SAFETY INSTRUCTIONS

Foredom® Angle Grinder Attachment

Read Instructions Before Use!

Includes: 2 holes for 3/8" Arbor hole wheels, 120 grit flat wheel (installed), V-cut type disc mandrel, Screw-Lok mandrel, assorted sanding discs, and tools for attaching. Add-on accessories available separately.

Optimum Motor Operating Speed is 5,000 – 15,000 RPM. Max. Speed: 18,000 RPM. 1 to 75% gear reduction reduces speed by 25% (see yellow chart). Even with gear reduction, running motor at maximum speed is unsafe and will lead to heat, vibration, and premature wear of the grinder. For best performance, run the motor between half and three-quarter speed. Use a light touch on your foot pedal and avoid depressing it fully or use a dial control.

Virtual maintenance-free, requires no lubrication! Never immerse the unit in any cleaning solution! Inspect the Angle Grinder and Drive Cup after every 50 hours of use. Add oil to the drive cup and check the motor heat for excessive temperature. If the motor overheats, shut off the machine and allow it to cool before restarting.

Always wear proper eye protection while using this attachment on your H.30® handpiece. Do not use any sharp metal objects or abrasive wheels. Keep your hands away from the moving accessory. Secure the workpiece in a vise or other type of clamp. Always use a proper dust collection system or wear a respirator to prevent the inhalation of dust particles or other debris. Do not apply excessive pressure against the wheel or disc. Let the tool do the work.

Make your power tool unplugged when you are changing accessories or performing maintenance. Do not apply excessive pressure against the wheel or disc. When you are sure that the Angle Grinder head is attached properly, you can reconnect the H.30® handpiece to the flexible shaft.

Make sure your power tool is unplugged when you are changing accessories!

ASSEMBLY

Attaching Angle Grinder Head to H.30® Handpiece

Remove handpiece from flexible shaft before mounting angle grinder.

1. Use the chuck key to open the 3-jaw chuck on your handpiece.

2. Insert and tighten the drive cup (A-69210) until drive cup head is flush with the chuck jaws.

3. Loosen angle grinder collar holdfast screw (UA690).

NEVER operate this Angle Grinder in Reverse!

4. Align and match up the square hole in the drive cup with square inner drive shaft in angle grinder spindle and insert handpiece until it bottoms out into the mounting collar.

Visit www.foredom.net to view videos on this product.

5. Tighten collar holdfast screw.

6. Check that the handpiece is engaged by turning the mounted flap wheel or accessory by hand while looking into bottom of handpiece to ensure that handpiece keyway or spindle is rotating. When you are sure that the Angle Grinder head is attached properly, you can reconnect the H.30® handpiece to the flexible shaft.

Make sure your power tool is unplugged when you are changing accessories!

Removing & Installing Accessories:

3/8" Diameter Arbor Hole Accessories

7. Removing the flap wheel mounted on your angle grinder.

Insert the open-end wrench (A-69218) onto flats on the angle grinder spindle through the slot in the open end of the safety shield. You may need to turn spindle to align the flats so the wrench fits all the way in and prevents the spindle from turning.

8. While holding the open-end wrench firmly, insert the 3mm hex wrench (A-69219) into the center wheel mounting screw and turn counterclockwise.
Foredom Angle Grinder Attachment AK69110 KIT includes:

- A-69222 Velcro-Type Disc Mandrel
- A-69225 Screw-Lok Disc Mandrel
- A-69212 Short Hub
- A-69212L Long Hub
- A-6912 Mounting Screw
- A-6919 3mm Hex Key
- A-69218 Open-End Wrench
- A-69217 Face Spanner Wrench
- A-69219 3mm Hex Key
- A-69210 Drive Cup
- A-2202 120 Grit Flap Wheel Max. Speed 10,000 RPM comes installed on Angle Grinder Head

Angle Grinder Head

For video instructions and maintenance information go to: www.foredom.net

9. Remove the 8mm (A-69212) Short Hub with 8mm (UA690) screw from flap wheel and insert new accessory with the same arbor hole thickness.

Hubs for 3/8” Diameter Arbor Hole Accessories (included)

9a. Press down on flap wheel & hub pops out

9b. Red Typhoon disc shown above is not included in AK69110

10. Insert new accessory with hub into Inner Wheel Arbor (A-69213) and tighten wheel mounting screw with 3mm hex wrench while holding the open-end wrench to prevent spindle from turning.

11. 3mm hex wrench

12. Remove Inner Wheel Arbor (A-69213) by holding open-end wrench (A-69218) in spindle flats to prevent spindle from turning and inserting pins on Face Spanner Wrench (A-69217) into holes on inner wheel arbor and turning counterclockwise to unscrew and remove.

13. To Attach: Hold open-end wrench on spindle flats to prevent spindle rotation. Tighten mandrel or arbor snugly by hand. This works for the 2 Disc Mandrels shown at right above. Use this same method to attach Optional Quick Change Arbor (A-69223) or Optional Right Angle Adapter (A-69224).

All of these have a 8mm X 1.0mm thread.

IMPORTANT: To prevent excessive run-out Always be sure the hub extends at least 1/32” (1mm) from the bottom of the accessory into the Inner Wheel Arbor (A-69213 shown in step 10 photo).
Accessories included:

- Screw-Lok Discs
  - A-3602 Sandpaper Disc, 40 grit 6-holes
  - A-3603 Sandpaper Disc, 80 grit 6-holes
  - A-3604 Sandpaper Disc, 120 grit 6-holes
  - A-3606 Sandpaper Disc, 240 grit 6-holes
  - A-3522 Abrasive Pad, 80 grit
  - A-69225 Screw-Lok Disc Mandrel

Also included with your Angle Grinder

- Screw-Lok Disc Mandrel and Five 2” Discs
  - Max. Speed: 10,000 RPM
  - Screw-Lok Disc Mandrel screws onto the Angle Grinder. It has a threaded hole for attaching discs with a plastic screw back. The Sandpaper Discs overhang the backing for smooth sanding edges and flexibility on sanding contours. See installing Disc Mandrels at left, steps 7–13.

Imperial™ Microfinishing Film PSA Discs:

- A-4594 320 grit
- A-4582 400 grit
- A-4592 600 grit
- A-10041-5 PSA Velcro™ discs 5-pk.
- A-60222 Velcro Type Disc Mandrel

Included with your Angle Grinder PSA Sanding Discs

The Angle Grinder comes with assorted sanding discs and 5 PSA (Pressure Sensitive Adhesive) Velcro™ discs. To use the sanding discs with the A-69222 Disc Mandrel a PSA Velcro™ disc (A-10041) must be attached to the back of the PSA sanding discs. The Velcro™ disc insulates the sanding disc, prevents slippage and allows removal and reuse of the sanding discs. Velcro™-type backed discs can also be used with Optional Velcro™ Sanding Heads shown on reverse.

Max. Speeds: PSA sanding discs 10,000 RPM

To properly install the sanding discs: Carefully line up the sanding disc and the PSA disc with the disc mandrel so that the mandrel is centered. An even, exposed edge will be visible around the mandrel’s edge. If it looks off center, remove and replace it until it looks centered and press down to secure it to the surface.

If Sanding Discs are Installed Off-Center it can cause vibration, premature wear of both sanding disc and mandrel. It may hit the safety shield when rotating.
Visit www.foredom.net for how-to videos and more about these products.

Yellow highlights indicate items included with the AK69110 Angle Grinder kit.

USE WITH short hub

A-69112 5mm Short Hub with 8mm screw

A-69222 Disc Mandrel with velcro hook surface

A-10041 PSA VelcroDiscs Velcro® loop fabric surface on one side and PSA adhesive on the other hold PSA backed abrasive discs listed here to the velcro-type hook surface of the A-69222 Disc Mandrel or velcro Sanding Heads. This combination is required to use the Foredom Angle Grinder with a PSA backed abrasive disc. It insulates the disc, holds it tight and allows removal and reuse of sanding discs.

PSA discs for Fine Polishing, Sanding and Microfinishing on stone, glass and metals


2" Imperial™ Microfinishing Film Disc with (PSA) Pressure Sensitive Adhesive Backing Max. Speed 10,000 RPM

Use 3M Imperial Microfinishing Film PSA discs dry on metal and wet on stone. High strength polyester backing coated with premium, micron graded aluminum oxide particles provides greater cutting efficiency and is resin bonded for increased durability. This fast-cutting abrasive provides gentle, controlled polishing.

10-Packs Grit / Micron

A-69591-10 1200 / 9
A-69592-10 600 / 15
A-69593-10 400 / 30

2" Typhoon Discs 3/8" Diameter Arbor Hole

Max. Speed 10,000 RPM

Typhoons have uniquely structured aligned tungsten carbide points that last long and do not load quickly. Use the fine grits for general shaping and sanding. The coarse grit is for rapid and aggressive shaping and roughing out work. Ideal for use on hard and soft woods, acrylic, die stone, plaster, hard rubber and fiberglass.

A-69212 5mm Short Hub with 8mm screw

A-H658 Brass Brush For easily cleaning Typhoon Discs. It removes dust or chips from between rows of carbide points. Caution – Do not clean Typhoons with a file card or steel brush.

A-KB5626 Red Flat Face Coarse
A-KB5627 Blue Flat Face Fine
A-KB5628 Red Round Face Coarse
A-KB5629 Blue Round Face Fine

For complete kit contents go to: www.foredom.net

AK6901 Stone Carving Kit 20pc.
Max. Speed 10,000 RPM

AK6903 Wood Carving Kit 72pc.

Maximum Speeds for each are listed in accessory descriptions.

AK6905 Metal Working Kit 38pc.

Maximum Speeds for each are listed in accessory descriptions.


2" Flexible Diamond Sanding Discs with (PSA) Pressure Sensitive Adhesive Backing Max. Speed 10,000 RPM

3M Flexible Diamond discs are made from a 2-ply polyester backing film evenly coated with diamond filled nickel plated dots. Grind, sand, and smooth wet or dry on glass, carbide, composites, plastic, enamals, stone, steel, exotic alloys, gypsum, ceramics, wood, bone, chrome cobalt, painted or plated surfaces. When working with gemstone, rock, ceramics, bone and glass they should be used wet.

2" Flexible Diamond Sanding Discs Part Nos. and Grits:
A-5750 5pc. Assortment with 1 of each disc listed below.
A-5752 60 grit A-5754 220 grit A-5758 800 grit
A-5753 120 grit A-5756 400 grit


2" Flexible Diamond Sanding Disc and Diamond Lapping Film Disc with (PSA) Pressure Sensitive Adhesive Backing Max. Speed 10,000 RPM

3M Diamond Microfinishing abrasives have flexible film backing for metal working and lapidary applications. They are effective on stone, glass and hard to work on stainless steel and titanium. Use them wet when working with gemstones, rock and glass. Use 3M Imperial Diamond Lapping Film Disc (A-4483) for lapidary and metalworking. Use wet to reduce heat buildup and loading. The strong, flexible 3-mil backing adheres to A-10041 PSA VelcroDisc attached to a mandrel or sanding head.

AK4400 7pc. Assortment with 1 of each disc listed below.

Part No. Micron Grade Grit
A-4452 125 120
A-4453 74 220
A-4454 45 320
A-4455 30 400

Part No. Micron Grade Grit
A-4456 20 800
A-4457 9 1200
A-4483 3 4000

A-691041 PSA VelcroDiscs Velcro® loop fabric surface on one side and PSA adhesive on the other hold PSA backed abrasive discs listed here to the velcro-type hook surface of the A-69222 Disc Mandrel or velcro Sanding Heads. This combination is required to use the Foredom Angle Grinder with a PSA backed abrasive disc. It insulates the disc, holds it tight and allows removal and reuse of sanding discs.

PSA discs for Fine Polishing, Sanding and Microfinishing on stone, glass and metals


2" Sanding Flap Wheels 3/8" Diameter Arbor Hole

Max. Speed 10,000 RPM

Aluminum oxide sanding flap wheels made of high-grade mineral and a bonding system which reduces shelling of the mineral, mounted on a solid surface are economical abrasives for fast clean-up and pre-polishing.

Part No. Grit
A-2201 60
A-2202 120
A-2203 240

Part No. Grit
A-2204 320
A-2205 600
A-2206 800

Visit www.foredom.net for how-to videos and more about these products.
**Velcro® & Foam Sanding Heads**

3/8" Diameter Arbor Holes

- No Arbor hole
- Velcro® surfaces
- Max. Speed 20,000 RPM
- Sanding Heads can vary the firmness of pressure from an abrasive disc. Use PSA Velcro® Disc A-10041 to attach sanding discs to sanding heads. Heads with Arbor holes have a Velcro hook surface and mount onto the Angle Grinder with the 8mm Long Hub (A-69212L). Sanding Heads with no Arbor holes attach to A-5765 Screw-Lok Disc back with Velcro Hook fronts, attach to A-69225 Screw-Lok Mandrel (shown below) or onto A-69226 Velcro Hook Surface Mandrel so that they can mount onto the Angle Grinder.

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**Blending and Smoothing metals and composites**

- **A-10055 2" Unitized Wheel with 3/8" Diameter Arbor Hole**
  - Max. Speed 30,000 RPM Only use dry.
  - Made of coarse non-woven fiber coated in aluminum oxide. Ideal for deburring, oxide and fire scale removal, cleaning, blending, and smoothing. **Use on edge, NOT flat side.**

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**Polishing and Lapping metals, plastics and wood**

- **2" Felt Wheels with 3/8" Diameter Arbor Hole**
  - Max. Speed 20,000 RPM
  - Made from hard density, tightly compressed, top quality wool felt. Felt wheels are used for polishing and lapping on metals, plastics, wood and other materials. They hold an edge for working in angles and corners and are used with polishing compounds such as those listed below.

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**Polishing Compounds**

- **Tripoli (Brown)** for general cutting down and scratch removal on non-ferrous metals. (A-4002 - 6.5 oz. bar)
- **Platinum White** is for final polishing. Produces a deep luster on metals and plastic. (A-4005 - 6.5 oz. bar)
- **Carnauba** is the hardest natural wax available. It is good for producing a high luster on wood. (A-4008 - 2 oz. bar)

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**Grinding, Deburring, Smoothing and Cleaning metals, stone, dice, stones, plastics, and other materials**

- **fiberglass, diecast, plastics, and other materials**

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**Tough blending, smoothing and finishing on metals, plastics & composites**

- **2" Screw-Lok Abrasive Pads** Max. Speed 10,000 RPM
  - Long lasting, aggressive discs for tough blending and finishing. Ideal for deburring, oxide and fire scale removal, cleaning, blending, and smoothing. Layered, durable unitized or non-woven discs constructed with Screw-Lok backing for backing for easy backing and easy attachment to Screw-Lok Disc Mandrel (A-69225).

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**2" Abrasive Wheels with 3/8" Diameter Arbor Hole**

- **Max. Speed should not exceed 15,000 RPM**
- **Aluminum Oxide wheels are used on high tensile, tough materials including stone, porcelain, glass, steel, and other hard materials. They hold their geometry well.**

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**A-10054 Cup Wheel**

- 10062 Cup Wheel
- 10063 Cup Wheel
- 10068 Cup Wheel
- 10064 Cup Wheel
- 10066 Cup Wheel

**A-69212L 8mm Long Hub with 14mm Screw**

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**Uses**

- **A-10664** on edge, NOT flat side.
- **A-10665** on 1/2" edge or 5/8" flat side.
A-69224 Right Angle Adapter mounts on the Angle Grinder Attachment for Foredom H.30®, H.30H, or H.30SJ to convert it into a right angle handpiece.

- Fits into tight spaces and adds versatility to Foredom’s Angle Grinder Attachment.
- Comes with 2 collets for 3/32” and 1/8” shank accessories.
- Requires a Foredom H.30®, H.30H, or H.30SJ handpiece, angle grinder attachment and flex shaft machine.
- Can also use 1/16” and 3/32” collets.

Contact your favorite Foredom dealer to order it. For video instructions, go to www.foredom.net.

Carving, Texturing, Cleaning, Finishing, Blending, Burnishing, Pre-polishing and Polishing all precious & non-precious metals, hard & soft wood, acrylics, and ceramics.

6-packs of 2” Radial Bristle Discs

Scott-Brite® 2” Radial Bristle Discs

Max. Speed 10,000 RPM
3/8” Diameter Arbor Hole Max.

Scott-Brite® patented radial bristle discs are molded plastic discs embedded with a blend of patented 3M Cubitron™ and aluminum oxide mineral. Cubitron is a tough, long lasting ceramic aluminum oxide mineral with sharper edges than regular aluminum oxide. The abrasive filled bristles apply a continuous fresh supply of mineral to the work piece eliminating the need for compounds. The flexible bristles will reach into grooves and contours on irregular surfaces or work on flat areas. They can remove dirt, rust, and oxidation without damage to the underlying surface. They run cool and will not load up with a lot of material. Because no compounds are needed these discs generate far less dust. Varying the speed allows you to obtain different surface textures and finishes.

Installing 2” Radial Bristle Discs

3/8” Diameter Arbor Hole Max.

1. You can mount up to 2 Radial Bristle Discs on the 5mm Short Hub (A-69212) and 4 Radial Bristle Discs on the 8mm Long Hub (A-69212L).
2. Mount the discs so that the bristles curve clockwise from the base to the tip.
3. Remove 5mm Short Hub with 8mm wheel mounting screw from flange wheel and mount radial bristle discs as shown above in Step 1. Important note: Always ensure that the hub extends 1/32” or 1 mm from the bottom of the accessory into the inner wheel arbor (A-69213) to prevent excessive run-out.

2” Roloc End Brushes

Depending on number of discs USE WITH Short or Long Hub

Motor Rotation shown in Forward

2 Discs: Use A-69212 SHORT (5mm) Hub
4 Discs: Use A-69212L LONG (8mm) Hub

Screw-Lok Mandrel.