

# TWIN-ROD CYLINDERS

HTBDA

Humphrey Twin-Rod Cylinders are essentially two conventional double-acting cylinders in one, extruded aluminum housing which are coupled together with a rod-end tooling plate. Offered in six sizes from 6 to 32mm bore, Twin-Rod Cylinders feature a rectangular, non-rotational construction for easy mounting. Two-cylinder design allows for "double the force" within the width of one. Twin-Rod Cylinders are capable of withstanding greater lateral load than a conventional cylinder. Standard features include fine stroke adjustment, noise-reducing bumpers and magnetic piston for sensor switch operation.

### BORE SIZES (mm):

- 6, 10, 16, 20, 25, 32

### TYPE:

- Double Acting (HTBDA)

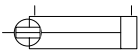
### STANDARD STROKES (inch):

- 6 Bore: 1/2, 3/4, 1, 1-1/2, 2
- 10 Bore: 1/2, 3/4, 1, 1-1/2, 2, 2-1/2, 3
- Other Bores: 1/2, 3/4, 1, 1-1/2, 2, 2-1/2, 3, 3-1/2, 4

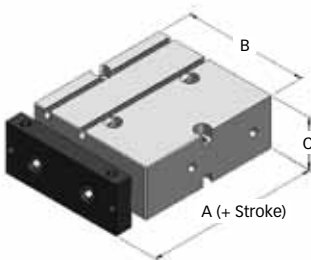
### OPTIONS AND ACCESSORIES:

Reed or Non-Contact Sensor Switches (see page 53).

GUIDED LINEAR ACTUATORS

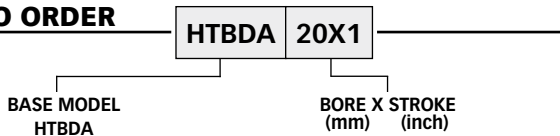


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Model	Bore Size - Effective Area		Overall Dimensions			
	Bore Diameter (mm)	Piston Area (inch <sup>2</sup> )	Length A + Stroke (inch)	Width-B (inch)	Depth-C (inch)	Port Thread
HTBDA	6	0.09	1.93	1.28	0.55	10-32 UNF
	10	0.24	2.28	1.65	0.67	
	16	0.62	2.68	2.13	0.83	
	20	0.97	3.07	2.44	0.98	
	25	1.52	3.19	2.87	1.18	
	32	2.49	4.25	3.78	1.58	1/8 PIPE

### HOW TO ORDER



### SPECIFICATIONS

Media:	Air	
Pressure Range (PSIG):	6 Bore	28-100 PSIG
	10 Bore	22-100 PSIG
	16, 20, 25, 32 Bores	15-100 PSIG
Temperature Range:	32°F to 140°F	

### HOW TO OBTAIN SPECIFICATIONS FOR CYLINDERS

- Go to [www.humphrey-products.com](http://www.humphrey-products.com)
- Select "Online Product Guide." Follow the steps to get the cylinder you need.
- Once the specifications have been entered, select "Download Spec Sheet" to create a personalized PDF of the cylinder, which you may save to your computer and print at your convenience. These spec sheets are helpful when placing your order(s).

### HOW TO ORDER HUMPHREY CYLINDERS AND ACCESSORIES

- Go to [www.humphrey-products.com](http://www.humphrey-products.com)
- Select "Find A Distributor" and input your information to locate a distributor nearest you.
- Or, call Customer Service at 1-800-477-8707 for the name and phone number of your local distributor.

**HUMPHREY PRODUCTS ARE SOLD WORLD-WIDE THROUGH AUTHORIZED DISTRIBUTORS**