



DOUBLE E
G R O U P



IDLER ROLLERS DEAD & LIVE SHAFT

Aluminum, Carbon Fiber, Steel & Stainless Steel

- Diameters up to 12" and Lengths up to 200"
- Offered with a Variety of Coatings, Coverings, and Surface Treatments

Every web handling system depends on one critical component that is often overlooked—the idler roller. From maintaining web tension and tracking accuracy to reducing vibration and maximizing line speeds, the right roller can have a measurable impact on productivity, product quality and overall machine performance. At Double E Group, we've spent decades engineering rollers that perform reliably in the world's most demanding converting environments.

Whether your application calls for lightweight aluminum, high-strength steel, corrosion-resistant stainless steel or advanced carbon fiber composite construction, Double E Group delivers precision-engineered idler rollers designed specifically for your process. Available in dead shaft and live shaft configurations with a wide range of surface treatments, coverings and custom options, every roller is built to provide exceptional performance, long service life and the consistency today's high-speed production lines demand.



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Idler Rollers

Double E offers various roller configurations to match the requirements of any application. Each roller is configured as a dead shaft or live shaft model depending on the application specifications.

Aluminum Rollers - Standard & Lightweight

Aluminum rollers are suitable for most common applications, offering a lightweight, low inertia solution. These popular rollers are all statically and dynamically balanced to meet or exceed the customer's application requirements, and machined to precision tolerances for minimal runout and then polished for a smooth surface finish. Rollers can be delivered with various roller coverings and coatings, including hard anodization which gives the roller surface excellent wear resistance.

Standard Aluminum - *Thick-wall (1/2") aluminum tube*



Lightweight Aluminum - *Thin-wall (1/4") aluminum tube*

Lightweight aluminum rollers are ideal for lighter tension applications where deflection is not problematic and less rotational inertia is important.

Carbon Fiber Composite Rollers

Composite idlers are ideal for running wider, lighter webs at higher critical speeds. They are as light as possible to ramp up to speed faster, stop more quickly, and maintain line speed better than heavier rollers.



- 75% - 80% lower rolling inertia than comparable standard aluminum.
- 85% - 90% lower total weight than comparable standard aluminum.
- Bearing assemblies have minimal breakaway torque and rolling drag.
- Resistant to corrosive environments
- Reduced maintenance costs.
- Better tension control
- Surface resists denting.

Ultra thin-wall tube (carbon fiber composite)

Composite dead shaft rollers can be converted easily to live shaft rollers by using bolt-on live shaft journals.

Made for medium to low web tension applications, these rollers can be offered with ER style bearings and a through shaft or removable bearing carriers with steel stub shafts. The bearing carriers decrease bearing replacement time and lower the weight of the assembly.



Steel and Stainless Steel Rollers

Steel idlers offer high strength and performance in applications with wide webs, fast line speeds, and/or high web tension. Steel rollers have a higher critical speed than aluminum rollers (due to their superior stiffness), but they are heavier with greater rotational inertia.

All steel and stainless steel idlers are dynamically balanced and machined to precision tolerances for minimal runout and then polished for a smooth surface finish.

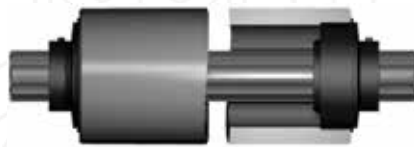
Standard Steel

- Three times the stiffness of aluminum rolls
- Higher tensile strength and surface hardness than aluminum

Stainless Steel

- All of the same characteristics as steel, with superior corrosion and abrasion resistance
- Well-suited for food and medical applications

Dead Shaft and Live Shaft Models



Dead Shaft

Roller rotates using special ER bearings on a fixed inner shaft.



Live Shaft

Entire roller spins together.

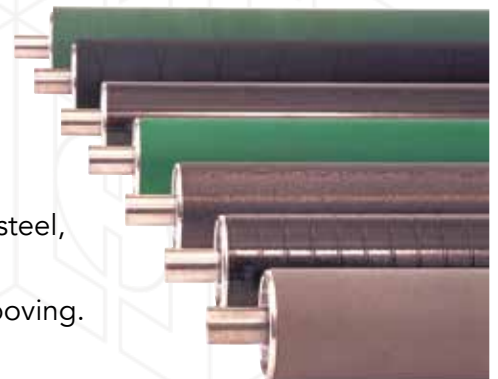
Bolt on journals for live shafts are offered standard on most applications for easy journal replacement.

Live shaft journals are custom manufactured according to customer specifications. This type of roller can be used as an idler or it can be driven.

Dead shafts can be supplied with or without central shaft.

Surface Treatments and Coverings

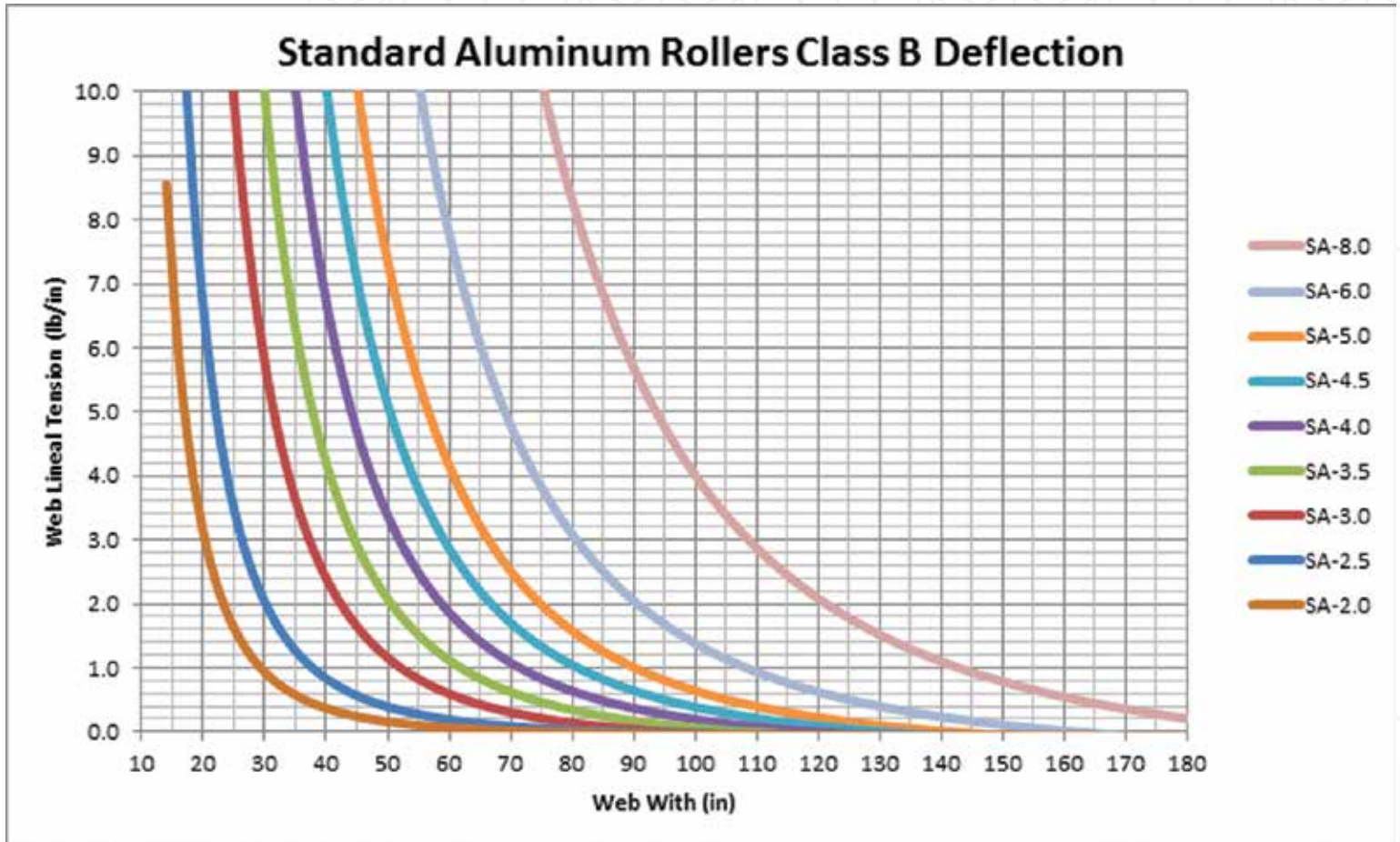
- Standard and custom coverings available including polyurethane, rubber, felt, cork, and silicone.
- Surface treatments include hardcoat anodized aluminum, chrome plated steel, plasma coating, and a variety of other types.
- Machined surfaces include reverse crowns, spiral grooving, and micro-grooving.



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Roller Sizing

Our engineers will help to specify the proper roller type and size for any application. The chart below helps with sizing of standard aluminum rollers at various diameters, according to web width and linear tension. Chart Key: SA = Standard Aluminum - followed by roller diameter.



*Available in diameters up to
12" and lengths up to 200"*

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