1. Product Name
Architectural Hinges, Roton™ Continuous Geared Hinges and Stainless Steel Continuous Hinges

2. Manufacturer
Hager Companies
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3. Product Description

BASIC USE
A complete line of architectural hinges for a wide variety of applications, including wide-throw, electrically modified power transfer and monitoring, anchor hinges, fire-rated spring hinges, continuous hinges and more, is available.

COMPOSITION & MATERIALS
Full Mortise, Half Mortise, Full Surface, Half Surface, Swing Clear and Aluminum Entrance Hinges
These products are manufactured in a variety of materials and weights to suit standard or heavy duty applications. Two, 3- and 5-knuckle hinges are available in a variety of pin/hinge combinations of steel, brass and stainless steel. Bearing options include plain, anti-friction, concealed bearing and ball bearing. Full mortise hinges are also available in wide throw. Roton™ continuous geared hinges in aluminum and stainless steel pinned hinges are also available.

Spring Hinges
For automatic opening or closing of doors, single acting, full mortise spring hinges are available in steel or in stainless steel with stainless steel components; single acting reverse action and single acting half surface spring hinges are available in steel.

Detention Hinges
These products feature full mortise, 3-knuckles, 2 concealed bearings and investment cast hinges with optional concealed electric hinge modifications for heavy weight doors. Materials include steel with stainless steel pin or stainless steel with stainless steel pin with or without welded hospital tips. This family of hinges includes utility door hinges and pass-through door hinges for smaller doors.

Anchor Type Hinges
Three and 5-knuckle hinges for heavy weight applications are also available in a variety of pin/hinge combinations of steel, brass, and stainless steel with concealed bearing and ball bearing options.

Pivot Type Hinges
Reinforcing, Reconteur single acting rack-and-pinion, Camtrol double acting, forged bronze ball and thrust bearing heavy weight pivot hinges are designed to respond to a wide range of applications and installation configurations.

Electric Hinges
Three and 5-knuckle exposed and concealed electric hinges are available in steel, brass or stainless steel as ball bearing or anti-friction bearing. Operation options for the exposed electric hinges include contact, switch and contact/switch. Concealed electric hinge options include monitor only, through-wire only and through-wire with monitoring.

Air Transfer Hinges
Three and 5-knuckle air transfer hinges in standard or heavy weight are available in steel with steel pin, brass or stainless steel with stainless steel pin and with anti-friction bearing or ball bearing options.

Continuous Hinges
Roton continuous geared hinges and stainless steel continuous hinges are available in a variety of lengths and configurations to suit a wide range of applications.

Roton continuous hinges are constructed of 6063-T6 aluminum, a hard extrusion alloy, to minimize friction and wear, and are available as concealed leaf, full surface and half surface models. Bearing units are molded from Lubriloy® RL, an engineered nylon.

Roton is low temperature and corrosion resistant. Stainless steel continuous hinges are constructed of 14 gauge 304 stainless steel with stainless steel pins and are available as half mortise, concealed leaf, full surface and half surface. Door weight is supported by pairs of nylon 6/6 bearings between each knuckle. Roton and stainless steel continuous hinges are available with electric modifications.

ACCESSORIES
Available accessories for Hager hinge products include decorator tips, set screw sets, Molly

4. Technical Data

APPLICABLE STANDARDS
American National Standards Institute/Builders Hardware Manufacturers Association (ANSI/ BHMA)
- ANSI/BHMA A156.1 Butts & Hinges
- ANSI/BHMA A156.7 Template Hinge Dimensions
- ANSI/BHMA A156.17 Self Closing Hinges and Pivots
- ANSI/BHMA A156.18 Materials & Finishes
- ANSI/BHMA A156.25 Continuous Hinges
DOOR HARDWARE  08 71 00

Americans with Disabilities Act (ADA) Underwriters Laboratories, Inc. (UL) Underwriters Laboratories does not specifically apply UL listing to architectural hinges. Instead, their Builder’s Product Directory refers to National Fire Protection Agency (NFPA) 80 Standard for Fire Doors and Fire Windows. Roton continuous geared hinges and stainless steel continuous hinges are UL listed under UL file # R14627.

ENVIRONMENTAL CONSIDERATIONS Hager uses environmentally friendly material in its packaging where available.

PHYSICAL/CHEMICAL PROPERTIES Hager’s anti-friction bearing hinges are functionally engineered to throw the knuckle weight against specially hardened steel raceways, which in turn ride on the anti-friction bearing surfaces. The 1-piece cup protects the bearings from moisture and dust. The cup supports no weight so it is not subjected to functional friction, pressure or wear. Lateral wear is minimized since the pin is held against thrust by the hardened steel top and bottom raceways. The bearing units are securely press-fit to the leaf knuckle to prevent loss when the hinge is disassembled.

Oilite bearings are made of porous metal that has been press-formed and impregnated with oil. The slight pressure and heat generated when the door is operated cause the oil to come to the surface of the bearing, causing the surface to be slick and smooth.

Nylon bearings are made of resilient engineering plastics that provide a self-lubricant and very strong bearing surface. The nylon acts as a cushion for the door yet allows the door to flow smoothly on the surface of the nylon with an extremely low wear factor. Lubriloy RL is an engineered nylon.

5. Installation
Product installation instructions are available online at www.hagerco.com.

6. Availability & Cost
Hager provides a unique service for its worldwide distributors. The Materials Resource Planning and Distribution Resource Planning inventory systems are 2 computerized programs used to maintain distributor stock. Ordering is handled by 4 computer linked, strategically located, worldwide distribution centers. Through www.hagerco.com, a distributor search option locates distributors by region. Hager sales teams may also be located for national or interna-