



# L.M76

## Linear Motion Bearings

**FDA/USDA/3A Dairy/Wash Down Compliant  
Sliders and Corro-Slick™ Coated  
300 Stainless Rails**

# WDA



**Linear sliders and rails made for food  
process, bio-pharma, water/submerged, freezer  
and outdoor applications**



# What is WDX?

**WDX is:**

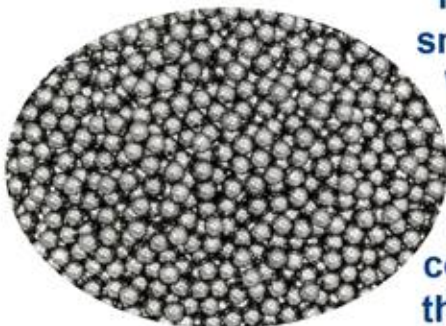
**Self-Lubricating**  
**Low Coefficient of Friction**  
**Wear Resistant**  
**3 x's the Abrasion Resistance of Steel**  
**Chemical and Caustic Washdown Resistant**  
**Does not Absorb Water/Liquids**  
**Resists Materials and Media Adhering to its Surfaces**  
**FDA, USDA and 3A Dairy Compliant**  
**Quiet/Vibration Free Operation**

# What is Corro-Slick-Shield?

Corro-Slick-Shield is a thin, uniform coating for stainless steel WD1&2 Rail. It is exceptionally corrosion resistant, wear resistant and because of its microstructure, reduces friction. Corro-Slick-Shield is FDA/USDA/3A Dairy compliant and can withstand the most aggressive chemicals and caustic foaming agents.



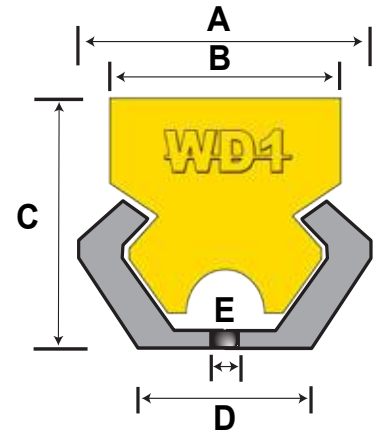
**Hardness:  
Rc78**



If you view Corro-Slick-Shield's surface through a microscope you will note the surface is populated by small, extremely hard spheres. The spheres change the WD block and rail from a straight line-to-line contact scenario to a line to point contact. This inhibits "sticktion" associated with sliding systems - producing a meaningful reduction in the dynamic coefficient of friction. Another quality of the spheres is that they realign under rail deflection, the coating does not crack or suffer from micro-fractures.

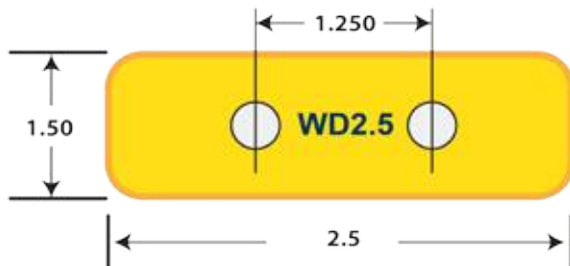
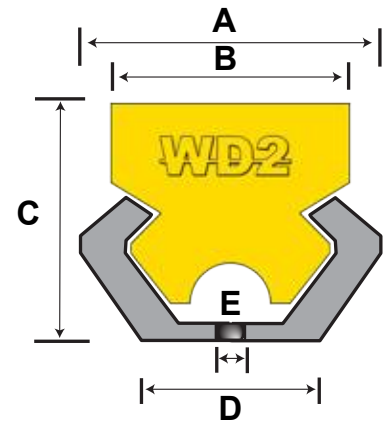
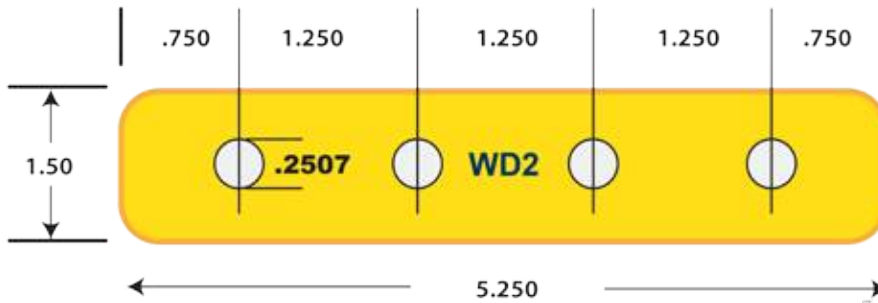
## WD1 Slider

A	B	C	D	E
1.02	1.00	1.00	.750	.255

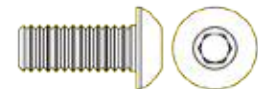


## WD2 & 2.5 Sliders

A	B	C	D	E
1.55	1.50	1.125	1.125	.354

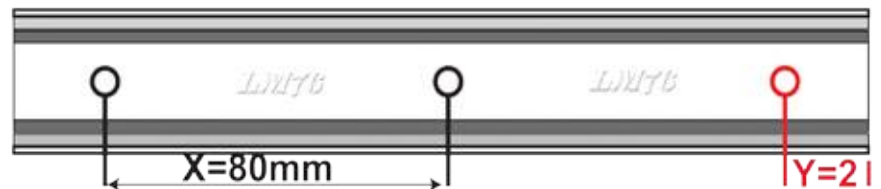


E Rail Mounting Screw Type Standard ISO 7380 Screws		
WD1	M5	Button Head
WD2	M8	Button Head



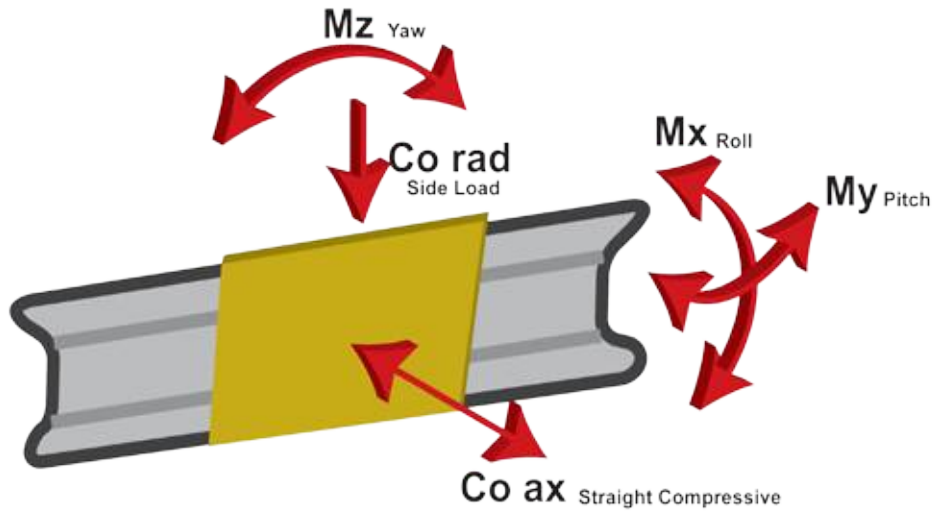
**Rail Option 1:** 303 Stainless  
**Rail Option 2:** Corro-Slick-Shield  
 Please designate in P/N (see page 3)

Hole Mounting pitch for both the WD1 and WD 2 Rail is 80mm.  
 Cut-to-size rails: the first mounting hole from each end will be evenly spaced. Y=2



All WD Water Dog Sliders are shipped with stainless steel 1/4-20 nuts installed per image on left.

# WDX LOAD DATA



## WD1

CO rad	Co ax	Mx ft-lbf	My ft-lbf	Mz ft-lbf
179	89	2.2	6.6	8.8

## WD2

CO rad	Co ax	Mx ft-lbf	My ft-lbf	Mz ft-lbf
258	178	6.6	17	23

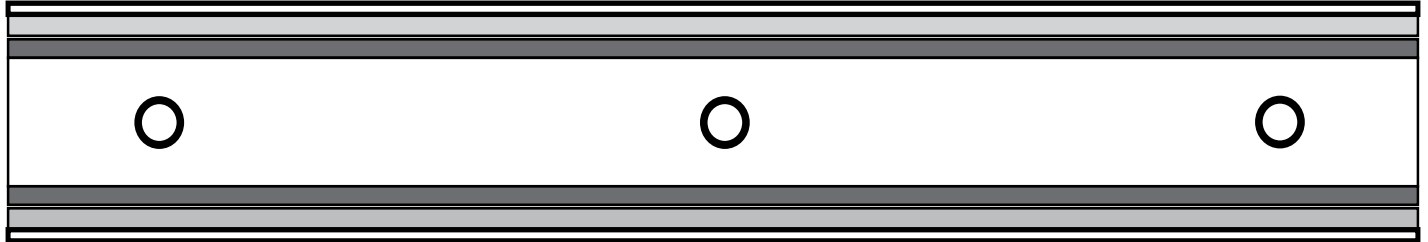
## WD2.5

CO rad	Co ax	Mx ft-lbf	My ft-lbf	Mz ft-lbf
129	89	3.3	9	11

# Rail & Slider Ordering



## Rail Ordering



### WDX Water Dog Slider Rails have 2 options:

1. 303 Stainless Steel
2. 303 Stainless Steel with Corro-Slick-Shield Coating for additional hardness, lubricity and corrosion resistance
3. Both are FDA/Washdown Compliant

### Rail Ordering Part Numbers:

WDR1 x Length	Size 1 Standard 300 Series Stainless Steel
WDR1CSS x Length	300 Series Stainless with Corro-Slick-Shield Coating
WDR2 x Length	Size 2 Standard 300 Series Stainless Steel
WDR2CSS x Length	300 Series Stainless with Corro-Slick-Shield Coating

## Slider Ordering

### WDX Water Dog Sliders are available in 3 Sizes:

1. WD1
2. WD2
3. WD2.5



### Slider Ordering Part Numbers:

1. WD1
2. WD2
3. WD2.5.

NOTE: Sliders and rails are sold separately.

# WD Applications



**Liquid Filling**



**Frozen Fruits**



**Dairy Systems**



**Frozen Vegetables**



**Washing Systems**



**Marine Systems**



## **The powerful simplicity of WDX Technology**

**WDX Technology features a tough polymer that has 3x's times the abrasion resistance of steel, is self-lubricating, can withstand outdoor environments, caustic chemical washdowns, complete submersion, is FDA/USDA/3A Dairy compliant and makes water, frost and ice look like top shelf lubricants.**

**WDX Slider Blocks together with LM76's Corro-Slick-Shield Stainless Rails create a low friction, low profile, corrosion resistant option for every engineer who designs packaging machinery, food process, medical, bio-pharma and systems.**