

GETTING STARTED



CHAPTER

1

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MANUAL OVERVIEW

OVERVIEW OF THIS PUBLICATION

The IronHorse® Shaft Mount Gearbox User Manual describes the installation, operation, and preventive maintenance of IronHorse Shaft Mount Gearboxes.

WHO SHOULD READ THIS MANUAL

This manual contains important information for people who will install, maintain, and/or operate any of the IronHorse Shaft Mount Gearboxes.

TECHNICAL SUPPORT

Our technical support group is glad to work with you to answer your questions. Please call the technical support group if you need technical assistance, or visit our web site. Our website contains technical and non-technical information about our products and our company.

By telephone: (770) 844-4200 (Mon – Fri, 9:00 am – 6:00 pm ET)

On the Web: www.automationdirect.com

SPECIAL SYMBOLS



NOTE: *When you see the “notepad” icon in the left-hand margin, the paragraph to its immediate right will be a special note which presents information that may make your work quicker or more efficient. The word “NOTE” will mark the beginning of the text as in this example.*



CAUTION: *WHEN YOU SEE THE “EXCLAMATION POINT” ICON INSIDE A YELLOW YIELD SIGN IN THE LEFT-HAND MARGIN, THE PARAGRAPH TO ITS IMMEDIATE RIGHT WILL BE A CAUTION. THIS INFORMATION IS PROVIDED TO HELP THE CUSTOMER OPERATE THE EQUIPMENT IN A SAFE MANNER. THE WORD “CAUTION” WILL MARK THE BEGINNING OF THE TEXT AS IN THIS EXAMPLE.*



WARNING: *WHEN YOU SEE THE “EXCLAMATION POINT” ICON INSIDE A RED YIELD SIGN IN THE LEFT-HAND MARGIN, THE PARAGRAPH TO ITS IMMEDIATE RIGHT WILL BE A WARNING. THIS INFORMATION COULD PREVENT INJURY, LOSS OF PROPERTY, OR EVEN DEATH (IN EXTREME CASES). ANY WARNING IN THIS MANUAL SHOULD BE REGARDED AS CRITICAL INFORMATION THAT SHOULD BE READ IN ITS ENTIRETY. THE WORD “WARNING” IN BOLDFACE WILL MARK THE BEGINNING OF THE TEXT AS IN THIS EXAMPLE.*

IRONHORSE® SHAFT MOUNT GEARBOX INTRODUCTION

PURPOSE OF SHAFT MOUNT GEARBOXES

Gearboxes, also known as enclosed gear drives or speed reducers, are mechanical drive components that can control a load at a reduced fixed ratio of the motor speed. The output torque is also increased by the same ratio, while the horsepower remains the same (less efficiency losses.) For example, a 10:1 ratio gearbox outputs approximately the same motor output horsepower, motor speed divided by 10, and motor torque multiplied by 10.

IronHorse® Shaft Mount Gearboxes feature shafts and gears manufactured from the highest grade steel, case hardened and precision ground to AGMA standards for long lasting durability. Housings are 100% cast iron to provide industrial grade protection for the life of the unit. Shafts have reinforced double lip seals to protect against contamination and prevent oil from escaping. Premium ball and tapered roller bearings provide smooth operation and lower noise. Extended gear centers ensure tooth contact and provide consistent operation. Bore type is tapered with tapered bushing kits sold separately.

IronHorse® Shaft Mount Gearboxes are manufactured in an ISO9001 certified plant by one of the leading and most internationally acclaimed gearbox manufacturers in the world today. Only the highest quality materials are tested, certified, and used in the manufacturing process. Strict adherence to and compliance with the toughest international and U.S. testing standards and manufacturing procedures assure you the highest quality products.

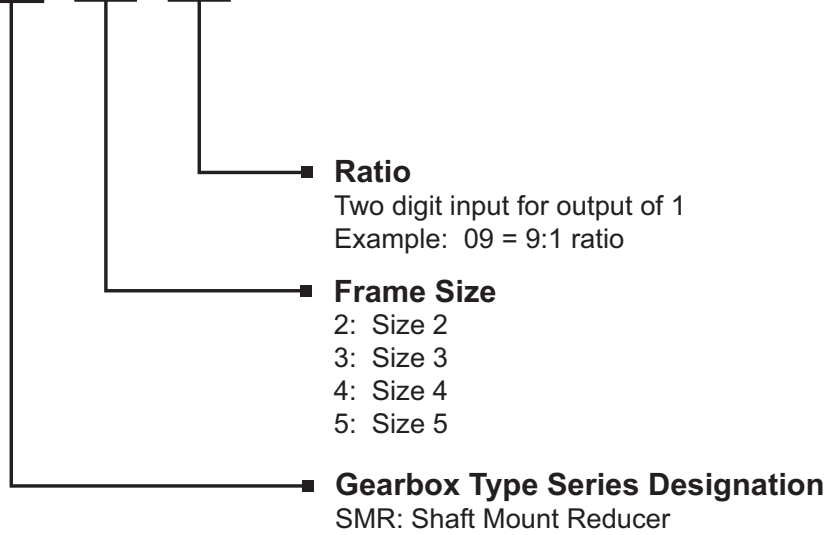
PACKAGE CONTENTS

After receiving the IronHorse® Shaft Gearbox, please check that you have a box of loose parts, which includes the following:

- *Torque arm with mounting brackets and hardware*
- *Brass vent plug*
- *Magnetic drain plug*

PART NUMBER EXPLANATION

SMR 2 - 09



NAMEPLATE INFORMATION

