



# DryLin® R Hard-Anodized Shafts

igus® DryLin® R hard-anodized shafts were specifically developed as the optimal sliding surface for DryLin R linear bearings. Available in four diameters and three lengths of both round shafting and fully supported shafting.

## Features

- 6061-T6 aluminum hard-anodized to 450-550 HV surface hardness
- Round and fully supported styles
- Four diameters and three lengths up to 1000mm
- Best choice of shafting to use with DryLin R bearings



| igus® DryLin® R Hard-Anodized Shafts |                                |            |                 |             |                        |                  |                  |                     |          |                     |
|--------------------------------------|--------------------------------|------------|-----------------|-------------|------------------------|------------------|------------------|---------------------|----------|---------------------|
| Item Photo                           | Part Number                    | Shaft Type | Diameter (inch) | Length (mm) | Material               | Surface Hardness | Qty. per Package | Weight (lb)         | Price    | Drawing Link        |
|                                      | <a href="#">A-AWUI-08-250</a>  | Supported  | 1/2             | 250         | Hard-anodized aluminum | 450-550 HV       | 1                | 0.54                | \$20.00  | <a href="#">PDF</a> |
|                                      | <a href="#">A-AWUI-08-500</a>  |            |                 | 500         |                        |                  | 1                | 1.07                | \$37.00  | <a href="#">PDF</a> |
|                                      | <a href="#">A-AWUI-08-1000</a> |            |                 | 1000        |                        |                  | 1                | 2.13                | \$73.00  | <a href="#">PDF</a> |
|                                      | <a href="#">A-AWUI-12-250</a>  |            | 3/4             | 250         |                        |                  | 1                | 0.92                | \$26.50  | <a href="#">PDF</a> |
|                                      | <a href="#">A-AWUI-12-500</a>  |            |                 | 500         |                        |                  | 1                | 1.85                | \$51.00  | <a href="#">PDF</a> |
|                                      | <a href="#">A-AWUI-12-1000</a> |            |                 | 1000        |                        |                  | 1                | 3.67                | \$104.00 | <a href="#">PDF</a> |
|                                      | <a href="#">A-AWUI-16-250</a>  |            | 1               | 250         |                        |                  | 1                | 1.23                | \$31.00  | <a href="#">PDF</a> |
|                                      | <a href="#">A-AWUI-16-500</a>  |            |                 | 500         |                        |                  | 1                | 2.46                | \$61.00  | <a href="#">PDF</a> |
|                                      | <a href="#">A-AWUI-16-1000</a> |            |                 | 1000        |                        |                  | 1                | 4.92                | \$124.00 | <a href="#">PDF</a> |
|                                      | <a href="#">A-AWI-04-250</a>   | Round      | 1/4             | 250         |                        |                  | 1                | 0.05                | \$11.00  | <a href="#">PDF</a> |
|                                      | <a href="#">A-AWI-04-500</a>   |            |                 | 500         |                        |                  | 1                | 0.10                | \$19.00  | <a href="#">PDF</a> |
|                                      | <a href="#">A-AWI-04-1000</a>  |            |                 | 1000        |                        |                  | 1                | 0.20                | \$39.00  | <a href="#">PDF</a> |
|                                      | <a href="#">A-AWI-08-250</a>   |            | 1/2             | 250         |                        |                  | 1                | 0.19                | \$12.50  | <a href="#">PDF</a> |
|                                      | <a href="#">A-AWI-08-500</a>   |            |                 | 500         |                        |                  | 1                | 0.39                | \$23.00  | <a href="#">PDF</a> |
|                                      | <a href="#">A-AWI-08-1000</a>  |            |                 | 1000        |                        |                  | 1                | 0.77                | \$46.00  | <a href="#">PDF</a> |
|                                      | <a href="#">A-AWI-12-250</a>   |            | 3/4             | 250         |                        |                  | 1                | 0.43                | \$18.00  | <a href="#">PDF</a> |
|                                      | <a href="#">A-AWI-12-500</a>   |            |                 | 500         |                        |                  | 1                | 0.87                | \$33.50  | <a href="#">PDF</a> |
|                                      | <a href="#">A-AWI-12-1000</a>  |            |                 | 1000        |                        |                  | 1                | 1.73                | \$66.00  | <a href="#">PDF</a> |
|                                      | <a href="#">A-AWI-16-250</a>   |            | 1               | 250         | 1                      | 0.77             | \$24.50          | <a href="#">PDF</a> |          |                     |
|                                      | <a href="#">A-AWI-16-500</a>   |            |                 | 500         | 1                      | 1.53             | \$46.00          | <a href="#">PDF</a> |          |                     |
|                                      | <a href="#">A-AWI-16-1000</a>  |            |                 | 1000        | 1                      | 3.05             | \$93.00          | <a href="#">PDF</a> |          |                     |



## DryLin® Shafting

- Available in supported versions
- Aluminum for low weight
- Diameters 1/2 - 1 inch

# DryLin® Shafts



The "all-rounder" – iglide® J



The specialist – iglide® J200



The extreme – iglide® T500 (X)\*



The marathon runner – iglide® E7



FDA compliant – iglide® A180

|                                    | The "all-rounder" – iglide® J       | The specialist – iglide® J200       | The extreme – iglide® T500 (X)*                       | The marathon runner – iglide® E7    | FDA compliant – iglide® A180        |
|------------------------------------|-------------------------------------|-------------------------------------|---|-------------------------------------|-------------------------------------|
| Optimal shaft material(s)          | all shaft materials                 | Aluminum, hard anodized             | Hardened stainless steel<br>Hard chromed plated steel | Steel<br>stainless steel shaft      | all shaft materials                 |
| Application temperature            | -40°F to +194°F<br>(-40°C to +90°C) | -40°F to +194°F<br>(-40°C to +90°C) | -148°F to +482°F<br>(-100°C to +250°C)                | -40°F to +194°F<br>(-40°C to +90°C) | -40°F to +194°F<br>(-40°C to +90°C) |
| Best coefficient of friction with  | Steel shaft                         | Aluminum, hard anodized             | Steel, hard chrome-plated, SS                         | Steel<br>stainless steel shaft      | Stainless steel shaft               |
| Maximum life time                  | Aluminum, hard anodized             | Aluminum, hard anodized             | Hardened stainless steel                              | Steel<br>stainless steel shaft      | Stainless steel shaft               |
| Permissible stat. surface pressure | 35 MPa                              | 23 MPa                              | 150 MPa   | 18 MPa                              | 28 MPa                              |
| Moisture absorption                | 1.3% weight                         | 0.7% weight                         | 0.5% weight   | < 0.1% weight                       | 0.2% weight                         |
| Volume resistance                  | > 10 <sup>13</sup> Ωcm              | > 10 <sup>8</sup> Ωcm               | < 10 <sup>5</sup> Ωcm                                 | > 10 <sup>9</sup> Ωcm               | > 10 <sup>12</sup> Ωcm              |
| Part No.                           | JUM-...                             | J200UM-...                          | TUM-.../XUM-...                                       | E7UM-...                            | A180UM-...                          |

## Available shaft materials:

### Aluminum

- Ideal in combination with liners made from iglide® J/J200
- Lightweight
- Lower wear
- Corrosion resistant
- Available from stock

### Steel

- Ideal with E7 liner
- Low-priced standard
- High load capacity
- Dry area applications
- Hard chrome-plated also available
- Lower coefficient of friction against plastic bearings

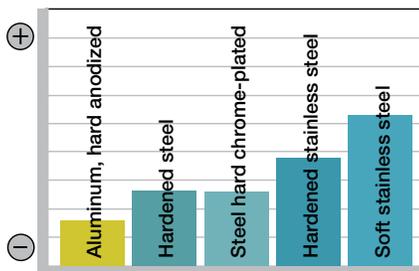
### Stainless steel

- Ideal with E7 liner
- High corrosion resistance
- High chemical resistance
- Ideal solution for wet applications
- 300 series for extremely chemical intensive applications



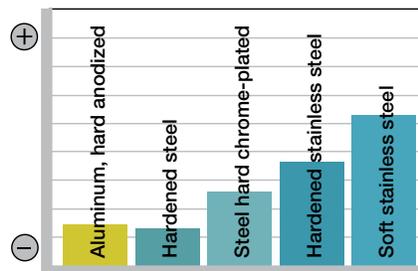
Please remember that this is a technical surface. Small color variations are possible due to variable coating depths.

Wear



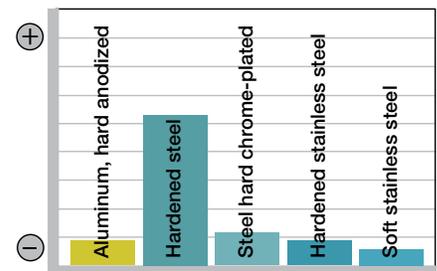
iglide® J against particular shaft materials

Coefficient of friction



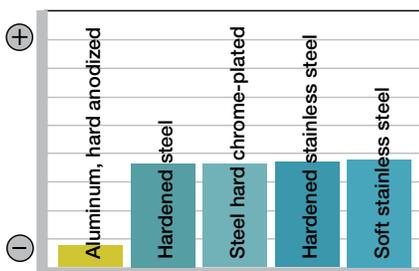
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Corrosion

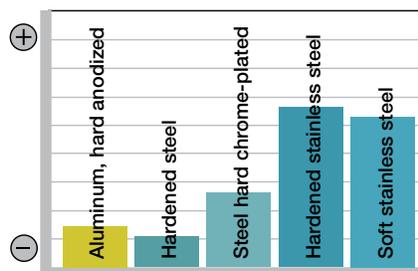


iglide® J against particular shaft materials

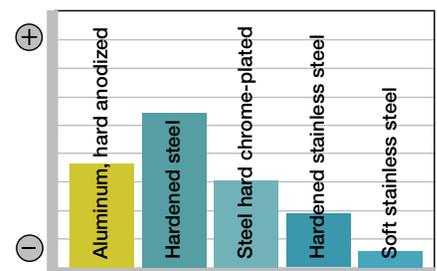
Weight



Costs



Chemical contamination



\*X is the European equivalent material for iglide® T500