

CLIMAX

METAL PRODUCTS COMPANY



CLESCO



Abrasives & Abrasive Hardware

ISO 9001:2008

QUALITY MANAGEMENT SYSTEM

Clesco the Abrasive Hardware Specialist

This catalog reflects the major product categories & is not comprehensive in including all the product types or custom items we produce.

Established in 1930, Clesco is located in Mentor Ohio and is a wholly owned subsidiary of Climax Metal Products Company. As an industry leader in supplying abrasives & abrasive hardware, we serve a wide spectrum of industries including:

- Woodworking
- Metal Finishing
- Automotive
- Jewelry
- Glass
- Stone
- Leather
- Tool & Die

Clesco offers a tremendous breadth of products in the abrasive hardware area & strives to exceed your customer service requirements.

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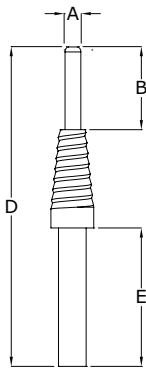
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Standard Tapered Type Mandrels for Cartridge Rolls



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- Quick change mandrels for coated abrasive cartridge rolls
- Feature sharp, coarse threads which hold cartridge rolls securely in place in operation
- Rust proof black oxide finish



HOW TO ORDER:

- Shank Dia. – order the size that fits your collet or chuck.
- Pilot Dia. – to be the same size as hole in cartridge roll.
- Pilot Length – for rolls:
 - 3/4" long – use 1/2" pilot length
 - 1" long – use 3/4" pilot length
 - 1 1/2" long – use 1" pilot length
 - 2" long – use 1 1/2" pilot length

Catalog #	(A) Pilot Dia.	(B) Pilot Length	(C) Shank Dia.	(D) O.A.L.	(E) Shank Length
CR-1	5/64	1	1/8	3	1
CR-2A	3/32	1/2	1/8	2 1/2	1
CR-2B	3/32	3/4	1/8	2 3/4	1
CR-2	3/32	1	1/8	3	1
CR-2D	3/32	1/2	1/4	2 1/2	1 1/4
CR-2E	3/32	3/4	1/4	2 3/4	1 1/4
CR-2E-4	3/32	3/4	1/4	4	2 1/2
CR-2F	3/32	1	1/4	3	1 1/4
CR-2F-4	3/32	1	1/4	4	2 1/4
CR-2F-6	3/32	1	1/4	6	4 1/4
CR-3	1/8	1/2	1/8	2 1/2	1
CR-4	1/8	3/4	1/8	2 3/4	1
CR-4A	1/8	3/4	3/32	2 3/4	1
CR-5	1/8	1	1/8	3	1
CR-5A	1/8	1	3/32	3	1
CR-6	1/8	1 1/2	1/8	3 1/2	1
CR-7	1/8	1/2	1/4	2 1/4	1
CR-7-4	1/8	1/2	1/4	4	2 3/4
CR-7-6	1/8	1/2	1/4	6	4 3/4
CR-7-8	1/8	1/2	1/4	8	6 3/4
CR-7-10	1/8	1/2	1/4	10	8 3/4
CR-7-12	1/8	1/2	1/4	12	10 3/4
CR-8	1/8	3/4	1/4	2 1/2	1
CR-8-6MM	1/8	3/4	6mm	2 1/2	7/8
CR-8-4	1/8	3/4	1/4	4	2 1/2
CR-8-6	1/8	3/4	1/4	6	4 1/2
CR-8-8	1/8	3/4	1/4	8	6 1/2
CR-8-10	1/8	3/4	1/4	10	8 1/2
CR-8-12	1/8	3/4	1/4	12	10 1/2
CR-9	1/8	1	1/4	2 3/4	1
CR-9-6MM	1/8	1	6mm	3	1
CR-9-2SH	1/8	1	1/4	3 3/4	2
CR-9-4	1/8	1	1/4	4	2 1/4
CR-9-6	1/8	1	1/4	6	4 1/4
CR-9-6SH	1/8	1	1/4	7 3/4	6
CR-9-8	1/8	1	1/4	8	6 1/4
CR-9-10	1/8	1	1/4	10	8 1/4
CR-9-12	1/8	1	1/4	12	10 1/4
CR-10	1/8	1 1/2	1/4	3 1/4	1
CR-10-4	1/8	1 1/2	1/4	4	1 3/4

Catalog #	(A) Pilot Dia.	(B) Pilot Length	(C) Shank Dia.	(D) O.A.L.	(E) Shank Length
CR-10-5	1/8	1 1/2	1/4	5	2 3/4
CR-10-6	1/8	1 1/2	1/4	6	3 3/4
CR-10-8	1/8	1 1/2	1/4	8	5 3/4
CR-10-10	1/8	1 1/2	1/4	10	7 3/4
CR-10-12	1/8	1 1/2	1/4	12	9 3/4
CR-11	1/8	2	1/4	4	1 1/4
CR-11-6	1/8	2	1/4	6	3 1/4
CR-12	3/16	1/2	1/8	2 1/2	1
CR-13	3/16	3/4	1/8	2 3/4	1
CR-14	3/16	1/2	1/4	2 1/2	1 1/4
CR-14-4	3/16	1/2	1/4	4	1 1/4
CR-15	3/16	3/4	1/4	2 3/4	1 1/4
CR-15-6MM	3/16	3/4	6mm	2 3/4	1 1/4
CR-15-6	3/16	3/4	1/4	6	1 1/4
CR-15-8	3/16	3/4	1/4	8	1 1/4
CR-16	3/16	1	1/4	3	1 1/4
CR-16-6MM	3/16	1	6mm	3	1 1/4
CR-16-4	3/16	1	1/4	4	1 1/4
CR-16-6	3/16	1	1/4	6	1 1/4
CR-16-8	3/16	1	1/4	8	1 1/4
CR-17	3/16	1 1/2	1/4	3 1/2	1 1/4
CR-17-6	3/16	1 1/2	1/4	6	1 1/4
CR-17-8	3/16	1 1/2	1/4	8	1 1/4
CR-18	3/16	2	1/4	4	1 1/4
CR-18-6	3/16	2	1/4	6	1 1/4
CR-18-8	3/16	2	1/4	8	1 1/4
CR-19	1/4	1/2	1/4	2 1/2	1 1/4
CR-20	1/4	3/4	1/4	2 3/4	1 1/4
CR-20-4	1/4	3/4	1/4	4	1 1/4
CR-20-6	1/4	3/4	1/4	6	1 1/4
CR-21	1/4	1	1/4	3	1 1/4
CR-21-4	1/4	1	1/4	4	1 1/4
CR-21-6	1/4	1	1/4	6	1 1/4
CR-21-12	1/4	1	1/4	12	1 1/4
CR-22	1/4	1 1/2	1/4	3 1/2	1 1/4
CR-22-6	1/4	1 1/2	1/4	6	1 1/4
CR-23	1/4	2	1/4	4	1 1/4
CR-25	5/16	3/4	1/4	2 3/4	1 1/4
CR-27	5/16	1 1/2	1/4	3 1/2	1 1/4
CR-28	5/16	2	1/4	4	1 1/4



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Deluxe Tapered Type Mandrels for Cartridge Rolls

- Quick change mandrels for coated abrasive cartridge rolls
- Deluxe mandrels have an extra coarse "Acme" thread
- Rust proof black oxide finish



Catalog #	(A) Pilot Dia.	(B) Pilot Length	(C) Shank Dia.	(D) O.A.L.	(E) Shank Length
CR-7-ACME	1/8	1/2	1/4	3	1 3/4
CR-8-ACME	1/8	3/4	1/4	3 1/4	1 3/4
CR-9-ACME	1/8	1	1/4	3 1/2	1 3/4
CR-9-4-ACME	1/8	1	1/4	4	2 1/4
CR-9-6-ACME	1/8	1	1/4	6	4 1/4
CR-9-8-ACME	1/8	1	1/4	8	6 1/4
CR-9-10-ACME	1/8	1	1/4	10	8 1/4
CR-9-12-ACME	1/8	1	1/4	12	10 1/4
CR-16-ACME	3/16	1	1/4	3 1/2	1 1/4
CR-21-ACME	1/4	1	1/4	3 1/2	1 1/4

Drill Stop Kit

- Drill stop collars make it easy to drill holes to a uniform depth.
- Kits consist of 7 set screw collars that firmly grip the outer diameter of the drill.
 - Bit sizes include: 1/8", 3/16", 1/4", 5/16", 3/8", 7/16", and 1/2"
 - Hex keys enclosed for easy installation



Drill Kit #100
DK-Refill #101
(collars only)



Screw Lock Type Wheel Adapters with Shank

- For mounting various types of abrasive & finishing wheels such as: cut-off, wire brushes, buffs, non-woven, etc.
- Wheel is secured in place with a slotted screw
 - Quick & easy change of wheels
- Design permits better access to work areas which may be difficult to reach
 - Rust proof black oxide finish



Catalog #	Fits Hole	Wheel		Shank Dia.	Head Style	Head Dia.	O.A.L.
		Widths up to (in):					
M-080	1/16	1/4	1/8	Straight	3/16	1 3/4	
M-11X	1/8	1/4	1/8	Straight	1/4	1 1/2	
M-11*	1/8	3/16	1/8	Straight	1/4	1 1/2	
M-21	1/8	1/4	1/4	Straight	3/8	2	
M-21-3	1/8	1/4	1/4	Straight	3/8	3	
M-21-4	1/8	1/4	1/4	Straight	3/8	4	
M-21-6	1/8	1/4	1/4	Straight	3/8	6	
M-14-2	1/4	1/4	1/4	Straight	7/16	2	
M-14-25	1/4	1/4	1/4	Straight	7/16	2 1/2	
M-14-3	1/4	1/4	1/4	Straight	7/16	3	
M-14-35	1/4	1/4	1/4	Straight	7/16	3 1/2	
M-14-4	1/4	1/4	1/4	Straight	7/16	4	
M-14-6	1/4	1/4	1/4	Straight	7/16	6	
M-22	1/4	1/4	1/4	Bell	3/4	2	
M-32	1/4	1/4	3/8	Bell	3/4	2	
M-22-L	1/4	3/8 - 1/2	1/4	Bell	3/4	2	
M-32-L	1/4	3/8 - 1/2	3/8	Bell	3/4	2	
M-23	3/8	1/4	1/4	Bell	3/4	2	
M-23-6MM	3/8	3/16	6mm	Bell	3/4	2	
M-33	3/8	1/4	3/8	Bell	3/4	2	
M-23-L	3/8	3/8 - 1/2	1/4	Bell	3/4	2	
M-33-L	3/8	3/8 - 1/2	3/8	Bell	3/4	2	
M-3*	1/4 or 3/8	1/4	1/4	Bell	3/4	2	

*M-11 comes with two 5/8" diameter washers.

*M-3 is bagged and contains 1/4" screw and 3/8" screw with one mandrel body.



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Flat Head Arbors

- Left hand threaded arbor
- "Flat Head" style which allows the wheel to be mounted between a single washer and the flat-head
- Designed primarily for mounting wire wheel brushes & other abrasive finishing products
 - Rust proof finish



Catalog #	Fits Hole	Wheel Widths up to (in):	Shank Dia.	Washer Dia.	O.A.L.
FHL-8x	1/4	3/4	3/16	5/8	1 3/4
FHL-10x	3/8	3/8	1/4	3/4	1 5/8
FHL-25x	1/2	3/8	1/4	7/8	1 7/8
FHL-30x	1/2	7/8	1/4	7/8	2 5/16
FHL-50x	5/8	3/8	1/4	7/8	1 7/8
FHL-30*	1/2	1/2	1/4	1 5/8	2 5/16

* Comes with two flanged washers

Chuck Type Wheel Mandrels

- These adapters fit wheels 1/4" to 3/8" wide
- Use with wire wheel brushes, small grinding wheels, buffs, etc.
 - Rust proof finish



Catalog #	Fits Hole	Wheel Widths	Shank Dia.	Flange Dia.	O.A.L.
WS-22	1/4	1/4 to 3/8	1/4	9/16	2 1/8
WS-23	3/8	1/4 to 3/8	1/4	11/16	2 1/8
WS-24	1/2	1/4 to 3/8	1/4	3/4	2 1/8

Nut Lock Wheel Adapters

- Right hand threaded arbor
- For mounting various types of abrasive & finishing wheels
- Features an open end threaded mounting shaft with two washers and a locking hex nut
 - Wheel can be changed without any disassembly
 - Rust proof finish



Catalog #	Fits Hole	Wheel Widths Up To:	Shank Dia.	Washer Dia.	Washer Type	O.A.L.
W-22T	1/4	5/8	1/4	1	Machine Flanged	2 1/2
W-22SP	1/4	3/4	1/4	1/2	Stamped Flat	2 1/2
W-23M	3/8	3/8	1/4	1 1/4	Stamped Flanged	2 1/2
W-23MSP	3/8	3/4	1/4	3/4	Stamped Flat	2 1/2
W-23MT	3/8	5/8	1/4	1	Machine Flanged	2 1/2
W-23SP	3/8	1	1/4	3/4	Stamped Flat	2 1/2
W-24	1/2	3/8	1/4	1 5/8	Stamped Flanged	2 1/2
W-24SP	1/2	5/8	1/4	7/8	Stamped Flat	2 1/2
W-24T	1/2	5/8	1/4	1 1/2	Machine Flanged	2 1/2
W-24M	1/2	1/4	1/4	5/8	Stamped Flat	1 5/8
W-34	1/2	1	3/8	1 5/8	Stamped Flanged	3
W-24EXL	1/2	1	1/4	1 5/8	Stamped Flanged	3 1/8
W-34EXL	1/2	2 3/8	3/8	1 5/8	Stamped Flanged	4 1/2

Quick Change Mandrel with Shank

For Bonded Abrasive Cones & Plugs



Catalog #	Fits Hole	Shank Dia.	O.A.L.
W-25X	5/8-11	1/4	1 5/8

Mandrels for Non-Woven Abrasives



Catalog #	Fits Hole	Wheel Widths up to (in):	Wheel Dia. up to (in):	Shank Dia.	Washer Dia.	O.A.L.
H-808-1	1/8 - 3/16	3/4	2	1/8	7/16	1 3/4
H-808-2	1/4 - 5/16	1	2	1/4	5/8	2 1/4
H-938-2*	1/4 - 5/16	1	3	1/4	2	2 1/4
H-1608-2	1/4 - 5/16	1	3	1/4	1	2 1/4

*H-938-2 comes with one flat two inch diameter washer and one dish-tooth washer.

www.climaxmetal.com

Phone: 1-800-542-6552 Fax: 1-800-860-5553

Buffing Spindles

- Unique attachment designed to mount soft-centered wheels on motors
 - Quick change design does not need washers or nuts
- Spindle is held securely to motor shaft with 2 set screws
 - Rust proof plated finish



Catalog #	Fits Shaft	Taper Length	O.A.L.	Thread Type
BTR-2	1/4	2 1/2	3 5/8	Right-Hand
BTR-3	3/8	2 5/8	4 5/16	Right-Hand
BTR-4	1/2	2 5/8	4 5/16	Right-Hand
BTR-5	5/8	2 5/8	4 5/16	Right-Hand
BTL-2	1/4	2 1/2	3 5/8	Left Hand
BTL-3	3/8	2 5/8	4 5/16	Left Hand
BTL-4	1/2	2 5/8	4 5/16	Left Hand
BTL-5	5/8	2 5/8	4 5/16	Left Hand

Cone Point Mandrels

- Tapered threaded mandrels for use with abrasive cone points
- Sharp spiral threads are formed to provide a "self-locking" feature for the cones



Catalog #	Shank Dia.	Taper Degree	Taper Length	Major Dia.	O.A.L.
CPM-1	1/4	12	1 3/8	3/8	2 3/4
CPM-2	1/4	6	1 1/2	1/4	3 1/16
CPM-3	1/4	6	2 1/2	3/8	3 13/16
CPM-4	1/4	5	3	3/8	4 7/16
CPM-5	1/4	15	1 7/8	9/16	3 1/8
CPM-6	1/4	18	1 7/8	11/16	3 5/16
CPM-7	1/4	22	1 9/16	3/4	3 5/16
CPM-8	1/4	30	1 7/8	1	3 3/8
CPM-9	1/4	12	2 9/16	5/8	4 1/4
CPM-11	1/8	6	1	3/16	2 3/4

Quick Change Mandrels

For Unitized Abrasive Plug Wheel

- Quick & easy replacement
- Rust proof black oxide finish



Catalog #	Male Thread Dia.	Thread Length	Shank Dia.	Shoulder Dia.	O.A.L.
CPM-12	5/16	3/4	1/4	1/2	1 3/4

For Buffing Wheels & Bobs

- This tapered threaded mandrel is especially designed to hold cloth polishing wheels, felt bobs & other soft center wheels
 - No washers or nuts needed



Catalog #	Thread Length	Shank Dia.	Major Dia.	O.A.L.
CPM-14	1 1/2	1/4	7/16	2 1/2
CPM-14-4	1 1/2	1/4	7/16	4
CPM-14-6	1 1/2	1/4	7/16	6

For Rubberized Abrasive Cones & Points - with Hex Nut



Catalog #	Male Thread Dia.	Thread Length	Shank Dia.	Shoulder Dia.	O.A.L.
CPM-18	3/32	1/2	3/32	3/32	1 3/4
CPM-17	3/32	1/2	1/8	1/8	1 3/4
CPM-15	1/8	1/2	1/8	1/8	1 3/4

For Rubberized Abrasive Cones & Points - with Tapered Point



Catalog #	Thread Length	Shank Dia.	Shoulder Dia.	O.A.L.
CPM-16	1/2	1/8	1/4	1 3/4
CPM-19	1/2	1/4	1/4	1 3/4

Hex Head Spin-On Mandrels For Threaded Eyelet

- For use with coated abrasive flap wheels, non-woven wheels and other finishing wheels which have an external righthand threaded shank



Catalog #	Fits Thread	Shank Dia.	Head Dia.	O.A.L.
QC-1420	1/4"-20	1/4	3/8	1 3/4
QC-1420-4	1/4"-20	1/4	3/8	4
QC-1420-6	1/4"-20	1/4	3/8	6
QC-1420-8	1/4"-20	1/4	3/8	8

Slotted Head Quick Change Mandrels

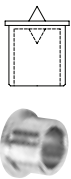
- Holds abrasive sheets which are secured in slot and rolled around the head
- Excellent for sanding or finishing internal holes
- Rust proof finish



Catalog #	Slot Dia.	Slot Width	Depth	O.A.L.
SM-3-250	1/4	1/16	3/4	3
SM-4-250	1/4	1/16	3/4	4
SM-6-250	1/4	1/16	3/4	6
SM-8-250	1/4	1/16	3/4	8
SM-10-250	1/4	1/16	3/4	10
SM-12-250	1/4	1/16	3/4	12

Drill Centers & Kit for Dowel & Tenon

- Centers have both external & internal points for marking exact drilling location
 - Provides for precise alignment of dowels & tenon joints
- Steel construction with zinc-plated finish
 - Sold in packs of 10



Catalog #	O.D.	I.D.
TC-014-10	1/4	3/16
TC-516-10	5/16	1/4
TC-038-10	3/8	5/16
TC-012-10	1/2	3/8

Straight Head Spin-On Mandrels For Threaded Eyelet

- These mandrels hold various abrasives and do not require washers or nuts
 - Quick & easy replacement
 - Rust proof black oxide finish



Catalog #	Fits Thread	Shank Dia.	O.A.L.
PM-348-1	#3-48	1/8	2 1/2
PM-348-2	#3-48	1/4	2 1/2
PM-348-2-4	#3-48	1/4	4
PM-348-2-6	#3-48	1/4	6
PM-348-2-8	#3-48	1/4	8
PM-832	#8-32	1/4	3
PM-832-4	#8-32	1/4	4
PM-832-6	#8-32	1/4	6
PM-832-8	#8-32	1/4	8
PM-1420	1/4"-20	1/4	3
PM-1420-QC	1/4"-20	1/4	2
PM-1420-4	1/4"-20	1/4	4
PM-1420-6	1/4"-20	1/4	6
PM-1420-8	1/4"-20	1/4	8

Winding Arbors

- For use in the manufacturing of cartridge rolls



Catalog #	O.D.	Slot Width	Slot Length	O.A.L.
WA-564-1	3/32	0.025	3	4 1/2
WA-564-2	3/32	0.032	3	4 1/2
WA-332-1	7/64	0.025	3	4 1/2
WA-332-2	7/64	0.032	3	4 1/2
WA-332-3	1/8	0.045	3	4 1/2
WA-18-2	9/64	0.032	3	4 1/2
WA-18-3	5/32	0.045	3	4 1/2
WA-18-4	5/32	0.057	3	4 1/2
WA-316-2	13/64	0.032	3	4 1/2
WA-316-3	7/32	0.045	3	4 1/2
WA-316-4	15/64	0.057	3	4 1/2
WA-14-2	17/64	0.032	3	4 1/2
WA-14-3	9/32	0.045	3	4 1/2
WA-14-4	19/64	0.057	3	4 1/2
WA-516-3	11/32	0.045	3	4 1/2
WA-516-4	23/64	0.057	3	4 1/2

Catalog #	Packaging	Description
TC-8	POLY-BAG 8 PC, SET WITH TWO EACH 1/4", 5/16", 3/8", & 1/2"	



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Motor & Grinder Shaft Arbors

- Nut Lock Type – for smooth shafts
- For mounting various wheels (buffs, wire brush, non-woven, etc.)
- Arbor is secured to smooth motor shafts with socket set screws
- RH (right-hand) units with 1/2"-20 threaded arbors can also be used to mount Climax keyless chucks to drive various shank-mounted accessories
- Use RH (right-hand) type for counter-clockwise shaft rotation (facing shaft)
- Use LH (left-hand) type for clockwise shaft rotation (facing shaft)

Type A "Small"

This type is ideal for use on smaller fractional horse-power motors.



Type	Deluxe		Economy		Fits Shaft Dia.	Fits Wheel Hole	Thread	Max Wheel Width	Thread Length	O.A.L.
	Machined	Washer Dia.	Stamped	Washer Dia.						
A	A-320-D	1	A-320	1 1/4	1/4	3/8	R.H.	1/2	1 1/8	2
A	A-325-D	1	A-325	1 1/4	5/16	3/8	R.H.	1/2	1 1/8	2
A	A-330-D	1	A-330	1 1/4	3/8	3/8	R.H.	1/2	1 1/8	2
A			AL-320	1 1/4	1/4	3/8	L.H.	1/2	1 1/8	2
A			AL-325	1 1/4	5/16	3/8	L.H.	1/2	1 1/8	2
A			AL-330	1 1/4	3/8	3/8	L.H.	1/2	1 1/8	2

Type B "Standard"

These Arbors have a 1/2" diameter threaded portion that is 1-13/16" long which can accommodate wheels up to 1-1/4" wide.



Type	Deluxe		Economy		Fits Shaft Dia.	Fits Wheel Hole	Thread	Max Wheel Width	Thread Length	O.A.L.
	Machined	Washer Dia.	Stamped	Washer Dia.						
B	AS-4	1 1/2	AS-4FS	1 5/8	1/2	1/2	R.H.	1 1/16	1 13/16	3 1/2
B	AS-5	1 1/2	AS-5FS	1 5/8	5/8	1/2	R.H.	1 1/16	1 13/16	3 1/2
B	AL-4	1 1/2	AL-4FS	1 5/8	1/2	1/2	L.H.	1 1/8	1 13/16	3 1/2
B	AL-5	1 1/2	AL-5FS	1 5/8	5/8	1/2	L.H.	1 1/8	1 13/16	3 1/2
B	AL-6	1 1/2	AL-6FS	1 5/8	3/4	1/2	L.H.	1 1/8	1 13/16	3 1/2
B	AL-5-KW*	1 1/2			5/8	1/2	L.H.	1 1/4	1 13/16	3 1/2
B	AS-5-KW*	1 1/2			5/8	1/2	R.H.	1 3/16	1 13/16	3 1/2

*AL-5-KW and AS-5-KW have a keyway.



CLESCO

"The Abrasive Hardware Specialist"

Motor & Grinder Shaft Arbors

Type C "Extra Long"

Similar to Type B except the threaded portion is longer at 2-5/8" which can accommodate wheels up to 2" wide.



Type	Deluxe		Economy		Fits Shaft Dia.	Fits Wheel Hole	Thread	Max Wheel Width	Thread Length	O.A.L.
	Machined	Washer Dia.	Stamped	Washer Dia.						
C	A-3	1 1/2	A-3FS	1 5/8	3/8	1/2	R.H.	1 13/16	2 1/2	4 1/16
C	A-4	1 1/2	A-4FS	1 5/8	1/2	1/2	R.H.	1 13/16	2 1/2	4 1/16
C	A-5	1 1/2	A-5FS	1 5/8	5/8	1/2	R.H.	1 3/4	2 1/2	4 1/16
C	A-6	1 1/2	A-6FS	1 5/8	3/4	1/2	R.H.	1 3/4	2 1/2	4 1/16

Type D "Heavy Duty"

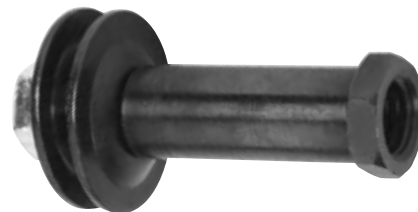
Designed especially for larger buffing & polishing units. The wide shoulder provides plenty of clearance plus ample space for easy movement & positioning of work pieces.



Type	Deluxe		Economy		Fits Shaft Dia.	Fits Wheel Hole	Thread	Max Wheel Width	Thread Length	O.A.L.
	Machined	Washer Dia.	Stamped	Washer Dia.						
D	AS-4-L	1 1/2	AS-4FS-L	1 5/8	1/2	1/2	R.H.	1 5/8	2 1/4	6 1/4
D	AS-5-L	1 1/2	AS-5FS-L	1 5/8	5/8	1/2	R.H.	1 5/8	2 1/4	6 1/4
D	AL-4-L	1 1/2	AL-4FS-L	1 5/8	1/2	1/2	L.H.	1 5/8	2 1/4	6 1/4
D	AL-5-L	1 1/2	AL-5FS-L	1 5/8	5/8	1/2	L.H.	1 5/8	2 1/4	6 1/4

Type E "Screw Lock" for Threaded Shafts

Designed for Threaded Shafts. Hex adapter can be used with longer screws to mount thicker wheels.



Type	Deluxe		Economy		Fits Shaft Dia.	Fits Arbor Hole	Wheel Width up to:	O.A.L.
	Machined	Washer Dia.	Stamped	Washer Dia.				
E			GA-1	1 5/8	5/8-11	1/2	1/2	2 1/4
E	GA-2	1 1/2			5/8-11	5/8	1/2	3

