### Sanders, Buffers & Polishers Introduction

## DOTCO

Dotco® sanders, buffers and polishers are available in a variety of styles and power ratings to provide flexibility in choosing the best tool for the job. Disc sanding and polishing, wire brushes, buffing wheels, abrasive sheets, woven or non-woven belts. No matter the application, Dotco has a quality tool solution.

Motor ratings for sanders range from 0.6 – 1.6HP. All sanders feature composite, aluminum or steel housings to protect the internal parts as much as possible.

### Dotco 12-18 Series Random Orbital & Orbital Sanders

The Dotco 12-18 Series random orbital and orbital sanders have a low profile design for better sanding control which improves finish quality. They are lightweight with low vibration to reduce operator fatique and improve production levels.

You can choose between models with either 3/16" (black lever) or 3/32" (chrome lever) random orbital pattern to best fit your application. All models are shipped with 3 interchangeable grips to comfortably fit any hand in your plant. Vacuum models are extremely efficient and are equipped with super vac for increased efficiency.

#### **Dotco 12-23 Series Belt Sanders**

The Dotco 12-23 Series belt sanders can grind corners, enter grooves, debur, strap polish or enter channels. The unique belt cover makes belt changes quick and easy. You can use non-woven nylon or coated abrasive belts on a variety of surfaces.

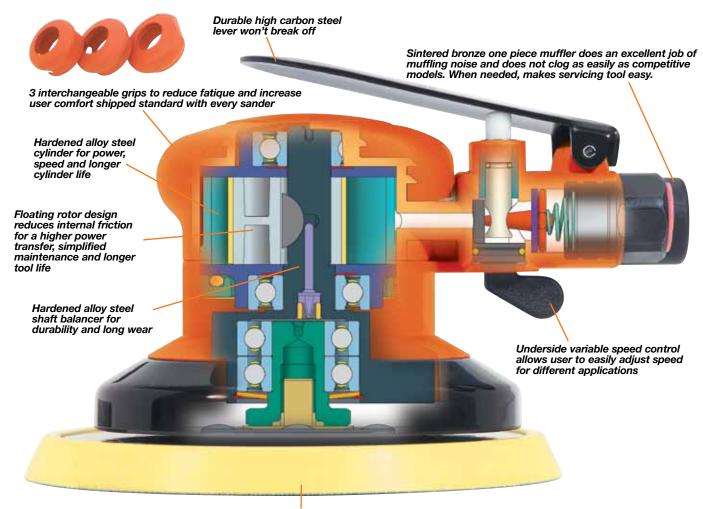
The unique sanding attachment pivots 360 degrees to allow user flexibility in reaching confined areas. The belt cover snaps on/off easily with no special tools needed allowing for quick belt changes. The arm itself is interchangeable to best suit a variety of applications.











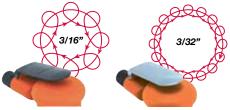
A wide range of industrial-quality PSA and hook and loop pads available in 3", 5" and 6" sizes



# **DOTCO**°

#### 12-18 Series Random Orbital **Nominal Motor Power** 0.24 hp 0.18 kW

- Low profile for more sanding control
- Lightest weight to reduce operator fatique
- Extremely efficient built-in vacuum system with swivel hose fittings
- 3/16" & 3/32" random orbital pattern



- Levers allow users to visually see the difference between 3/16" and 3/32"
- 3 interchangeable grips to fit all hand sizes



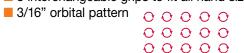




## DOTCO

12-18 Series Orbital **Nominal Motor Power** 0.24 hp 0.18 kW

- Lightest weight full size orbital sander in the world
- Full 10,000 OPM with more power and faster cutting than any equivalent machine
- Patent pending pad suspension system that produces unmatched performance
- 3 interchangeable grips to fit all hand sizes





ı	Model Number	Sanding	Free Speed	We	ight	H	eight	Ler	ngth
3/16" Orbit	3/32" Orbit	Pad Size	rpm	lbs.	kgs.	in.	mm	in.	mm
12-18 Series - Ran	dom Orbital Sander - Non V	acuum							
12L1820-03		3.5"	12,000	1.56	0.71	3.33	84.58	5.11	129.79
12L1820-05+	12L1823-05+	5.0"	12,000	1.62	0.73	3.33	84.58	5.48	139.19
12L1820-06+	12L1823-06	6.0"	12,000	1.68	0.76	3.33	84.58	5.48	139.19
12-18 Series - Ran	dom Orbital Sander - Centr	al Vacuum, V	acuum Attac	hment &	Shroud				
12L1820-13		3.5"	12,000	1.60	0.73	3.33	84.58	6.98	177.29
12L1820-15+	12L1823-15	5.0"	12,000	1.73	0.78	3.33	84.58	7.75	196.85
12L1820-16+		6.0"	12,000	1.90	0.86	3.33	84.58	7.75	196.85
12-18 Series - Ran	dom Orbital Sander - Self-G	enerated Un	it with Vacuu	m Hose	& Floor B	ag			
12L1820-25+		5.0"	12,000	1.73	0.78	3.33	84.58	8.33	211.58
12L1820-26+		6.0"	12,000	1.80	0.82	3.33	84.58	8.84	224.54

#### General:

Air Inlet: 1/4" NPT - Use 1/4" (6.4mm) I.D. Hose
All tools performance rated @90 psi (620 kPa) air pressure
Air Flow: 16 SCFM (453 LPM) Power: 0.24 hp (179 W)

#### Standard Equipment:

Operating instructions & parts manual.
Random Orbital Models – 3/8" low profile medium density premium urethane back-up pad; Interchangeable grips (3)

#### **Optional Equipment:**

See page 36 for back-up pads.

#### **Additional Models:**

+ Add "HL" to end of model number to designate hook and loop pad.





	Model Numbe	r	Abrasive	Speed	We	ight	Нє	eight	Le	ngth	W	idth
Clip	PSA	Hook & Loop	Size	orbits/minute	lbs.	kg	ln.	mm	in.	mm	in.	mm
12-18 Series -	- 3/16" Orbital Sai	nder – Non-Vacuum										
12L1850-09			3.66" x 9"	10,000	2.28	1.03	3.94	100.01	6.88	174.63	3.53	89.69
	12L1850-07	12L1850-07HL	3.66" x 7"	10,000	2.20	1.00	3.94	100.01	6.88	174.63	3.53	89.69
12-18 Series -	- 3/16" Orbital Sai	nder – Central Vacuui	m									
12L1850-19	12L1850-17		3.66" x 7"	10,000	2.20	1.00	3.94	100.01	8.78	223.04	3.53	89.69
12-18 Series -	- 3/16" Orbital Sai	nder – Self-Generated	d Unit with	n Vacuum H	ose &	Floor B	ag					
	12L1850-27		3.66" x 7"	10,000	2.37	1.08	3.94	100.01	10.00	254.00	3.53	89.69

General:

Air Inlet: 1/4" NPT - Use 1/4" (6.4mm) I.D.

All tools performance rated @90 psi (620 kPa) air pressure

Air Flow: 16 SCFM (453 LPM) Power: 0.24 hp (179 W)

Standard Equipment:

Operating instructions & parts manual.

Orbital Models – back-up pad. Interchangeable grips (3)

**Optional Equipment:** 

See page 36 for back-up pads.



Mod	el Number	Free Speed	Disc Capacity	Туре	Wei	ight	Len	gth		ead ght*	Collet/ Spindle	Air Inlet
Front Exhaust	Rear Exhaust	rpm	Disc Supusity	Housing	lbs.	kg	in.	mm	in.	mm	Size	Size
12LF Series - 0.4	hp (0.29 kW) - 300 Se	eries Colle	t									
12LF201-36	12LF281-36	20,000	2" Sanding/Polishing Disc	С	1.1	0.5	6.6	168	2.9	74	1/4"	1/4"
12LF200-36	12LF280-36	12,000	3" Sanding/Polishing Disc	С	1.1	0.5	6.6	168	2.9	74	1/4"	1/4"
10LF Series - 0.4	hp (0.29 kW) - 300 Se	eries Colle	t									
10LF201-36	10LF281-36	20,000	2" Sanding/Polishing Disc	Α	1.1	0.5	6.6	168	2.9	74	1/4"	1/4"
10LF200-36	10LF280-36	12,000	3" Sanding/Polishing Disc	Α	1.1	0.5	6.6	168	2.9	74	1/4"	1/4"
12-12 & 10-12 Se	ries - 0.3 hp (0.22 kW	) - 1/4"-2	8 Internal Thread									
12L1201-32	12L1281-32	20,000	2" Sanding/Polishing Disc	С	1.1	0.5	6.3	160	1.9	48	1/4"-28	1/4"
12L1200-32	12L1280-32	12,000	3" Sanding/Polishing Disc	С	1.1	0.5	6.3	160	1.9	48	1/4"-28	1/4"
10L1200-32		12,000	3" Sanding/Polishing Disc	С	1.0	0.5	5.0	127	1.9	48	1/4"-28	1/4"
10B1200-32		12,000	3" Sanding/Polishing Disc	С	1.0	0.5	5.0	127	1.9	48	1/4"-28	1/4"
12-13 Series – 0.3	3 hp (0.22 kW) - Gear	less – 300	Series Collet									
	12L1380-36	30,000	1" Sanding/Polishing Disc	С	1.1	0.5	7.1	180	3.9	99	1/4"	1/4"
	12L1381-36	25,000	2" Sanding/Polishing Disc	С	1.1	0.5	7.1	180	3.9	99	1/4"	1/4"
	12L1382-36•	20,000	2" Sanding/Polishing Disc	С	1.1	0.5	7.1	180	3.9	99	1/4"	1/4"
12-22 Series – 0.6	6 hp (0.45 kW) – 300 S	eries Col	et - Heavy Duty Head									
	12L2218-36	18,000	3" Sanding/Polishing Disc	С	1.7	0.8	7.5	191	2.7	69	1/4"	1/4"
12-22 Series - 0.6	6 hp (0.45 kW) – 5/8"-	11 Thread	led Spindle - Heavy Dut	y Head								
12L2251-80•	,		5" Sanding/Polishing Disc	С	3.2	1.5	9.3	236	3.9	99	5/8-11"	1/4"
12-27 Series - 0.9	9 hp (0.67 kW) - 5/8" -		ded Spindle - Heavy Du	ıtv Head								
12L2752-80	,		4" Sanding/Polishing Disc	С	3.4	1.5	9.8	249	3.9	99	5/8"-11"	1/4"
12L2751-80		9,000	5" Sanding/Polishing Disc	С	3.4	1.5	9.8	249	3.9	99	5/8"-11"	1/4"
12L2750-80		6,000	7" Sanding/Polishing Disc	С	3.4	1.5	9.8	249	3.9	99	5/8"-11"	1/4"
12L2762-80•		4,500**	7" Sanding/Polishing Disc	С	3.3	1.5	10.5	267	3.9	99	5/8"-11"	1/4"
12L2761-80•		6,000**	7" Sanding/Polishing Disc	С	3.3	1.5	10.5	267	3.9	99	5/8"-11"	1/4"
12L2760-80•		3,300**	7" Sanding/Polishing Disc	С	3.3	1.5	10.5	267	3.9	99	5/8"-11"	1/4"
10-27 Series – 0.9	9 hp (0.67 kW) - 5/8" -	- 11 Threa	ded Spindle - Heavy Du	ıty Head								
10L2751-80		9,000	5" Sanding/Polishing Disc	Α	3.1	1.4	8.5	216	3.9	99	5/8"-11"	1/4"
10L2750-80		6,000	7" Sanding/Polishing Disc	Α	3.1	1.4	8.5	216	3.9	99	5/8"-11"	1/4"

Housing Guide: A=Aluminum, C=Composite, S=Steel

Oilless blades

#### General:

All tools performance rated @ 90psi (620 kPa) air pressure. Minimum Hose I.D.- 12-12, 10-12, 12-13 Series: 1/4" (4.8mm) 12-22, 12-27, 10-27, Series: 5/16" (7.9mm) 12-42 Series: 1/2" (12.7mm)

#### Standard Equipment:

Applicable collet, collet wrenches 12-13 tools also include grease gun and gear lube

Extra Equipment: Collets: See page 24 Overhose (rear exhaust): See page 61



<sup>\*</sup> Over spindle

<sup>\*\*</sup>Governor controlled speeds



Mod	el Number	Free Speed	Belt Capacity	Type Housing	Contact Arm	Weight		Length		Air Inlet
Front Exhaust	Rear Exhaust	rpm		Housing	Arm	lbs.	kgs.	in.	mm	Size
12-12* Series -	0.3 hp (0.22 kW) – §	Sanding B	elt							
	12L1281-36B2	20,000	1/2"W x 12"L Sanding Belt	С	Straight	1.4	0.6	11.3	287	1/4"
	12L1280-36B2	12,000	1/2"W x 12"L Sanding Belt	С	Straight	1.4	0.6	11.3	287	1/4"
12-13* Series -	0.3 hp (0.22 kW) - (	earless -	- Sanding Belt							
	12L1382-36B2•	20,000	1/2"W x 12"L Sanding Belt	С	Straight	1.4	0.6	11.3	287	1/4"
	12L1382-36B4•	20,000	1"W x 12"L Sanding Belt	С	Straight	1.7	8.0	11.3	287	1/4"
12-23 Series - 0	.5 hp (0.38 kW) - G	earless -	Woven or Non-Woven Belt							
12L2384-B1		20,000	5/8"or 3/4"W x 18"L Belt	С	Straight	2.5	1.1	15.0	381	1/4"
12L2384-K1 (Kit)		20,000	(See details below)	С	Straight/Offset	2.5	1.1	15.0	381	1/4"

Housing Guide: A=Aluminum, C=Composite, S=Steel

• Oilless blades (2)

#### General:

All tools performance rated @ 90psi (620 kPa) air pressure. Minimum Hose I.D. 1/4" (6.4mm)

#### Standard Equipment:

12-12, 12-13 series: No.80 and No.120 grit sanding belt or one medium grit non-woven belt, applicable wrenches, grease gun, gear lube 12-23 series: Tool and contact arm, adjustment wrench.

#### **Extra Equipment:**

For lock-off safety lever, substitute "S" for "L" in model number. Overhose (rear exhaust): See pg. 61

#### Attachments: See pg. 38 Optional Equipment:

See pg. 36 for additional belts.

#### \*Optional Terminations for 12-12 & 12-13 Series (All models may not be available):

-32Bx 1/4"-28 Internal Thread; -36Bx 1/4" collet

#### Dotco 12L2384-K1 Kit

When you order the Dotco 12L2384-K1 kit you get the tool and all three interchangeable arms, belts and wrenches. You'll be ready for just about any finishing project using the Dotco 12L2384-K1 kit.



#### Kit includes the following:

Tool with 3/4" wide straight arm (1)

Additional Arms (2) 1 – 1/2" wide straight arm

1 - offset arm

1/4" x 18" Aluminum Oxide Belts (3)

1 - 60 grit

1 – 80 grit

1 - 120 grit

1/2" x 18" Aluminum Oxide Belts (3) 1 – 60 grit 1 – 80 grit

1 - 120 grit

3/4" x 18" Aluminum Oxide Belts (2)

1 – 60 grit 1 – 80 grit

3/4" x 18" Non-Woven Belt (1) Medium

#### Wrenches & Misc. Items

1 – 3/4" open end wrench 1 – 9/16" open end wrench 1 – 9/64" hex wrench 1 – 3/16" hex wrench 1 – 1/4" collet

1 - collet cap

1 - chuck body

Carrying Case w/Foam Inserts (1)



	Model Number		Free	Сар	acity	Туре	We	ight	Ler	igth	Heio	ht**	Collet/	Air
Front Exhaust	Side Exhaust	Rear Exhaust	Speed rpm	Wire Brush	Buffing Wheel	Housing	lbs.	kgs	in.	mm	in.	mm	Spindle Size	Inlet Size
12-10 Series - 0.3	3 hp (.22 kW) –	200 Series Co	•	Braon	Wilder									
	,	12L1093-01	5,000	3"	3"	С	1.6	0.7	7.2	183			1/4"	1/4"
		12L1092-01	3,200	3"	3"	С	1.6	0.7	7.2	183			1/4"	1/4"
12- 25 Series - 0.	.9 hp (.67 kW) -	200 Series Co	ollet											
		12L2594-01	6,200	4"	6"	С	2.1	0.9	9.3	236			1/4"	1/4"
		12L2593-01	4,700	4"	6"	С	2.1	0.9	9.3	236			1/4"	1/4"
		12L2592-01	3,200	4"	6"	С	2.1	0.9	9.3	236			1/4"	1/4"
12-27 & 10-27 Se	ries – 0.9 hp (.6	67 kW) – 5/8"-1	11 Threa	ded Spir	ndle									
12L2762-80•			4,500*	4"	6"	С	3.3	1.5	10.5	267	3.9	98	5/8"-11	1/4"
12L2760-80•			3,300*	4"	6"	С	3.3	1.5	10.5	267	3.9	98	5/8"-11	1/4"
10L2760-80			3,300*	4"	6"	Α	3.9	1.8	9.3	236	3.9	98	5/8"-11	1/4"
12-42 Series - 1.7	7 hp (1.27 kW)	- 5/8"-11 Exter	rnal Thre	eaded Sp	indle									
	12L4203-80•		3,400	4"	8"	С	6.4	2.9	13.6	346	3.9	98	5/8"-11	1/2"

Housing Guide: A=Aluminum, C=Composite, S=Steel

Oilless blades (2)

#### General:

All tools performance rated @ 90psi (620 kPa) air pressure.

Minimum Hose I.D. – 12-10 Series: 1/4" (6.4mm) 12-25, 12-27, 10-27, Series: 5/16" (7.9mm) 12-42 Series: 1/2" (12.7mm)

#### Standard Equipment:

12-10, 12-25: Applicable collet, collet wrenches 10-27, 12-27: Spindle wrench

12-42: Nut, washer, spacer and wrenches.

#### Extra Equipment:

Collets: See page 24

Overhose (rear exhaust): See page 61 Dead Handle: (12-10 models) 6188 Dead Handle: (12-25 Models) 8088



<sup>\*</sup>Governor controlled speeds

<sup>\*\*</sup>Over spindle

## **Sander Accessories**

#### Low Profile Backup Pads for Random Orbital Sanders

A thinner, harder pad generally recommended for aggressive sanding and leveling of flat surfaces.

Diameter	Thickness	PSA I	Pads	Hook & Loop Pads			
Diameter	HIICKHESS	Non-Vacuum	Vacuum	Non-Vacuum	Vacuum		
3 1/2"	3/8"	543025	543025	543026	543026		
5"	3/8"	543017	543018	543019	543020		
6"	3/8"	543021	543022	543023	543024		



#### **Tapered Edge Backup Pads for Random Orbital Sanders**

A thicker, softer pad generally recommended for contour sanding and feather edging.

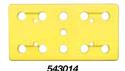
Diameter	Thickness	PSA Pads
Diameter	Thickness	Non-Vacuum
5"	3/4"	543041
6"	3/4"	543042



#### **Backup Pads for Orbital Sanders**

PSA adhesion to tool eliminates the need for any tools when changing pads. Pad remains flat throughout full orbit at any speed.

Diameter	Thickness	PSA	Pads	Hook & L	oop Pads
Diameter	Hillickness	Non-Vacuum Vacuum		Non-Vacuum	Vacuum
3-2/3"x7"	3/8"	543011	-	_	543014



#### **Belt Sander Attachments**

Dotco 12-12 and 12-13 series.

300 Series Collet	1/4"-28 Int. Thread	Sanding	Belt Size	Sandir	ng Area
-36 Termination	-32 Termination	in.	mm	in.	mm
Non-Woven Attach	nments (used with 12,00	00 rpm 12-12 seri	es)		
14-1715	-	1/2" x 18"	13 x 457	1/2" x 6"	13 x 152
Coated Abrasive A	Attachments (used with	h 12,000 rpm 12-	12 series; 20,000 ı	rpm 12-12 & 12-1	3 series)
14-1639	14-1638	1/4" x 12"	6.4 x 305	1/4" x 4"	6.4 x 102
14-1316	14-1301	1/2" x 12"	13 x 305	1/2" x 4"	13 x 102
14-1473	14-1463	1" x 12"	25 x 305	1" x 4"	25 x 102
14-1319	14-1318	1/2" x 24"	13 x 610	1/2" x 10"	13 x 254
14-1613	14-1603	1" x 24"	25 x 610	1" x 10"	25 x 254



#### Sanding Belts - Aluminum Oxide, Resin Bond

For use with Dotco belt sanders. Minimum order: 10 of any one belt.

Grit Size				Belt N	lumber			
Grit Size	1/4" x 12	1/2" x 12	1" x 12	1/2" x 24	1" x 24	1/4" x 18	1/2" x 18	3/4" x 18
40		14-1344						
50		14-1345						
60	14-1590	14-1346	14-1582	14-1366	14-1642	14-2320	14-2316	14-2326
80	14-1591	14-1348	14-1583	14-1368		14-2321	14-2317	14-2323
100		14-1350						
120	14-1593	14-1352	14-1585	14-1372		14-2322	14-2318	
150		14-1355						
180	14-1596	14-1358	14-1588	14-1378	14-1648			
240		14-1360						
320		14-1362						

#### Sanding Belts - Non-woven

Minimum order: 10 of any one belt.

IVIII III TIAITI OI AGI. 10 OI AITY ONC BOIL.								
Grit Size	Part Number							
GITT 0120	1/4" x 18	3/4" x 18						
Extra Fine	14-1728							
Fine	14-1729							
Medium	14-1730	14-2327						
Coarse	14-1731							





#### Spiralcool™ Backing Pads

For Dotco sanders with 5/8"-11 threaded spindles. Pad contour develops draft action to cool disc and avoid excessive pick-up.

	Pa	Part Number – Pad Diameter (Max. rated RPM)									
Flexibility	4" 12,000 rpm	4 1/2" 11,000 rpm	5" 10,000 rpm	7" 7,000 rpm	9" 6,000 rpm						
Flexible	14-2197	14-2255	14-2115	14-2529	14-2202						
Medium	14-2198	14-2256	14-2116	14-2200	14-2203						
Rigid	14-2199	14-2257	14-2117	14-2201							

#### Save-A-Disc Pads

For Dotco sanders with 5/8"-11 threaded spindles. Ribs on the backing plate cause a flexing action which throws off accumulation.



Diameter		Part Number				
	Max. rpm	Assembly	Pad Only	Plate Only	Nut Only	
5"	7,500	14-2515	14-2521	14-2522	14-2525	
7"	7,500	14-2517	14-2521	14-2523	14-2525	
9"	7,500	14-2519	14-2521		14-2525	

#### **PSA Disc Holders**

#### **Collet Chuck:**

Chuck the PSA disc holder shank directly into the appropriate collet (1/8" or 1/4").



#### **Threaded Spindle:**

Remove the threaded shank from the PSA disc holder. Referring to the spindle adapter chart, select the correct spindle and thread it into the PSA holder.

Part Number	Disc Holder Diameter	Shank Assembly	PSA Disc Holder Thread
14-1146	1/2"	1/8"	5-40 Female
14-1105	1/2"	1/4"	5-40 Female
14-1147	3/4"	1/8"	5-40 Female
14-1107	3/4"	1/4"	5-40 Female
14-1170	1"	1/8"	5-40 Female
14-1110	1"	1/4"	5-40 Female
14-1111	1-1/2"	1/4"	1/4"-20 Female
14-1112	2"	1/4"	1/4"-20 Female
14-1113	3"	1/4"	1/4"-20 Female
14-1114	4"	1/4"	1/4"-20 Female

#### **Sanding Pad Nut**

For use with Dotco sanders with 5/8"-11threaded spindles.

Part Number	Tool Series
14-2118	5/8"-11 threaded spindle

#### **Spanner Wrench**

For use with 14-2118 Sanding Nut Pad.



Part Number	Tool Series
14-2319	5/8"-11 threaded spindle



An adjustment scale allows a 9" maximum diameter sanding disc to be cut down to 3" or 4" diameter. The double bevel cutting edge assures a round cut without a loose edge or raveling.

Description	
Disc Cutter	
des	
Upper	
Lower	

#### Mini Chucks

For use with Dotco 12-12 series.

To adapt right angle threaded spindle sanders for drilling, disc sanding with PSA holders, and light grinding.

Shank Size	Part Number		
	Assembly	Collet	
1/8"	14-1102*	14-0158**	
1/4"	14-1104*	14-0168***	
6 mm	14-1094	14-0170***	

<sup>\*</sup> NOTE: For 1/4"-28 internal thread

### **Spindle Adapters**

For use with PSA Disc holders.



	Adapter Description			
Part Number	Thread (for Tool Spindle)	Thread (for PSA Disc Holder)	Max. Disc Dia.	
14-1142	1/4"-28 Male	5 -40 Male	1"	
14-1144	1/4"-28 Male	1/4"-20 Male	4"	
14-2903	5/8"-11 Male	5/16"-24 Male	4"	
14-1212	5/8"-11 Male	1/4"-20 Male	4"	
14-1211	5/8"-11 Female	3/8"-24 Male	4"	

<sup>\*\*</sup> NOTE: For 5/16"-24 internal thread - 1/8" collet

<sup>\*\*\*</sup> NOTE: For 3/8"-24 internal thread - 1/4" collet