**X-DRIVE OPERATORS**

- **Configurations**: Dual Arm/Narrow Dual Arm, Split Arm (Dyad), Single Arm (5.5”, 7.5”, 9.5”, 13.5”), Awning/Reduced Opening Awning
- Fully sealed operators provide water resistance
- 300 Series stainless steel and cold rolled steel options available for all operator types

- Two directional fixing standard on all operators: secures the operator in two planes for a solid connection
- Cycle tested to AAMA standards
- Operator arms cut on state-of-the-art 5-Axis lasers at our North American headquarters in Chester, Connecticut

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**Premium and Durable Finishes**

- Polished Brass
- Antique Brass
- Polished Chrome
- Brushed Chrome
- Brushed Satin Nickel
- Oil Rubbed Bronze
- White (powder coat)
- Almond
- Matte Black (powder coat)
LOCKING SYSTEM

- LH08 and LH18 handles for multi-point and single-point vinyl applications
- LH15 handle for multi-point and single-point wood and fiberglass applications
- All lock handles available in powder coat and architectural finishes to match operator
- LB08, LB06, and G2 Lock Bars for standard and impact applications
- LB08 and LB06 are available in CRS powder coat and 300 Series SS

Applications

- Patented adjustable lock points
- Preassembled guides that self-locate the lock bar on the frame
- Lock bar is designed with the ability to achieve optimal DP ratings

Roto Corner Drive Locking System

Designed to take window air/water performance and security to higher levels.

HINGES

CRS, SS, Engineered Composite

- HG06 2 bar hinge offers 4mm adjustment for proper sash alignment in field
- HG06 2 bar hinge offers premium performance to support demanding requirements in a 7/16” or 1/2” frame cavity
- 4 bar hinges offer an array of solutions for pushout casements, acoustical and light-commercial applications
- Washability and egress options available
- Friction or non-friction versions

ACCESSORIES

- Smaller box quantities are available in architectural finishes for lock handle, operator cover, and crank handle
- Sash Lifter
- Sash Limiter
- Sash Restrictor
- Various sealing gaskets
- Construction handle
- Worm caps
- Snubbers – compression and impact

MANUFACTURED AND TESTED IN THE USA

Our hardware undergoes rigorous testing, including salt spray among others, at our North American headquarters.

Test Wall  Operator Cycle Test  Salt Fog Chamber
Visit www.rotohardware.com to see our full line of window and door hardware.

**Hung Window Hardware**

**Roto Flip Lock™**
- Positive action lock for hung and sliding windows
- Innovative functionality makes operation of the lock ergonomically friendly

**Angel Ventlock™**
- Window Opening Control Device for hung and sliding windows
- Conforms to ASTM-F2090-2010
- Available in surface, side mount, and retrofit variants

**Sliding Patio Door Hardware**

- Available in two, four, and six-point lock assemblies
- Ergonomically designed interior handle set
- Available in both locking and non-locking configurations

**Tilt&Turn Hardware**

**Roto NT Designo**
- Smooth and quiet running
- Concealed (no visible hinges or cover caps) hinge solution for windows and balcony doors with heavy sash weights
- Components matched with Roto NT modular system

**Hinged Patio Door Hardware**

**Richmond Handle Sets:**
- Solid one piece forged brass handle
- Active and inactive versions
- Euro Profile Cylinder and Rim Cylinder versions available

**Roto Safe H600:**
- Connectible, multi-point locking system for aluminum patio doors
- Locks with backsets between 25-55 mm
- High quality materials and closed main lock casing for long service life

**DR10-2D Adjustable Hinge:**
- Horizontal and vertical adjustability
- Non-removable pin on all hinges for secure exterior applications
- Tested at 180 lbs for 350,000 cycles

**Specialty Door Hardware**

**Roto Patio Lift**
- Premium hardware for large lift & slide doors up to 300 kg
- High-quality zinc diecast housing and robust materials for maximum durability
- Smooth and quiet running

**Roto Patio S/Z**
- Ultimate energy and functional performance
- Permits optimum use of space, no sashes project into the room
- Integrated positive control

**Roto Patio Fold**
- Integrated positive control bi-fold door solutions for multiple panels
- Barrier-free access to terraces, conference rooms, guest rooms or business rooms