



RXC Mechanical Adjustable Speed Drive



NIDEC-SHIMPO CORPORATION

Letter from the President

The NIDEC-SHIMPO 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-SHIMPO initially established an industry-wide leadership position in the area of mechanical variable speed drives. We are very proud of our storied past with mechanical drive technology, through which NIDEC-SHIMPO 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-SHIMPO 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 focused a significant share of our time and energy towards providing higher precision solutions for our customers. This effort has led to the development of our ABLE product line, a complete offering of high-precision planetary speed reducers specific to servo-motor applications. This catalog provides in-depth technical details and specifications for the full ABLE product line.

NIDEC-SHIMPO 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 SHIMPO" - 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



Table of contents

| | |
|------------------------|-----|
| Company Overview | 2-5 |
|------------------------|-----|

RXC Series

| | |
|---------------------------|-----|
| Features & Benefits | 6-8 |
|---------------------------|-----|

| | |
|----------------------|---|
| RXC Model Code | 9 |
|----------------------|---|

| | |
|----------------------------|-------|
| Operating Principles | 10-11 |
|----------------------------|-------|

| | |
|----------------------------|----|
| Selection Procedures | 12 |
|----------------------------|----|

| | |
|---------------------------------|----|
| Load Classification Table | 13 |
|---------------------------------|----|

| | |
|---------------------|-------|
| Rating Tables | 14-27 |
|---------------------|-------|

Dimensions

| | |
|-------------------|----|
| Input Shaft | 28 |
|-------------------|----|

| | |
|--|-------|
| Base Mount, Input C-Face, No Speed Reducer | 29-31 |
|--|-------|

| | |
|--|-------|
| Flange Mount, Input C-Face, No Speed Reducer | 32-33 |
|--|-------|

| | |
|---|-------|
| Base Mount, Input C-Face, Planetary Reducer | 34-35 |
|---|-------|

| | |
|---|-------|
| Flange Mount, Input C-Face, Planetary Reducer | 36-37 |
|---|-------|

| | |
|---|-------|
| Base Mount, Input C-Face, Circulute Reducer | 38-39 |
|---|-------|

| | |
|---|-------|
| Flange Mount, Input C-Face, Circulute Reducer | 40-41 |
|---|-------|

| | |
|------------------------|----|
| With Pilot Motor | 42 |
|------------------------|----|

| | |
|--------------------|----|
| Applications | 43 |
|--------------------|----|

| | |
|---------------------------------------|-------|
| Electric Remote Control Options | 44-45 |
|---------------------------------------|-------|

Commercial Information

| | |
|------------------------------------|----|
| Customer Service and Support | 46 |
|------------------------------------|----|

| | |
|----------------|----|
| Warranty | 47 |
|----------------|----|

| | |
|-------------------------------------|-------|
| Standard Terms and Conditions | 48-49 |
|-------------------------------------|-------|

| | |
|---|----|
| Locations and Contact Information | 53 |
|---|----|

NIDEC Corporation

With annual sales exceeding \$8 Billion for the fiscal year 2011, the NIDEC Corporation has become the world's dominant provider of small precision, mid-size motors and related drive technologies. Founded in 1973 by current Chairman of the Board and CEO, Shigenobu Nagamori, the NIDEC Corporation has built a portfolio of motor variety that is far reaching and impacts all of us during our daily routine. Regardless if its hard disk drive motors, fan motors for appliances, or automotive related, NIDEC Corporation provides the motor and drive technology that help keep our world moving forward.

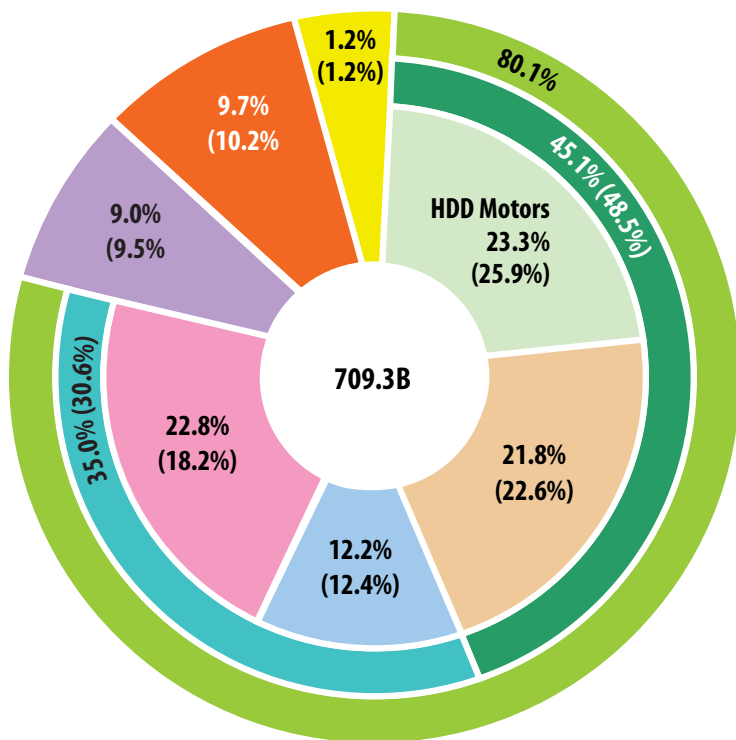
Corporate Headquarters
Kyoto, Japan

Share Listing
New York Stock Exchange
Tokyo Nikkei Stock Exchange

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

Under the NIDEC Group umbrella there are more than 150 corporate subsidiaries spanning the globe. A consolidated group would total more than 100,000 employees that are supplying products and services to customers in more than 150 countries. The NIDEC Group companies can be categorized into the following complementary business segments;

Sales by Product Group (FY2012)



The NIDEC Group has numerous manufacturing plants across the globe including their own industrial park near Shanghai, China where many of the group companies have located their primary production operations. NIDEC Corporation maintains motor research laboratories in Kyoto, Shiga, and Nagano Japan in order to remain in the forefront of precision and mid-size motor technology.

The NIDEC Corporation continues to expand its portfolio in "all types of motors" and maintain 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.

Motors:

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 pressing machines, chip mounters, measuring equipment, power transmission equipment, factory automation system

Electronic & Optical Components:

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

Others:

Logistics and services, musical products

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-SHIMPO

NIDEC-SHIMPO has established itself over time as a leading supplier of drive technology and precision power transmission solutions to the industrial marketplace. Created in 1952, SHIMPO located its corporate headquarters and main production facility in Kyoto, Japan. With traditional roots that began imbedded in the development of mechanical variable speed powertrains, SHIMPO grew into a more diverse manufacturer of high precision and heavy duty power transmission products.

In 1994 the company was acquired by the NIDEC Corporation, and became formally known as NIDEC-SHIMPO. NIDEC-SHIMPO began to focus on the higher volume production needs that industry demanded as the global motion control and servo motor market grew at an accelerated rate. Soon after that ground was broken for NIDEC-SHIMPO's state-of-the-art manufacturing facility in Ping Hu China, approximately two hours outside of Shanghai.

Today NIDEC-SHIMPO is producing more than 30,000 servo motor speed reducers per month out of its Ping Hu facility. More impressive than the volume put forth is the consistent level of high quality attained. With the marketplace continuing to demand higher levels of precision, NIDEC-SHIMPO continues to push forward in the development of high quality, dependable products to meet those specifications, and at a price point that allows customers to be competitive in the global arena.

Sales and Distribution Network

NIDEC-SHIMPO has distribution channels that span the globe with stocking and service locations throughout Asia-Pacific, Europe, and the Americas – in total more than 30 locations. Within the Americas, NIDEC-SHIMPO has established its main headquarters in the Chicago, Illinois area. This location has been supporting the North America market for more than 30 years.

Recently, NIDEC-SHIMPO America implemented a kit build assembly program within its Chicago, Illinois location. The kit build program allows NIDEC-SHIMPO to provide a large variety of frame sizes and ratios within 48 hours for customers. The kit build program provides product variety, availability, and flexibility (minor customization of product) that are unmatched within the industry.

New offices and stocking points have been added in Mexico (Monterrey, Queretaro), and a subsidiary established in Brazil (Sao Paulo) to serve the expanding motion control needs of emerging markets in Latin and South America.

NIDEC-SHIMPO America has built a solid engineering and customer support infrastructure, sales and distribution network, and inventory program that have it poised to grow aggressively in the next few years. The goal, to obtain a level of brand awareness and a dominant marketshare position similar to that established by the SHIMPO brand name in the Asia Pacific region, looks very well within reach.



NIDEC-SHIMPO'S ultimate goal is to provide the highest quality of products and level of service to our customers throughout the world. 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 and distribution channels.

Today, NIDEC-SHIMPO has more than 2,000 employees with a presence across five continents. We continue to expand and improve our global capabilities in order to better serve the needs of our OEM customer in an increasingly competitive environment.



Global Connections

Americas

- * Chicago
- Monterrey
- Querétaro
- São Paulo

Asia-Pacific

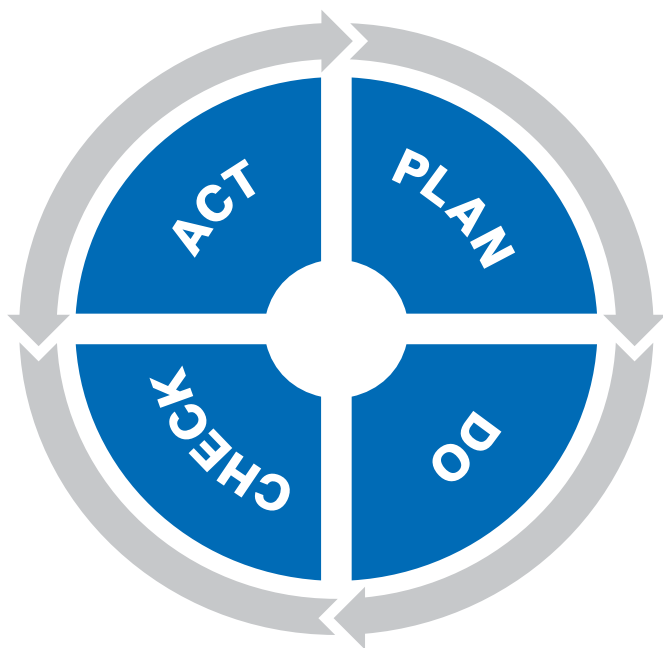
- * Kyoto (Headquarters)
- Taiwan
- Seoul
- Beijing
- Shanghai
- Pinghu
- Xianggang
- Singapore
- India-Bangalore



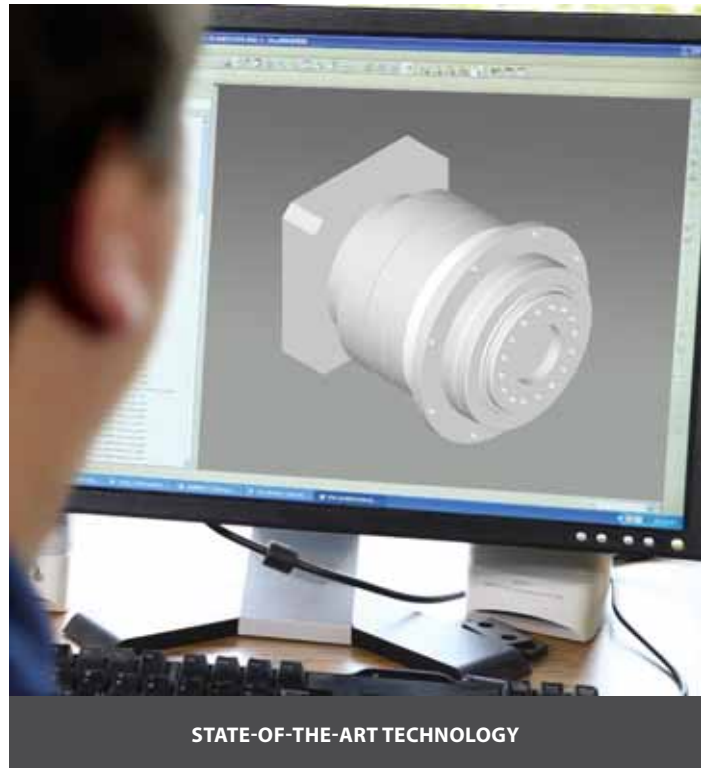
Total Quality Management

The spirit of challenge is basic to the NIDEC-SHIMPO culture, influencing all aspects of product development, manufacturing, and servicing our customers. All of us at NIDEC-SHIMPO, as a team, swiftly start taking action toward our goals. The practice of challenging each individual employee has helped drive and cultivate the creative ideas behind the state-of-the-art technology within our power transmission products. NIDEC-SHIMPO and its employees place quality control on a pedestal and consider it to be the ultimate goal – an ongoing challenge, where we seek continuous improvement at levels previously thought unattainable.

In 1969 NIDEC-SHIMPO received “The Deming Award” for our outstanding quality control based on the Total Quality Management (TQM) Method. Since that time, NIDEC-SHIMPO’s desire to avoid causing any inconvenience to our customers, due to inferior product or service, has steered us towards internalizing a unique statistical Quality Control procedure across all departments and functional teams. Our rigid Quality Control program influences all aspects of production such as the sales and order processing activities, the design and resource allocation stages, manufacturing, and logistics. By instilling the Deming Cycle – *Plan, Do, Check, Act* – deep within our company culture, NIDEC-SHIMPO is manufacturing products that exceed our customer’s needs and specifications at a lower cost, faster delivery, and better service when benchmarked against any of our major competitors.



Regardless if the reducer is manufactured at our main facility in Asia or assembled at our Kit Build Center in the United States, all products will be tested with the same stringent quality control procedures and tests. Lot testing a few samples, like some of our competitors do, was never an option for NIDEC-SHIMPO.



NIDEC-SHIMPO holds certification for ISO 9001 and 14001. We took the certification process very seriously, realizing that NIDEC-SHIMPO must achieve global ISO standards in order to build our brand awareness and establish credibility abroad where our presence in the local market is still fairly undeveloped. Our ISO Registration is the following;

ISO 9001 Compliance in the following activities

Design, development, manufacturing, and service (repair) of the following products,

- Planetary Speed Reducers
- Mechanical Variable Speed Drives
- Handheld Instrumentation (Digital Tachometers, Stroboscopes)
- Digital Controllers



ISO 14001 Compliance in the following activities

All design, development, manufacturing, and repair services at our main manufacturing facility, and at our Corporate headquarters.

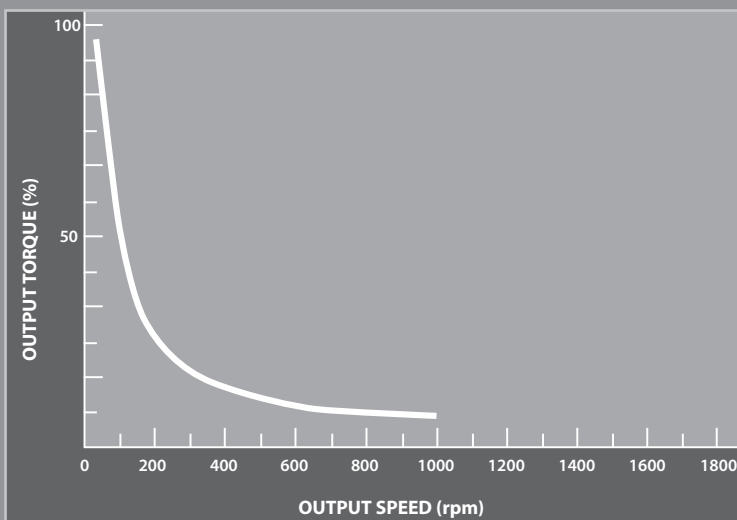
In conclusion, NIDEC-SHIMPO will continue to challenge itself and our individual employees while striving for greater levels of product quality and services. It is a daunting challenge, as the incremental gains in quality become smaller and smaller and much harder to achieve. However, the challenge is ingrained within the spirit of each NIDEC-SHIMPO employee. This *Do It Now!* and *Follow Through!* attitude exhibited by our employees helps create superior products for the global marketplace.

RXC-SERIES

The NIDEC-SHIMPO Ring-cone has a strong advantage over the common electronic variable speed drives in certain performance aspects. The Ring-cone is a mechanical adjustable speed drive utilizing a ring and cone friction power train – hence the name. 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 Ring-cone 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 certain 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 Ring-cone 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 and rightfully so, the mechanical variable speed drives has its niche in specific applications – such as extreme pumping, mixing, recycling, etc. – 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.



Ring-cone Torque Curve

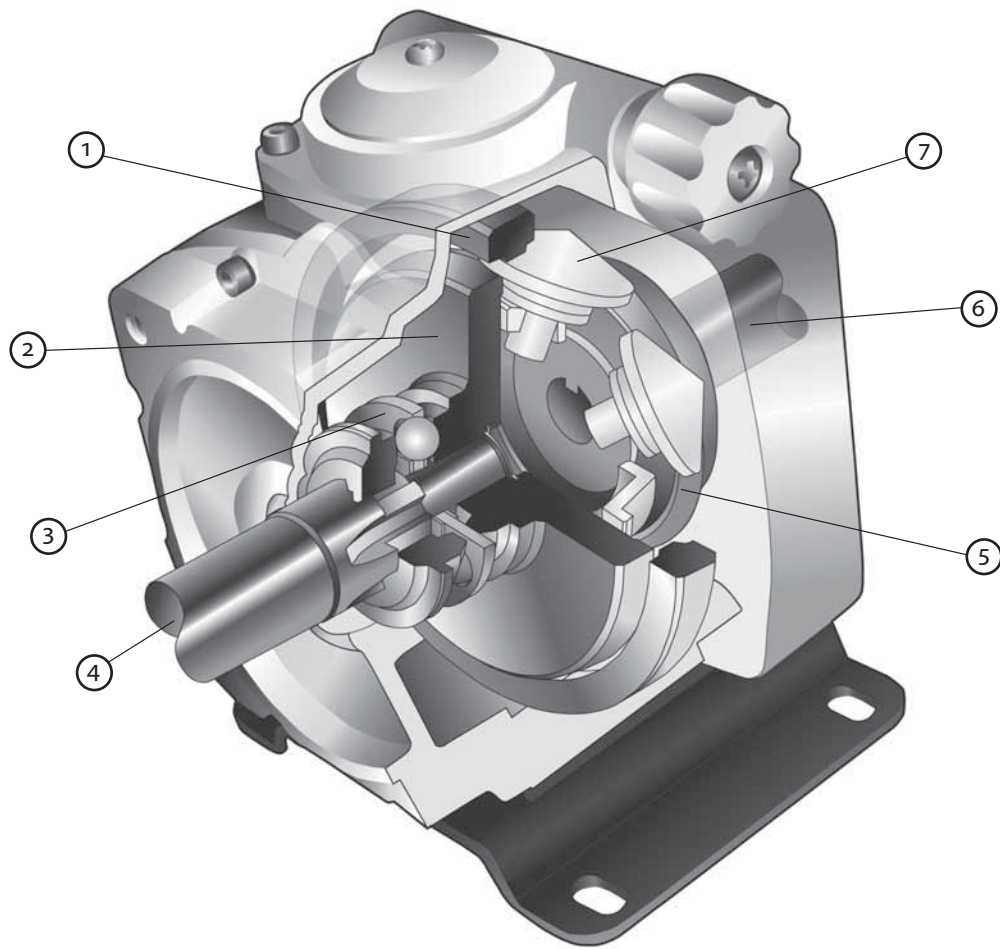


RXC-SERIES

- Infinite Speed Range: Easily accelerates high speed 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 In and Out Available: Simplify mounting of unit, attachment of motor. Mix and match to nearly any motor type
- Electronic Speed Control Available: Provides speed regulation better than 1%. Allows easy integration into a complete control system. Easy switchover to manual control when necessary. Low-power control generates no electrical noise

RXC SERIES Mechanical Adjustable Speed Drive

RXC Series Features



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

RXC Series Model Code

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

Input Code

Ordering Code **A**

| | |
|------------|--------------------|
| RMA | 1X C-Face Input |
| RXA | 1X Shaft-In |
| NMC | 2X C-Face Input |
| NXC | 2X Shaft-In |
| NMA | 3X-7X C-Face Input |
| NXA | 3X-7X Shaft-In |

Size Code

Ordering Code **B**

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

Reducer Code

Ordering Code **C**

| | |
|-----------|----------------------------------|
| 00 | No Reducer |
| -- | See each Rating Table for detail |

Note:

Built-in Planetary or
Built-in Cycloidal

Note:

* Consult Factory

Mounting Code

Ordering Code **D**

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

Motor Speed Control Code

(Bolt Circle of motor in mm)
Ordering Code **E**

| | |
|-----------|---|
| 00 | Manual Handwheel |
| 10 | Manual Handwheel w/MGS |
| 11 | Open Loop, PM 115VAC |
| 12 | Open Loop, w/MGS PM 115VAC |
| 14 | Open Loop, w/Auxillary Handwheel, PM 115VAC |
| 15 | Open Loop, w/MGS and Auxillary Handwheel, PM 115VAC |
| 31 | Closed Loop, w/MGS PM 115VAC |
| 32 | Closed Loop, w/MGS and Auxillary Handwheel, PM 115VAC |
| 33 | Closed Loop, w/Pot Feedback PM 115VAC |
| 35 | Closed Loop, w/Pot Feedback and Auxillary Handwheel PM 115VAC |
| 40 | Open Loop, EXP PM 115VAC |
| 41 | Open Loop, w/EXP MGS EXP PM 115VAC |
| 42 | Closed Loop, w/EXP MGS EXP PM 115VAC |
| 43 | Hand Wheel w/EXP MGS |
| * | Special, please specify |

Note:

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

Worm Position Code

Codes 1-6 are for the R_A-90 unit
w/integral worm reducer only **H**

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

Main Motor

Ordering Code **F**

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

Motor Specification

Ordering Code **G**

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

Speed Adjustment

Ordering Code **I**

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

Environmental

Ordering Code **J**

| | |
|----------|--|
| 0 | Standard |
| 2 | Washdown protection for Handwheel unit, includes Washdown Breather, V-Ring, Stainless Steel Sleeve under Oil Seal, and White Epoxy Painting |
| | Washdown Breather only |
| 5 | 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 |
| | NEMA 4 at PM |
| * | Other, please specify |

RXC SERIES Mechanical Adjustable Speed Drive

Operating Principles

Planetary speed 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.

A ring cone traction drive is very 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.

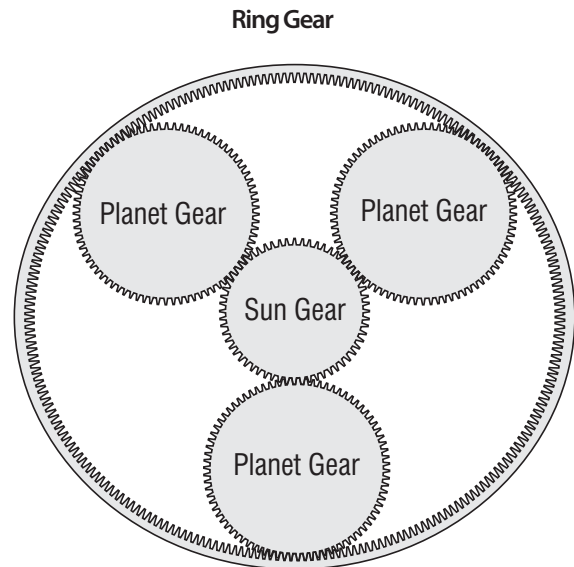
If this were the complete system, and the Cone retainer were tied to the output shaft, it would operate as a simple speed reducer. In fact, SHIMPO does manufacture such speed reducers, for applications which cannot tolerate the speed ripple that results from engaging and disengaging gear teeth. No gears,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

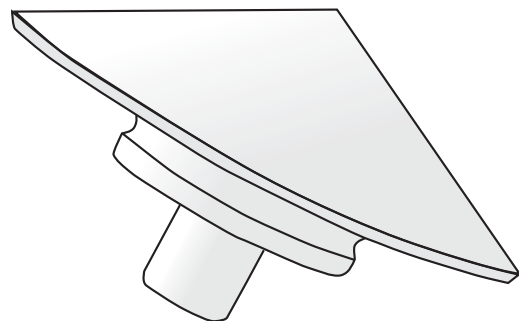
As shown in the diagram, the cones are somewhat “umbrella shaped,” with a stem area. When placed in a retainer, the cones are held at such an angle that a portion of the cone surface is horizontal. This horizontal surface makes contact with the Control Ring.

The Input Disc 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.

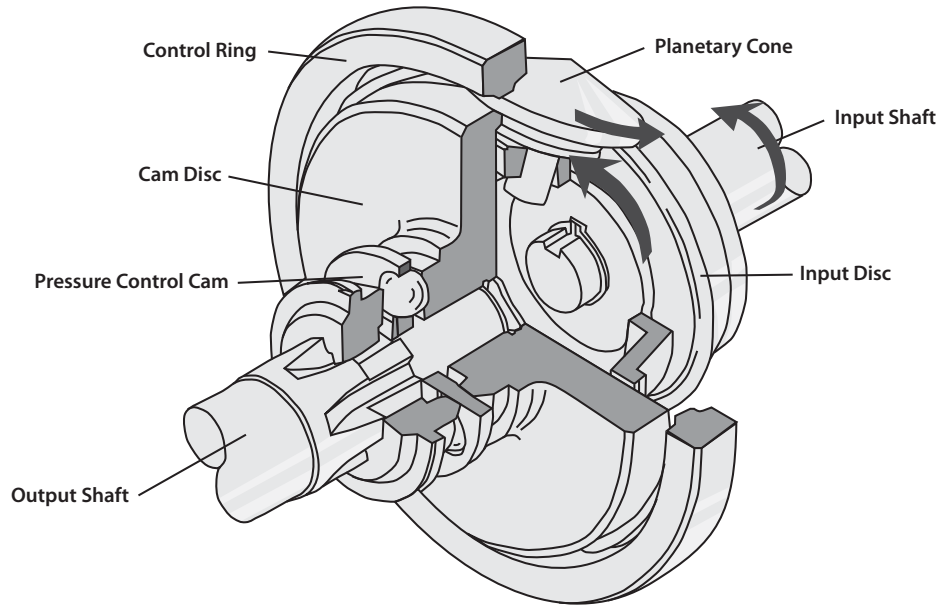


Horizontal Surface makes Contact with the Control Ring



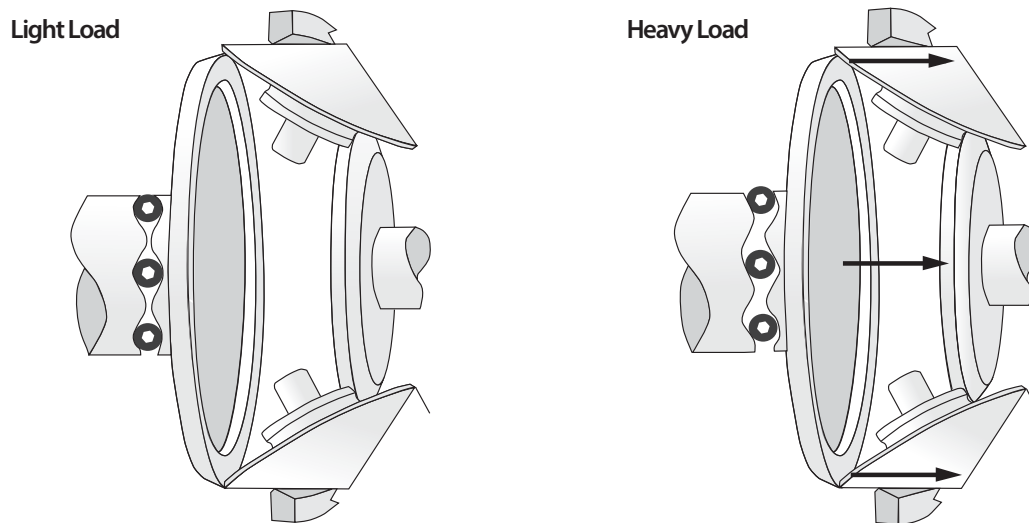
Operating Principles

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 item 1. Otherwise, skip to item 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 (U) | | Moderate Shock (M) | | Heavy Shock (H) | |
| | AGMA | Circulate | AGMA | Circulate | AGM | Circulate |
| Occasional: 1/2 hour per day | 0.50 | 0.50 | 0.80 | 0.80 | 1.25 | 1.20 |
| Intermittent: 3 hours per day | 0.80 | 0.80 | 1.00 | 1.00 | 1.50 | 1.35 |
| Up to 10 hours per day | 1.00 | 1.00 | 1.25 | 1.20 | 1.75 | 1.50 |
| 24 hours per day | 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 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..... | U |
| 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 |
|----------------|---|

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 |
|-----------------|---|

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,..... | U |
| 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,..... | U |
| 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-SHIMPO 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 | Motor | OHL | k | Thrust |
|------|--------|----------------------|-------|-------|-------|-------|-------|-----------------|-------|-----|-----|--------|
| | HP | 800 | 640 | 480 | 320 | 160 | 0 | Number | HP | lbs | in | lbs |
| 2X | Torque | 15 | 19 | 22 | 26 | 32 | 44 | N-B0200-----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-B0400-----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 | --- | | | | | |

Specifications are subject to change without notice. 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 | Motor | OHL | k | Thrust |
|------|--------|----------------------|-------|-------|-------|-------|-------|-----------------|-------|-----|-----|--------|
| | HP | 600 | 480 | 360 | 240 | 120 | 0 | Number | HP | lbs | in | lbs |
| 2X | Torque | 19 | 22 | 25 | 28 | 34 | 44 | N-B0200-----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-B0400-----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 | --- | | | | | |

Specifications are subject to change without notice. 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 | Rating at Output RPM | | | | | | Model | Motor | OHL | k | Thrust |
|------|--------|----------------------|-------|-------|-------|-------|-------|-----------------|-------|-----|-----|--------|
| | HP | 400 | 320 | 240 | 160 | 80 | 0 | Number | HP | lbs | in | lbs |
| 2X | Torque | 30 | 33 | 37 | 44 | 53 | 66 | N-B0400-----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-A1000-----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 | --- | | | | | |

Specifications are subject to change without notice. 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 Speed Reducer Ratio: 3:1

| Size | in-lbs | Rating at Output RPM | | | | | | Model | Motor | OHL | k | Thrust |
|------|--------|----------------------|-------|-------|-------|-------|-------|-----------------|-------|-------|-----|--------|
| | HP | 267 | 213 | 160 | 107 | 53 | 0 | Number | HP | lbs | in | lbs |
| 2X | Torque | 43 | 54 | 63 | 74 | 91 | 125 | N-B0283-----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-B0483-----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 | --- | | | | | |

Specifications are subject to change without notice. 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 Speed Reducer Ratio: 3:1

| Size | in-lbs | Rating at Output RPM | | | | | | Model | Motor | OHL | k | Thrust |
|------|--------|----------------------|-------|-------|-------|-------|-------|-----------------|-------|-------|-----|--------|
| | HP | 200 | 160 | 120 | 80 | 40 | 0 | Number | HP | lbs | in | lbs |
| 2X | Torque | 54 | 63 | 71 | 80 | 97 | 125 | N-B0283-----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-B0483-----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 | --- | | | | | |

Specifications are subject to change without notice. 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: 0-160 RPM, Motor Speed: 1750 RPM, Built-in Planetary Speed Reducer Ratio: 5:1

| Size | in-lbs | Rating at Output RPM | | | | | | Model | Motor | OHL | k | Thrust |
|------|--------|----------------------|-------|-------|-------|--------|--------|-----------------|-------|-------|-----|--------|
| | HP | 160 | 128 | 96 | 64 | 32 | 0 | Number | HP | lbs | in | lbs |
| 2X | Torque | 71 | 90 | 105 | 124 | 152 | 209 | N-B0285-----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-B0485-----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 | --- | | | | | |

Specifications are subject to change without notice. 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 Speed Reducer Ratio: 6:1

| Size | in-lbs | Rating at Output RPM | | | | | | Model | Motor | OHL | k | Thrust |
|------|--------|----------------------|-------|-------|-------|-------|-------|-----------------|-------|-------|-----|--------|
| | HP | 133 | 107 | 80 | 53 | 27 | 0 | Number | 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 | --- | | | | | |

Specifications are subject to change without notice. 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: 0-120 RPM, Motor Speed: 1750 RPM, Built-in Planetary Speed Reducer Ratio: 5:1

| Size | in-lbs | Rating at Output RPM | | | | | | Model | Motor | OHL | k | Thrust |
|------|--------|----------------------|-------|-------|--------|--------|--------|-----------------|-------|-------|-----|--------|
| | HP | 120 | 96 | 72 | 48 | 24 | 0 | Number | HP | lbs | in | lbs |
| 2X | Torque | 90 | 105 | 119 | 133 | 162 | 209 | N-B0285-----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-B0485-----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 | --- | | | | | |

Specifications are subject to change without notice. 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 Speed Reducer Ratio: 6:1

| Size | in-lbs | Rating at Output RPM | | | | | | Model | Motor | OHL | k | Thrust |
|------|--------|----------------------|-------|-------|-------|-------|-------|-----------------|-------|-------|-----|--------|
| | HP | 100 | 80 | 60 | 40 | 20 | 0 | Number | 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 | --- | | | | | |

Specifications are subject to change without notice. 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 Speed Reducer Ratio: 11:1

| Size | in-lbs HP | Rating at Output RPM | | | | | | Model Number | Motor HP | OHL lbs | k in | Thrust lbs |
|------|--------------|----------------------|--------|--------|--------|--------|--------|-----------------|-------------|------------|---------|---------------|
| | | 72.3 | 58.2 | 43.6 | 29.1 | 14.6 | 0 | | | | | |
| 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 | --- | | | | | |

Specifications are subject to change without notice. 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 Speed Reducer Ratio: 17:1

| Size | in-lbs HP | Rating at Output RPM | | | | | | Model Number | 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 | --- | | | | | |

Specifications are subject to change without notice. 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 Speed Reducer Ratio: 29:1

| Size | in-lbs | Rating at Output RPM | | | | | | Model | Motor | OHL | k | Thrust |
|------|--------|----------------------|--------|--------|--------|--------|--------|-----------------|-------|-------|------|--------|
| | HP | 27.6 | 22.1 | 16.6 | 11 | 5.52 | 0 | Number | 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 | --- | | | | | |

Specifications are subject to change without notice. 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 Speed Reducer Ratio: 35:1

| Size | in-lbs HP | Rating at Output RPM | | | | | | Model Number | 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 | --- | | | | | |
| 8X | Torque | 38,850 | 47,268 | 56,009 | 66,369 | 84,175 | 112,000 | N-A95G4-----00- | 20 | 15,000 | 15.0 | 7,300 |
| | HP | 14.1 | 13.7 | 12.2 | 9.63 | 6.11 | --- | | | | | |

Specifications are subject to change without notice. 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 Speed Reducer Ratio: 47:1

| Size | in-lbs | Rating at Output RPM | | | | | | Model | Motor | OHL | k | Thrust |
|------|--------|----------------------|--------|--------|--------|--------|--------|-----------------|-------|-------|------|--------|
| | HP | 17 | 14 | 10 | 7 | 3 | 0 | Number | HP | lbs | in | lbs |
| 2X | Torque | 652 | 826 | 956 | 1,130 | 1,390 | 1,910 | N-B02B5-----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-B04B5-----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 | --- | | | | | |

Specifications are subject to change without notice. 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 Speed Reducer Ratio: 59:1

| Size | in-lbs | Rating at Output RPM | | | | | | Model | Motor | OHL | k | Thrust |
|------|--------|----------------------|--------|--------|---------|---------|---------|-----------------|-------|--------|------|--------|
| | HP | 14 | 11 | 8 | 5 | 3 | 0 | Number | HP | lbs | in | lbs |
| 2X | Torque | 819 | 1,040 | 1,200 | 1,420 | 1,750 | 2,400 | N-B02B6-----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-B04B6-----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 | --- | | | | | |
| 8X | Torque | 49,000 | 59,500 | 70,900 | 84,000 | 106,000 | 130,000 | N-A91G6-----00- | 15 | 15,000 | 15.0 | 7,300 |
| | HP | 10.5 | 10.2 | 9.15 | 7.23 | 4.56 | --- | | | | | |
| 8X | Torque | 65,500 | 79,700 | 94,400 | 112,000 | 130,000 | 130,000 | N-A95G6-----00- | 20 | 15,000 | 15.0 | 7,300 |
| | HP | 14.1 | 13.7 | 12.2 | 9.64 | 5.59 | --- | | | | | |

Specifications are subject to change without notice. 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 Speed Reducer Ratio: 71:1

| Size | in-lbs | Rating at Output RPM | | | | | | Model | Motor | OHL | k | Thrust |
|------|--------|----------------------|--------|---------|---------|---------|---------|-----------------|-------|--------|------|--------|
| | HP | 11 | 9 | 7 | 5 | 2 | 0 | Number | HP | lbs | in | lbs |
| 2X | Torque | 985 | 1,250 | 1,440 | 1,710 | 2,100 | 2,600 | N-B02B7-----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-B04B7-----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 | --- | | | | | |
| 8X | Torque | 59,000 | 71,600 | 85,400 | 101,000 | 128,000 | 130,000 | N-A91G7-----00- | 15 | 15,000 | 15.0 | 7,300 |
| | HP | 10.5 | 10.2 | 9.16 | 7.22 | 4.58 | --- | | | | | |
| 8X | Torque | 78,800 | 95,900 | 114,000 | 130,000 | 130,000 | 130,000 | N-A95G7-----00- | 20 | 15,000 | 15.0 | 7,300 |
| | HP | 14.1 | 14.1 | 10.5 | 7.03 | 3.52 | --- | | | | | |

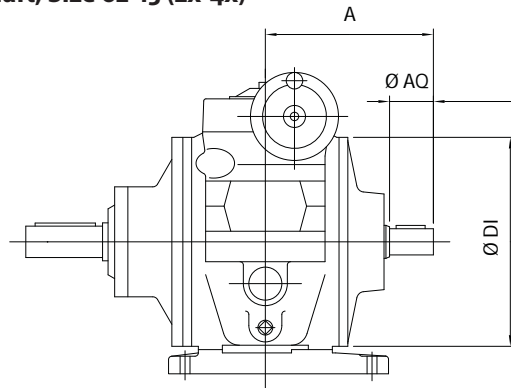
Specifications are subject to change without notice. See page 28 - 42 for dimensions.

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

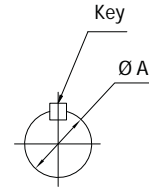
RXC SERIES Mechanical Adjustable Speed Drive

Dimensions

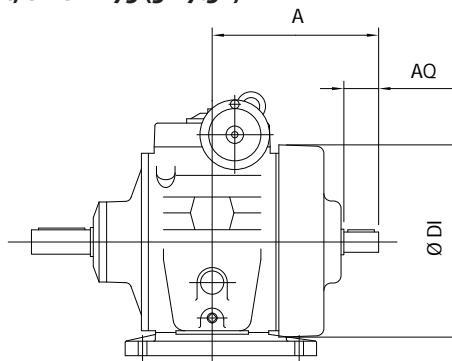
Input Shaft, Size 02-15 (2x-4x)



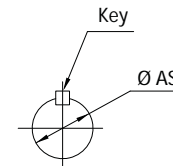
INPUT SHAFT



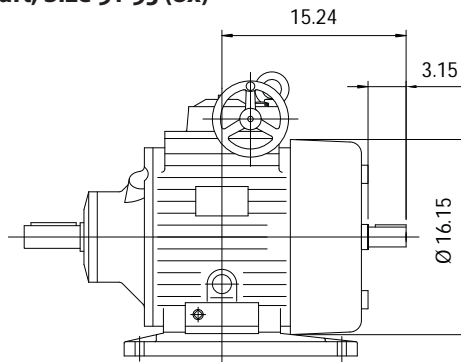
Input Shaft, Size 22-75 (5x-7.5x)



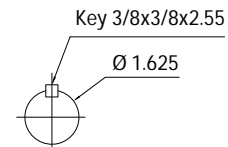
INPUT SHAFT



Input Shaft, Size 91-95 (8x)



INPUT SHAFT



Weight (lbs.) 495
Lube Qty (gal.) * 1.32

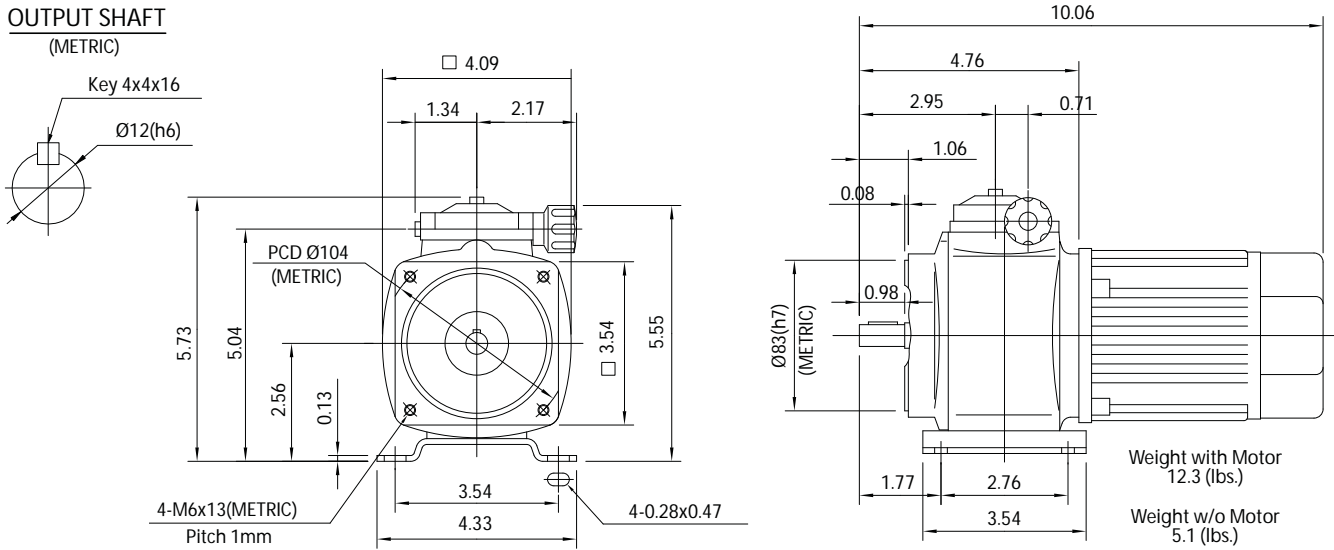
Input Shaft, Size 02-95 (2x-8x)

| Size | RX Model Number | A | AQ | AS | DI | Input 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 | 0.58 |

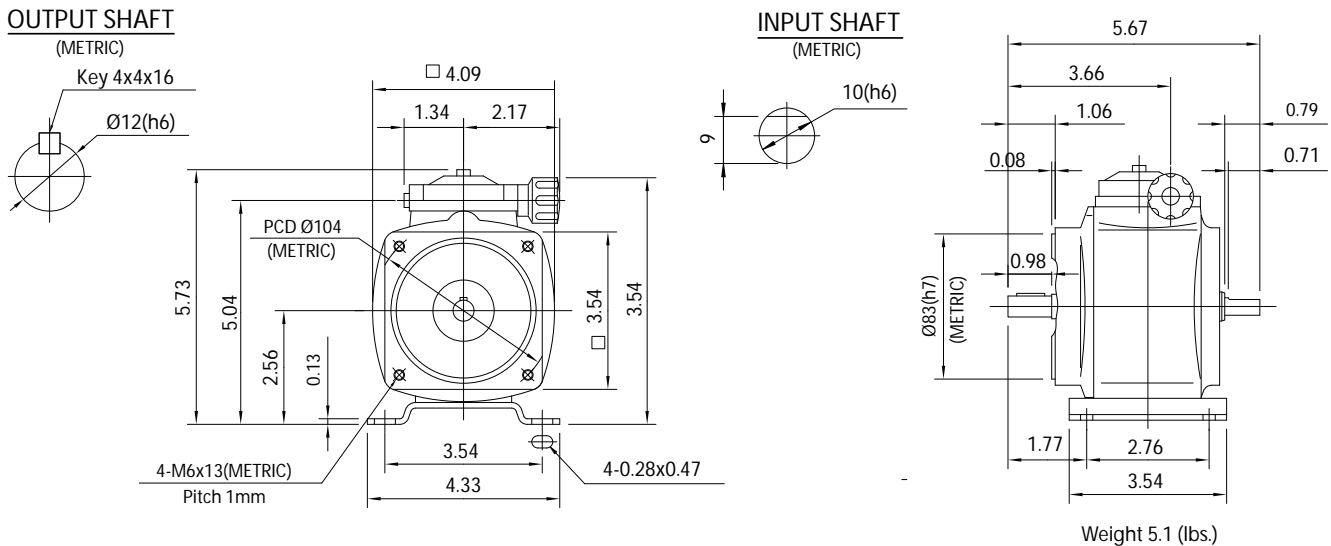
* For horizontal mounting

Rating Table & Dimensions

Base Mount, Input C-Face, No Speed Reducer, Size 90 (1x)



Base Mount, Input Shaft, No Speed 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 | RX Model Number | 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 |

| Size | RX Model Number | 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 |

| Size | RX Model Number | Output Key | Hand-Wheel Dia. | Hand-wheel Turns | 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 | 0.58 | 210TC |

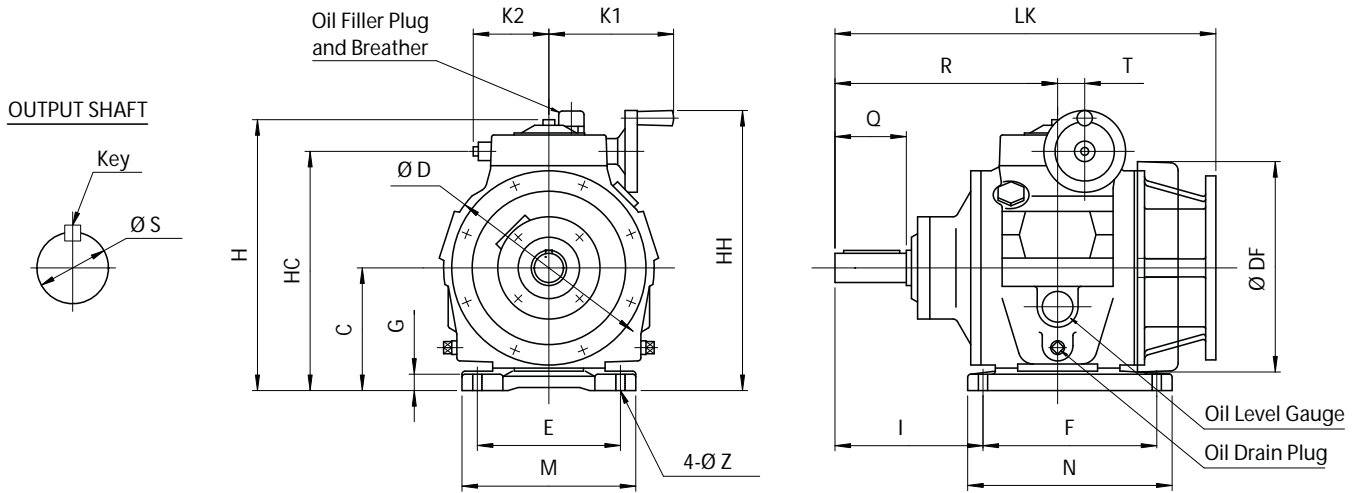
* For horizontal mounting

Units are shipped factory lubricated.

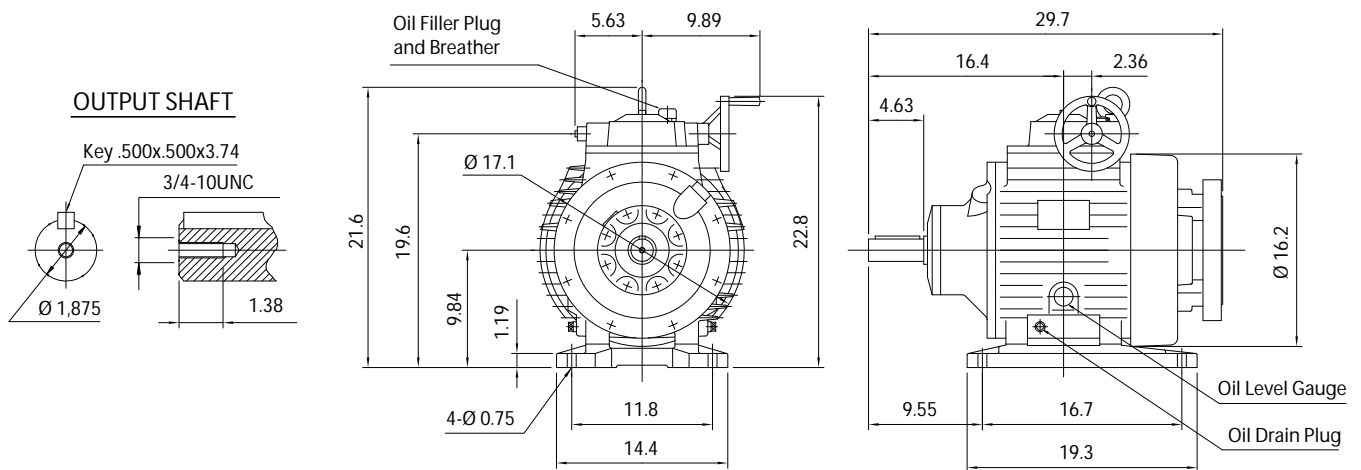
Dimensions are subject to change without notice. Contact NIDEC-SHIMPO for certified drawings for installation purposes.

Dimensions

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



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



RXC SERIES Mechanical Adjustable Speed Drive

Dimensions

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

| Size | RX Model Number | 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 |

| Size | RX Model Number | 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 |

| Size | RX Model Number | 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 |

* For vertical down mounting

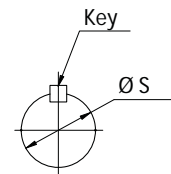
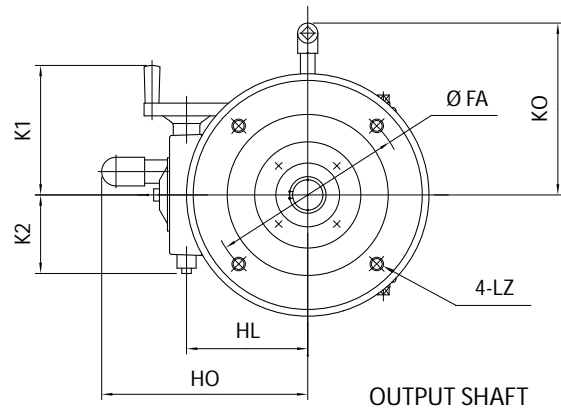
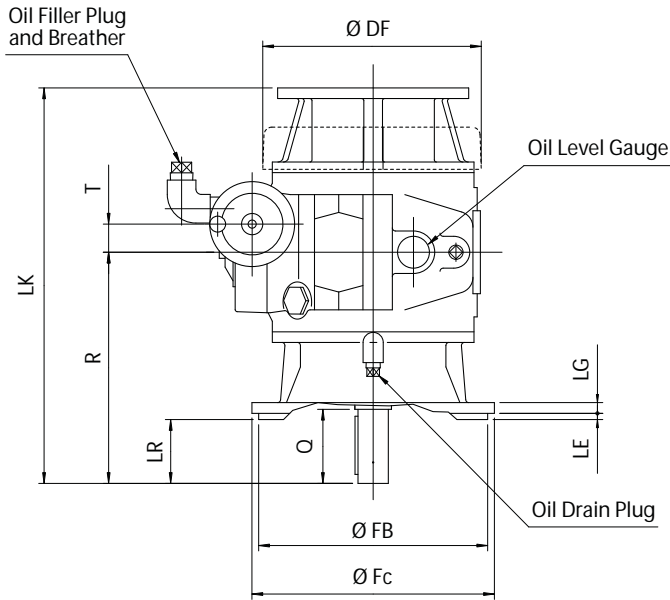
Units are shipped factory lubricated.

Unless otherwise noted, all lengths are in inches.

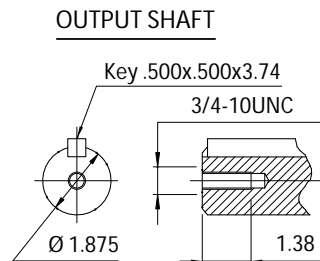
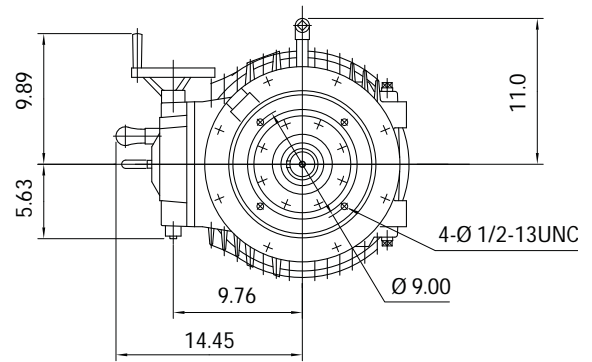
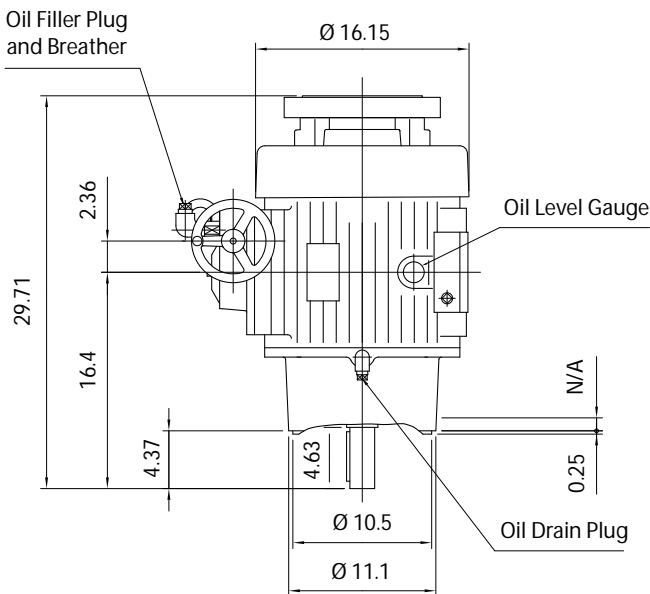
Dimensions are subject to change without notice. Contact NIDEC-SHIMPO for certified drawings for installation purposes.

Dimensions

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



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



RXC SERIES Mechanical Adjustable Speed Drive

Dimensions

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

| Size | RX Model Number | 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 |

| Size | RX Model Number | 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 |

| Size | RX Model Number | Output Key (mm) | Hand-wheel Dia. | Hand-wheel Turns | Weight w/o Motor (lbs.) | Lube | | 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 |

* For horizontal mounting

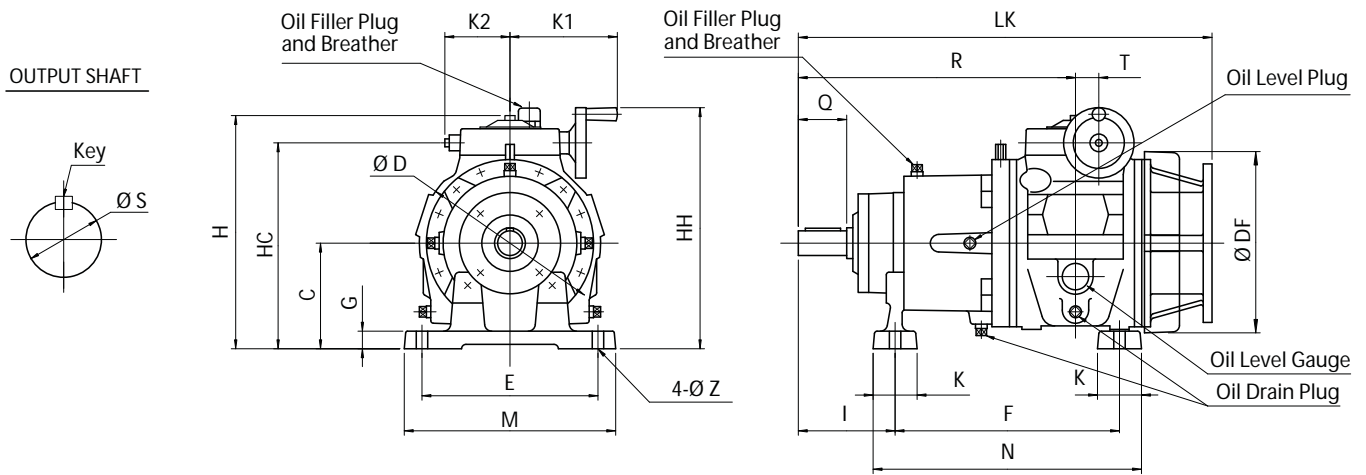
Units are shipped factory lubricated.

Unless otherwise noted, all lengths are in inches.

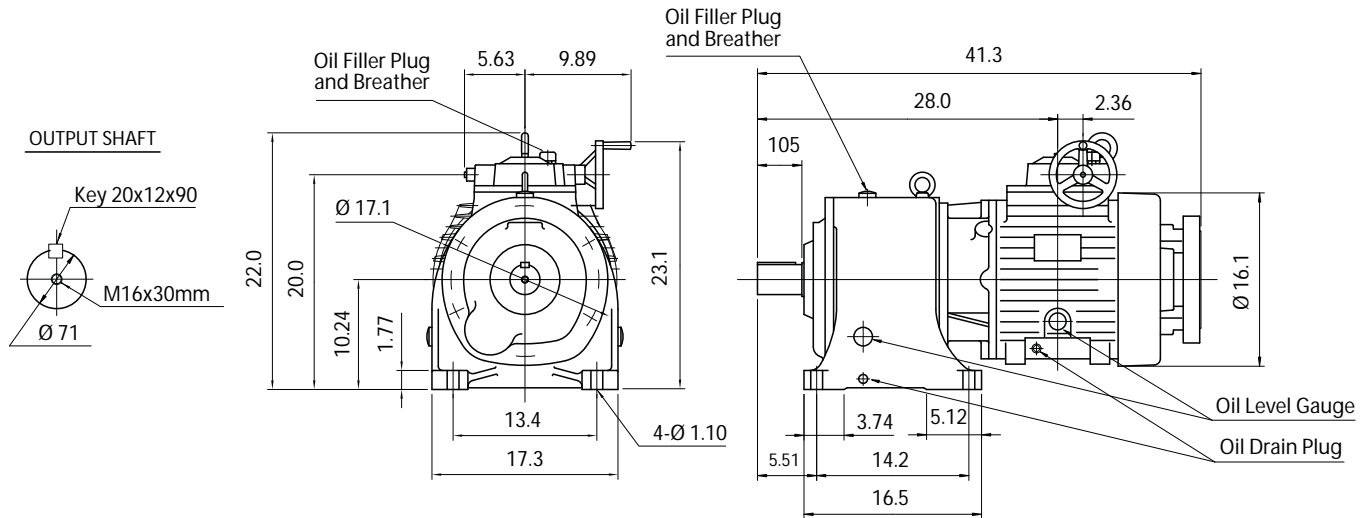
Dimensions are subject to change without notice. Contact NIDEC-SHIMPO for certified drawings for installation purposes.

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 | RX Model Number | 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 |

| Size | RX Model Number | 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 |

| Size | RX Model Number | Output Key (mm) | Hand-wheel Dia. | Hand-wheel Turns | Weight w/o Motor (lbs.) | Lube | | 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 |

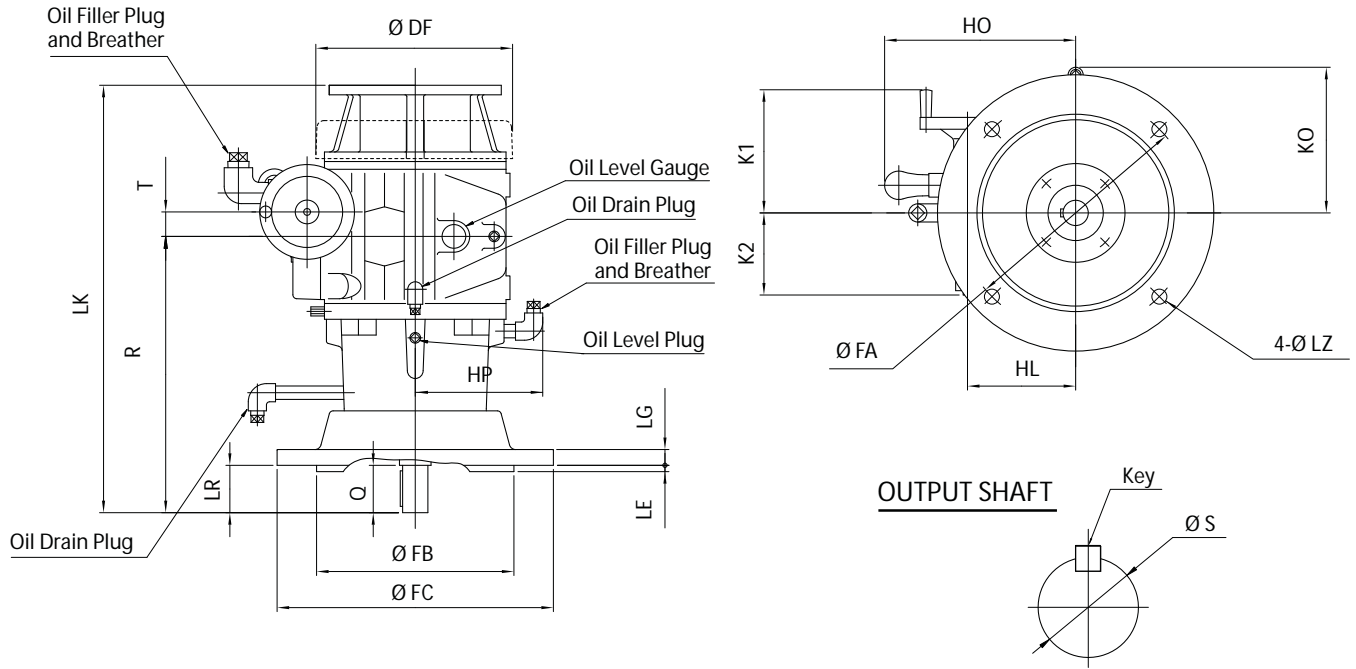
* For vertical down mounting

Units are shipped factory lubricated. Unless otherwise noted, all lengths are in inches.

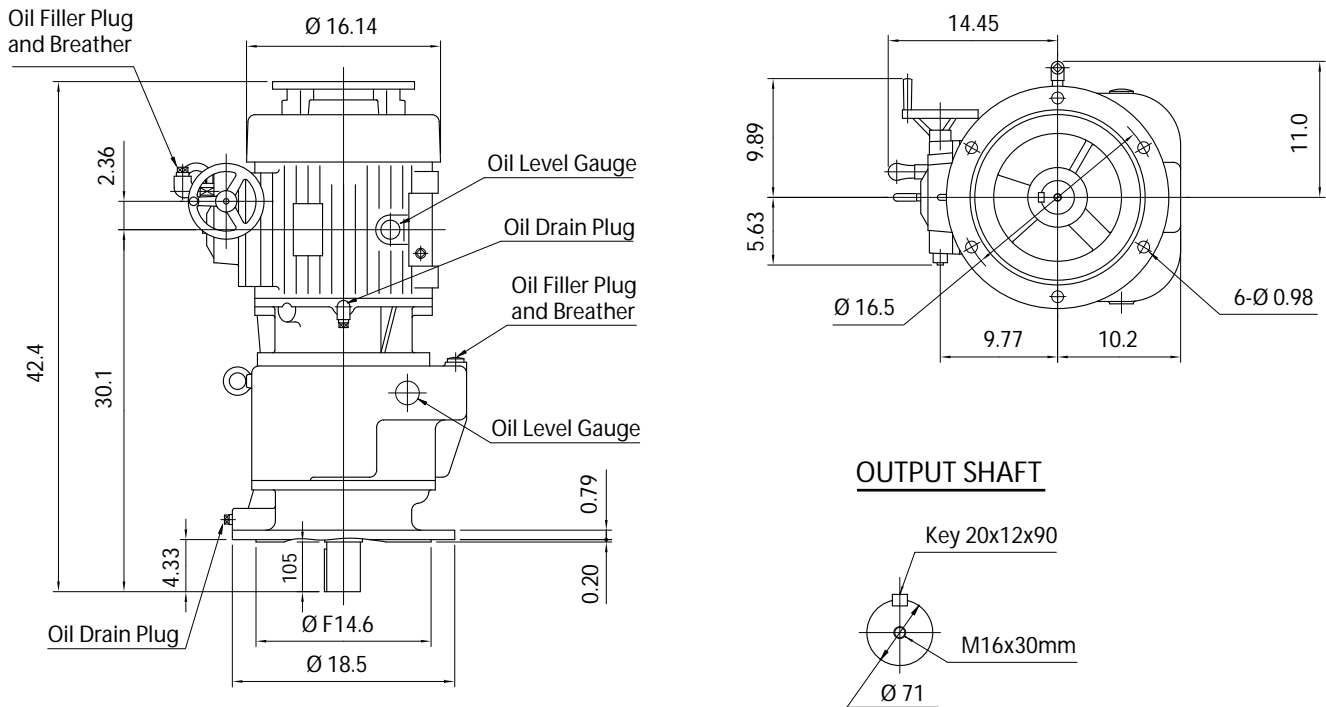
Dimensions are subject to change without notice. Contact NIDEC-SHIMPO for certified drawings for installation purposes.

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 Reducer, Sizes 02-95 (2x-8x)

| Size | RX Model Number | 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 |
| 8X | NMA91F & NMA95F | 8.27 | 14.2 | 16.1 | 13.8 | 11.6 | 1.38 | 20.0 | 18.0 | 21.2 | 7.67 |
| | NMA91G & NMA95G | 10.63 | 18.9 | 16.1 | 17.7 | 15.8 | 1.58 | 23.4 | 20.4 | 23.6 | 10.3 |

| Size | RX Model Number | 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 |
| 8X | NMA91F & NMA95F | 9.89 | 5.63 | 47.2 | 16.7 | 14.4 | 5.50 | 33.9 | 3.625 | 2.36 | 0.99 |
| | NMA91G & NMA95G | 9.89 | 5.63 | 53.8 | 21.7 | 19.7 | 7.54 | 40.4 | 5.000 | 2.36 | 1.11 |

Units are shipped factory lubricated.

Unless otherwise noted, all lengths are in inches.

Dimensions are subject to change without notice. Contact NIDEC-SHIMPO for certified drawings for installation purposes.

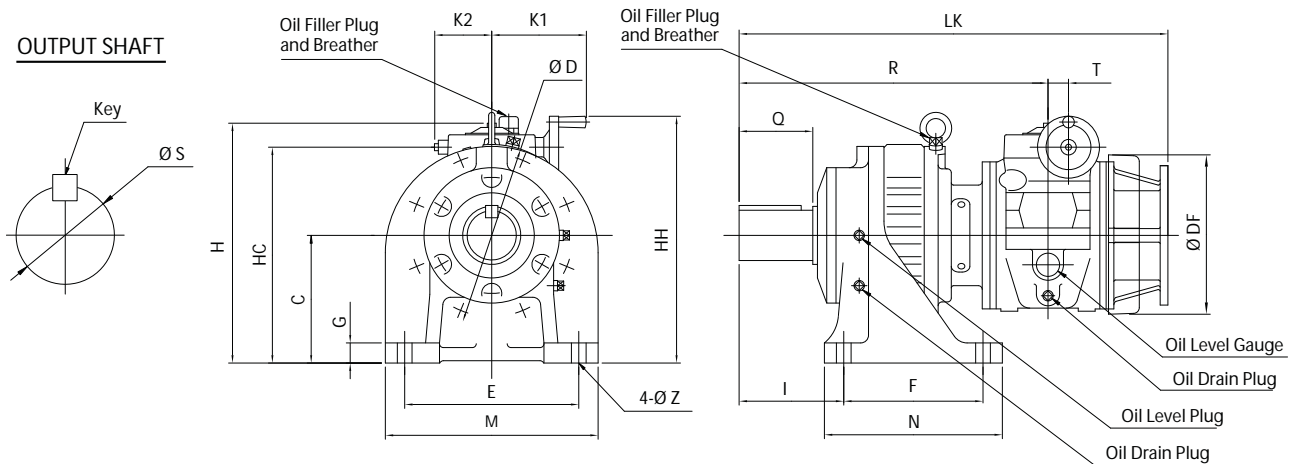
Dimensions

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

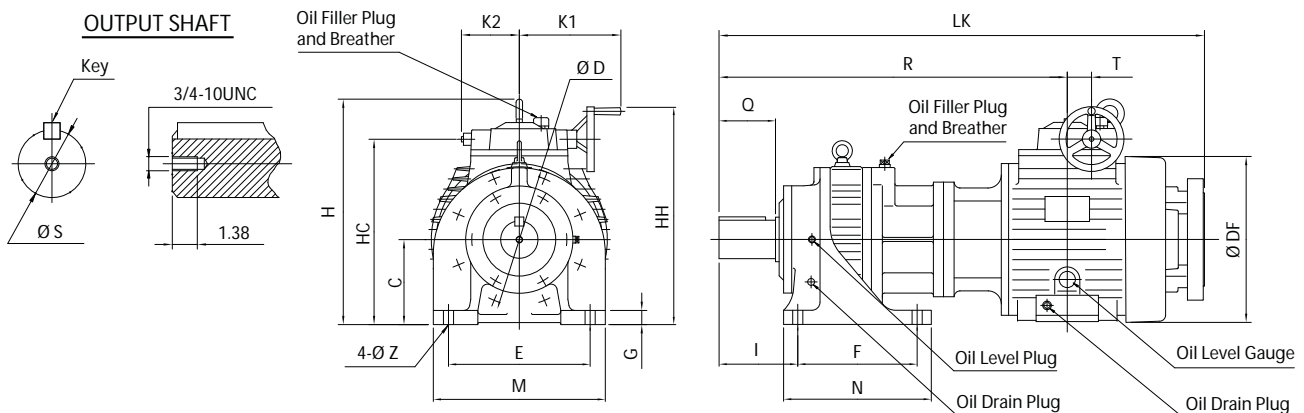
| Size | RX Model Number | Output Key | Hand-wheel Dia. | Hand-wheel Turns | Weight w/o Motor (lbs.) | Lube | | Input C-Face |
|------|-----------------|-----------------|-----------------|------------------|-------------------------|------------------|----------------|--------------|
| | | | | | | Adj.Sp.d. (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 |
| 8X | NMA91F & NMA95F | .875x.875x4.53 | 6.30 | 21 | 973 | 1.32 | 0.85 | 250TC |
| | NMA91G & NMA95G | 1.250x.875x6.50 | 6.30 | 21 | 1,323 | 1.32 | 1.72 | 250TC |

* For horizontal mounting

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



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



RXC SERIES Mechanical Adjustable Speed Drive

Dimensions

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

| Size | RX Model Number | 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 |
| 8X | NMA91F & NMA95F | 16.1 | 15.8 | 13.8 | 17.7 | 9.77 | 14.45 | 10.1 | 9.89 | 5.63 | 0.32 |
| | NMA91G & NMA95G | 16.1 | 19.7 | 17.7 | 21.7 | 9.77 | 14.45 | 10.1 | 9.89 | 5.63 | 0.32 |

| Size | RX Model Number | 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 |
| 8X | NMA91F & NMA95F | 0.99 | 47.2 | 5.50 | 8-0.75 | 5.50 | 33.9 | 3.625 | 2.36 | .875x.875x4.53 |
| | NMA91G & NMA95G | 1.38 | 53.8 | 7.50 | 8-0.95 | 7.54 | 40.4 | 5.000 | 2.36 | 1.250x.875x6.50 |

| Size | RX Model Number | Hand-wheel Dia. | Hand-wheel Turns | Weight w/o Motor (lbs.) | Lube | | 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 Reducer, Sizes 02-95 (2x-8x)

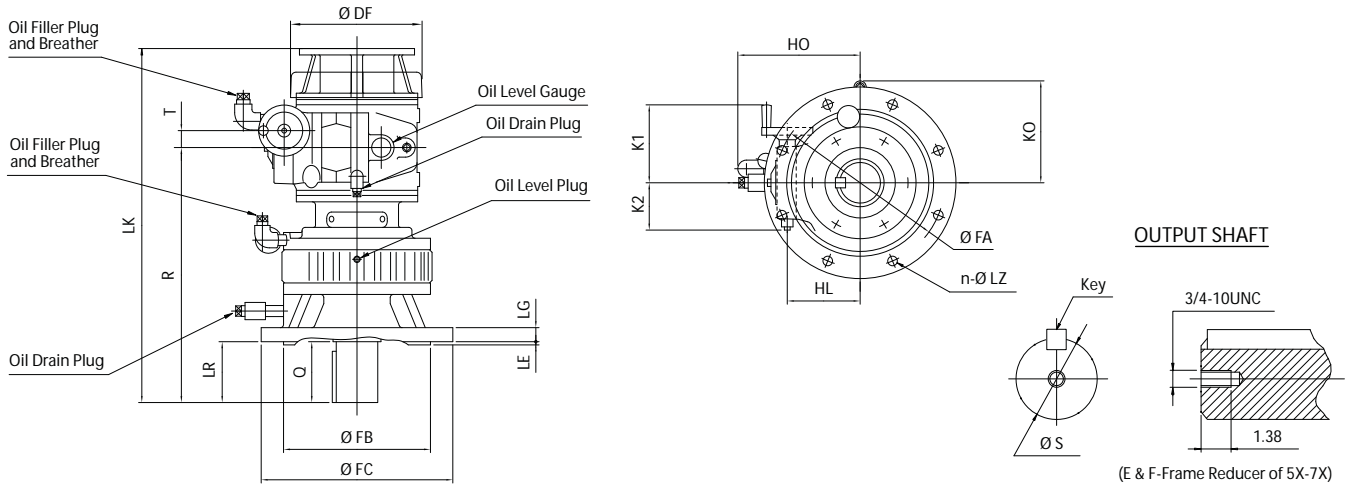
| Size | RX Model Number | Hand-wheel Dia. | Hand-wheel Turns | Weight w/o Motor (lbs.) | Lube | | Input C-Face |
|------|-----------------|-----------------|------------------|-------------------------|------------------|----------------|--------------|
| | | | | | Adj. Spd. (gal.) | Reducer (gal.) | |
| 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 |
| 8X | NMA91F & NMA95F | 6.30 | 21 | 943 | 3.95 | 1.14 | 250TC |
| | NMA91G & NMA95G | 6.30 | 21 | 1,313 | 3.95 | 1.85 | 250TC |

Units are shipped factory lubricated.

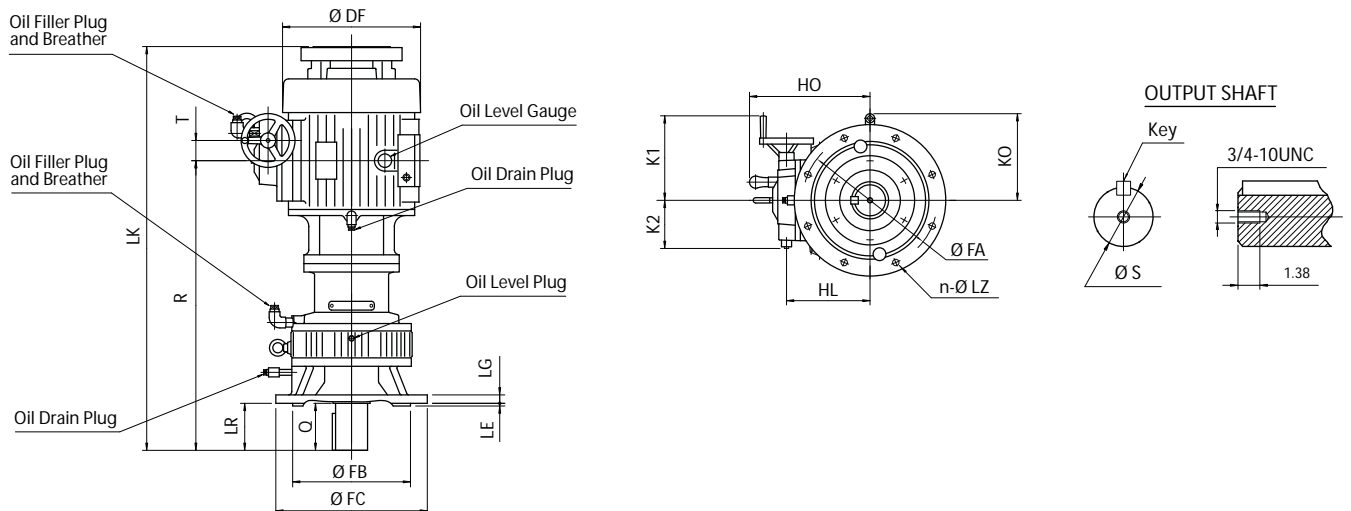
Unless otherwise noted, all lengths are in inches.

Dimensions are subject to change without notice. Contact NIDEC-SHIMPO for certified drawings for installation purposes

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



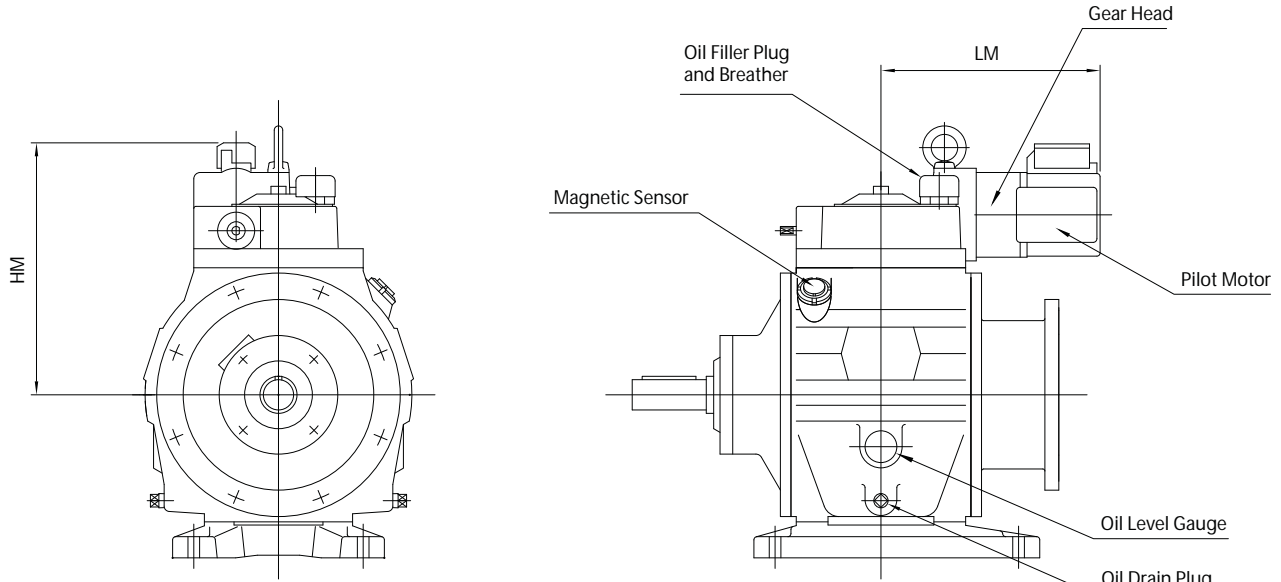
Flange Mount, Input C-Face, ER Reducer, Sizes 91-95 (8x)



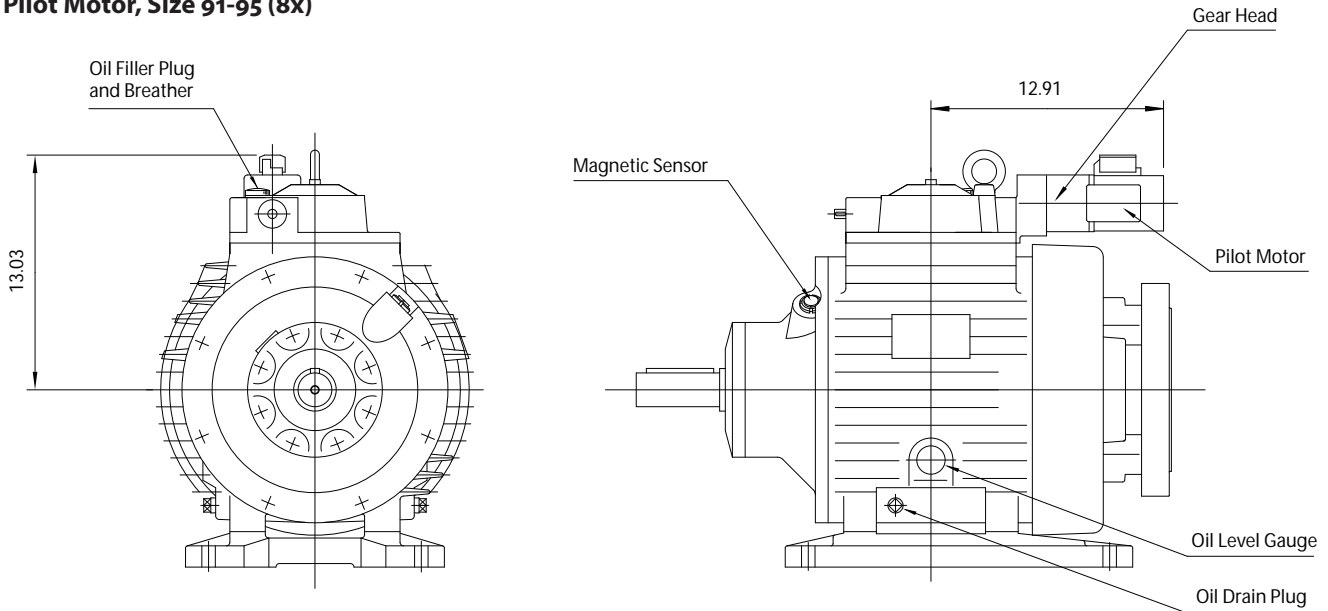
RXC SERIES Mechanical Adjustable Speed Drive

Dimensions

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



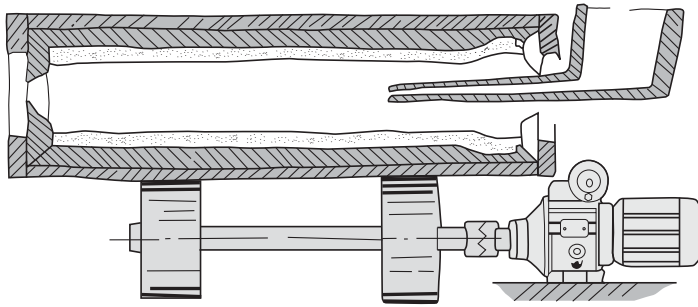
With Pilot Motor, Size 91-95 (8x)



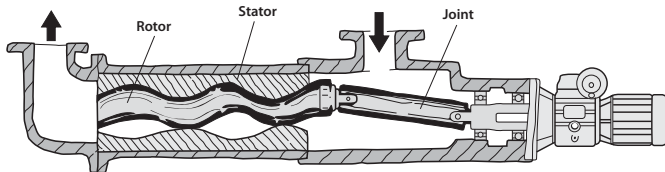
With Pilot Motor, Size 02-95 (2x-7.5x)

| Size | RX Model Number | 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 |

Applications

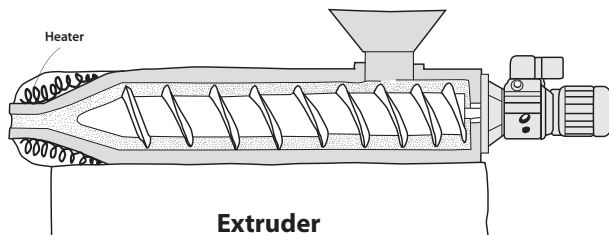


Centrifugal Casting Machine



Positive Displacement Pump

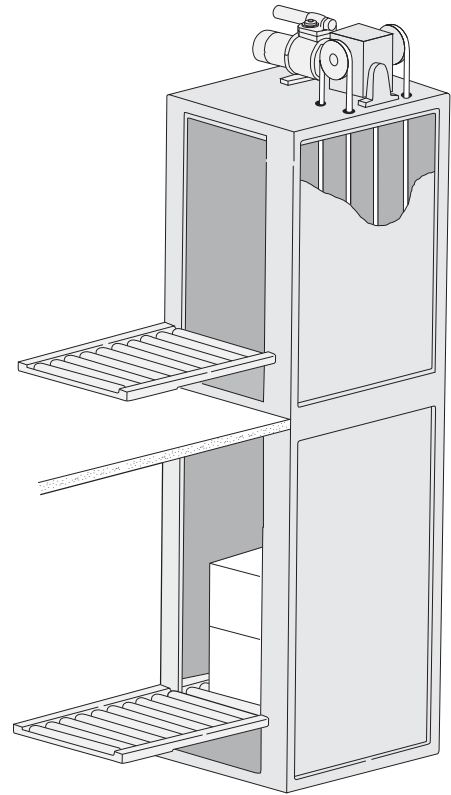
A perfect application. The RXC loves to pump thick lumpy solutions. The internal cam disc automatically compensates for clogs and jams by applying more torque. A well-known problem solver in the oilfield industry.



Extruder

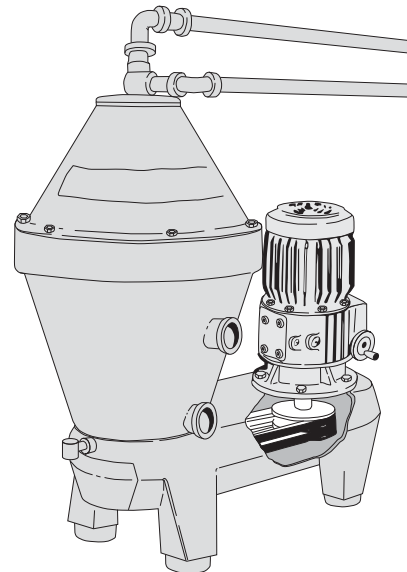
Ingredient Mixer

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. It just runs whenever you need it.



RXC SERIES Mechanical Adjustable Speed Drive

Electric Remote Control Options

The SHIMPO RXC Traction Drive is normally supplied with a simple Handwheel to control the output speed. Electric Remote Control (ERC) options are also available.

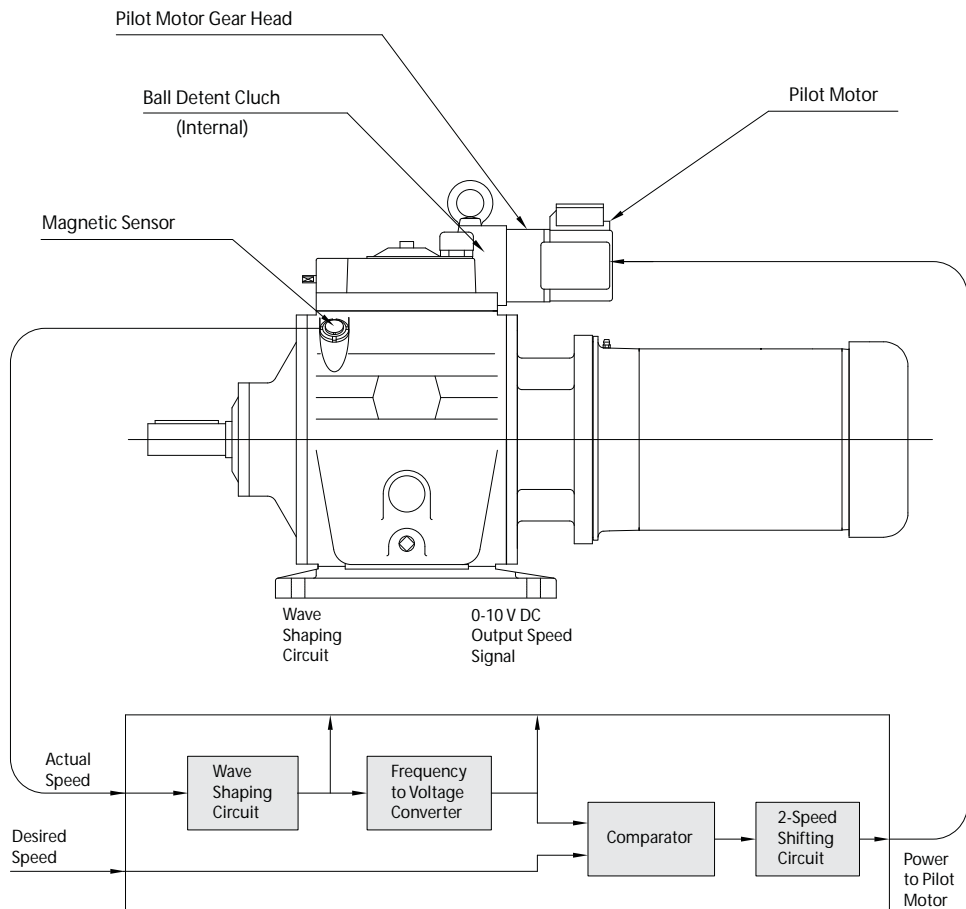
For this option, a small electric gearmotor is mounted to the speed control hardware to adjust the speed. In a simple open-loop configuration, this motor would run in a forward or reverse direction based upon a pair of pushbuttons, or PLC outputs (120VAC). This type of arrangement would normally be used if the object was to simply control the speed from a remote location. To order, request the ERC pilot motor option.

If the application requires that the set speed be maintained within 0.8% of Maximum, a closed-loop configuration is required (pictured below). For this configuration, an electronic controller accepts a set speed command (voltage or current) and monitors a pulse feedback signal from a magnetic sensor, using this information to control the movement of the electric gearmotor.

From the electronic controller, open collector electronic outputs are available which indicate an Alarm condition or an At-Speed condition. An analog voltage signal is also available, relative to actual output speed. To order, request the ERC pilot motor option and add a closed-loop controller.

Additional signal follower options are available upon request.

The following page describes the closed-loop controller hardware and features.



Electric Remote Control Options

LAB-3A-2-RXC-7 Closed-Loop Control

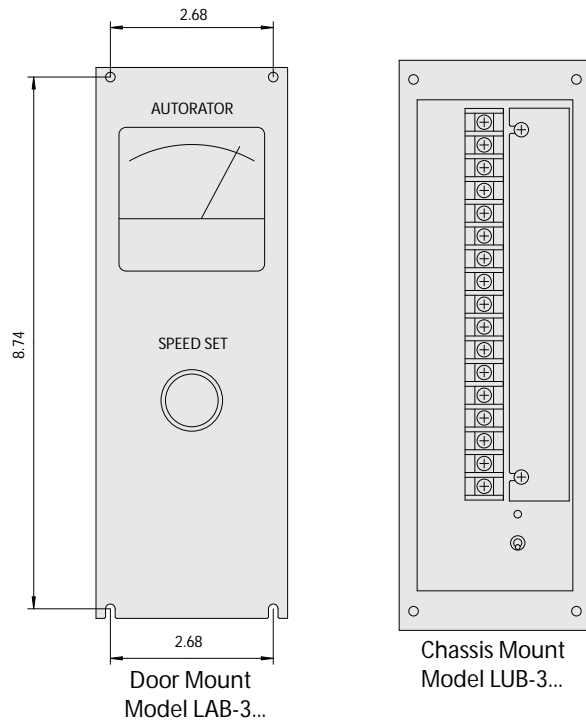
(door mounted)

LUB-3A-2-RXC-7 Closed-Loop Control

(chassis mounted)

SHIMPO's LAB and LUB closed-loop controllers provide the intelligence needed to maintain a set speed within very close tolerances (0.8% of Max speed). Both styles use the same electronics, but the LAB is door mounted and includes a speed potentiometer and analog speed meter. The LUB is "chassis" or panel mounted, and includes terminals for a potentiometer and meter (not included).

Electric Speed Controls Door/ Chassis Mount



Specifications

| | |
|---|---|
| Input Power | 110 VAC 10%, 60/50 Hz, 100V-A |
| Speed Control Signal | 1 k-ohm potentiometer 0 - 10 V DC, 10 k-ohm input impedance optional 4 - 20 mA DG, 250 ohm input impedance |
| Speed Control Accuracy | 0.8% of maximum speed (5 rpm dead band at the adjustable speed portion) |
| Controlled Speed Range | 80:1 typical (10 rpm min. speed at the adjustable speed section) |
| Speed Output Signals | 60 pulse per revolution of the adjustable speed section (TTL voltage or open collector: 28 V DC, 20 mA max.) 0 - 10 V DC, 5 mA max., proportional to output speed |
| Other Output Signals (optional) | ALARM - open collector, 28 V DC, 20 mA max. SPEED ARRIVAL - open collector, 28 V DC, 20 mA max. |
| Speed Shift Time • Size 02 through 75 • Size 91 through 96 • Size 97 and 98 | 4.1 sec at 60 Hz (5 sec at 50 Hz) 8.2 sec at 60 Hz (10 sec at 50 Hz) 12 sec at 60 Hz (15 sec at 50 Hz) |
| Front Panel Devices (LAB style) | SPEED SET potentiometer analog speed meter |

Customer Service and Support

Distinction in Service and Support

NIDEC-SHIMPO 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-SHIMPO 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-SHIMPO 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-SHIMPO 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-SHIMPO 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-SHIMPO 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-SHIMPO 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-SHIMPO 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-SHIMPO Hotline:

Toll-free: (800) 842-1479
Email: drives@nidec-shimpo.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 – 98 (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-SHIMPO 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-SHIMPO 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.

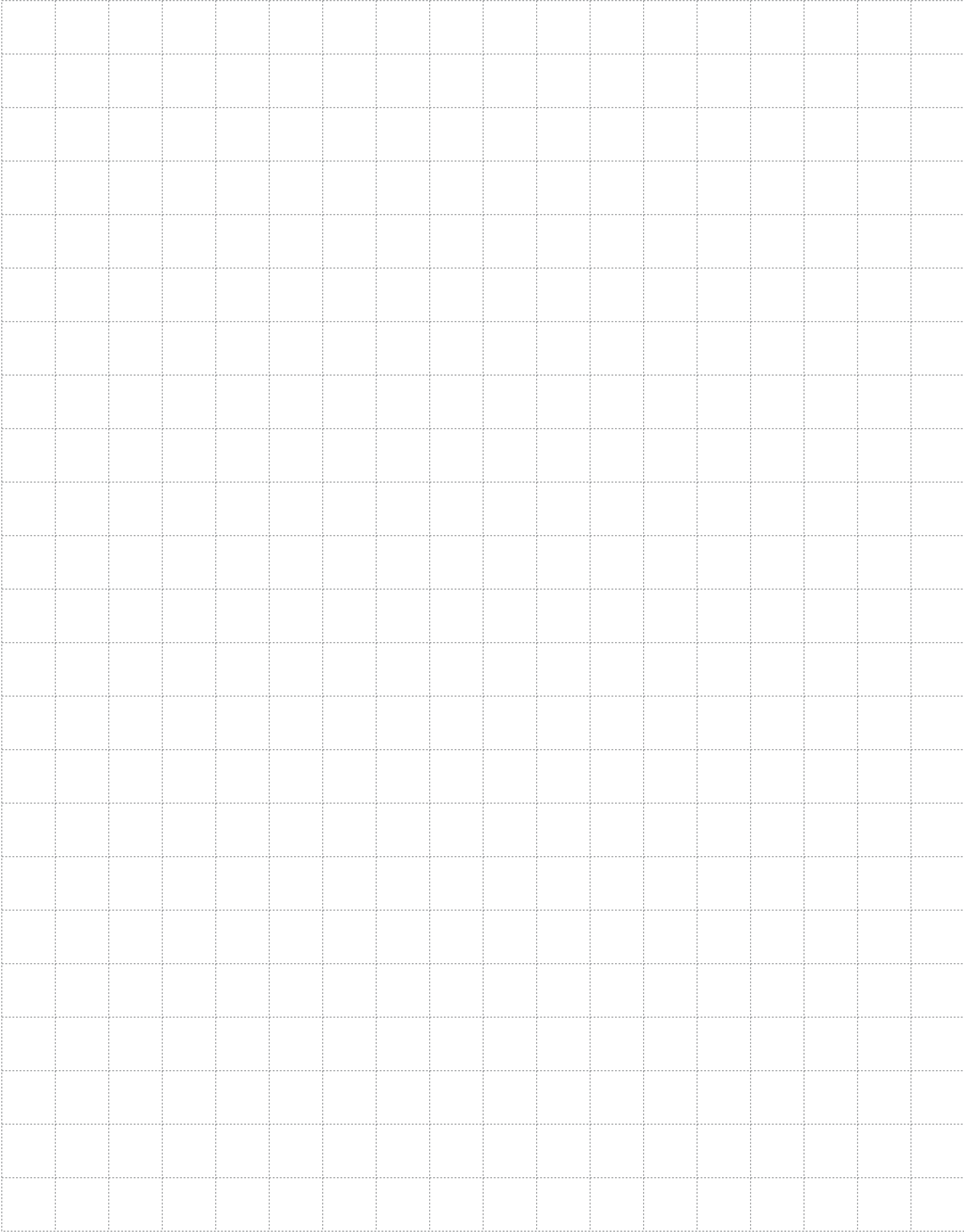
SUBMISSION AND ACCEPTANCE OF ORDERS

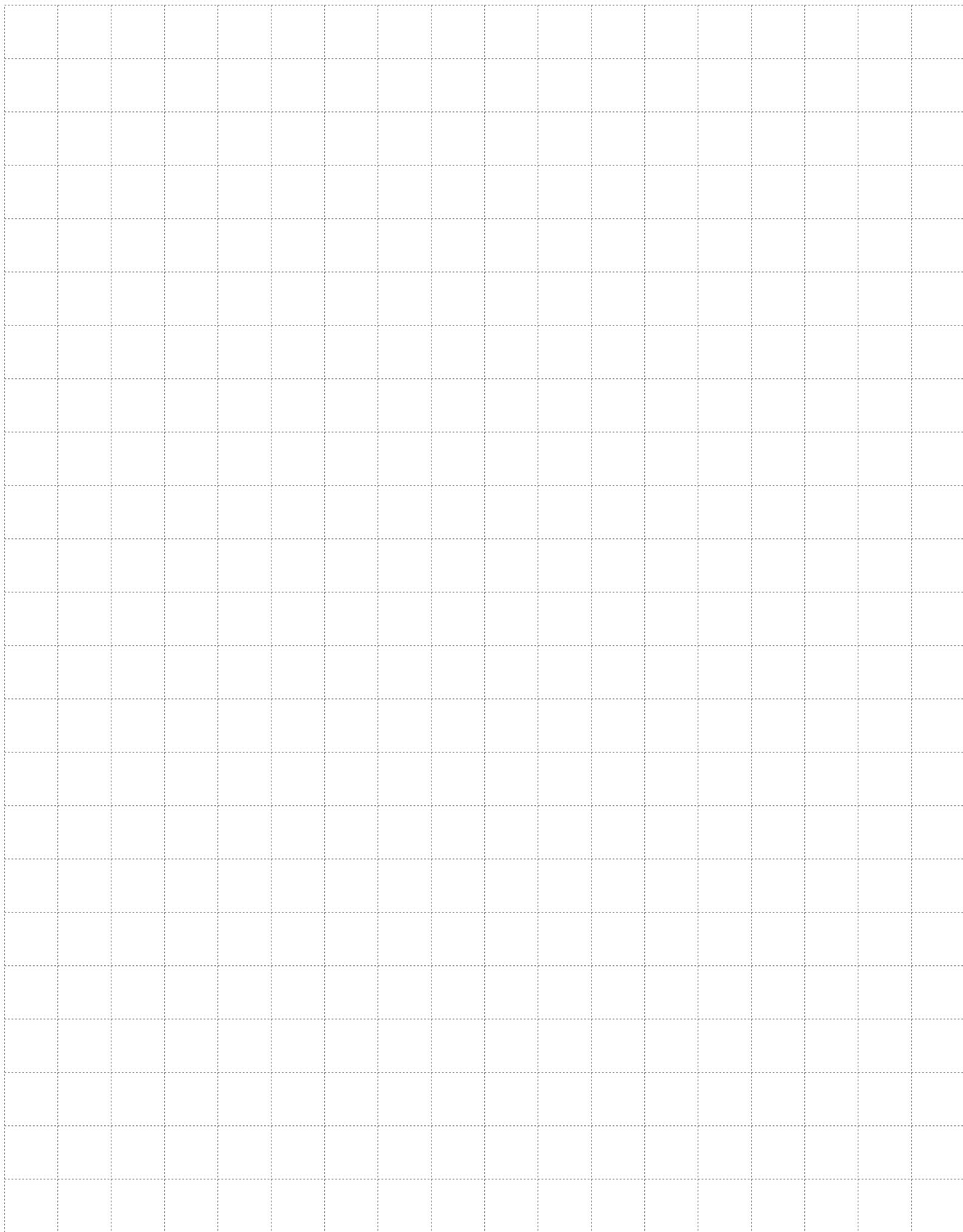
1. All orders and contracts are subject to acceptance or rejection by an officer of Seller or any individual authorized by Seller in writing, at the main offices of Seller, which approval or rejection shall in all cases be in writing to the Buyer, and no order or contract shall be binding until so accepted. 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

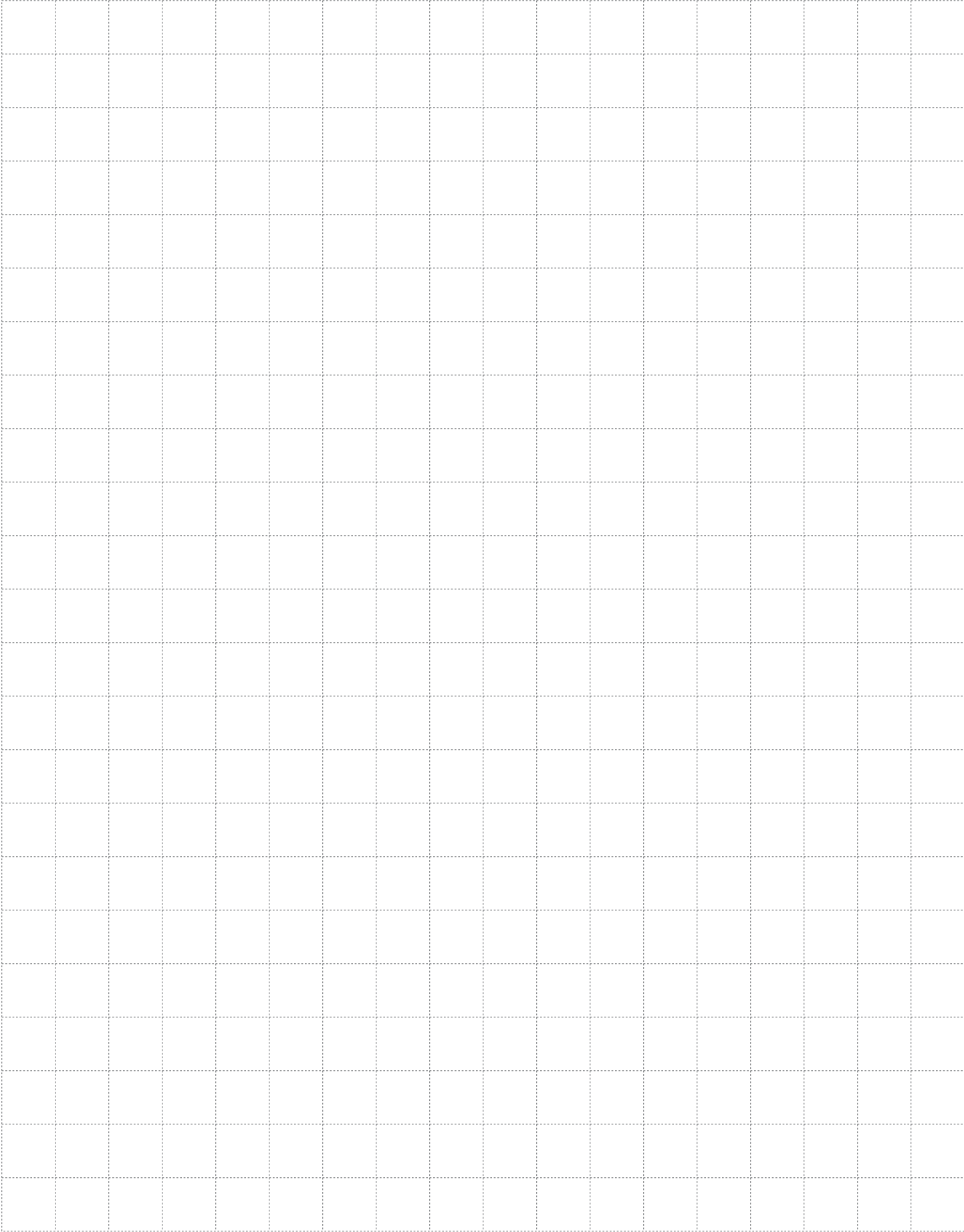
1. All shipments, from whatever source, shall be contingent upon prior approval of the order or contract by Seller, and after such prior approval, upon the effect of strikes, accidents, embargoes, priorities, or any cause natural or otherwise, beyond the control of this Seller. Seller, in effect, assumes 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.

Graph Template





Graph Template



Locations and Contact Information

Americas



NIDEC-SHIMPO AMERICA CORPORATION

1701 Glenlake Avenue
Itasca, IL 60143 USA

Sales & Customer Service
Engineering & Product
Support

Toll-free: (800) 842-1479

Local: (630) 924-7138

Fax: (630) 924-7382

drives@nidec-shimpo.com

www.drives.nidec-shimpo.com



NIDEC-SHIMPO MEXICO

Blvd. Carlos Salinas de Gortari
km. 9.5 Apodaca
Nuevo León. 66600. México



NIDEC-SHIMPO MEXICO

Parque Industrial El Marques
Circuito El Marques
Sur #12 Local 13
Mpio. El Marques Querétaro,
Mexico C.P.72646



NIDEC-SHIMPO BRASIL

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

Asia-Pacific



NIDEC-SHIMPO CORPORATION

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



NIDEC-SHIMPO (ZHEJIANG) CORPORATION

288 Ping Cheng Street
Pinghu Economic
Development Zone
Zhejiang, China



NIDEC-CORPORATION

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

NIDEC-SHIMPO (SHANGHAI)

Trading Company Ltd.
Shanghai, China

NIDEC-SHIMPO (KOREA) CORPORATION

Seoul, Korea

NIDEC-SHIMPO (TAIWAN) CORPORATION

Taichung City, China

NIDEC-SHIMPO (HONG KONG) COMPANY, LTD.

Hong Kong, China

NIDEC-SHIMPO (SINGAPORE) CORPORATION

Singapore

NIDEC-SHIMPO INDIA SALES AND TRADING

Bangalore, India

*Many other satellite sales office locations throughout Asia-Pacific.
Please contact NIDEC-SHIMPO for more information.*

www.drives.nidec-shimpo.com

Nidec

NIDEC-SHIMPO CORPORATION

1701 Glenlake Avenue, Itasca, IL 60143 USA

Phone: (800) 842-1479 • Fax: (630) 924-7382

© NIDEC-SHIMPO RXC Product Catalog 2015. All Rights Reserved.

