

## Thrust Washers

Use to reduce the friction that occurs in metal-to-metal contact, particularly where wheels join to axles.



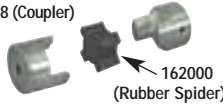
Part No.	I.D.	O.D.	# of Balls	Load Rating @ 15 RPM	1	5
401197	1/8"	.434"	6	89 lbs.	\$2.95	\$2.49
401200	3/16"	.497"	7	104 lbs.	2.95	2.49
401226	5/16"	.622"	9	134 lbs.	3.49	2.95
401234	3/8"	.809"	6	149 lbs.	3.95	3.49
401242	1/2"	.934"	8	198 lbs.	3.95	3.49

\*Lasers — Enter Web Code LAZ

## Spider Couplers

\*Web Code: EBE

- Used with motors 162288 (Coupler)
- 1 set screw per hub
- Hub OD: 0.625" Dia.
- Hub length: 0.56"
- Parts sold individually



Part No.	Description	1	5	25
162288	.125" (3.18 mm) ID hub	\$1.49	\$1.35	\$1.19
161998	.197" (5.00 mm) ID hub	1.19	1.05	.95
162270	.250" (6.35 mm) ID hub	1.49	1.35	1.19
162000	Rubber spider	1.55	1.39	1.25

## Roll-Flex Omni Wheel

- Multi-directional roller
- Supports up to 45 lbs.
- Open design eliminates lock-up
- Safe for all surfaces
- Compatible with Stingray Robot (P/N 2099673)

2120524



Part No.	Mfr. Part No.	1	5
2120524	Omni directional roller wheel	\$24.95	\$23.95
2120532	2" threaded aluminum axle	.89	.79

## 10-Piece Gear Assortment

- Polyethylene resin
- Gears are 0.147" bore size
- Bushings are 0.07" bore diameter
- T10, T20, T30, T40, T50 and bushing



Part No.	Description	1	5	25
1810072	Gear set - 10 pieces	\$7.95	\$6.95	\$6.25

\*Gears — Enter Web Code PEF

## Hub and 48-Pitch Gear Set

- Low coefficient of friction requires little or no lubrication
- Residual stress removed by annealing process

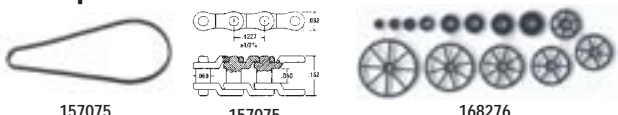
168284 Includes:

1 each of the following: 10 teeth with 1/32" bore size; 14 and 16 teeth with 1/8" bore, 20, 24, 30, 36, 44, 54, 66, 84 and 100 teeth with 1/4" bore size

Part No.	Description	1	5	25
157104	1/4" bore aluminum mounting hub with set screws	\$7.95	\$6.95	\$6.25
168284	Gear set - 12 pieces (see description above)	39.95	34.95	31.95

## 16-Pitch Sprocket Set and Chain

- Operates in high humidity and corrosive environments
- Chain links can easily be added or removed to adjust total length
- Chain tension load: 2.0 lbs.



Part No.	Description	1	5	25
157075	Drive chain (12" long)	\$10.95	\$9.95	\$8.95
168276	Sprocket set - 14 pieces (see description above)	29.95	26.95	23.95

\*For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

## Green Laser Pointer



Class IIIa Laser Product

Uses a wavelength closely matched to the highest sensitivity of the human eye and built w/ cutting-edge crystal technology. Projects a green beam so powerful you can see it against a clear night sky.

- Output wavelength: 532nm
- Output power: <5mW
- 90-day manufacturer's warranty

Includes: Metal gift box, clip and 2 AAA batteries

Part No.	Mfr. Part No.	Size (L" x Dia")	1	5
223731	5608	5.6 x 0.5	\$99.95	\$89.95



## Red Laser Pointer Pen

Includes: 2 AAA batteries

- Range up to 500 yards
- 670nm output wave length
- Plastic gift box



Class IIIa Laser Product

Part No.	Mfr. Part No.	Size (L" x Dia")	1	5
153605	4012	5.2 x 0.4	\$21.95	\$19.75

## Laser Diode Module

- Operates on 3VDC @ <5mW
- 650nm wavelength
- Beam diameter: 5 x 8mm
- Working distance: over 50 meters (daylight), 200 meters (dark)
- Size: 0.9"L x 0.3"Dia
- One-year warranty



Class IIIa Laser Product

Part No.	Description	1	5
310519	Laser module, brass	\$44.95	\$39.95

## Laser Diode

- Optical output power: 5mW maximum
- Operating current: 30mA
- 5.6mm packaging size
- Operating voltage: 2.6V maximum
- Lasting wavelength: 650nm typical
- Beam divergence of 11° from center line max.



Class IIIa Laser Product

Part No.	Product No.	1	5	25
182932	ULD-6556	\$14.95	\$13.45	\$12.09

## Climax Spider Shaft Coupler

- 2 set screws (10-32 x 1/8)
- Size: 0.75"L x 0.5"OD



\*Web Code: EBE

Part No.	Description	1	5	25
138288	.250" ID sleeve coupler	\$5.95	\$5.35	\$4.79

## 650nm Line and Dot Laser Diodes

143845/173243:

- Focus adjustable with locking set screw
- Wattage: 5mW
- Oper. volt.: 3-5V
- Size: 3.3"L x 0.9"Dia.
- One-year warranty

\*Web Code: LAZ



173243

143845: Line laser module

- Laser line width: 1mm
- Laser fan angle: 60°

Class IIIa Laser Product

173243: Cross hair laser diode module

- Laser fan angle: 60°
- Size: 3.0"L x 0.9"D
- Female 2.1mm power connector

143837: Module regulated power supply

- Output: 5VDC @ 100mA
- Short-circuit protection
- Input voltage: 95-125VAC or 190-250VAC switchable
- Size: 2.0"W x 1.7"D x 9.2"H
- Weight: 0.6 lbs.



143853: Laser module mount

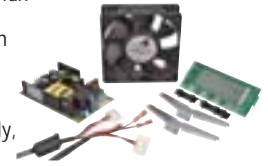
- X-Y tilt, θ movement
- Built to hold laser diode on target
- Tightening screw for tilt adjustment

Part No.	Description	1	5
143845	Line laser diode module	\$114.95	\$103.95
173243	Cross hair laser diode mod	109.95	99.95
143837	Regulated power supply	20.95	18.95
143853	Laser diode module mount	59.95	53.95

## 5-Speed Variable Fan Control with LCD Display and Power Supply



- Kit includes: 12VDC fan (P/N 2099972), 12VDC @ 5.25A open frame power supply (P/N 2099981), membrane switch, power cable assembly, LCD display module and mounting brackets



LCD Graphic Display Module:

- On-board MC68HC90LJ12 Microcontroller
- Input voltage: 12VDC
- On/Off switch, fan speed control switch (1-5 speed), LED power indicator
- Graphic LCD digit height: 0.58"
- Optional second fan connector
- LCD module size: 4.8"W x 1.9"H

Fan:

- Input voltage: 12VDC @ 750mA (9W); CFM: 151.85; 55dBA; 120mm x 120mm x 38mm; 4-lead wires (tachometer and speed) 47.24"L

Open Frame Power Supply (SBU60-105):

- Input voltage: 90-264VAC @ 47-63Hz (5pos. 0.157" pitch connector)
- Output voltage: 12VDC @ 5.25A, 63W (6pos. 0.157" pitch connector)
- Size: 5.0"L x 3.0"W x 1.09"H

Part No.	Description	1	10
2100144	Fan kit	\$39.95	\$35.95

Can't find the product you're looking for? Call us at 1-800-831-4242.