

# Important Operation and Cleaning Instructions

## Air Supply

- **DO NOT OPERATE NEW WAY PRODUCTS UNLESS AIR PRESSURE IS APPLIED!**
- Air supply **must** be free of contaminants & moisture (filtered air supply is highly recommended).

### ISO 8573.1 QUALITY CLASSES

**Recommended →**  
**Minimum Specs →**

QUALITY CLASS	DIRT (Particle size in micron)	WATER Pressure Dewpoint °F (ppm. vol.) at 100 psi g	OIL (including vapor) mg/m <sup>3</sup>
1	0.1	-94 (0.3)	0.01
2	1	-40 (16)	0.1
3	5	-4 (128)	1.0
4	15	+37.4 (940)	5
5	40	+44.6 (1240)	25
6	-	+50 (1500)	-

## New Way Porous Media® Technology

- Keep guideway and bearing surfaces clean of debris and excessive dust.
- Avoid contaminants with oil, coolant or other fluids.
- If needed, clean porous media and guide surfaces with 60 psi (0.41 MPa) air pressure applied. Never clean with air pressure off.
- Clean using ONLY 70% Isopropanol (Isopropyl Alcohol).
- Do not clean bearings or guide surfaces with ketones.
- Clean by applying 70% Isopropanol to a clean, dry cloth and wiping guide surfaces or bearing surfaces as shown in figure to the right.
- After cleaning allow the Isopropanol to evaporate completely.
- Also allow guide surfaces to dry completely before passing bearings over the cleansed areas.



**NEWWAY®**  
air bearings

# Product-Specific Instructions



## Air Bearings

- If needed, clean flat round or rectangular air bearing and guide surfaces.
- Clean with 60 psi (0.41 MPa) air pressure applied, using **ONLY 70% Isopropanol (Isopropyl Alcohol)**. Never clean with air pressure off.
- Do not clean bearing surfaces or guideways with ketones.
- Clean by applying 70% Isopropanol to a clean, dry cloth and wiping surfaces.
- Allow the Isopropanol to evaporate completely from the porous media and guide surfaces before passing bearings over cleansed areas.



## Linear Slides

- If needed, clean air bearing slide truck and guide surfaces.
- Clean with 60 psi (0.41 MPa) air pressure applied, using **ONLY 70% Isopropanol (Isopropyl Alcohol)**. Never clean with air pressure off.
- Do not clean bearing surfaces or guideways with ketones.
- When removing slide unit from rail, the slide must be removed **with 60 psi (0.41 MPa) air pressure applied**. It is strongly recommended that the slide unit not be removed from the rail. If removed, be sure to reassemble in same orientation.
- **Do not** apply slide unit to any rail other than the one on which it was provided.
- Clean by applying alcohol to a clean, dry cloth and wiping surfaces.
- Allow guide surfaces to dry completely before using bearings over cleansed areas.



## Air Bushings

- If needed, clean bushings and shaft surfaces.
- Clean with 60 psi (0.41 MPa) air pressure applied, using **ONLY 70% Isopropanol (Isopropyl Alcohol)**. Never clean with air pressure off.
- Do not clean bearing surfaces or shafts with ketones.
- Clean by applying 70% Isopropanol to a clean, dry cloth and wiping surfaces.
- When inserting bushing into mounting block, take care to not pinch or deform O-Rings. Use 70% Isopropanol on O-Rings to ease application. Do not allow O-Rings to "catch" inside mounting block. Deformed or damaged O-Rings will adversely affect bushing performance.
- After cleaning or insertion into mounting block, apply 60 psi (0.41 MPa) air pressure and allow Isopropanol to evaporate completely before using bushings.



## Shafts

- If needed, clean shafts thoroughly prior to installing porous carbon media air bushings.
- The protective layer of oil must be completely removed from shaft prior to installation of New Way air bushings.
- Clean with **70% Isopropanol (Isopropyl Alcohol)**.
- Do not clean shafts with ketones.
- Clean by applying 70% Isopropanol to a clean, dry cloth and wiping shaft surfaces.
- Allow the Isopropanol to evaporate completely before passing bushings over cleansed shafts.



## VPL Air Bearings

- If needed, clean vacuum preloaded air bearings (VPLs) and guide surfaces.
- Clean with 60 psi (0.41 MPa) air pressure applied, using **ONLY 70% Isopropanol (Isopropyl Alcohol)**. Never clean with air pressure off.
- Do not clean VPL bearing surfaces or guideways with ketones.
- Clean by applying 70% Isopropanol to a clean, dry cloth and wiping surfaces.
- Allow the Isopropanol to evaporate completely from the porous media and guide surfaces before passing vpl air bearings over cleansed areas.



## Radial Air Bearings

- If needed, clean radial air bearings and guide surfaces.
- Clean with 60 psi (0.41 MPa) air pressure applied, using **ONLY 70% Isopropanol (Isopropyl Alcohol)**. Never clean with air pressure off.
- Do not clean radial air bearing surfaces or guideways with ketones.
- Clean by applying Isopropanol to a clean, dry cloth and wiping surfaces.
- Allow the Isopropanol to evaporate completely from the porous media and guide surfaces before using New Way radial air bearings over cleansed areas.

**NEWWAY®**  
air bearings

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