



### CLASSIC & LOW-INERTIA DEAD SHAFT IDLER ROLLS



Dover Flexo Electronics' precision-machined idler rolls are manufactured to exacting standards and are perfectly suited for installation on web presses and converting machinery.

Classic dead shaft idler rolls are available in 3, 4, 5 and 6 inch diameters. The classic idler design incorporates substantial roll shell wall thickness, able to manage high tension applications or periodic resurfacing.

Low-inertia dead shaft idler rolls are available in 3

inch diameter and are a good fit for webhandling applications that may experience rapid speed changes, involve highly-extensible substrates or require the lowest possible break-away torque.

DFE idler rolls are a natural fit for use with shaft-mounted load cells such as Model C transducers. This high-performance combination delivers tension measurement free from the influence of improperly balanced or engineered rolls, providing maximum tension system stability.

## STANDARD FEATURES

- 16 RMS or better roll finish
- 1.25" diameter TGP steel shaft (Classic)
- .75" diameter stainless steel shaft (Low-Inertia)
- Shielded bearings
- Balanced to G 2.5 at 500 RPM (or as specified)

## OPTIONAL FEATURES

- Drilled & tapped shaft ends, specify thread size
- Flats on shaft ends, with radial holes
- Custom roll surface finishes and treatments

## AVAILABLE ROLL FACE WIDTHS

Type	Diameter (inches)	Roll Face (inches)												
		18	24	30	36	42	48	54	60	66	72	78	84	
IRL	3	■				Cantilevered with Flange - 20" Maximum Length								
		■				End-To-End Supported - 36" Maximum Length								
IR	3	■												
IR	4	■												
IR	5	■												
IR	6	■												

## HOW TO ORDER

You may order by description or by indicating your feature choices in place of the X's in the product code shown below.

**Example: IR4 - 60 - 68 - D&T**

Classic Idler, 4" Diameter, 60" Roll Face, 68" Shaft Length, Drilled & Tapped Shaft Ends

XX                    X   -   X   -   X   -                    **OPTIONS**  
(Separated by Commas)

ROLL TYPE	ROLL O.D.	ROLL FACE	SHAFT LENGTH	OPTIONS
IR (Classic)	3	SPECIFY	SPECIFY	D&T = Drill & Tap (Specify Thread)
IRL (Low-Inertia)	4 <sup>1</sup>		<i>See page 3 for minimum and maximum shaft lengths.</i>	FL = Flange Mount (Cantilevered) <sup>2</sup>
	5 <sup>1</sup>			MF = Milled Flats
	6 <sup>1</sup>			NLB = Non-Lubricated Bearings
				OB = Oiled Bearings
				Z = Special (SPR)

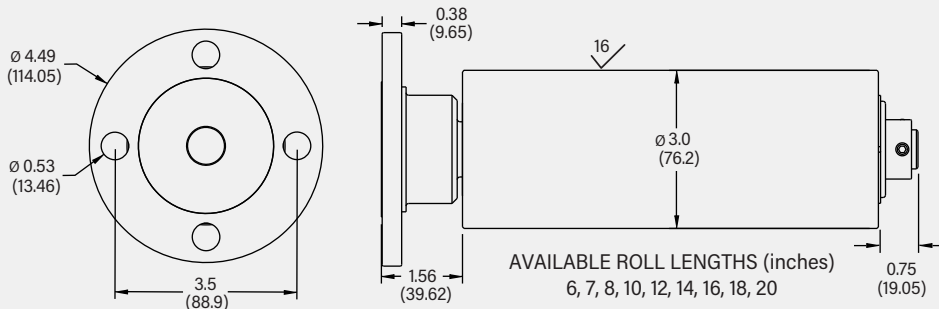
**NOTE:** 1. Diameter only available with classic-type roll.

2. Flange option only available with low-inertia type roll. 20 inch maximum face length.

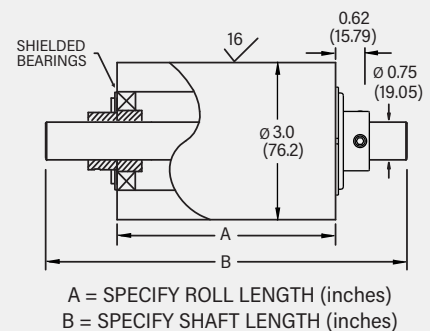
## DIMENSIONS

inches (mm)

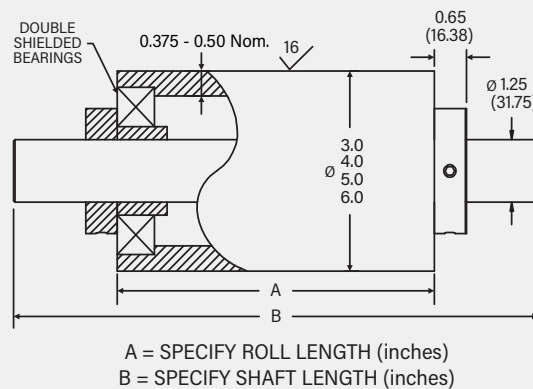
### LOW-INERTIA IDLER ROLL (FLANGE MOUNT)



### LOW-INERTIA IDLER ROLL



### CLASSIC IDLER ROLL



## DETERMINING SHAFT LENGTH

To calculate minimum shaft length,  
add roll length together with:

- 4.5 inches (115mm) for plain ends
- 1.375 inches (35mm) for drilled & tapped ends
- 5.0 inches (127mm) for milled-flat ends

**Shaft extensions should not exceed 8" per end without DFE engineering approval.**

**NOTE:** Notify DFE if idler rolls will be used in temperature extremes or corrosive environments.

## MOUNTING CONSIDERATIONS

**B = Shaft length**

**D = Distance between machine frames**

- Idler is mounted directly between machine frames  
**B = D**
- Idler is mounted in DFE Model C0 transducers  
**B = D - 5.062 inches (129mm)**
- Idler is mounted in DFE Model C1 transducers  
**B = D - 5.375 inches (137mm)**
- Idler is mounted in DFE Model C2 transducers  
**B = D - 6.187 inches (157mm)**

