3.14	2.47	1.57	---					
7X	Torque	2,560	3,120	3,710	4,380	5,560	7,410	N-A5506-----00-	7.5	1,400	7.3	690
	HP	5.42	5.28	4.71	3.71	2.35	---					
7.5X	Torque	3,410	4,160	4,940	5,810	7,410	9,920	N-A7506-----00-	10	1,400	7.3	690
	HP	7.21	7.04	6.27	4.92	3.14	---					

Speed Range: 0-120 RPM, Motor Speed: 1750 RPM, Built-in Planetary Reducer, Ratio: 5:1

Size	in-lbs	Rating at Output RPM						Model Code	Motor	OHL	k	Thrust
	HP	120	96	72	48	24	0		HP	lbs	in	lbs
2X	Torque	90	105	119	133	162	209	N-C0285-----03-	0.25	330	2.9	110
	HP	0.17	0.16	0.14	0.10	0.06	---					
2X	Torque	181	204	233	266	323	413	N-C0485-----03-	0.5	330	2.9	110
	HP	0.34	0.31	0.27	0.20	0.12	---					
8X	Torque	5,460	6,180	6,980	8,030	9,740	12,400	N-A9105-----03-	15	3,300	3.9	1,700
	HP	10.4	9.40	8.00	6.10	3.71	---					
8X	Torque	7,270	8,220	9,310	10,700	13,000	16,500	N-A9505-----03-	20	3,300	3.9	1,700
	HP	13.8	12.5	10.6	8.10	4.95	---					

See page 28 - 42 for dimensions.

Overhung load ratings are based on the load being applied at the center of the output shaft extension.

# RXC SERIES Mechanical Adjustable Speed Drive

## Rating Table

Speed Range: 0-100 RPM, Motor Speed: 1750 RPM, Built-in Planetary Reducer, Ratio: 6:1

Size	in-lbs	Rating at Output RPM						Model Code	Motor	OHL	k	Thrust
	HP	100	80	60	40	20	0		HP	lbs	in	lbs
3X	Torque	331	371	422	485	581	741	N-A0506-----03-	0.75	490	3.5	110
	HP	0.52	0.47	0.40	0.31	0.18	---					
3X	Torque	439	496	559	644	781	992	N-A0706-----03-	1	490	3.5	110
	HP	0.70	0.63	0.53	0.41	0.25	---					
4X	Torque	656	741	838	963	1,170	1,480	N-A1006-----03-	1.5	620	4.7	200
	HP	1.04	0.94	0.80	0.61	0.37	---					
4X	Torque	872	986	1,120	1,290	1,560	1,980	N-A1506-----03-	2	620	4.7	200
	HP	1.38	1.25	1.07	0.82	0.50	---					
5X	Torque	1,310	1,480	1,680	1,930	2,340	2,970	N-A2206-----03-	3	730	6.1	330
	HP	2.08	1.88	1.60	1.22	0.74	---					
6X	Torque	2,180	2,470	2,790	3,220	3,900	4,950	N-A3706-----03-	5	1,100	6.7	440
	HP	3.46	3.14	2.66	2.04	0.74	---					
7X	Torque	3,280	3,710	4,190	4,830	5,810	7,410	N-A5506-----03-	7.5	1,400	7.3	690
	HP	5.20	4.71	3.99	3.07	1.84	---					
7.5X	Torque	4,370	4,940	5,590	6,440	7,810	9,220	N-A7506-----03-	10	1,400	7.3	690
	HP	6.93	6.27	5.32	4.09	2.84	---					

See page 28 - 42 for dimensions.

Overhung load ratings are based on the load being applied at the center of the output shaft extension.

## Rating Table

Speed Range: 0-73 RPM, Motor Speed: 1750 RPM, Built-in ER Cycloidal Reducer, Ratio: 11:1

Size	in-lbs	Rating at Output RPM						Model Code	Motor	OHL	k	Thrust
	HP	72.3	58.2	43.6	29.1	14.6	0		HP	lbs	in	lbs
2X	Torque	153	193	224	265	326	448	N-C02A1-----00-	0.25	480	2.5	240
	HP	0.18	0.18	0.15	0.12	0.08	---					
2X	Torque	305	366	438	519	521	521	N-C04A1-----00-	0.5	480	2.5	240
	HP	0.35	0.34	0.30	0.24	0.12	---					
2X	Torque	305	366	438	519	521	521	N-C04B1-----00-	0.5	790	2.9	400
	HP	0.35	0.34	0.30	0.24	0.15	---					
3X	Torque	458	560	661	783	987	1,323	N-A05B1-----00-	0.75	790	2.9	400
	HP	0.53	0.52	0.46	0.36	0.23	---					
3X	Torque	611	743	885	1,040	1,320	1,740	N-A07B1-----00-	1	790	2.9	400
	HP	0.70	0.69	0.61	0.48	0.30	---					
4X	Torque	916	1,110	1,320	1,570	1,980	2,650	N-A10C1-----00-	1.5	1,400	3.7	700
	HP	1.06	1.02	0.91	0.72	0.46	---					
4X	Torque	1,220	1,490	1,760	2,090	2,650	3,470	N-A15C1-----00-	2	1,400	3.7	700
	HP	1.41	1.38	1.22	0.96	0.61	---					
5X	Torque	1,830	2,230	2,650	3,120	3,970	5,300	N-A22D1-----00-	3	2,600	7.7	1,300
	HP	2.11	2.06	1.83	1.44	0.92	---					
6X	Torque	3,040	3,700	4,410	5,210	6,610	7,810	N-A37D1-----00-	5	2,600	7.7	1,300
	HP	3.51	3.42	3.05	2.40	1.53	---					
7X	Torque	4,570	5,570	6,610	7,810	9,920	13,200	N-A55E1-----00-	7.5	4,600	9.7	2,300
	HP	5.27	5.14	4.58	3.60	2.29	---					
7.5X	Torque	6,090	7,420	8,820	10,380	13,230	17,100	N-A75E1-----00-	10	4,600	9.7	2,300
	HP	7.03	6.85	6.11	4.79	3.05	---					
8X	Torque	9,140	11,100	13,200	15,700	19,800	26,500	N-A91F1-----00-	15	6,700	11.6	3,300
	HP	10.5	10.2	9.14	7.25	4.57	---					
8X	Torque	12,200	14,900	17,600	20,900	26,500	35,300	N-A95F1-----00-	20	6,700	11.6	3,300
	HP	14.1	13.8	12.2	9.65	6.12	---					

See page 28 - 42 for dimensions.

Overhung load ratings are based on the load being applied at the center of the output shaft extension.

# RXC SERIES Mechanical Adjustable Speed Drive

## Rating Table

Speed Range: 0-47 RPM, Motor Speed: 1750 RPM, Built-in ER Cycloidal Reducer, Ratio: 17:1

Size	in-lbs HP	Rating at Output RPM						Model Code	Motor HP	OHL lbs	k in	Thrust lbs
		47.1	37.7	28.2	18.8	9.41	0					
2X	Torque	236	299	346	409	503	692	N-C02A2-----00-	0.25	480	2.5	240
	HP	0.18	0.18	0.15	0.12	0.08	---					
2X	Torque	472	566	676	730	730	730	N-C04A2-----00-	0.5	480	2.5	240
	HP	0.35	0.34	0.30	0.22	0.11	---					
2X	Torque	472	566	676	802	1,020	1,370	N-C04B2-----00-	0.5	790	2.9	400
	HP	0.35	0.34	0.30	0.24	0.15	---					
3X	Torque	708	865	1,020	1,210	1,530	2,040	N-A05B2-----00-	0.75	790	2.9	400
	HP	0.53	0.52	0.46	0.36	0.23	---					
3X	Torque	944	1,150	1,370	1,600	2,040	2,600	N-A07B2-----00-	1	790	2.9	400
	HP	0.70	0.69	0.61	0.48	0.30	---					
3X	Torque	944	1,150	1,370	1,600	2,040	2,740	N-A07C2-----00-	1	1,600	3.7	820
	HP	0.70	0.69	0.61	0.48	0.30	---					
4X	Torque	1,420	1,710	2,040	2,420	3,070	4,090	N-A10C2-----00-	1.5	1,600	3.7	820
	HP	1.06	1.02	0.91	0.72	0.46	---					
4X	Torque	1,890	2,300	2,720	3,220	4,090	5,460	N-A15C2-----00-	2	1,600	3.7	820
	HP	1.41	1.37	1.22	0.96	0.61	---					
5X	Torque	2,830	3,440	4,090	4,830	6,130	8,190	N-A22D2-----00-	3	2,900	7.7	1,500
	HP	2.11	2.05	1.83	1.44	0.92	---					
6X	Torque	4,700	5,720	6,810	8,050	10,200	12,600	N-A37D2-----00-	5	2,900	7.7	1,500
	HP	3.51	3.42	3.05	2.40	1.52	---					
6X	Torque	4,700	5,720	6,810	8,050	10,200	13,600	N-A37E2-----00-	5	4,600	9.7	2,300
	HP	3.51	3.42	3.05	2.40	1.52	---					
7X	Torque	7,060	8,600	10,200	12,100	15,300	20,400	N-A55E2-----00-	7.5	4,600	9.7	2,300
	HP	5.27	5.14	4.57	3.61	2.28	---					
7.5X	Torque	9,420	11,500	13,600	16,000	20,400	21,700	N-A75E2-----00-	10	4,600	9.7	2,300
	HP	7.03	6.85	6.11	4.79	3.05	---					
8X	Torque	14,100	17,100	20,400	24,200	30,700	40,900	N-A91F2-----00-	15	7,500	11.6	3,700
	HP	10.5	10.2	9.14	7.23	4.58	---					
8X	Torque	18,900	23,000	27,200	32,200	40,900	52,100	N-A95F2-----00-	20	7,500	11.6	3,700
	HP	14.1	13.7	12.2	9.62	6.11	---					

See page 28 - 42 for dimensions.

Overhung load ratings are based on the load being applied at the center of the output shaft extension.



## Rating Table

Speed Range: 0-28 RPM, Motor Speed: 1750 RPM, Built-in ER Cycloidal Reducer, Ratio: 29:1

Size	in-lbs	Rating at Output RPM						Model Code	Motor	OHL	k	Thrust
	HP	27.6	22.1	16.6	11	5.52	0		HP	lbs	in	lbs
2X	Torque	402	510	590	697	730	730	N-C02A3-----00-	0.25	480	2.5	240
	HP	0.18	0.18	0.15	0.12	0.06	---					
2X	Torque	402	510	590	697	858	1,180	N-C02B3-----00-	0.25	790	2.9	400
	HP	0.18	0.18	0.15	0.12	0.08	---					
2X	Torque	805	966	1,150	1,370	1,740	2,330	N-C04B3-----00-	0.5	790	2.9	400
	HP	0.35	0.34	0.30	0.24	0.15	---					
3X	Torque	1,210	1,480	1,740	2,070	2,600	2,600	N-A05B3-----00-	0.75	790	2.9	400
	HP	0.53	0.52	0.46	0.36	0.23	---					
3X	Torque	1,610	1,960	2,330	2,600	2,600	2,600	N-A07B3-----00-	1	790	2.9	400
	HP	0.70	0.69	0.61	0.46	0.23	---					
3X	Torque	1,610	1,960	2,330	2,740	3,490	4,670	N-A07C3-----00-	1	1,700	3.7	840
	HP	0.70	0.69	0.61	0.48	0.31	---					
4X	Torque	2,410	2,920	3,490	4,130	5,230	6,080	N-A10C3-----00-	1.5	1,700	3.7	840
	HP	1.05	1.02	0.92	0.72	0.46	---					
4X	Torque	3,220	3,920	4,640	5,500	6,080	6,080	N-A15C3-----00-	2	1,700	3.7	840
	HP	1.41	1.37	1.22	0.96	0.53	---					
4X	Torque	3,220	3,920	4,640	5,500	6,970	9,310	N-A15D3-----00-	2	3,100	7.7	1,500
	HP	1.41	1.37	1.22	0.96	0.61	---					
5X	Torque	4,830	5,870	6,970	8,240	10,460	12,600	N-A22D3-----00-	3	3,100	7.7	1,500
	HP	2.11	2.06	1.83	1.44	0.92	---					
6X	Torque	8,020	9,760	11,600	12,600	12,600	12,600	N-A37D3-----00-	5	3,100	7.7	1,500
	HP	3.51	3.42	3.05	2.21	1.10	---					
6X	Torque	8,020	9,760	11,600	13,700	17,400	23,300	N-A37E3-----00-	5	4,600	9.7	2,300
	HP	3.51	3.42	3.05	2.40	1.52	---					
7X	Torque	12,000	14,700	17,400	20,600	26,200	31,200	N-A55E3-----00-	7.5	4,600	9.7	2,300
	HP	5.25	5.15	4.57	3.61	2.29	---					
7.5X	Torque	16,100	19,600	23,300	27,400	31,200	31,200	N-A75E3-----00-	10	4,600	9.7	2,300
	HP	7.05	6.86	6.12	4.80	2.73	---					
8X	Torque	24,100	29,200	34,900	41,300	52,300	65,100	N-A91F3-----00-	15	7,500	11.6	3,700
	HP	10.5	10.2	9.17	7.23	4.58	---					
8X	Torque	32,200	39,200	46,400	55,000	65,100	65,100	N-A95F3-----00-	20	7,500	11.6	3,700
	HP	14.1	13.7	12.2	9.63	5.70	---					

See page 28 - 42 for dimensions.

Overhung load ratings are based on the load being applied at the center of the output shaft extension.

# RXC SERIES Mechanical Adjustable Speed Drive

## Rating Table

Speed Range: 0-23 RPM, Motor Speed: 1750 RPM, Built-in ER Cycloidal Reducer, Ratio: 35:1

Size	in-lbs HP	Rating at Output RPM						Model Code	Motor HP	OHL lbs	k in	Thrust lbs
		22.9	18.3	13.7	9.14	4.57	0					
2X	Torque	486	615	712	730	730	730	N-C02A4-----00-	0.25	480	2.5	240
	HP	0.18	0.18	0.15	0.12	0.08	---					
2X	Torque	486	615	712	842	1,036	1,425	N-C02B4-----00-	0.25	790	2.9	400
	HP	0.18	0.18	0.15	0.12	0.08	---					
2X	Torque	971	1,170	1,390	1,650	2,100	2,600	N-C04B4-----00-	0.5	790	2.9	400
	HP	0.35	0.34	0.30	0.24	0.15	---					
3X	Torque	1,460	1,780	2,100	2,490	2,600	2,600	N-A05B4-----00-	0.75	790	2.9	400
	HP	0.53	0.52	0.46	0.36	0.19	---					
3X	Torque	1,460	1,780	2,100	2,490	3,140	4,210	N-A05C4-----00-	0.75	1,700	3.7	840
	HP	0.53	0.52	0.46	0.36	0.23	---					
3X	Torque	1,940	2,360	2,820	3,300	4,210	5,630	N-B07C4-----00-	1	1,700	3.7	840
	HP	0.70	0.68	0.61	0.48	0.31	---					
4X	Torque	2,910	3,530	4,210	4,990	6,080	6,080	N-A10C4-----00-	1.5	1,700	3.7	840
	HP	1.06	1.02	0.92	0.72	0.44	---					
4X	Torque	2,910	3,530	4,210	4,990	6,310	8,420	N-A10D4-----00-	1.5	3,100	7.7	1,500
	HP	1.06	1.02	0.92	0.72	0.46	---					
4X	Torque	3,890	4,730	5,600	6,080	6,080	6,080	N-A15C4-----00-	2	1,700	3.7	840
	HP	1.41	1.37	1.22	0.96	0.61	---					
4X	Torque	3,890	4,730	5,600	6,640	8,420	11,230	N-A15D4-----00-	2	3,100	7.7	1,500
	HP	1.41	1.37	1.22	0.96	0.61	---					
5X	Torque	5,830	7,090	8,420	9,940	12,600	12,600	N-A22D4-----00-	3	3,100	7.7	1,500
	HP	2.11	2.06	1.83	1.44	0.91	---					
6X	Torque	9,680	11,800	14,000	16,600	21,000	28,100	N-A37E4-----00-	5	4,600	9.7	2,300
	HP	3.51	3.42	3.05	2.41	1.52	---					
7X	Torque	14,500	17,700	21,000	24,900	31,600	31,200	N-A55E4-----00-	7.5	4,600	9.7	2,300
	HP	5.26	5.14	4.57	3.61	2.29	---					
7.5X	Torque	19,400	23,600	28,100	33,000	42,100	56,300	N-A75F4-----00-	10	7,500	11.6	3,700
	HP	7.04	6.85	6.11	4.79	3.05	---					
8X	Torque	29,100	35,300	42,100	49,900	63,100	65,100	N-A91F4-----00-	15	7,500	11.6	3,700
	HP	10.6	10.2	9.16	7.24	4.58	---					
8X	Torque	38,850	47,268	56,009	65,100	65,100	65,100	N-A95F4-----00-	20	7,500	11.6	3,700
	HP	14.1	13.7	12.2	9.44	4.72	---					

See page 28 - 42 for dimensions.

Overhung load ratings are based on the load being applied at the center of the output shaft extension.

## Rating Table

**Speed Range: 0-17 RPM, Motor Speed: 1750 RPM, Built-in ER Cycloidal Reducer, Ratio: 47:1**

Size	in-lbs	Rating at Output RPM						Model Code	Motor	OHL	k	Thrust
	HP	17	14	10	7	3	0		HP	lbs	in	lbs
2X	Torque	652	826	956	1,130	1,390	1,910	N-C02B5-----00-	0.25	790	2.9	400
	HP	0.18	0.18	0.15	0.12	0.08	---					
2X	Torque	1,300	1,570	1,870	2,220	2,600	2,600	N-C04B5-----00-	0.5	790	2.9	400
	HP	0.35	0.34	0.30	0.24	0.14	---					
3X	Torque	1,960	2,390	2,600	2,600	2,600	2,600	N-A05B5-----00-	0.75	790	2.9	400
	HP	0.53	0.52	0.42	0.28	0.14	---					
3X	Torque	1,960	2,390	2,830	3,350	4,220	5,650	N-A05C5-----00-	0.75	1,700	3.7	840
	HP	0.53	0.52	0.46	0.36	0.23	---					
3X	Torque	2,610	3,170	3,780	4,430	5,650	6,080	N-A07C5-----00-	1	1,700	3.7	840
	HP	0.70	0.68	0.61	0.48	0.31	---					
4X	Torque	3,910	4,740	5,650	6,080	6,080	6,080	N-A10C5-----00-	1.5	1,700	3.7	840
	HP	1.06	1.02	0.92	0.66	0.33	---					
4X	Torque	3,910	4,740	5,650	6,700	8,480	11,300	N-A10D5-----00-	1.5	3,100	7.7	1,500
	HP	1.06	1.02	0.92	0.72	0.46	---					
4X	Torque	5,220	6,350	7,520	8,910	11,300	12,600	N-A15D5-----00-	2	3,100	7.7	1,500
	HP	1.41	1.37	1.22	0.96	0.61	---					
5X	Torque	7,830	9,520	11,300	12,600	12,600	12,600	N-A22D5-----00-	3	3,100	7.7	1,500
	HP	2.11	2.06	1.83	1.44	0.92	---					
5X	Torque	7,830	9,520	11,300	13,300	17,000	22,700	N-A22E5-----00-	3	4,600	9.7	2,300
	HP	2.11	2.06	1.83	1.44	0.92	---					
6X	Torque	13,000	15,800	18,800	22,300	28,300	31,200	N-A37E5-----00-	5	4,600	9.7	2,300
	HP	3.51	3.41	3.05	2.41	1.53	---					
7X	Torque	19,500	23,800	28,300	31,200	31,200	31,200	N-A55E5-----00-	7.5	4,600	9.7	2,300
	HP	5.27	5.14	4.59	3.61	2.29	---					
7X	Torque	19,500	23,800	28,300	33,400	42,400	56,500	N-A55F5-----00-	7.5	7,500	11.6	3,700
	HP	5.27	5.14	4.59	3.61	2.29	---					
7.5X	Torque	26,000	31,700	37,700	44,300	56,500	65,100	N-A75F5-----00-	10	7,500	11.6	3,700
	HP	7.02	6.85	6.11	4.79	3.05	---					
8X	Torque	39,000	47,400	56,500	65,100	65,100	65,100	N-A91F5-----00-	15	7,500	11.6	3,700
	HP	10.5	10.2	9.16	7.03	3.52	---					
8X	Torque	52,200	65,100	65,100	65,100	65,100	65,100	N-A95F5-----00-	20	7,500	11.6	3,700
	HP	14.1	14.1	10.5	7.03	3.52	---					

See page 28 - 42 for dimensions.

Overhung load ratings are based on the load being applied at the center of the output shaft extension.

# RXC SERIES Mechanical Adjustable Speed Drive

## Rating Table

Speed Range: 0-14 RPM, Motor Speed: 1750 RPM, Built-in ER Cycloidal Reducer, Ratio: 59:1

Size	in-lbs HP	Rating at Output RPM						Model Code	Motor HP	OHL lbs	k in	Thrust lbs
		14	11	8	5	3	0					
2X	Torque	819	1,040	1,200	1,420	1,750	2,400	N-C02B6-----00-	0.25	790	2.9	400
	HP	0.18	0.18	0.15	0.12	0.08	---					
2X	Torque	1,640	1,960	2,350	2,600	2,600	2,600	N-C04B6-----00-	0.5	790	2.9	400
	HP	0.35	0.34	0.30	0.22	0.11	---					
3X	Torque	2,460	3,000	3,550	4,200	5,290	6,080	N-A05C6-----00-	0.75	1,700	3.7	840
	HP	0.53	0.52	0.46	0.36	0.23	---					
3X	Torque	3,270	3,980	4,750	5,570	6,080	6,080	N-A07C6-----00-	1	1,700	3.7	840
	HP	0.70	0.69	0.61	0.48	0.26	---					
4X	Torque	4,910	5,950	7,090	8,400	10,600	12,600	N-A10D6-----00-	1.5	3,100	7.7	1,500
	HP	1.06	1.02	0.92	0.72	0.46	---					
4X	Torque	6,550	7,970	9,440	11,200	12,600	12,600	N-A15D6-----00-	2	3,100	7.7	1,500
	HP	1.41	1.37	1.22	0.96	0.54	---					
5X	Torque	9,820	12,000	14,200	16,800	21,300	28,400	N-A22E6-----00-	3	4,600	9.7	2,300
	HP	2.11	2.07	1.83	1.45	0.92	---					
6X	Torque	16,300	19,900	23,600	27,900	31,200	31,200	N-A37E6-----00-	5	4,600	9.7	2,300
	HP	3.51	3.43	3.05	2.40	1.34	---					
7X	Torque	24,500	29,900	35,500	41,900	53,200	65,100	N-A55F6-----00-	7.5	7,500	11.6	3,700
	HP	5.27	5.15	4.58	3.61	2.29	---					
7.5X	Torque	32,700	39,800	47,300	55,700	65,100	65,100	N-A75F6-----00-	10	7,500	11.6	3,700
	HP	7.04	6.85	6.11	4.79	2.80	---					
8X	Torque	49,000	59,500	65,100	65,100	65,100	65,100	N-A91F6-----00-	15	7,500	11.6	3,700
	HP	10.5	10.2	9.15	7.23	4.56	---					

See page 28 - 42 for dimensions.

Overhung load ratings are based on the load being applied at the center of the output shaft extension.

## Rating Table

Speed Range: 0-11 RPM, Motor Speed: 1750 RPM, Built-in ER Cycloidal Reducer, Ratio: 71:1

Size	in-lbs	Rating at Output RPM						Model Code	Motor	OHL	k	Thrust
	HP	11	9	7	5	2	0		HP	lbs	in	lbs
2X	Torque	985	1,250	1,440	1,710	2,100	2,600	N-C02B7-----00-	0.25	790	2.9	400
	HP	0.18	0.18	0.15	0.12	0.08	---					
2X	Torque	1,970	2,360	2,600	2,600	2,600	2,600	N-C04B7-----00-	0.5	790	2.9	400
	HP	0.35	0.34	0.28	0.19	0.09	---					
3X	Torque	2,960	3,610	4,270	5,060	6,080	6,080	N-B05C7-----00-	0.75	1,700	3.7	840
	HP	0.53	0.52	0.46	0.36	0.22	---					
3X	Torque	3,940	4,790	5,710	6,080	6,080	6,080	N-B07C7-----00-	1	1,700	3.7	840
	HP	0.70	0.69	0.61	0.43	0.22	---					
4X	Torque	5,910	7,160	8,540	10,100	12,600	12,600	N-A10D7-----00-	1.5	3,100	7.7	1,500
	HP	1.06	1.02	0.92	0.72	0.45	---					
4X	Torque	7,880	9,590	11,400	12,600	12,600	12,600	N-A15D7-----00-	2	3,100	7.7	1,500
	HP	1.41	1.37	1.22	0.90	0.45	---					
5X	Torque	11,800	14,400	17,100	20,200	25,600	31,200	N-A22E7-----00-	3	4,600	9.7	2,300
	HP	2.11	2.06	1.83	1.44	0.92	---					
6X	Torque	19,600	23,900	28,400	31,200	31,200	31,200	N-A37E7-----00-	5	4,600	9.7	2,300
	HP	3.50	3.42	3.05	2.23	1.12	---					
7X	Torque	29,500	35,900	42,700	50,400	64,000	65,100	N-A55F7-----00-	7.5	7,500	11.6	3,700
	HP	5.27	5.13	4.58	3.60	2.29	---					
7.5X	Torque	39,300	47,900	56,900	65,100	65,100	65,100	N-A75F7-----00-	10	7,500	11.6	3,700
	HP	7.03	6.85	6.10	4.66	2.33	---					

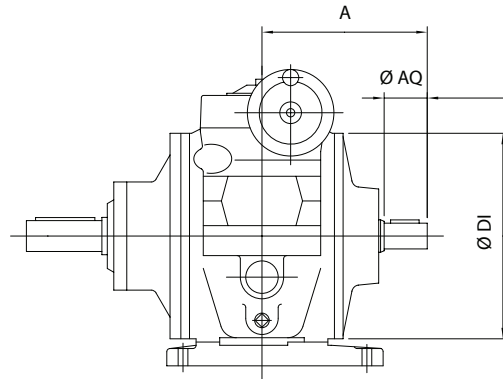
See page 28 - 42 for dimensions.

Overhung load ratings are based on the load being applied at the center of the output shaft extension.

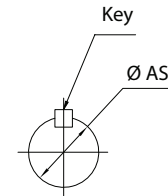
# RXC SERIES Mechanical Adjustable Speed Drive

## Dimensions

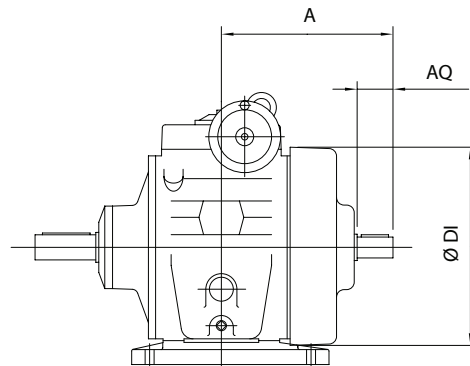
### Shaft Input, Size 02-15 (2x-4x)



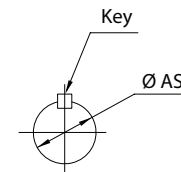
### Input Shaft



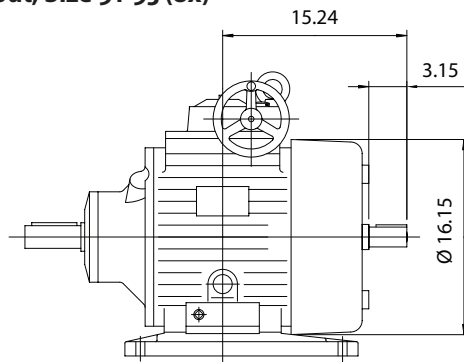
### Shaft Input, Size 22-75 (5x-7.5x)



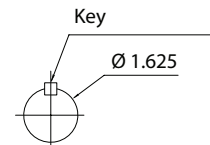
### Input Shaft



### Shaft Input, Size 91-95 (8x)



### Input Shaft

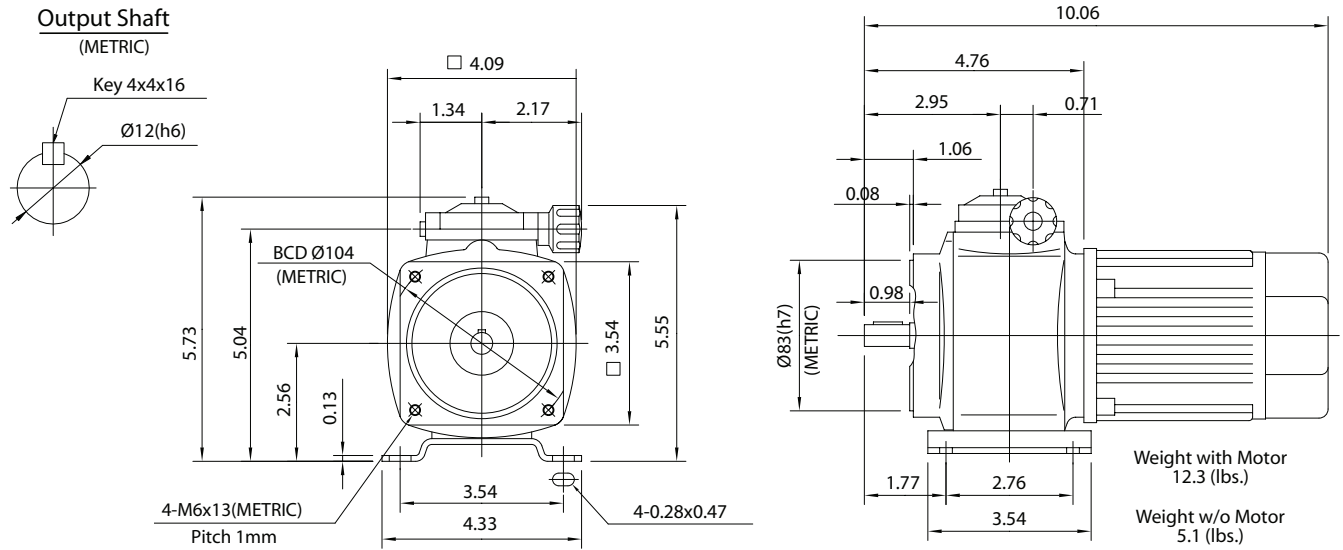


### Shaft Input, Size 02-95 (2x-8x)

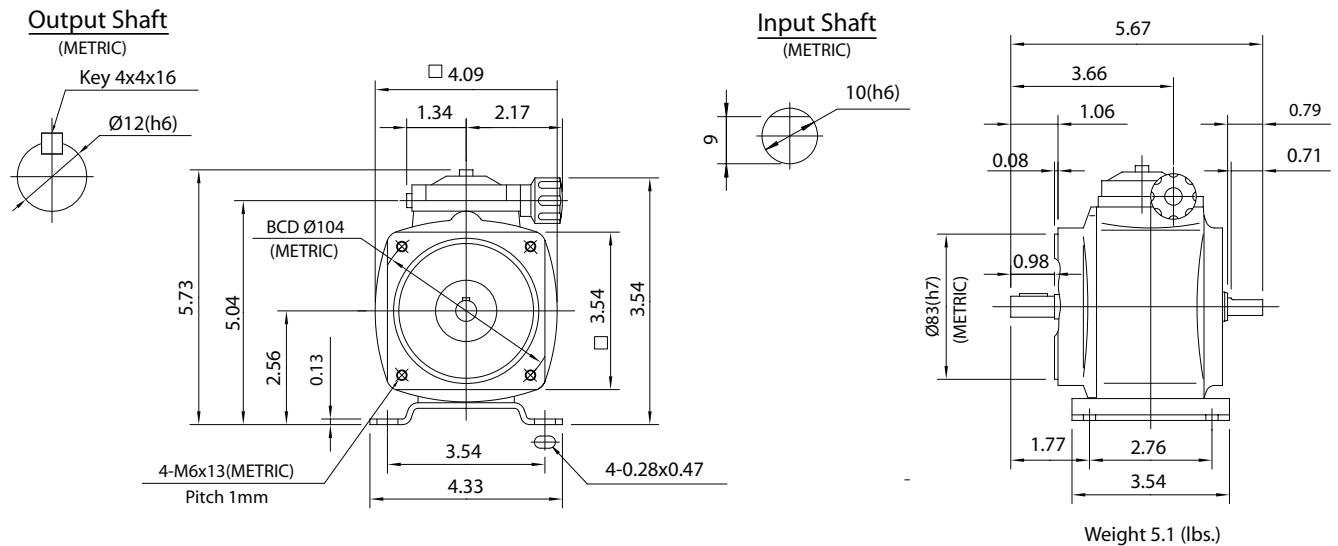
Size	RX Model Number	A	AQ	AS	DI	Input Shaft Key	Weight (lbs.)	Lube Qty (gal.) *
2X	NXC02 & NXC04	4.66	1.00	0.625	5.36	3/16x3/16x0.50	24	0.05
3X	NXC02 & NXC04	5.12	1.19	0.625	6.54	3/16x3/16x0.78	45	0.13
4X	NXA10 & NXA15	6.02	1.57	0.938	7.48	1/4x1/4x0.98	65	0.21
5X	NXA22	8.86	2.00	0.938	10.16	1/4x1/4x1.37	106	0.48
6X	NXA37	10.04	2.00	1.125	12.21	1/4x1/4x1.37	171	0.66
7X	NXA55	11.30	2.36	1.375	13.19	3/16x5/16x1.77	225	0.74
7.5X	NXA75	11.30	2.36	1.375	14.18	3/16x5/16x1.77	235	0.74
8X	NXA91 & NXA95	15.24	3.15	1.625	16.15	3/8x3/8x2.55	485	1.2

## Rating Table & Dimensions

### Base Mount, Input C-Face, No Reducer, Size 90 (1X)



### Base Mount, Shaft Input, No Reducer, Size 90 (1X)



Speed Range: 0-1000 rpm, Motor Speed: 1750 rpm, Adjustable Speed Selection  
Speed Range: 0-1000 rpm, Built-in Speed Reducer Ratio: None

Size	in-lbs HP	Rating at Output rpm					
		1000	800	600	400	200	0
1X	Torque HP	5.2	6.5	8.7	13	22	36
		0.08	0.08	0.08	0.08	0.07	--

# RXC SERIES Mechanical Adjustable Speed Drive

## Dimensions

### Base Mount, Input C-Face, No Speed Reducer, Sizes 02-95 (2X-8X)

Size	Model Code	C	D	DF	E	F	G	H	HC	HH	I
2X	NMB0200 & NMB0400	3.54	5.36	N/A	3.54	4.33	0.56	7.96	6.89	8.19	3.06
3X	NMA0500 & NMA0700	4.17	6.66	N/A	4.72	6.10	0.56	9.45	8.23	9.80	3.85
4X	NMA1000 & NMA1500	4.72	8.27	N/A	5.51	6.69	0.63	10.4	9.22	10.8	5.70
5X	NMA2200	6.06	10.0	N/A	6.30	9.06	0.79	12.8	11.5	13.8	5.31
6X	NMA3700	6.89	11.8	N/A	8.27	10.2	0.87	15.2	13.3	15.7	6.53
7X	NMA5500	7.72	12.8	13.2	9.06	10.6	0.99	16.9	15.0	17.4	7.55
7.5X	NMA7500	7.72	14.7	14.2	9.06	10.6	0.99	16.9	15.0	18.2	7.55
8X	NMA91 & NMA95	9.84	17.13	16.15	11.81	16.73	1.19	21.58	19.61	22.76	9.55

Size	Model Code	K1	K2	LK	M	N	Q	R	S	T	Z
2X	NMB0200 & NMB0400	3.63	2.17	9.28	4.73	5.52	1.88	5.15	0.625	0.71	0.36
3X	NMA0500 & NMA0700	4.80	2.92	11.6	5.91	7.29	1.88	6.48	0.625	1.05	0.36
4X	NMA1000 & NMA1500	4.80	2.92	14.7	6.70	7.88	2.75	8.58	1.125	1.05	0.36
5X	NMA2200	6.15	4.09	16.5	7.88	10.6	2.75	9.25	1.125	1.22	0.44
6X	NMA3700	6.89	4.84	19.3	10.2	12.2	3.38	11.3	1.375	1.54	0.59
7X	NMA5500	6.89	4.84	22.7	11.0	13.0	4.00	12.3	1.625	1.54	0.59
7.5X	NMA7500	9.02	4.84	22.7	11.0	13.0	4.00	12.3	1.625	1.54	0.59
8X	NMA91 & NMA95	9.89	5.63	29.71	14.37	19.3	4.63	16.36	1.875	2.36	0.75

Size	Model Code	Output Key	Hand-Wheel Dia.	Hand-wheel Turns	Weight w/o Motor (lbs.)	Lube Qty (gal.)	Input C-Face
2X	NMB0200 & NMB0400	.188x.188x1.37	2.56	18	24	0.05	56C
3X	NMA0500 & NMA0700	.188x.188x1.37	3.15	18	45	0.13	56C
4X	NMA1000 & NMA1500	.250x.250x2.16	3.15	19	65	0.21	140TC
5X	NMA2200	.250x.250x2.16	4.72	23	106	0.48	180TC
6X	NMA3700	.313x.313x2.75	4.72	20	171	0.66	180TC
7X	NMA5500	.375x.375x3.14	4.72	23	242	0.74	210TC
7.5X	NMA7500	.375x.375x3.14	6.30	23	252	0.74	210TC
8X	NMA91 & NMA95	.500x.500x3.74	6.3	21	520	1.32	250TC

\* For horizontal mounting

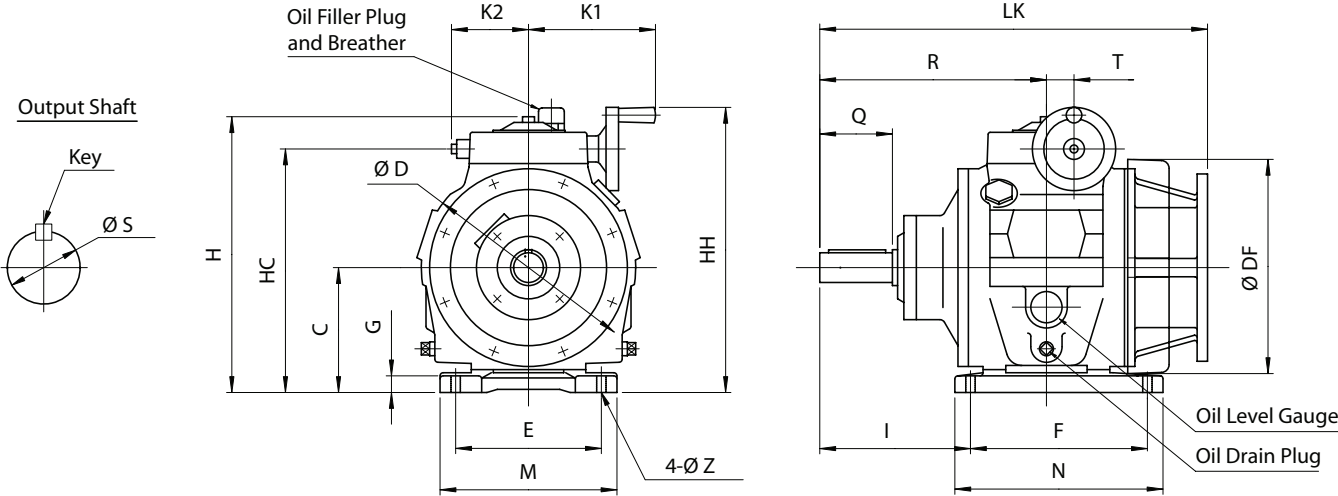
Units are shipped factory lubricated.

Contact Nidec Drive Technology for certified drawings for installation purposes

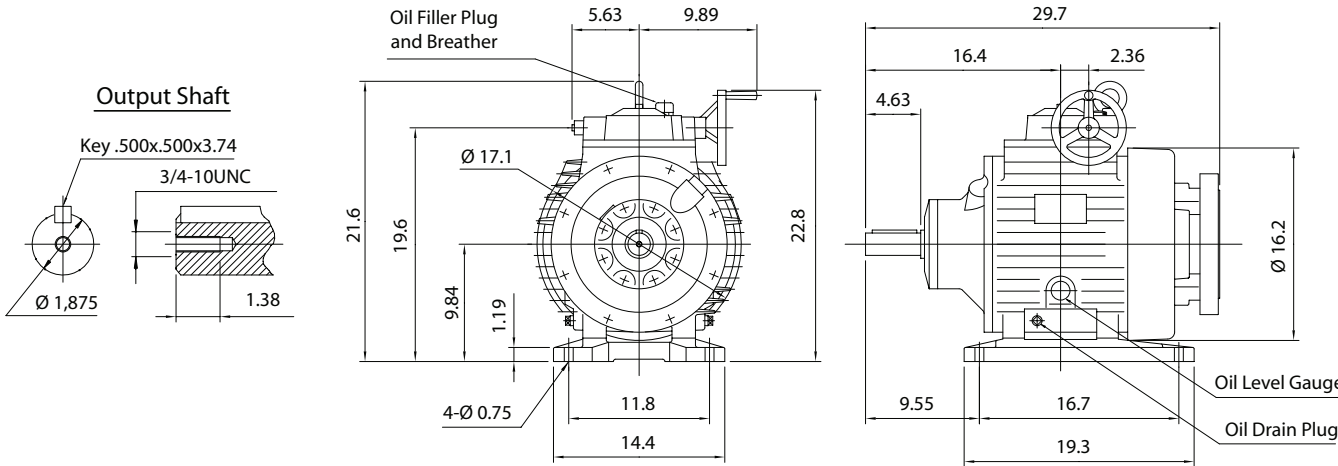


## Dimensions

### Base Mount, Input C-Face, No Reducer, Sizes 02-75 (2x-7.5x)



### Base Mount, Input C-Face, No Reducer, Sizes 91-95 (8x)



# RXC SERIES Mechanical Adjustable Speed Drive

## Dimensions

### Flange Mount, Input C-Face, No Reducer, Sizes 02-95

Size	Model Code	DF	FA	FB	FC	HL	HO	KO	K1	K2
2X	NMB0200 & NMB0400	N/A	5.88	4.50	6.50	3.35	6.3	N/A	3.63	2.17
3X	NMA0500 & NMA0700	N/A	5.88	4.50	6.50	4.06	7.21	4.93	4.80	2.92
4X	NMA1000 & NMA1500	N/A	7.25	8.50	9.00	4.49	7.64	6.38	4.80	2.92
5X	NMA2200	N/A	7.25	8.50	9.00	5.39	9.65	6.19	6.15	4.09
6X	NMA3700	N/A	7.25	8.50	9.00	6.42	11.0	7.68	6.89	4.84
7X	NMA5500	13.19	7.25	8.50	9.13	7.28	12.0	8.31	6.89	4.84
7.5X	NMA7500	14.18	7.25	8.50	9.13	7.28	12.0	8.31	9.02	4.84
8X	NMA91 & NMA95	15.15	9	10.5	11.13	9.76	14.45	11.03	9.89	5.63

Size	Model Code	LE	LG	LK	LR	LZ	Q	R	S	T
2X	NMB0200 & NMB0400	0.13	0.39	9.28	2.06	3/8-16UNC	1.88	5.15	0.625	0.71
3X	NMA0500 & NMA0700	0.13	0.47	11.56	2.06	3/8-16UNC	1.88	6.48	0.625	1.05
4X	NMA1000 & NMA1500	0.23	0.40	14.68	2.37	1/2-13UNC	2.75	8.58	1.125	1.05
5X	NMA2200	0.25	0.54	16.45	2.37	1/2-13UNC	2.75	9.25	1.125	1.22
6X	NMA3700	0.25	N/A	19.32	2.87	1/2-13UNC	3.38	11.25	1.375	1.54
7X	NMA5500	0.25	N/A	22.67	3.51	1/2-13UNC	4.00	12.3	1.625	1.54
7.5X	NMA7500	0.25	N/A	22.67	3.51	1/2-13UNC	4.00	12.3	1.625	1.54
8X	NMA91 & NMA95	0.25	N/A	29.71	4.37	1/2-13UNC	4.63	16.36	1.875	2.36

Size	Model Code	Output Key	Hand-wheel Dia.	Hand-wheel Turns	Weight w/o Motor (lbs.)	Lube Qty (gal.)*	Input C-Face
2X	NMB0200 & NMB0400	.188x.188x1.37	2.56	18	22	0.11	56C
3X	NMA0500 & NMA0700	.188x.188x1.37	3.15	18	56	0.26	56C
4X	NMA1000 & NMA1500	.250x.250x2.16	3.15	19	74	0.50	140TC
5X	NMA2200	.250x.250x2.16	4.72	23	122	0.71	180TC
6X	NMA3700	.313x.313x2.75	4.72	20	219	1.23	180TC
7X	NMA5500	.375x.375x3.14	4.72	23	296	1.43	210TC
7.5X	NMA7500	.375x.375x3.14	6.30	23	308	1.43	210TC
8X	NMA91 & NMA95	.500x.500x3.74	6.3	21	555	4.00	250TC

\* For vertical down mounting

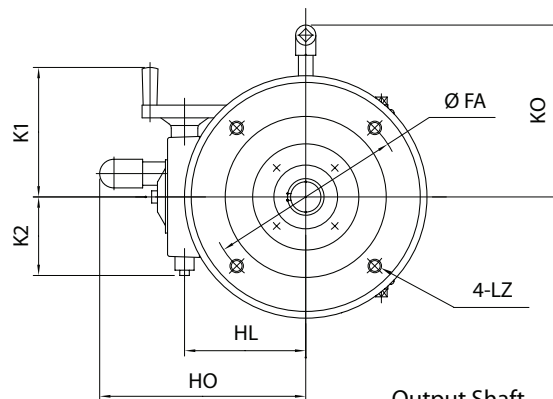
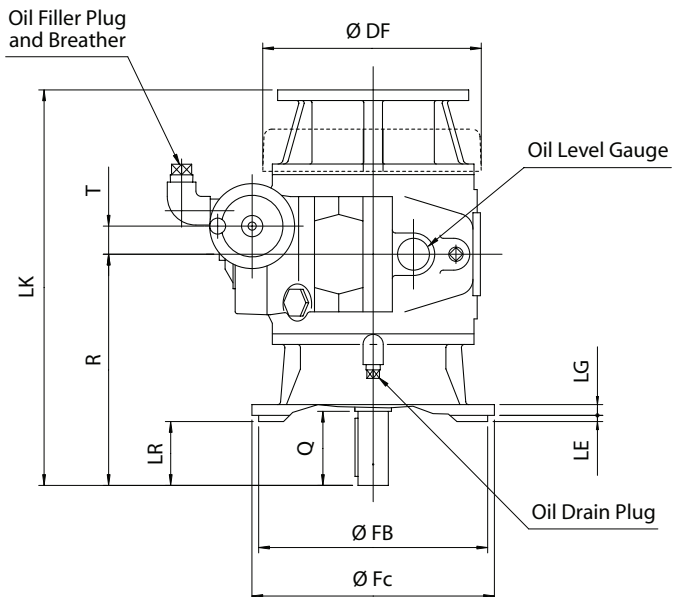
Units are shipped factory lubricated.

Unless otherwise noted, all lengths are in inches.

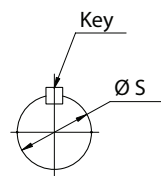
Contact NIDEC DRIVE TECHNOLOGY for certified drawings for installation purposes.

## Dimensions

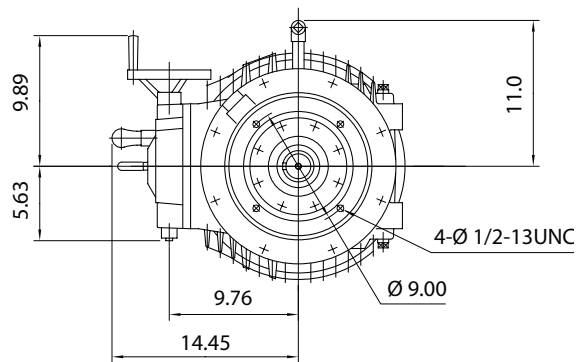
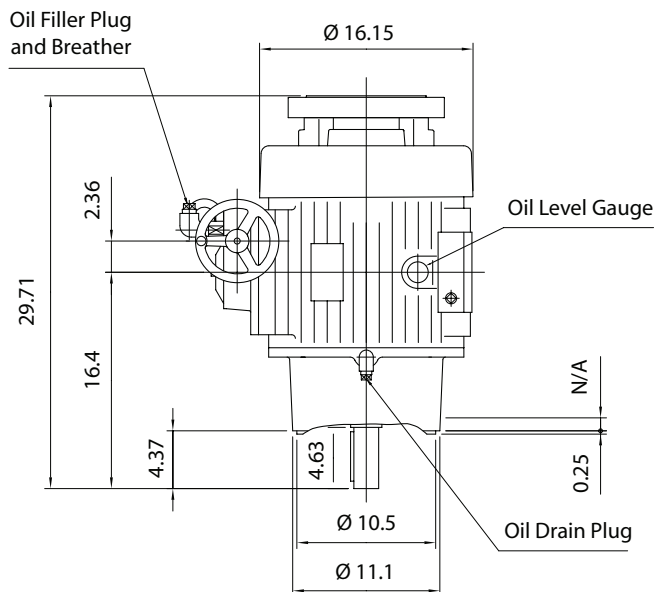
### Flange Mount, Input C-Face, No Reducer, Sizes 02-75 (2x-7.5x)



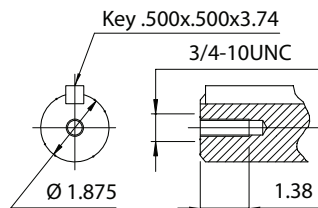
#### Output Shaft



### Flange Mount, Input C-Face, No Reducer, Sizes 91-95 (8x)



#### Output Shaft



# RXC SERIES Mechanical Adjustable Speed Drive

## Dimensions

### Base Mount, Input C-Face, Planetary Reducer, Sizes 02-95 (2X-8X)

Size	Model Code	C	D	DF	E	F	G	H	HC	HH	I
2X	NMB0283 & NMB0285	3.54	5.36	N/A	5.51	6.10	0.67	7.96	6.89	8.19	2.76
	NMB0483 & NMB0485										
3X	NMA0503 & NMA0506	4.17	6.66	N/A	7.09	7.95	0.67	9.45	8.23	9.80	3.74
	NMA0703 & NMA0706										
4X	NMA1003 & NMA1006	4.72	8.27	N/A	7.80	10.0	0.79	10.4	9.22	10.8	4.33
	NMA0503 & MNA1506										
5X	NMA2203 & NMA2206	6.06	10.0	N/A	9.45	11.6	1.19	12.8	11.5	13.8	4.72
6X	NMA3703 & NMA3706	6.89	11.8	N/A	11.81	13.8	1.26	15.2	13.3	15.7	5.31
7X	NMA5503 & NMA5506	7.72	12.8	13.2	13.0	14.2	1.46	16.9	15.0	17.4	5.91
7.5X	NMA7503 & NMA7506	7.72	14.7	14.2	13.0	14.2	1.46	16.9	15.0	18.2	5.91
8X	NMA91 & NMA95	10.24	17.1	16.1	13.4	14.2	1.77	22	20.0	23.1	5.51

Size	Model Code	K	K1	K2	LK	M	N	Q (mm)	R	S (mm)	T	Z
2X	NMB0283 & NMB0285	1.42	3.63	2.16	11.9	6.70	7.52	40	7.76	24	0.71	0.43
	NMB0483 & NMB0485											
3X	NMA0503 & NMA0506	1.58	4.80	2.92	15.0	8.67	9.53	50	9.92	24	1.05	0.43
	NMA0703 & NMA0706											
4X	NMA1003 & NMA1006	1.97	4.80	2.92	18.5	9.45	12.0	55	12.4	28	1.05	0.51
	NMA0503 & MNA1506											
5X	NMA2203 & NMA2206	2.37	6.15	4.09	21.0	11.42	14.0	60	13.8	32	1.22	0.59
6X	NMA3703 & NMA3706	3.35	6.89	4.84	23.9	13.8	17.1	70	15.8	35	1.54	0.71
7X	NMA5503 & NMA5506	3.55	6.89	4.84	27.3	15.0	17.7	80	16.9	42	1.54	0.79
7.5X	NMA7503 & NMA7506	3.55	9.02	4.84	27.3	15.0	17.7	80	16.9	42	1.54	0.79
8X	NMA9103 & NMA9503	3.74	9.89	5.63	41.3	17.3	16.5	105	27.9	71	2.36	1.10

Size	Model Code	Output Key (mm)	Hand-wheel Dia.	Hand-wheel Turns	Weight w/o Motor (lbs.)	Lubrication		Input C-Face
						Adj. Spd. (gal.)	Reducer (gal.)	
2X	NMB0283 & NMB0285	8x7x25	2.56	18	25	0.05	grease	56C
	NMB0483 & NMB0485							
3X	NMA0503 & NMA0506	8x7x35	3.15	18	58	0.13	0.10	56C
	NMA0703 & NMA0706							
4X	NMA1003 & NMA1006	8x7x40	3.15	19	101	0.21	0.13	140TC
	NMA0503 & MNA1506							
5X	NMA2203 & NMA2206	10x8x40	4.72	23	118	0.48	0.26	180TC
6X	NMA3703 & NMA3706	10x8x50	4.72	20	242	0.66	0.40	180TC
7X	NMA5503 & NMA5506	12x10x60	4.72	23	327	0.74	0.48	210TC
7.5X	NMA7503 & NMA7506	12x10x60	6.30	23	301	0.58	0.48	210TC
8X	NMA9103 & NMA9503	20x12x90	6.30	21	883	1.32	2.4	250TC

\* For horizontal mounting

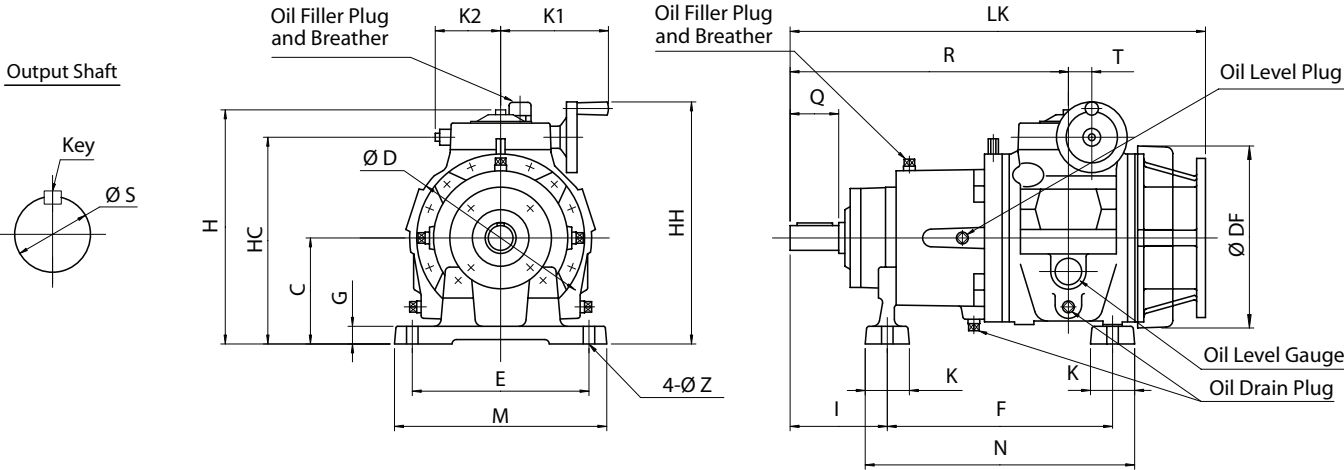
Units are shipped factory lubricated.

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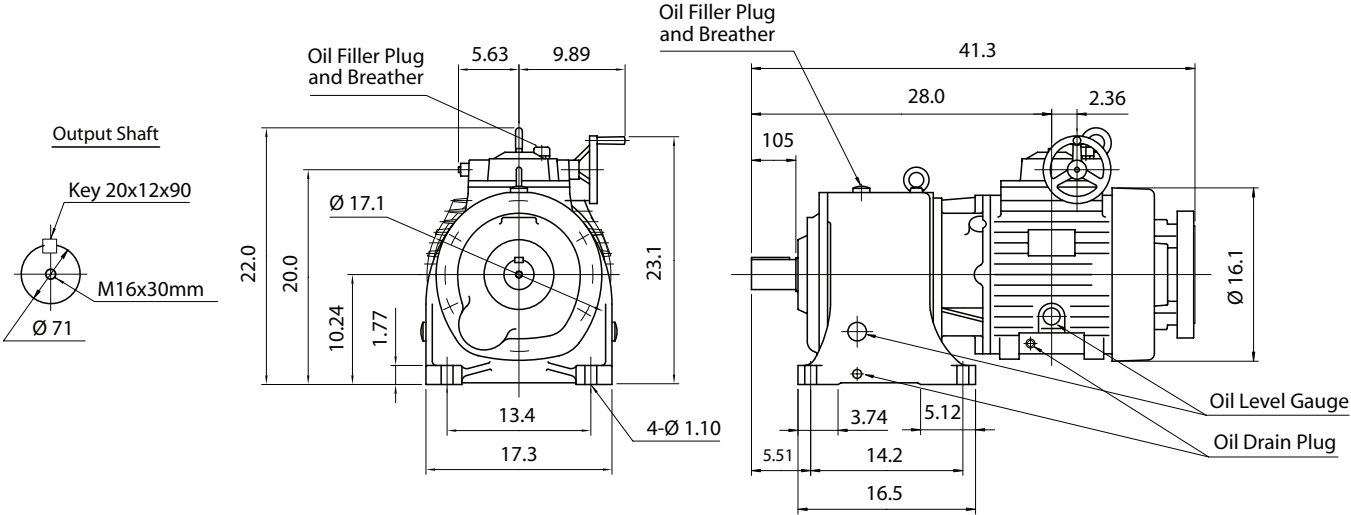
Contact NIDEC DRIVE TECHNOLOGY for certified drawings for installation purposes.

## Dimensions

### Base Mount, Input C-Face, Planetary Reducer, Sizes 02-75 (2x-7.5x)



### Base Mount, Input C-Face, Planetary Reducer, Sizes 91-95 (8x)



# RXC SERIES Mechanical Adjustable Speed Drive

## Dimensions

### Flange Mount, Input C-Face, Planetary Reducer, Sizes 02-95 (2x-8x)

Size	Model Code	DF	FA	FB	FC	HL	HO	HP	KO	K1
2X	NMB0283 & NMB0285	N/A	6.50	5.12	7.88	3.35	6.30	N/A	N/A	3.63
	NMB0483 & NMB0485									
3X	NMA0503 & NMA0506	N/A	8.47	7.09	9.85	4.06	7.21	4.73	4.97	4.80
	NMA0703 & NMA0706									
4X	NMA1003 & NMA1006	N/A	10.43	9.06	11.8	4.49	7.64	5.32	5.83	4.80
	NMA0503 & MNA1506									
5X	NMA2203 & NMA2206	N/A	11.8	9.84	13.8	5.40	9.65	6.50	6.03	6.15
6X	NMA3703 & NMA3706	N/A	13.8	11.81	15.75	6.42	11.0	7.29	7.88	6.89
7X	NMA5503 & NMA5506	13.19	13.8	11.8	15.8	7.29	12.0	8.27	8.39	6.89
7.5X	NMA7503 & NMA7506	14.18	13.8	11.8	15.8	7.29	12.0	8.27	8.39	9.02
8X	NMA9103 & NMA9503	16.14	16.54	14.57	18.51	9.77	14.4	10.24	11.03	9.89

Size	Model Code	K2	LK	LE	LG	LR	LZ	Q(mm)	R	S (mm)	T
2X	NMB0283 & NMB0285	2.16	11.89	0.16	0.56	1.58	0.47	40	7.76	24	0.71
	NMB0483 & NMB0485										
3X	NMA0503 & NMA0506	2.92	15.0	0.24	0.63	1.97	0.59	50	9.92	24	1.05
	NMA0703 & NMA0706										
4X	NMA1003 & NMA1006	2.92	18.5	0.24	0.79	2.17	0.59	55	12.4	28	1.05
	NMA0503 & MNA1506										
5X	NMA2203 & NMA2206	4.09	21.0	0.31	0.79	2.36	0.75	60	13.8	32	1.22
6X	NMA3703 & NMA3706	4.84	23.9	0.31	0.79	2.76	0.75	70	15.8	35	1.54
7X	NMA5503 & NMA5506	4.84	27.33	0.31	0.99	3.16	0.75	80	16.9	42	1.54
7.5X	NMA7503 & NMA7506	4.84	27.33	0.31	0.99	3.15	0.75	80	16.9	42	1.54
8X	NMA9103 & NMA9503	5.63	41.3	0.20	1.19	4.33	0.98	105	27.9	71	2.36

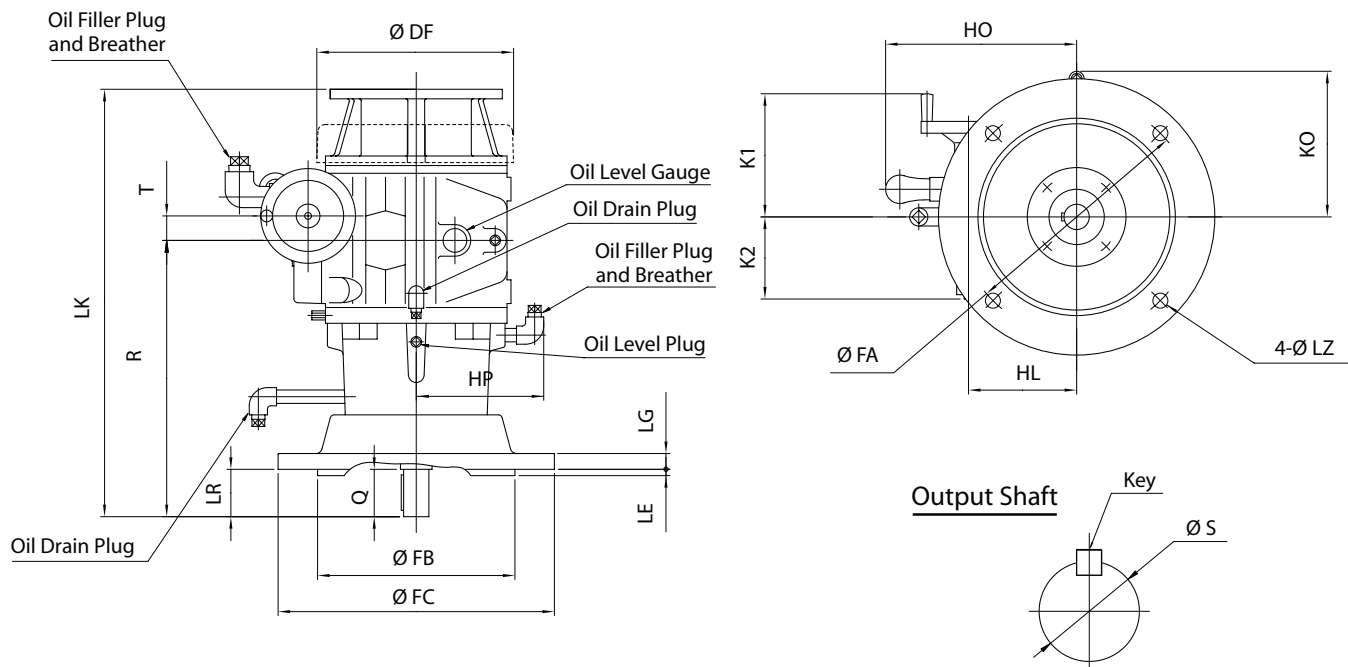
Size	Model Code	Output Key (mm)	Hand-wheel Dia.	Hand-wheel Turns	Weight w/o Motor (lbs.)	Lubrication		Input C-Face
						Adj. Spd. (gal.)	Reducer (gal.)	
2X	NMB0283 & NMB0285	8x7x25	2.56	18	24	0.11	grease	56C
	NMB0483 & NMB0485							
3X	NMA0503 & NMA0506	8x7x35	3.15	18	60	0.26	0.11	56C
	NMA0703 & NMA0706							
4X	NMA1003 & NMA1006	8x7x40	3.15	19	102	0.50	0.21	140TC
	NMA0503 & MNA1506							
5X	NMA2203 & NMA2206	10x8x40	4.72	23	115	0.72	0.34	180TC
6X	NMA3703 & NMA3706	10x8x50	4.72	20	225	1.27	0.61	180TC
7X	NMA5503 & NMA5506	12x10x60	4.72	23	283	1.43	0.71	210TC
7.5X	NMA7503 & NMA7506	12x10x60	6.30	23	257	1.19	0.71	210TC
8X	NMA9103 & NMA9503	20x12x90	6.30	21	954	1.32	2.4	250TC

\* For vertical down mounting

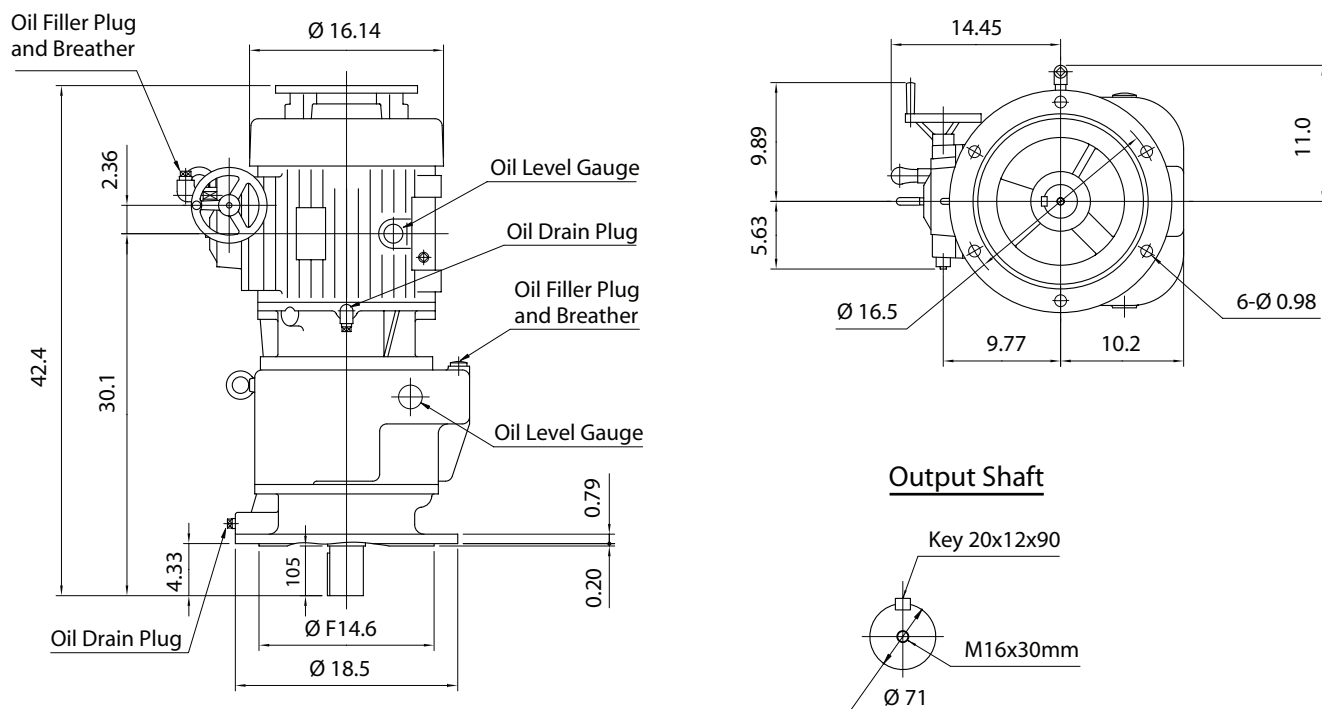
Units are shipped factory lubricated. Unless otherwise noted, all lengths are in inches. Contact Nidec Drive Technology for certified drawings for installation purposes.

## Dimensions

### Flange Mount, Input C-Face, Planetary Reducer, Sizes 02-75 (2x-7.5x)



### Flange Mount, Input C-Face, Planetary Reducer, Sizes 91-95 (8x)



# RXC SERIES Mechanical Adjustable Speed Drive

## Dimensions

### Base Mount, Input C-Face, ER Cycloidal Reducer, Sizes 02-95 (2x-8x)

Size	Model Code	C	D	DF	E	F	G	H	HC	HH	I
2X	NMB02A	3.54	5.79	N/A	5.71	3.54	0.63	7.96	6.89	8.19	2.57
	NMB02B & NMB04B	4.53	5.91	N/A	5.71	4.72	0.63	8.94	7.88	9.18	3.34
3X	NMA05B & NMA07B	4.53	5.91	N/A	5.71	4.72	0.63	9.81	8.59	10.2	3.34
	NMA05C & NMA07C	5.51	7.48	N/A	7.09	5.91	0.87	10.8	9.57	11.2	4.10
4X	NMA10C & NMA15C	5.51	7.48	N/A	7.09	5.91	0.87	11.2	10.0	11.6	4.10
	NMA10D & NMA15D	6.50	9.26	N/A	8.86	7.09	1.03	12.2	11.0	12.6	5.33
5X	NMA22D	6.50	9.26	N/A	8.86	7.09	1.03	13.2	11.9	14.3	5.33
	NMA22E	7.28	11.8	N/A	11.8	9.84	1.19	14.0	12.7	15.0	5.95
6X	NMA37D	6.50	9.26	N/A	8.86	7.09	1.03	14.8	12.9	15.3	5.33
	NMA37E	7.28	11.8	N/A	11.81	9.84	1.19	15.6	13.7	16.1	5.95
7X	NMA55E	7.28	11.8	13.2	11.81	9.84	1.19	16.4	14.6	16.9	5.95
	NMA55F	8.27	14.2	13.2	13.78	11.6	1.38	17.4	15.6	17.9	7.67
7.5X	NMA75E	7.28	11.8	14.2	11.8	9.84	1.19	16.4	14.6	17.6	5.95
	NMA75F	8.27	14.2	14.2	13.8	11.6	1.38	17.4	15.6	18.6	7.67

Size	Model Code	K1	K2	LK	M	N	Q	R	S	T	Z
2X	NMB02A	3.63	2.16	13.2	6.89	4.73	1.19	9.07	0.875	0.71	0.48
	NMB02B & NMB04B	3.63	2.16	15.3	6.89	5.91	1.96	11.1	1.375	0.71	0.48
3X	NMA05B & NMA07B	4.80	2.92	17.2	6.89	5.91	1.96	12.1	1.375	1.05	0.48
	NMA05C & NMA07C	4.80	2.92	19.0	8.67	7.48	2.52	13.9	1.750	1.05	0.59
4X	NMA10C & NMA15C	4.80	2.92	20.6	8.67	7.48	2.52	14.5	1.750	1.05	0.59
	NMA10D & NMA15D	4.80	2.92	21.8	10.8	9.06	3.75	15.7	2.500	1.05	0.75
5X	NMA22D	6.15	4.09	24.3	10.83	9.06	3.75	17.1	2.500	1.22	0.75
	NMA22E	6.15	4.09	26.7	14.18	11.8	4.38	19.5	2.875	1.22	0.87
6X	NMA37D	6.89	4.84	26.2	10.8	9.06	3.75	18.1	2.500	1.54	0.75
	NMA37E	6.89	4.84	28.5	14.2	11.8	4.38	20.4	2.875	1.54	0.87
7X	NMA55E	6.89	4.84	32.0	14.2	11.8	4.38	21.6	2.875	1.54	0.87
	NMA55F	6.89	4.84	34.2	16.7	14.4	5.50	23.8	3.625	1.54	0.99
7.5X	NMA75E	9.02	4.84	32.0	14.2	11.8	4.38	21.6	2.875	1.54	0.87
	NMA75F	9.02	4.84	34.2	16.7	14.4	5.50	23.8	3.625	1.54	0.99

Units are shipped factory lubricated.

Unless otherwise noted, all lengths are in inches.

Contact Nidec Drive Technology for certified drawings for installation purposes.



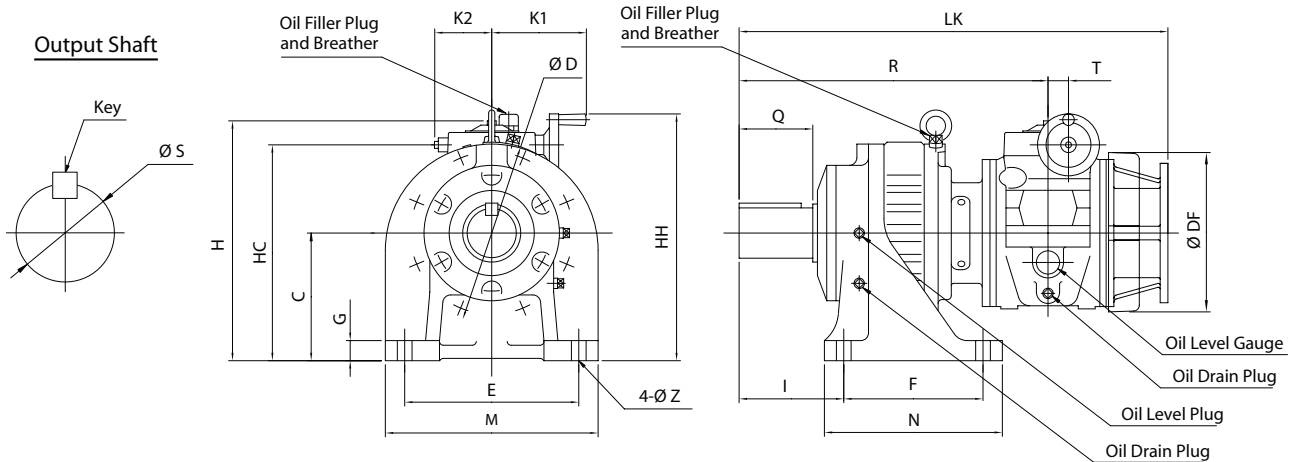
## Dimensions

### Base Mount, Input C-Face, ER Cycloidal Reducer, Sizes 02-95 (2x-3x)

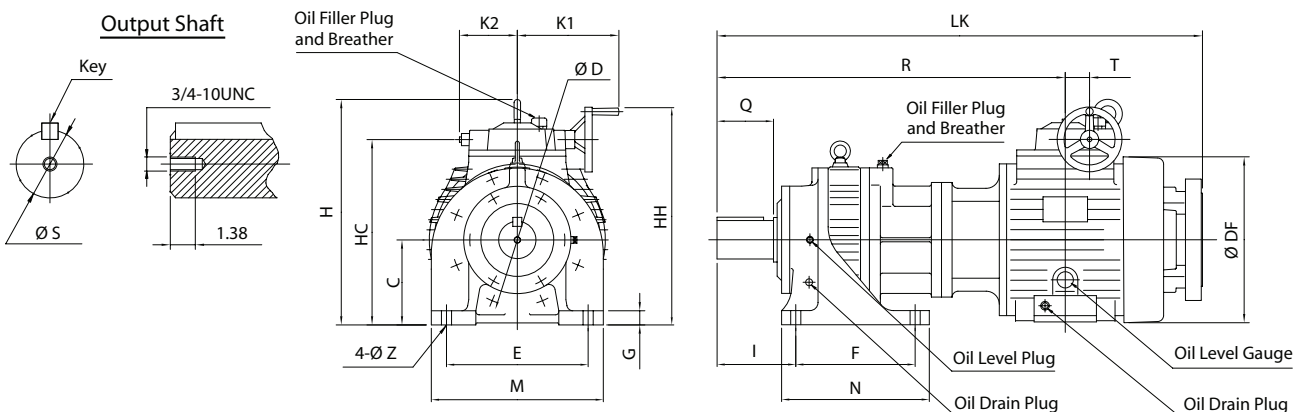
Size	Model Code	Output Key	Hand-wheel Dia.	Hand-wheel Turns	Weight w/o Motor (lbs.)	Lubrication		Input C-Face
						Adj.Spd. (gal.)	Reducer (gal.)	
2X	NMB02A	.188x.188x0.98	2.56	18	35	0.05	grease	56C
	NMB02B & NMB04B	.313x.313x1.77	2.56	18	55	0.05	grease	56C
3X	NMA05B & NMA07B	.313x.313x1.77	3.15	18	71	0.13	grease	56C
	NMA05C & NMA07C	.375x.375x2.16	3.15	18	102	0.13	grease	56C
4X	NMA10C & NMA15C	.375x.375x2.16	3.15	19	142	0.21	grease	140TC
	NMA10D & NMA15D	.625x.625x2.95	3.15	19	193	0.21	grease	140TC
5X	NMA22D	.625x.625x2.95	4.72	23	221	0.48	0.25	180TC
	NMA22E	.750x.750x3.74	4.72	23	325	0.48	0.48	180TC
6X	NMA37D	.625x.625x2.95	4.72	20	317	0.66	0.25	180TC
	NMA37E	.750x.750x3.74	4.72	20	429	0.66	0.48	180TC
7X	NMA55E	.750x.750x3.74	4.72	23	547	0.74	0.48	210TC
	NMA55F	.875x.875x4.53	4.72	23	660	0.74	0.85	210TC
7.5X	NMA75E	.750x.750x3.74	6.30	23	521	0.58	0.48	210TC
	NMA75F	.875x.875x4.53	6.30	23	634	0.58	0.85	210TC

\* For horizontal mounting

### Base Mount, Input C-Face, ER Cycloidal Reducer, Sizes 02-75 (2x-7.5x)



### Base Mount, Input C-Face, ER Cycloidal Reducer, Sizes 91-95 (8x)



# RXC SERIES Mechanical Adjustable Speed Drive

## Dimensions

### Flange Mount, Input C-Face, ER Cycloidal Reducer, Sizes 02-95 (2x-8x)

Size	Model Code	DF	FA	FB	FC	HL	HO	KO	K1	K2	LE
2X	NMB02A	N/A	5.12	4.33	6.30	3.35	6.30	N/A	3.63	2.16	0.16
	NMB02B & NMB04B	N/A	6.50	5.12	7.88	3.35	6.30	N/A	3.63	2.16	0.16
3X	NMA05B & NMA07B	N/A	6.50	5.12	7.88	4.06	7.21	4.96	4.80	2.92	0.16
	NMA05C & NMA07C	N/A	8.47	7.09	9.85	4.06	7.21	4.96	4.80	2.92	0.16
4X	NMA10C & NMA15C	N/A	8.47	7.09	9.85	4.49	7.64	5.83	4.80	2.92	0.16
	NMA10D & NMA15D	N/A	10.4	9.06	11.82	4.49	7.64	5.83	4.80	2.92	0.20
5X	NMA22D	N/A	10.4	9.06	11.8	5.40	9.65	6.63	6.15	4.09	0.20
	NMA22E	N/A	13.8	11.8	15.8	5.40	9.65	6.63	6.15	4.09	0.32
6X	NMA37D	N/A	10.4	9.06	11.82	6.42	11.0	7.87	6.89	4.84	0.20
	NMA37E	N/A	13.8	11.8	15.75	6.42	11.0	7.87	6.89	4.84	0.32
7X	NMA55E	13.2	13.8	11.8	15.75	7.29	12.0	8.39	6.89	4.84	0.32
	NMA55F	13.2	15.8	13.8	17.72	7.29	12.0	8.39	6.89	4.84	0.32
7.5X	NMA75E	14.2	13.8	11.8	15.8	7.29	12.0	8.39	9.02	4.84	0.32
	NMA75F	14.2	15.8	13.8	17.7	7.29	12.0	8.39	9.02	4.84	0.32

Size	Model Code	LG	LK	LR	n-LZ	Q	R	S	T	Output Key
2X	NMB02A	0.56	13.2	1.19	4-0.48	1.19	9.07	0.875	0.71	.188x.188x0.98
	NMB02B & NMB04B	0.56	15.3	2.00	4-0.48	1.96	11.1	1.375	0.71	.313x.313x1.77
3X	NMA05B & NMA07B	0.56	17.2	2.00	4-0.48	1.96	12.1	1.375	1.05	.313x.313x1.77
	NMA05C & NMA07C	0.71	19.0	2.50	4-0.59	2.52	13.9	1.750	1.05	.375x.375x2.16
4X	NMA10C & NMA15C	0.71	20.6	2.50	4-0.59	2.52	14.5	1.750	1.05	.375x.375x2.16
	NMA10D & NMA15D	0.87	21.8	3.75	8-0.59	3.75	15.7	2.500	1.05	.625x.625x2.95
5X	NMA22D	0.87	24.3	3.75	8-0.59	3.75	17.1	2.500	1.22	.625x.625x2.95
	NMA22E	0.99	26.7	4.38	8-0.75	4.38	19.5	2.875	1.22	.750x.750x3.74
6X	NMA37D	0.87	26.2	3.75	8-0.59	3.75	18.1	2.500	1.54	.625x.625x2.95
	NMA37E	0.99	28.5	4.38	8-0.75	4.38	20.4	2.875	1.54	.750x.750x3.74
7X	NMA55E	0.99	32.0	4.38	8-0.75	4.38	21.6	2.875	1.54	.750x.750x3.74
	NMA55F	0.99	34.2	5.50	8-0.75	5.50	23.8	3.625	1.54	.875x.875x4.53
7.5X	NMA75E	0.99	32.0	4.38	8-0.75	4.38	21.6	2.875	1.54	.750x.750x3.74
	NMA75F	0.99	34.2	5.50	8-0.75	5.50	23.8	3.625	1.54	.875x.875x4.53

Size	Model Code	Hand-wheel Dia.	Hand-wheel Turns	Weight w/o Motor (lbs.)	Lubrication		Input C-Face
					Adj. Spd. (gal.)	Reducer (gal.)	
2X	NMB02A	2.56	18	28	0.11	grease	56C
	NMB02B & NMB04B	2.56	18	44	0.11	grease	56C
3X	NMA05B & NMA07B	3.15	18	60	0.26	grease	56C
	NMA05C & NMA07C	3.15	18	89	0.26	grease	56C
4X	NMA10C & NMA15C	3.15	19	129	0.50	grease	140TC
	NMA10D & NMA15D	3.15	19	173	0.50	0.40	140TC
5X	NMA22D	4.72	23	197	0.72	0.40	180TC
	NMA22E	4.72	23	300	0.72	0.63	180TC

## Dimensions

### Flange Mount, Input C-Face, ER Cycloidal Reducer, Sizes 02-95 (2x-8x)

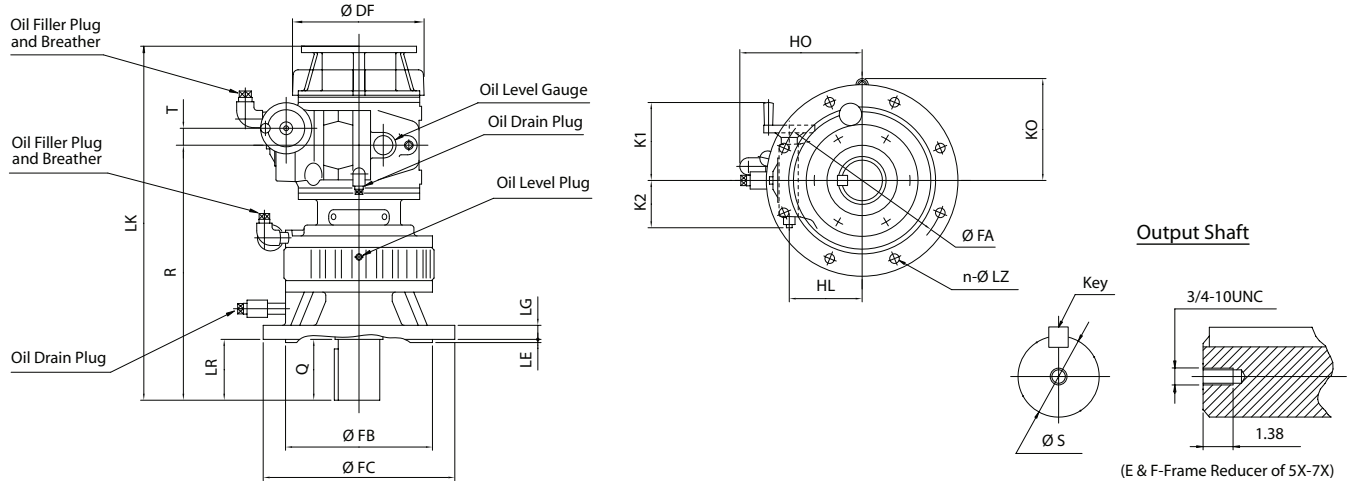
Size	Model Code	Hand-wheel Dia.	Hand-wheel Turns	Weight w/o Motor (lbs.)	Lubrication		Input C-Face
					Adj. Spd. (gal.)	Reducer (gal.)	
6X	NMA37D	4.72	20	255	1.27	0.40	180TC
	NMA37E	4.72	20	357	1.27	0.63	180TC
7X	NMA55E	4.72	23	477	1.43	0.63	210TC
	NMA55F	4.72	23	589	1.43	1.14	210TC
7.5X	NMA75E	6.30	23	451	1.43	0.69	210TC
	NMA75F	6.30	23	563	1.43	1.14	210TC

Units are shipped factory lubricated.

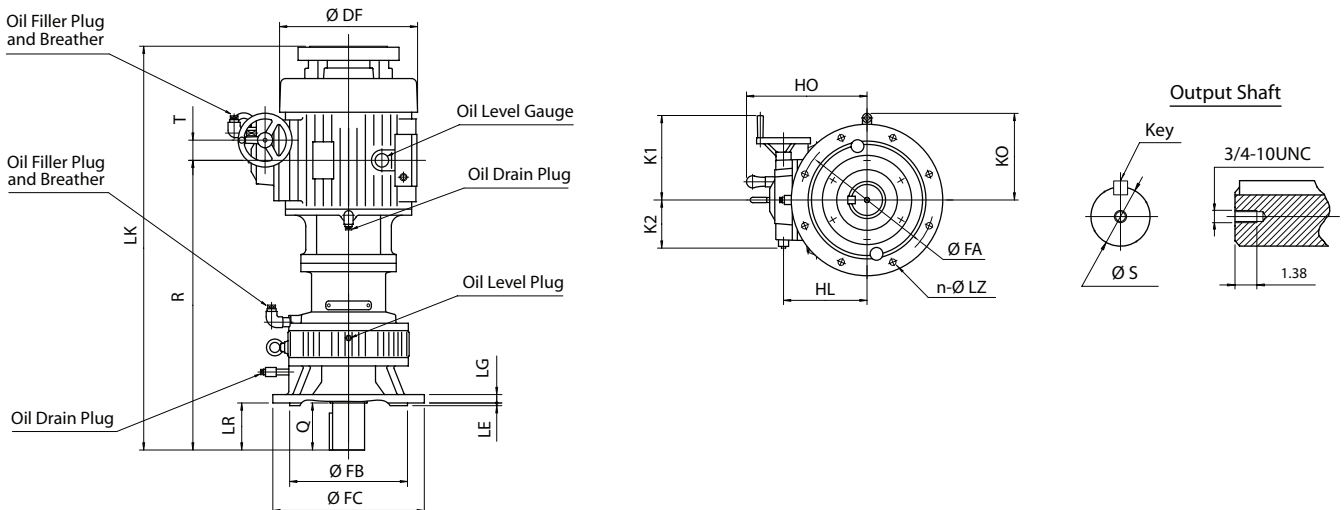
Unless otherwise noted, all lengths are in inches.

Contact Nidec Drive Technology for certified drawings for installation purposes

### Flange Mount, Input C-Face, ER Cycloidal Reducer, Sizes 02-75 (2x-7.5x)



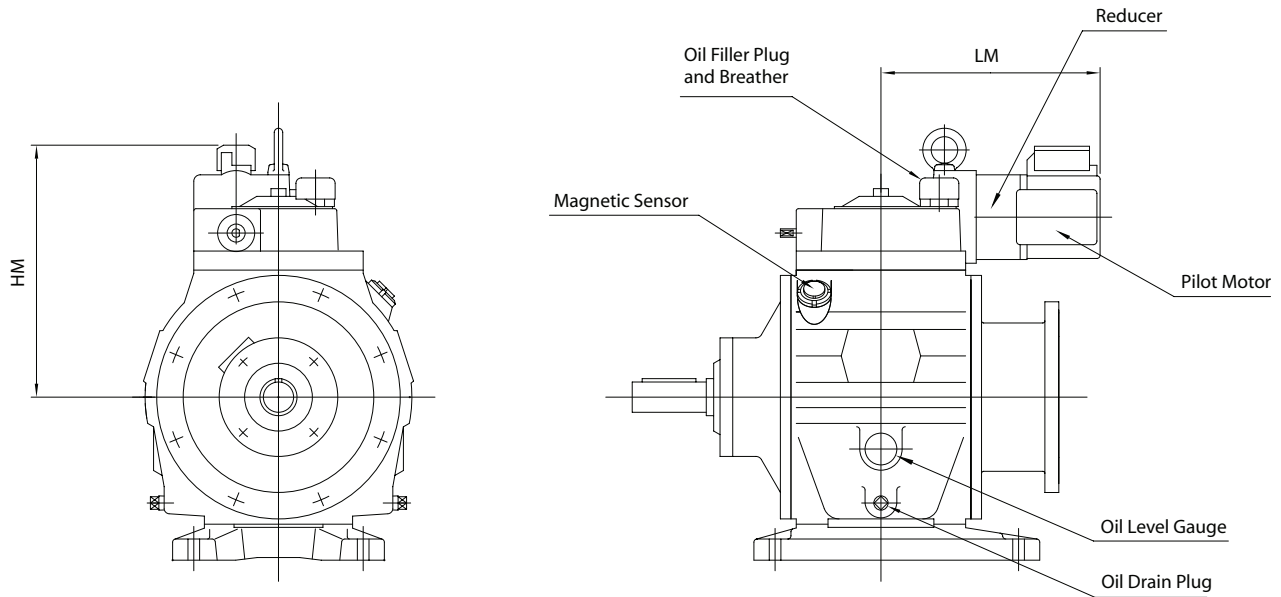
### Flange Mount, Input C-Face, ER Cycloidal Reducer, Sizes 91-95 (8x)



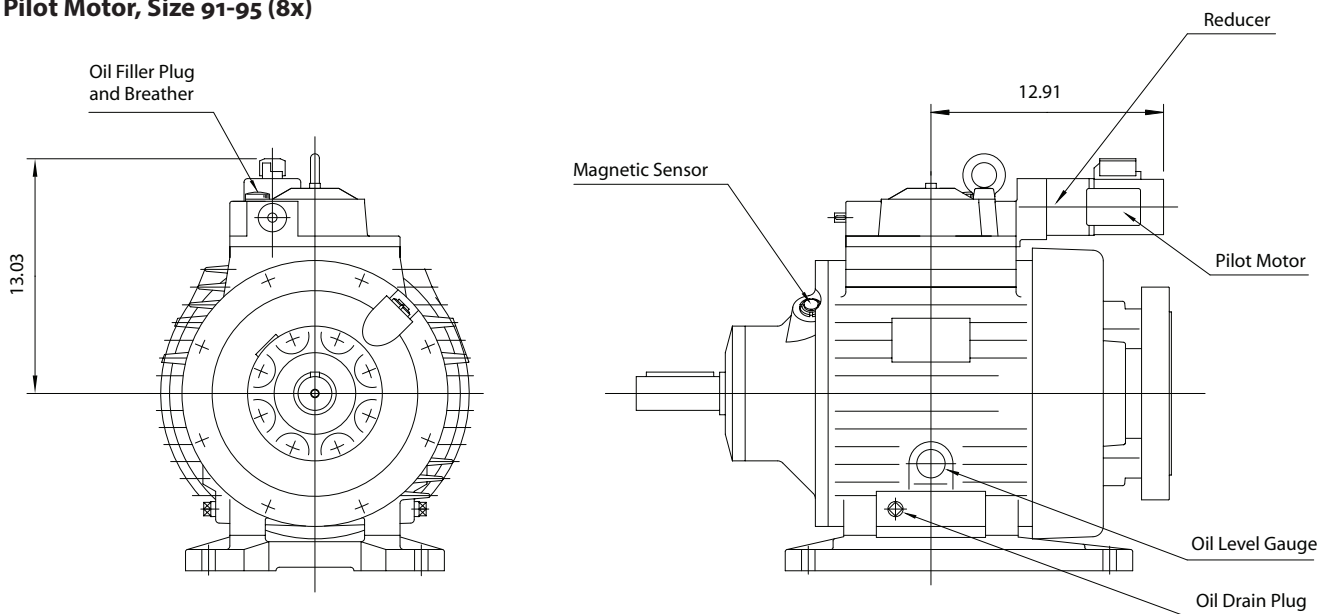
# RXC SERIES Mechanical Adjustable Speed Drive

## Dimensions

### With Pilot Motor, Size 02-75 (2x-7.5x)



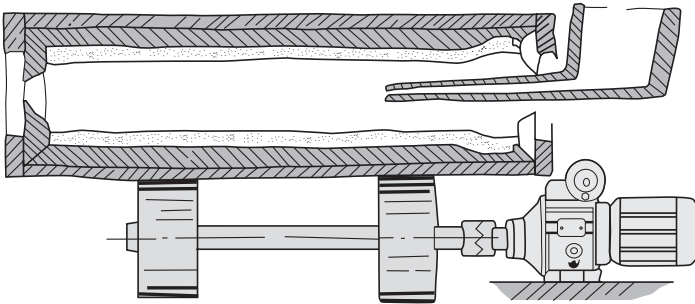
### With Pilot Motor, Size 91-95 (8x)



### With Pilot Motor, Size 02-95 (2x-7.5x)

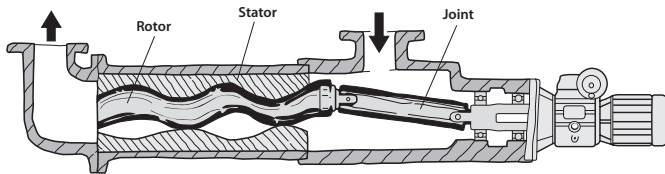
Size	Model Code	HM	LM
2X	NMC02 & NMC04	6.90	7.44
3X	NMA05 & NMA07	7.37	7.17
4X	NMA10 & NMA15	7.80	7.17
5X	NMA22	9.37	8.15
6X	NMA37	10.24	8.94
7X	NMA55	11.10	10.83
7.5X	NMA75	11.10	10.83
8X	NMA91 & NMA95	9.45	12.99

## Applications



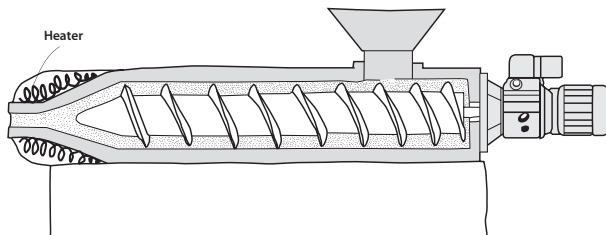
### Centrifugal Casting Machine

In the centrifugal casting process, molten metal is poured into a spinning die. The die can be spinning horizontally or vertically. This process puts a heavy load on the gear train, well handled by the RXC.



### Positive Displacement Pump

A perfect application. The RXC outperforms in high viscosity environments. The internal cam disc automatically compensates for clogs and jams by applying more torque. A well-known problem solver in the oilfield industry.

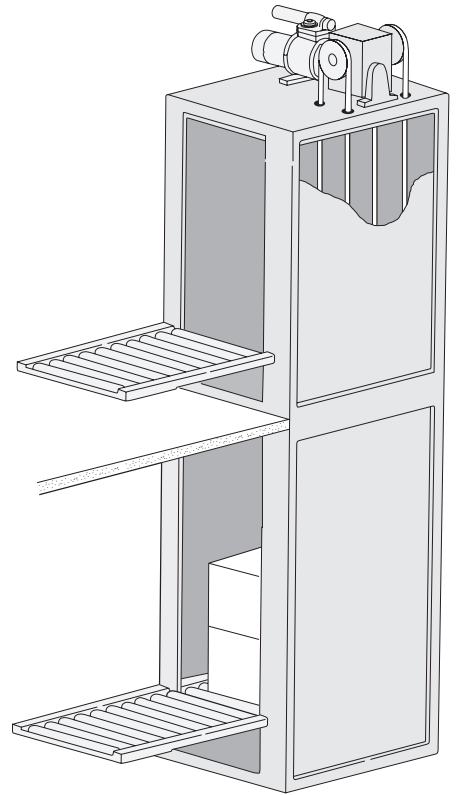


### Extruder

The RXC has a robust bearing system that is optimized for thrust loads. Due to its long service life and little need for maintenance, it's an attractive solution for extruder manufactures

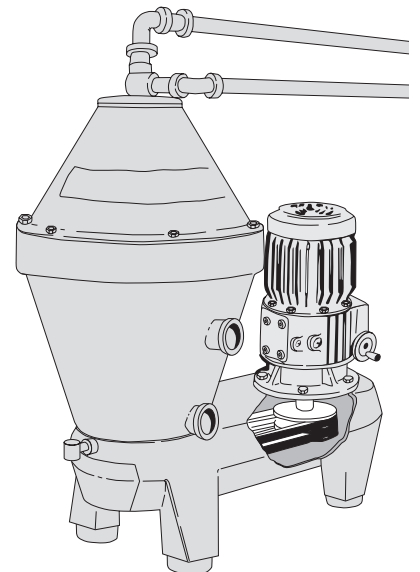
### Ingredient Mixer

Mixing lumpy solutions, wet or dry, from rocks to powders to chemicals, is easily handled by the RXC. The drive is inherently non-sparking and commonly used in explosive areas, when driven by an XP motor.



### Material Handling Elevator

Simple and foolproof. No issues with lightning storms or poor signal grounding. The RXC is a workhouse regardless of the external environment.



# Customer Service and Support

## Distinction in Service and Support

Nidec Drive Technology has invested heavily in the past few years in building a global customer service and application support network that will meet the evolving needs of our customers. By leveraging our global infrastructure, our OEM customers maintain their competitiveness and profitability at home while able to expand into emerging markets abroad without any drop-off of service and support.

Nidec DTC pledges that we will continue to expand our service and support network footprint globally, and continuously strive for perfection as a dependable partner to our customers. In this section you will learn about our service and support capabilities that we will leverage in order to provide you peace of mind.

## Online and Phone Support

**Resolve your technical issues quickly and accurately, without disrupting your business.** With the Nidec DTC OEM Partner Service Program, your company and your customers have immediate access to our global network of support centers and resources. Whether you need help designing, installing, and maintaining equipment or diagnosing an operating issue, Nidec DTC will deliver the tools and information that you need in order to insure that your equipment is running to perfection.

Contact your local sales office for immediate support either over the phone or in the field. A list of locations can be found on the back cover of this catalog. All OEM accounts in North America have a dedicated Technical Support Engineer, knowledgeable about your business, on-standby ready to support you and your customers. If you do not know who to contact, please call our 1-800 number in order to get properly directed to the right person for help.

For online support, please visit our website in order to download any drawings, instruction manuals, or technical performance specifications that you require. All catalogs and brochures will also be easily downloadable on the website. If you prefer to inquire about an issue or for more information, please do not hesitate to submit your request online or start a dialogue with our Info address.

## Training Services

**Investing our time in you, so together we build better, more competitive product for your customer.** As the industrial world becomes increasingly competitive, new technologies are introduced every year requiring manufacturers to constantly rationalize and update existing designs. As a result, successful manufacturers realize the absolute need for product training.

Nidec DTC has a network of engineers that are factory trained and authorized to provide your workforce solid training on our products and basic power transmission concepts. The main objective of our standard program and materials is to better empower your workforce to size and select gear reducers and motors for any motion control applications. We provide this service at no cost to our customers, because we see the value in building a more knowledgeable customer and helping them more quickly react to equipment design revisions when needed.

Some other gear reducer manufacturers are not as forthcoming with sharing information with their customers, an attempt to hide their higher manufacturing costs or to use unreleased performance data as a "product differentiator". Nidec DTC views their customers as a long-term partnership, and we train and share information with our customers freely based on that vision.

Training classes can be conducted online, at any of our sales branches or offices, or at key distributor branches when requested. Nidec DTC can also bring the training session to your facility in order to make better use of your time and costs. A thorough hands-on training seminar can be provided at our Itasca, IL build facility, where customers can get the opportunity to completely assemble and test one of our Able units.

The Nidec DTC training program options provide support for any budget. Our training programs improve your employees' skill and knowledge competencies in the areas of power transmission and motion control while addressing any location, time, travel and productivity constraints. Contact your local sales office today in order to get a power transmission refresher on your calendar.



## Nidec Drive Technology Hotline:

Toll-free: (800) 842-1479  
Email: [info@nidec-dtc.com](mailto:info@nidec-dtc.com)

- 1. STANDARD WARRANTY.** With the exception of shaft seals, which is a normal wear item, Seller warrants that the products manufactured by the Seller to be free from defects in materials and workmanship under normal use and proper maintenance for:
- RXC sizes 02 – 90 (excluding electrical products) ..... 2-years**
  - RXC sizes 91 – 95 (excluding electrical products) ..... 1-year**
- a. If within such period any product shall be proved to the Seller's reasonable satisfaction to be defective, such product shall be repaired or replaced at our option. The Seller's obligation and Buyer's exclusive remedy will be limited to such repair or replacement and shall be conditioned upon the Seller receiving written notice of any alleged defect no later than thirty (30) days after its discovery within the warranty period.
- b. Shipping terms for any repaired or replaced product will be FOB shipping point unless negotiated otherwise. If necessary, Seller reserves the right to inspect the product claimed to be defective at Buyer's location or place of installation. Travel time and expenses for any Seller service personnel provided to Buyer's premises to affect such repair or replacement will be at the Buyer's expense. Seller reserves the right to satisfy our warranty obligation in full by reimbursing the Buyer for all payments made to Seller and Buyer shall thereupon return the product to Seller.
- c. These warranties shall not be effective if the product has been subject to overload, misuse, negligence, or accident, or if the product has been repaired or altered outside of Seller's factory or authorized control in any respect which, in our judgment, adversely affects its condition or operation. Buyer shall establish, to our satisfaction, that the product has at all times, been properly assembled, installed, serviced, maintained, tested, operated and used in accordance with the current maintenance and operating instructions of Seller and has not been altered or modified in any manner without our prior written consent.
- d. The Seller's warranty obligation shall not be effective for components or products hereunder where the product 1) is consumed by normal wear and tear, 2) is consumed by an application that was above the rated capacity, and 3) has a normal life that is fundamentally shorter in the length of time than the standard warranty as outlined, hereunder.
- e. No extended warranty will be offered on wear items unless otherwise agreed to in writing by Nidec Drive Technology management at the time of the sale.
- f. Descriptions or representations of the products provided by the Seller's employees, sales representatives, and distributors, regardless written or verbal, should not be construed as an expressed or implied warranty that would supersede any element of this standard warranty. Expressed or implied warranties are acceptable but only on a case-by-case basis as determined necessary by the Seller. A separate expressed or implied warranty must be provided in writing and confirmed by Nidec Drive Technology management in order to be valid at the time of sale.
- g. THE STANDARD WARRANTY AS DESCRIBED HEREIN SHALL BE IN LIEU OF ALL OTHER WARRANTIES EXPRESSED OR IMPLIED RELATED TO THE SELLER'S PRODUCTS, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS, AND SHALL BE IN LIEU OF ANY OBLIGATIONS OR LIABILITY ON THE SELLER'S BEHALF.

# Standard Terms and Conditions

## STANDARD TERMS AND CONDITIONS

- 1. SHIPPING AND PAYMENT TERMS.** Unless otherwise specified, shipping terms are FOB shipping point, and payment terms are net 30 days. All payments are to be made in United States funds.
- 2. TAXES AND SECURITY INTEREST.** Unless otherwise specified, the prices stated do not include any taxes which may now or hereafter be applicable to the products or performance of any services by Seller. Buyer agrees to pay or reimburse Seller for any such required taxes and all connected penalties and interests, or in lieu thereof, Buyer shall provide Seller with tax exemption documents acceptable to the taxing authorities involved. Buyer, by acceptance of the goods ordered, represents and warrants that Buyer is solvent and able to pay for the goods in accordance with the terms of sale. As security for payment of the purchase price for the products and all other amounts due from the Buyer under these Terms, Buyer hereby grants Seller a security interest in the products and agrees to execute and permit Seller to file and record all documents which may be requested by Seller in order to create, perfect, evidence and establish the foregoing security interest. If Buyer fails to pay any amount when due, or, prior to payment of all amounts due, removes all or any part of the products from Buyer's premises, we shall exercise any or all of the rights and remedies given to secured parties under the UCC of the State of Illinois, and under similar laws of any other state, if applicable.
- 3. RETURN GOODS.** No product will be accepted for return unless authorized with appropriate returned goods number assigned. In all cases, freight charges must be prepaid. Buyer will be responsible for any damages incurred in transit to goods being returned. Title shall pass to Seller upon Seller's acceptance of return goods.
- 4. CANCELLATION.** Terms, once accepted and approved by Seller, shall not be canceled or altered by Buyer, and Buyer shall not otherwise cause the work or shipment to be delayed, except with the consent of and upon the terms and conditions approved by Seller in writing. Orders canceled or suspended with our consent are subject to cancellation and/ or other charges as determined by Seller.
- 5. DELAY IN DELIVERIES.** In no event shall Seller be liable for nondelivery or delays in delivery of products, or in the performance of any other obligations, arising directly or indirectly from acts of God, acts (including delay or failure to act) of any governmental authority (de jure or de facto), war (declared or undeclared), riot, fires, floods, weather, labor disputes, sabotage, epidemics, factory shutdowns or alterations, embargoes, delays, shortages or inability to procure transportation, labor, manufacturing facilities or materials, failure to obtain timely instructions or information from Buyer, or inability due to causes of any other kind beyond our control. The foregoing provisions shall apply even though such cause may occur after performance of our obligations has been delayed for other causes.
- 6. INDEMNIFICATION.** Buyer shall notify Seller promptly in writing and in all events within ten (10) days after its occurrence, of any accident or malfunction involving the products which results in injury to or death of any persons, property damage or economic loss of any kind, and Buyer shall cooperate fully with Seller in investigating and determining the cause of any such accident or malfunction. Buyer further agrees to indemnify and hold Seller harmless from and against all claims and damages imposed upon Seller or incurred arising, directly or indirectly, from Buyer's failure to perform or satisfy any of the Terms described herein.
- 7. GENERAL PROVISIONS.** These Terms shall be governed, construed and enforced in accordance with the laws of the State of Illinois, and shall be binding upon and inure to the benefit of any successors, assigns, and legal Distributors of Seller and Buyer. The Terms are not assignable without Seller's prior written approval. A judicial or administrative declaration in any jurisdiction of the invalidity of any one or more of the provisions of the Terms in any jurisdiction, nor shall such declaration have any effect on the validity of interpretation of the Terms outside that jurisdiction.



8. **MINIMUM ORDER CHARGE.** The minimum charge on an order will be \$60.00.
9. **BOXING ORDER CHARGE.** No charge is made for standard boxing or crating required by transportation companies for domestic shipments. Cost of special boxing, export boxing, cartage to steamer or transfer expenses will be added to the invoice unless charges are shown to be included in the prices.

Any and all Terms are subject to change prior to Buyer's acceptance of these Terms.

## PROPERTY AND PATENT RIGHTS

1. Seller retains for itself any and all property rights, including but not limited to all patent, copyright, and trade secret rights, to any software materials and to all designs, engineering details, documentation, and other data pertaining to any product designed in connection herewith and to all right of discovery, invention or patent rights arising out of the work done in connection herewith. Buyer expressly agrees that it will not assert any property rights herein, except the right for itself and subsequent owners to use the product.
2. Buyer acknowledges that any software materials constitute valuable trade secrets of Seller and are unpublished works on which Seller holds the sole and exclusive copyright. Buyer agrees to maintain and protect the confidentiality of these trade secrets and agrees not to disclose them or use them for any purpose not contemplated by this Agreement. Buyer agrees to formulate and adopt appropriate safeguards in light of its own operating activities, to insure protection of the confidentiality of these trade secrets. Buyer shall immediately notify Seller of any information which comes to its attention which indicates that there has been any loss of confidentiality of Seller trade secret information.

## SUBMISSION AND ACCEPTANCE OF ORDERS

1. All orders and contracts are subject to acceptance or rejection by an officer of Seller or any individual authorized by Seller in writing, at the main offices of Seller, which approval or rejection shall in all cases be in writing to the Buyer, and no order or contract shall be binding until so accepted. Seller reserves the right to refuse any business originating in the Territory of the Buyer, for any reason which in the considered judgment of Seller is sufficient grounds for refusal.
2. On orders and contracts of a deferred-payment nature, all such payment and credit extensions are subject to final review and approval by Seller. Seller may accept such orders or contracts, withhold shipment after initial acceptance if for any reason the Buyer's credit has become impaired.

## SHIPMENTS AND SHIPPING INFORMATION

1. All shipments, from whatever source, shall be contingent upon prior approval of the order or contract by Seller, and after such prior approval, upon the effect of strikes, accidents, embargoes, priorities, or any cause natural or otherwise, beyond the control of this Seller. Seller, in effect, assumes no liability hereunder for its failure to make shipment on any order or contract.
2. All Products are prepared by Seller for North American land shipment only under this Agreement. Any special preparations, for water shipment or foreign trade outside of the North Americas, must be arranged for as a special consideration.











# Locations and Contact Information

## Americas



### **NIDEC DRIVE TECHNOLOGY AMERICA CORPORATION**

175 Wall Street, Glendale Heights, IL 60139 USA  
Sales, Customer Service, Engineering & Product Support  
P: (800) 842-1479 | P: (630) 924-7138 | F: (630) 924-7382  
info@nidec-dtc.com | www.nidec-dtc.com



### **NIDEC DRIVE TECHNOLOGY DE MEXICO**

Parque Industrial NAVEX PARK.  
Callejón de la Evangelización  
#106. Col. Santa María  
Magdalena. Querétaro, Qro.  
76137. México



### **NIDEC DRIVE TECHNOLOGY BRASIL**

Av. Paulista, 2073 - Ed. Horsa II,  
17º andar, Conj. 1702  
São Paulo - SP, Brasil CEP  
01311-000

## Europe

### **NIDEC GRAESSNER GMBH CO. & KG**

Kuchenaecker 11  
72135 Dettenhausen  
Germany

## Asia-Pacific



### **NIDEC DRIVE TECHNOLOGY CORPORATION**

Corporate Headquarters  
1 Terada, Kohtari  
Nagaokakyo-City  
Kyoto Japan 617-0833



### **NIDEC DRIVE TECHNOLOGY (ZHEJIANG) CORPORATION**

1858 Ping Cheng Street  
Pinghu Economic  
Development Zone  
Zhejiang, China, 314200



### **NIDEC DRIVE TECHNOLOGY CORPORATION**

Corporate Headquarters  
338 Tonoshiro-cho  
Kuze Minami-ku  
Kyoto 601-8205, Japan

### **NIDEC DRIVE TECHNOLOGY (SHANGHAI)**

Trading Company Ltd.  
Shanghai, China

### **NIDEC DRIVE TECHNOLOGY (KOREA) CORPORATION**

Seoul, Korea

### **NIDEC DRIVE TECHNOLOGY (TAIWAN) CORPORATION**

Taichung City, China

### **NIDEC DRIVE TECHNOLOGY (HONG KONG) COMPANY, LTD.**

Hong Kong, China

### **NIDEC DRIVE TECHNOLOGY (SINGAPORE) CORPORATION**

Singapore

### **NIDEC DRIVE TECHNOLOGY INDIA SALES AND TRADING**

Bangalore, India

[www.nidec-dtc.com](http://www.nidec-dtc.com)

***Nidec***

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