

Specialty

Tools & Accessories

DLR165K

Digital Laser Rangefinder

"The laser range finder is amazing."

*Rob Yagid
FineHomebuilding.com
New and noteworthy
staff picks from the 2007
International Builders' Show*



Section Guide

Tools

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Accessories

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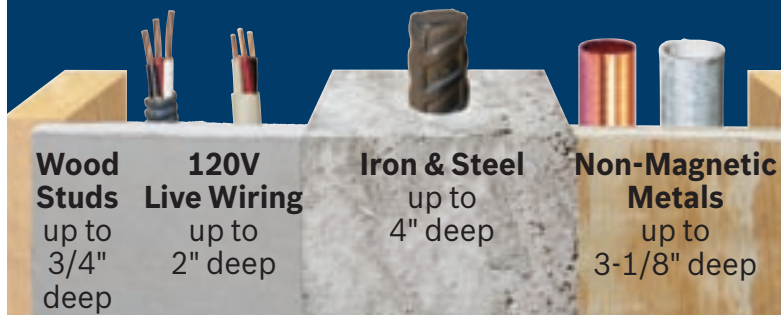


BOSCH

DMD4K Digital Multi-Detector Kit

Your insight to what's inside.

- **Pinpoint** pipes, rebar, live wiring and studs.
- **Deep Metal Detection Capability**
Distinguishes between ferrous (magnetic) and non-ferrous (non-magnetic) metals.



NEW! DMD4K Digital Multi-Detector Kit



Carrying Case
Included

Features

- Multi-Functional Detection of ferrous and non-ferrous metals (rebar, studs, and pipes), wood studs, and live 120V wiring
- Zoom Feature in Metal Mode - Enhanced precision in detecting small objects, locating centers of large objects, and distinguishing between close objects
- Deep Metal Detection Capability - Detects steel up to 4" deep, even in concrete
- Illuminated Ring around marking hole changes from green to red to indicate detection
- Informative LCD Display - Indicates mode, detection strength and more
- Autocalibration in Metal Mode- Metal scan can be started at any location
- On-Tool Marking Pencil Storage - Accepts standard pencil width
- Audible Detection Signal easily switches on and off
- Ergonomic Soft-Grip Area - For sure grip and comfort

Specifications

| Maximum Detection Depths | |
|----------------------------|-----------------------|
| Steel | 4"/100mm |
| Copper | 3-1/8"/80mm |
| Copper wiring (Hot/Live) | 2"/50mm |
| Wood Substructures (Studs) | 3/4"/20mm |
| Tool Length | 8" |
| Dimensions | 8" x 3-1/4" x 1-3/16" |
| Tool Weight | 8.5 oz. |

Includes

9V Battery Included
Marking Pencils (2) Included
Case with Belt Loop 1 609 203 U05

DWM40L(K) Miterfinder™ Digital Protractor



Carrying Bag and Leg Extension
Included With DWM40LK

Features

- Versatile measuring tool, 4 tools in one - Anglefinder, Compound Cut Calculator, Protractor, Level
- Anglefinder - Determines the exact angles of jobsite or workpiece, eliminating guesswork
- Compound Cut Calculator - Automatically determines the exact miter and bevel settings necessary to make each crown molding cut fit precisely.
- Protractor - Precisely positions the workpiece or intended cut line at the desired angle
- Hold Function - To freeze measurements
- Digital readout displays on front and back - For easier use
- Level - Built-in vertical and horizontal spirit levels, accurate to 0 +/- 0.05°
- Rugged construction for durability

DWM40LK also features

- Leg Extension - For accurately measuring hard-to-reach angles
- Carrying Case - Hard thermoformed foam case protects Miterfinder™ and includes an internal pocket for storing Leg Extension

Specifications

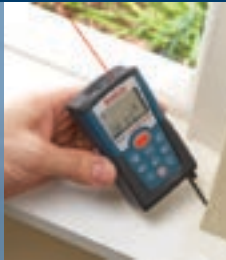
| | |
|---------------------|-----------------------|
| Battery Life | 100 Hours |
| Power | 4 AA 1.5V Batteries |
| Length (in.) | 17" |
| Leg Length | 16" |
| Electronic Accuracy | +/- 0.1° |
| Readout Accuracy | +/- 0.1° |
| Vial Accuracy | +/- 0.05° |
| Battery Life | 100 Hours |
| Dimensions | 17" x 1-3/8" x 2-3/8" |
| Measuring Range | 0° to 220° |
| Weight (lbs.) | 2.4 |

Includes

DWM40LK:
DWM40L (Tool)
Leg Extension 2 607 001 312
Carrying Case 2 610 925 199
DWM40L:
DWM40L (Tool Only) Included

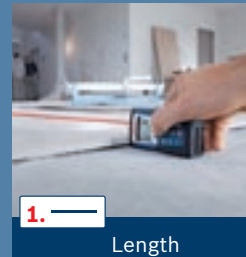
DLR165K Digital Laser Rangefinder

Fast, easy and accurate measuring



- **Accurate to within 1/16"**
- **165' range**
- **Four Measuring Reference Points**
Back, front, swing-out extension pin or tripod mount
- **Pocket-Sized** Only 4" tall

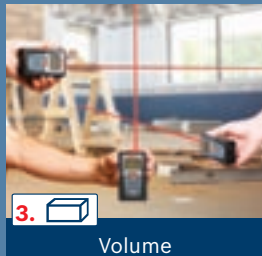
5-Way Laser Measuring Tool



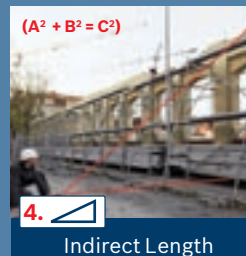
Length



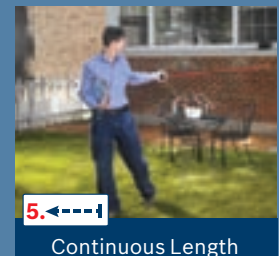
Area



Volume



Indirect Length



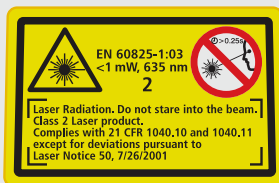
Continuous Length

Specifications

| | |
|--------------------------|-----------------------------|
| Range | 2" to 165 ft. |
| Measuring Accuracy, Typ. | +/- 1/16" |
| Measuring Time, Typ. | 0.5 seconds |
| Measuring Time, Max. | 4 seconds max. |
| Dimensions | 4" x 2-15/16" x 1-1/4" |
| Battery Service Life | Approx. 30,000 Measurements |
| Laser | Class 2, 635 nm, < mW |
| Weight | 6.35 oz. |

Includes

| | |
|---------------------|--------------------|
| AAA Batteries (4) |Included |
| Handstrap |1 609 203 R97 |
| Case with Belt Loop |1 609 203 U10 |



Features

- Precision Laser Measuring Technology - Laser beam does both pointing and measuring
- 165-foot range
- Four Measuring Reference Points - Back, front, swing-out extension pin for measuring from inside corners or channels, or center of optional tripod
- Pocket-Sized Only 4" tall
- Three Measurement Systems - Feet and inches, decimal feet, and metric
- Length, Area and Volume Measuring Capability
- Continuous Measurement Mode - Measurement automatically adjusts when walking-off distances
- Continuous Laser Mode - Reduces the number of key strokes when making rapid sequence of measurements
- Indirect Length Measurement Mode - Calculates inaccessible distances that cannot be measured directly due to obstruction or lack of reflecting surface using Pythagorean theorem ($a^2 + b^2 = c^2$)
- Ergonomic Soft-Grip Area - For sure grip and comfort

NEW! DLR165K Digital Laser Rangefinder Kit



Carrying Case Included

Laser Accessories

DLA001 Laser View-Enhancing Glasses

- Enhances visibility of points and lines created by laser rangefinders and leveling tools



DLA002 Laser View-Enhancing Target

- Enhances visibility of points and lines created by laser rangefinders and leveling tools
- Highly reflective for added visibility
- Hole for mounting with nail, pin or wire-tie for attachment
- Magnetic pads on back for attachment to flat steel surfaces
- 6" x 6-11/16"



1575A

Foam Rubber
Cutter



Features

- Heavy-duty for fast, production cutting of all densities of foam rubber and flexible plastic foams
- Versatile - Will cut all types of carpeting
- Quick tool-free blade change
- Long, paddle-type switch and slim motor housing are easy to grip

Specifications

| | |
|-------------------------|--------------------|
| Rating | 120V AC |
| Amperage | 3.2 |
| Available Blade Lengths | 3", 5", 8", or 12" |
| No Load Strokes/Min. | 3,200 |
| Length (in.) | 9-3/4" |
| Weight (lbs.) | 3.3 |

Includes

Tool Body/Motor Unit Only - Order Blades, Guides & Footplate Separately.

1944LCDK

Programmable Heat Gun Kit



Carrying Case
Included

Features

- 4 Easily-Storeable Temperature and Airflow Combinations provide one-button access to the exact settings needed for key applications
- Liquid Crystal Display - For precise setting of temperature and airflow
- 109 temperature settings - Precision temperature control with setting every 10° from 120° - 1200° F
- 10 blower air volume settings - Precision airflow control from 3.6 to 17.6 CFM (cubic feet per minute)
- Cool air setting - Allows heating element to cool down
- Ergonomic soft grip handle - For comfort and control
- Integral stand - Allows stationary bench-top use

Specifications

| | |
|------------------------------|-------------------|
| Rating | 120 V-60 Hz |
| Amperage | 13 |
| Temperature Range | 120 - 1200° F |
| Temperature Adjustment Steps | 10° F |
| Temperature Precision | +/-10° F |
| Blower Air Volume | 3.6 to 17.6 C.F.M |
| Length (in.) | 9-7/8" |
| Tool Weight (lbs.) | 2 |

Includes

Carrying CaseIncluded

This tool not available in Canada

1942

Heat Gun



Features

- Powerful blower - Provides a high volume of air needed for industrial applications
- Air intake regulator - Adjusts the temperature to the requirements of the job
- Cool air setting - Allows heating element to cool down
- Integral adjustable stand - Allows stationary use with multi-position holder

Specifications

| | |
|----------------------|---------------------|
| Rating | 120V AC |
| Amperage | 14.3 |
| Temperature Settings | 750 - 1000°F (Max.) |
| Blower Air Volume | 23 C.F.M. |
| Length (in.) | 8" |
| Tool Weight (lbs.) | 3.5 |

Foam Cutter Accessories

| Size | Blade Pair | Guide | Item # |
|----------------|------------|-------|---------------|
| 3" | Blade Pair | | 2 607 018 013 |
| 3" | | Guide | 2 608 135 023 |
| 5" | Blade Pair | | 2 607 018 010 |
| 5" | | Guide | 2 608 135 020 |
| 8" | Blade Pair | | 2 607 018 011 |
| 8" | | Guide | 2 608 135 021 |
| 12" | Blade Pair | | 2 607 018 012 |
| 12" | | Guide | 2 608 135 022 |
| Fits All Sizes | Footplate | | 2 608 000 908 |



Blade Pair



Guide



Footplate

Heat Gun Accessories

• Fits Item # 1944LCDK

| Item # | Item Description |
|--------|-------------------|
| HG010 | Heat Spreader |
| HG030 | Deflector |
| HG040 | Reflector |
| HG020 | Heat Concentrator |



Heat Spreader



Deflector



Reflector



Heat Concentrator

• Fits Item # 1942

| Item # | Item Description |
|---------------|-------------------|
| 3 609 390 500 | Small Reflector |
| 3 609 390 501 | Large Reflector |
| 3 609 390 502 | Heat Concentrator |
| 3 609 390 503 | Heat Spreader |



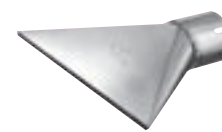
Small Reflector



Large Reflector



Heat Concentrator



Heat Spreader

Dust Extraction & Accessories

Specifications

| | |
|-------------------------------------|------------------------|
| Rating | 120V |
| Max. Motor HP | 6.5 |
| Frequency | 50-60 Hz |
| Canister Volume (gross) | 13.3 gal. (50 ltr.) |
| Canister Volume (net) | 11.35 gal. (45 ltr.) |
| Dust Bag Volume (net) | 5.5 gal. (21 ltr.) |
| Air Flow | 130 CFM (61 ltr./sec.) |
| Static Water Lift | 100 in. |
| Vacuum Suction Pressure | 248 millibars |
| Filter Cartridge Surface Area (Ea.) | 4300 cm ² |
| No. of Filter Cartridges | 2 |
| Total Filter Surface Area | 8600 cm ² |
| Sound Pressure Level | 69 db |
| Weight (lbs.) | 45.7 with handle |
| Cord Length (ft.) | 25 |
| Hose Length | 9.85ft. (3 meters) |
| Hose Port Inside Diameter | 2-1/4" |

Includes

| | |
|-----------------------------|--------|
| 35mm, 9.85 Ft. Locking Hose | VAC021 |
| Filters (2) | VAC012 |
| Dust Bag | VAC013 |

Features

- 4 modes of operation for maximum vacuuming versatility: - Regular vacuum, Power Tool Activation, Pulse-Clean™, Pulse-Clean™ with Power Tool Activation
- Activation by power tool - Allows power tool's switch to turn vac on and off. 7-second run-on after power tool is turned off to clear hose of remaining debris.
- Power Broker™ Dial - For allocating power (15 amps on a 15 amp circuit, 20 amps on a 20 amp circuit) between vacuum cleaner and connected power tool to optimize usage of the available power and avoid blown circuits. Also allows suction control for other purposes.
- Bosch exclusive Pulse-Clean™ electromagnetic filter cleaning system - Shakes the dual filter cartridges to remove dust and maintain maximum suction power. Pulse-Clean™ can be activated manually, or automatically, when a connected power tool is switched off (a helpful remote control.)
- Elevated filter location - Filters sit above maximum dust or water accumulation height to help maintain maximum airflow and suction power
- Fine dust filtration capabilities - Captures 99.93% particles of 3.0 microns and larger in diameter
- Large rear wheels and front casters with rubber tires, plus push handle, for easy transportation.
- Carrying handle - For easier lifting
- 6.5 Max HP / 11.1-Amp motor with soft-start and bypass cooling - Powerful suction with features to protect motor and extend its life
- Wet vacuuming capability with water level sensor and drain valve - Automatically shuts down vacuum when water reaches a maximum height to protect motor
- Rugged construction / polypropylene tank - Durable and rust free
- Low center of gravity - For excellent stability
- Cord wrap - For convenient storage of cord
- Compact size - Fits in crowded storage vans and tight storage areas
- Agency approved

NEW! 3931A

Airsweep™ 13 Gallon Wet/Dry Vacuum Cleaner with Power Broker™



Vacuum Hoses

Airsweep™ Friction-Fit Vacuum Hoses

- Connect many Bosch power tools and dust extraction hood accessories to vacuum cleaners that have openings for standard 2-1/4" hoses
- Standard 2-1/4" friction fit

| Item # | Description |
|--------|---|
| VAC001 | Lightweight, flexible 19mm, 15-ft. hose |
| VAC005 | Swivel nozzle 35mm, 5-meter (16.4 ft.) hose |



Airsweep™ Locking Vacuum Hoses

- Connect many Bosch power tools and dust extraction hood accessories to Bosch 3931 and 3931A Vacuum Cleaners
- For use ONLY with Bosch 3931 and 3931A Vacuum Cleaners (Not compatible with other vacuum cleaners)
- Anti-static model hoses prevent static shock and cling



| Item # | Description |
|--------|---|
| VAC006 | 35mm 5-Meter (16.4 ft.) - swivels at both ends of hose |
| VAC007 | Anti-static 35mm 3-meter (9.85 ft.) - swivels at tool end of hose |
| VAC008 | Anti-static 35mm 5-meter (16.4 ft.) - swivels at tool end of hose |
| VAC009 | Anti-static 19mm 3-meter (9.85 ft.) - swivels at tool end of hose |
| VAC010 | Anti-static 19mm 5-meter (16.4 ft.) - swivels at tool end of hose |

Vacuum Hose Adapters

VAC002 Airsweep™ Vacuum Hose Adapter

- Connects 1-1/4" and 1-1/2" hoses to tools or attachments that have ports for 35mm hoses or 19mm hoses
- Fits inside 35mm ports on Bosch router, planer, grinder, and circular saw tools & accessories
- Fits over 19mm ports on Bosch sander, jigsaw, and hammer tools & accessories



VAC003 Airsweep™ Vacuum Hose Adapter

- Connects 35mm hoses to tools that have ports for 1-1/4" hoses



VAC004 Airsweep™ Vacuum Hose Adapter

- Connects 35mm hoses to tools that have ports for 2-1/2" hoses



VAC020 Airsweep™ Vacuum Hose Adapter

- Connects 2-1/2" hoses to tools that have ports for 35mm hoses



Vacuum Attachments

VAC011 Airsweep™ 6-pc. Vacuum Wand and Nozzle Kit

- Fits 35mm hoses and most 1-1/2" vacuum hoses
- 2 Straight Wands, 1 Curved Wand, 1 Floor Nozzle Set with 3 Inserts (smooth floor, carpet & squeegee) - VAC016, 1 Crevice Tool - VAC017, 1 Brush - VAC018



VAC016 Airsweep™ 3-pc. Vacuum Floor Nozzle Set

- Fits 35mm wands, hoses, and most 1-1/2" wands and hoses
- 1 Smooth-floor Nozzle, 1 Carpet Nozzle, 1 Squeegee Insert



Airsweep™ Vacuum Attachments

- Fits 35mm wands, hoses and most 1-1/2" wands and hoses



| Item # | Description |
|--------|---|
| VAC015 | Universal Vacuum Floor Nozzle - for carpet or smooth surfaces |
| VAC017 | Vacuum Crevice Tool - for clean-up in tight spaces |
| VAC018 | Vacuum Brush |

VAC014 Airsweep™ Wire Attachment Basket

- Stores Bosch 3931 and 3931A Vacuum Cleaner attachments
- Fits on the rear of 3931 and 3931A Vacuum Cleaners



Vacuum Filters & Bags

Airsweep™ Vacuum Filters

- Square filter geometry makes dust less likely to get trapped - High suction power is maintained
- Cartridge design makes filter installation extremely easy
- Filters stay in the vacuum cleaner even when wet vacuuming



| Item # | Description |
|--------|--|
| VAC012 | Polyester Filter Cartridges (2 pack) - capture 99.93% of particles 3.0 microns or larger in diameter |
| VAC019 | HEPA Filter Cartridges (2 pack) - capture 99.997% of particles 0.3 microns in diameter or larger |

VAC013 Airsweep™ Vacuum Dust Bags (5 pack)

- Replacement dust bags for Bosch 3931 and 3931A Vacuum Cleaner
- For easier, cleaner disposal of vacuumed materials.
- Only for use when vacuuming dry materials
- Recommended for vacuuming fine particles like drywall dust, plaster, cement, soot.

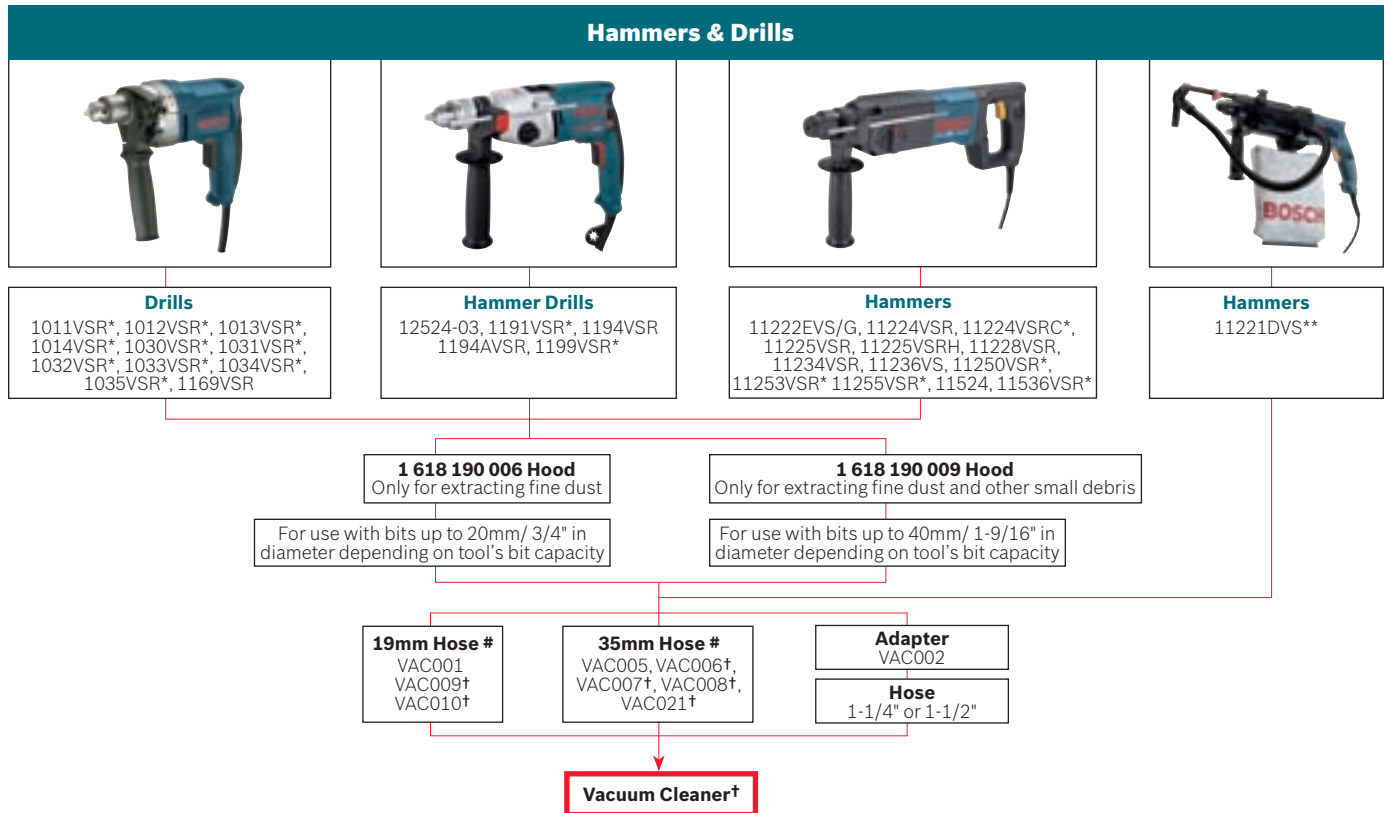


VAC022 Airsweep™ Heavy-Duty Bags for Dry or Wet Material (3 pack)

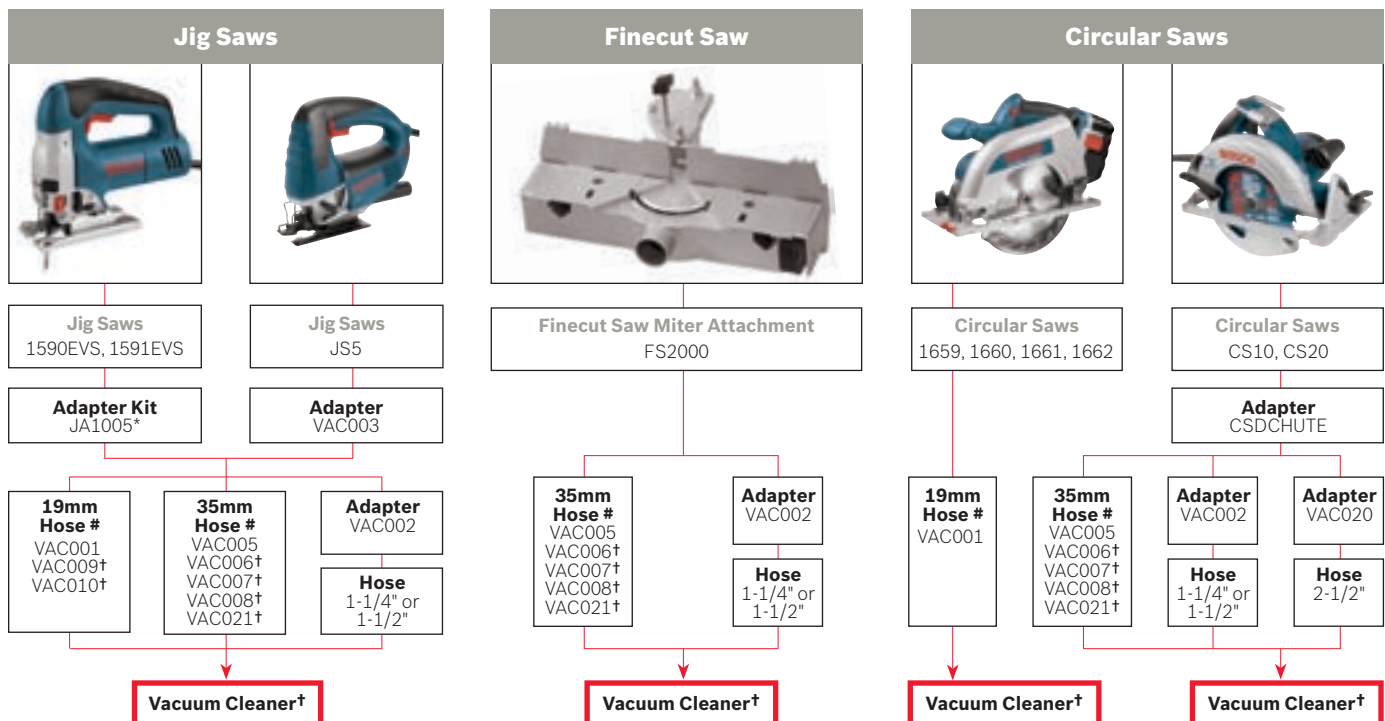
- Heavy-duty dust bags for Bosch 3931 and 3931A Vacuum Cleaner, for easier, cleaner disposal of wet or dry vacuumed materials.
- 2-layer, water-proof plastic fleece plus fine-pore cellulose filter paper
- Exceptionally tear-resistant
- Ideally suited for slurry-suction applications



Dust Extraction Compatibility Charts



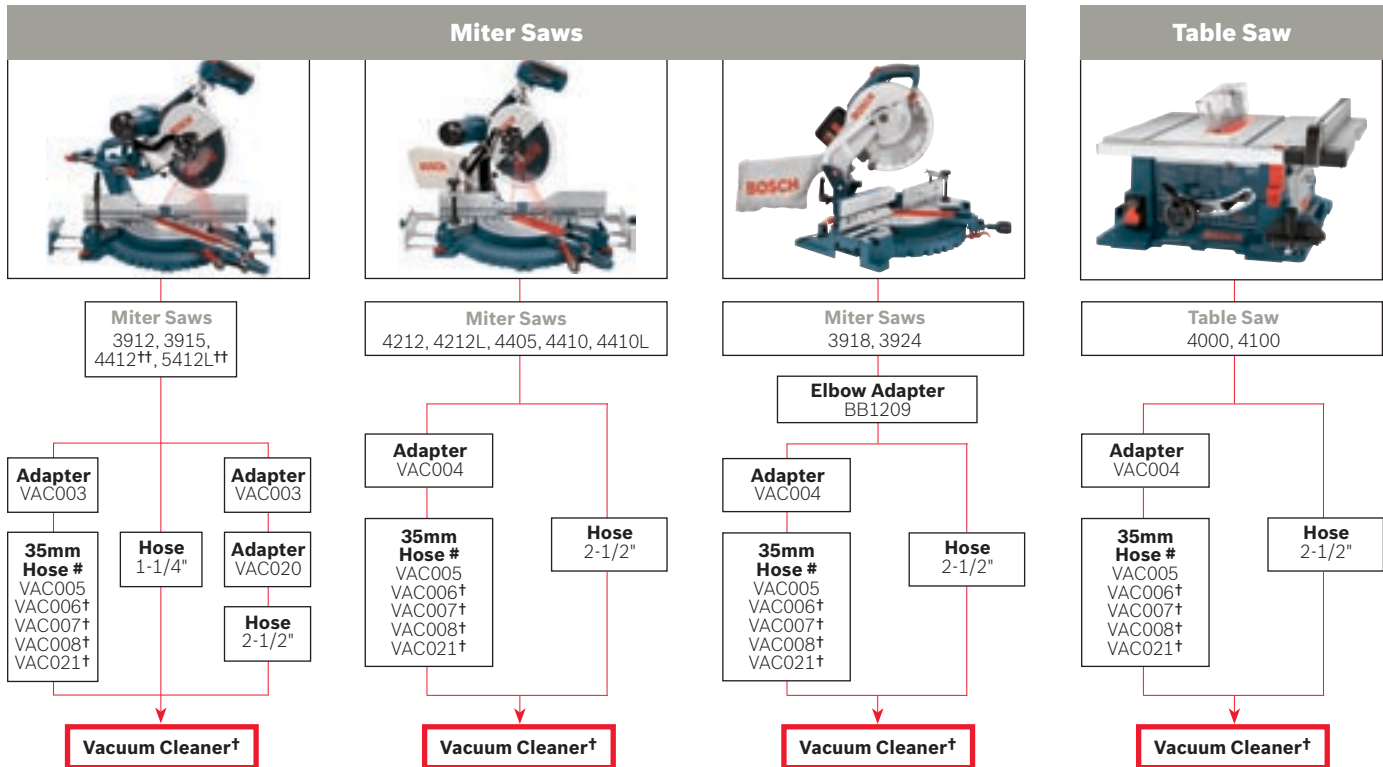
*When used with a dust extraction hood, this tool requires auxiliary handle 1612025024, which is sold separately and is different from this tool's standard-equipment auxiliary handle.
 **11221DVS includes 1 618 190 006 hood.
 †Competitor vacuum cleaners' ports won't accept VAC006-VAC021 locking hoses. They are only for use with Bosch 3931A and 3931 vacs.



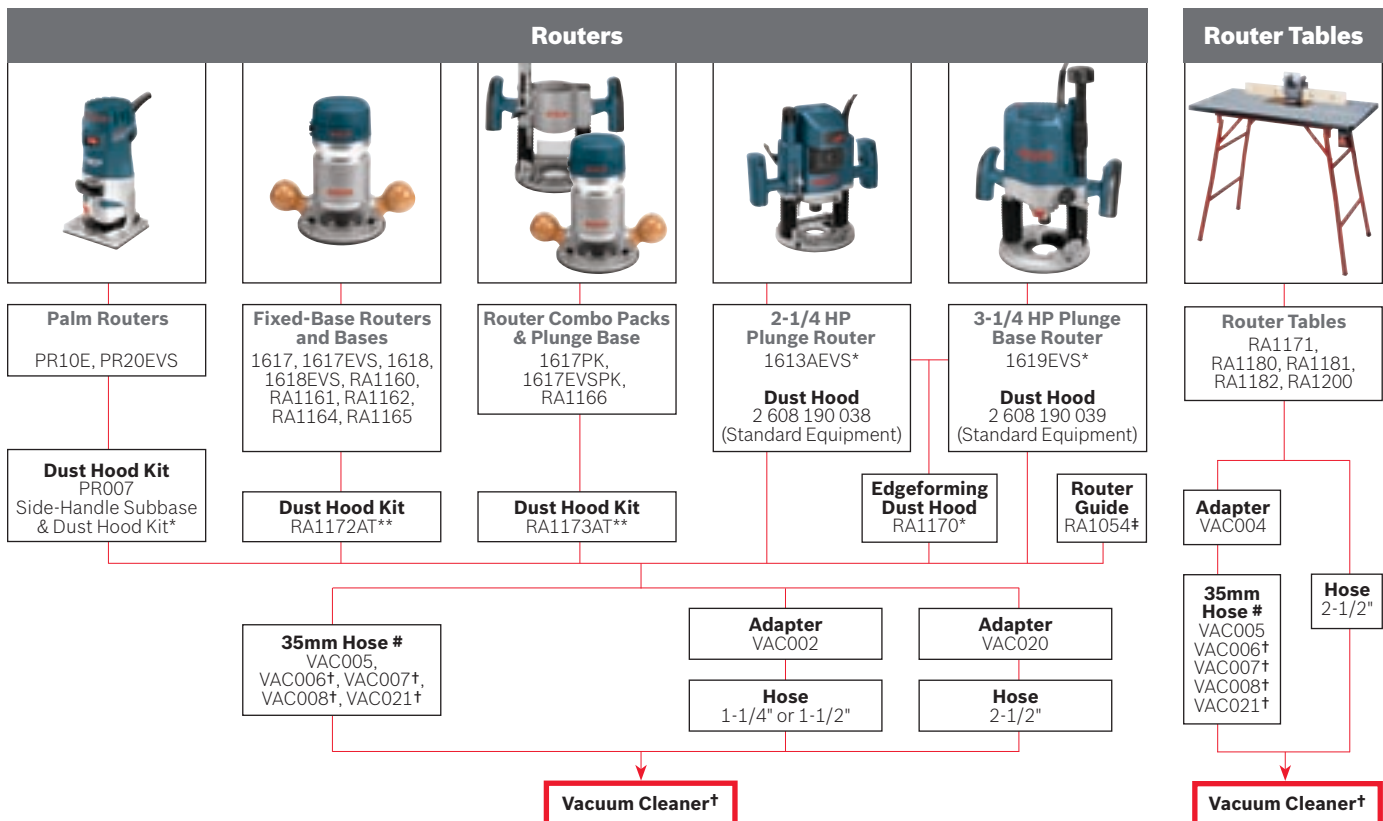
*Kit includes VAC002 Adapter

†Competitor vacuum cleaners' ports won't accept VAC006-VAC021 locking hoses. They are only for use with Bosch 3931A and 3931 vacs.





†Competitor vacuum cleaners' ports won't accept VAC006-VAC021 locking hoses. They are only for use with Bosch 3931A and 3931 vacs.
 ††4412 and 5412L can also be connected to a 2-1/2" hose using adapter 2 605 702 022.



†Competitor vacuum cleaners' ports won't accept VAC006-VAC021 locking hoses. They are only for use with Bosch 3931A and 3931 vacs.

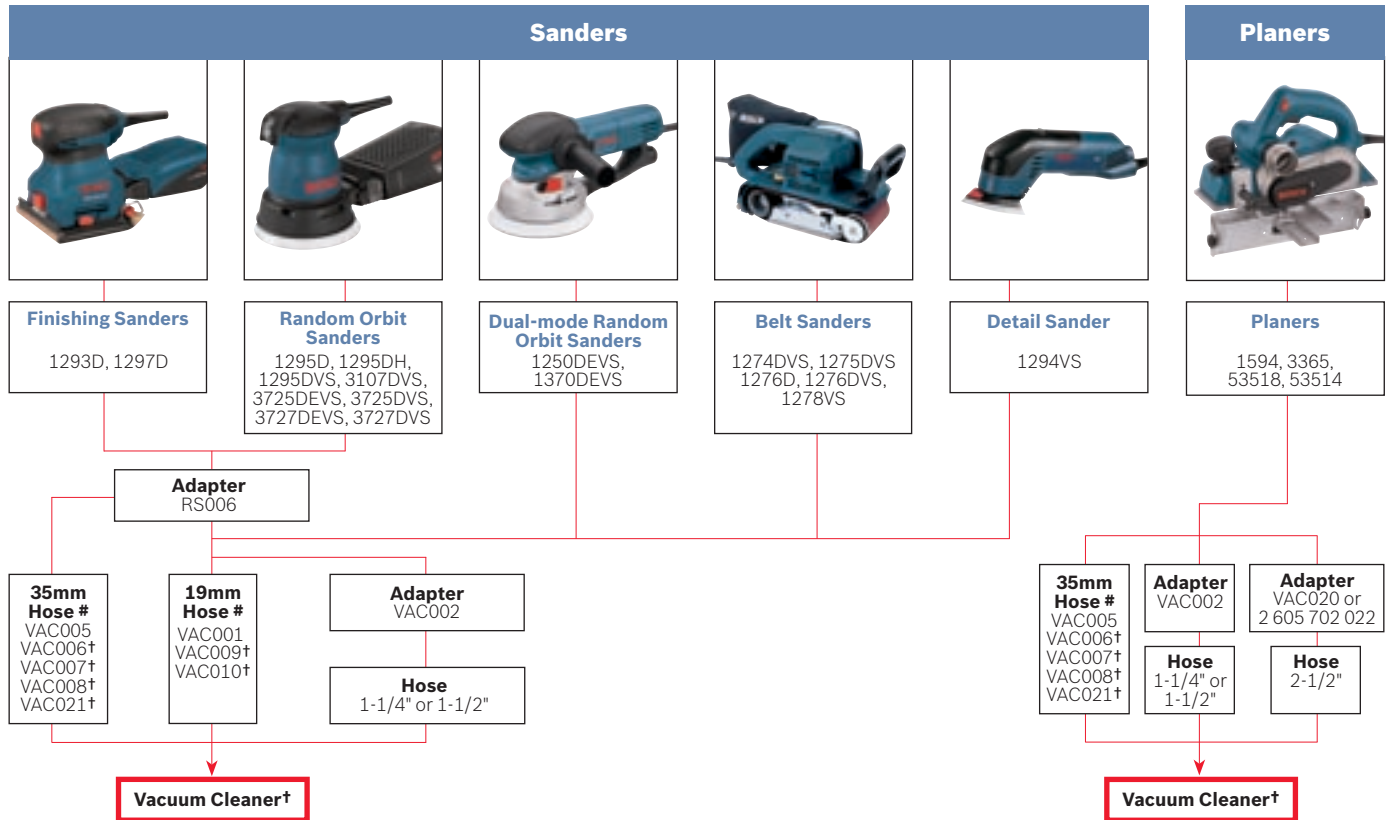
*Includes VAC002 Adapter.

**Includes VAC002 Adapter. The RA1170 Edge-Forming Dust Extraction Hood is also included in the RA1172AT and RA1173AT Kits and can be used with the RA1160, RA1161, RA1162 and RA1166 router bases.

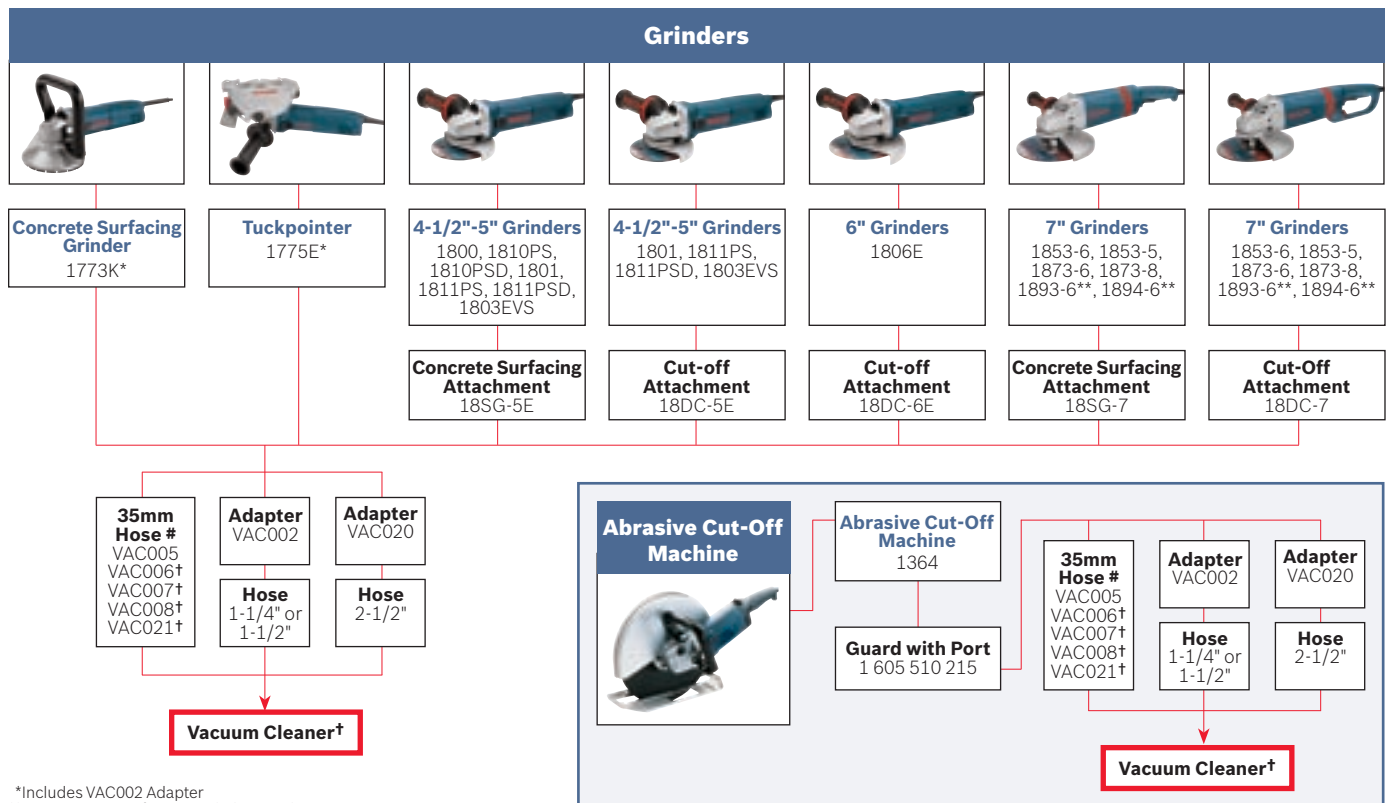
†RA1054 Router guide can be used with any of these routers except the palm routers. Includes VAC002 Adapter.



Dust Extraction Compatibility Charts



†Competitor vacuum cleaners' ports won't accept VAC006-VAC021 locking hoses. They are only for use with Bosch 3931A and 3931 vacs.



*Includes VAC002 Adapter

**Requires 7" Disc for use with the attachment

†Competitor vacuum cleaners' ports won't accept VAC006-VAC021 locking hoses. They are only for use with Bosch 3931A and 3931 vacs.





Bosch Tap & Die

Heat Treated Carbon Steel

High quality heat treated carbon steel ensures long life and clean, accurate threads.

Rolled Threads

Rolled threads provide an accurate measurement versus machined threads.

Black Oxide Coating

Chemical oxidation process applied to high carbon steel threading tools. The black oxide coating provides:

- Longer life for the tool by increasing corrosion resistance
- Less torque required for use due to higher lubricity
- More professional (high-tech) appearance

Laser Etched Marking

Easy identification of tool size that does not wear off.



Product Info - Tap Point Styles

Taper

- 8-10 chamfered threads at the tip ideal for starting threads in tough materials
- Longest chamfer of all three types
- Commonly used in through holes and with materials where a guide is necessary
- Requires less torque because of more working teeth

Plug (most widely used)

- General purpose tap, with 3-5 chamfered threads
- Used when there is sufficient room on a blind hole & tapping to the bottom is not important

Bottoming

- Used after the threads have been started
- 1-3 chamfered threads at the tip is just enough to start the hole and taps all the way to the bottom

8 - 10 threads



3 - 5 threads



1 - 2 threads



Tap & Die Threading Tools

Introduction

Bosch Threading Tools start with the highest quality carbon steel that is precision shaped, and then put through a chemical coating process giving them a distinctive black color. The Black Oxide coating means longer tool life, with maximum corrosion protection and maximum cutting performance over ordinary threading tools.

Bosch Threading Tools come in a wide range of fractional, metric, machine screw, and pipe sizes. All tools are laser-marked with tool size, starting side and corresponding drill size (where applicable) for a permanent and professional appearance.

Black Oxide Plug Taps (bulk)



| Item # | Description | # Pieces/Pack | Order in Multiples of | Master Pack Quantity | Corresponding Drill Size (if applicable) |
|--------|----------------------------------|---------------|-----------------------|----------------------|--|
| 95397 | 4-40 NC Plug Tap Black Oxide | 5 | 5 | 100 | #43 |
| 95400 | 4-36 NS Plug Tap Black Oxide | 5 | 5 | 100 | #44 |
| 95403 | 5-40 NC Plug Tap Black Oxide | 5 | 5 | 100 | #38 |
| 95406 | 6-32 NC Plug Tap Black Oxide | 5 | 5 | 100 | #36 |
| 95409 | 8-32 NC Plug Tap Black Oxide | 5 | 5 | 100 | #29 |
| 95412 | 10-24 NC Plug Tap Black Oxide | 5 | 5 | 100 | #25 |
| 95415 | 10-32 NF Plug Tap Black Oxide | 5 | 5 | 100 | #21 |
| 95418 | 12-24 NC Plug Tap Black Oxide | 5 | 5 | 100 | #16 |
| 95421 | 14-20 NS Plug Tap Black Oxide | 5 | 5 | 100 | #10 |
| 95426 | 3/16-24 NS Plug Tap Black Oxide | 5 | 5 | 100 | #26 |
| 95429 | 3/16-32 NS Plug Tap Black Oxide | 5 | 5 | 100 | #22 |
| 95432 | 1/4-20 NC Plug Tap Black Oxide | 5 | 5 | 100 | #7 |
| 95435 | 1/4-28 NF Plug Tap Black Oxide | 5 | 5 | 100 | #3 |
| 95438 | 5/16-18 NC Plug Tap Black Oxide | 5 | 5 | 100 | Ltr. F |
| 95441 | 5/16-24 NF Plug Tap Black Oxide | 5 | 5 | 100 | Ltr. I |
| 95444 | 3/8-16 NC Plug Tap Black Oxide | 5 | 5 | 100 | 5/16 |
| 95447 | 3/8-24 NF Plug Tap Black Oxide | 5 | 5 | 100 | Ltr. Q |
| 95450 | 7/16-14 NC Plug Tap Black Oxide | 5 | 5 | 100 | Ltr. U |
| 95453 | 7/16-20 NF Plug Tap Black Oxide | 5 | 5 | 100 | 25/64 |
| 95456 | 1/2-13 NC Plug Tap Black Oxide | 5 | 5 | 100 | 27/64 |
| 95459 | 1/2-20 NF Plug Tap Black Oxide | 5 | 5 | 100 | 29/64 |
| 95462 | 9/16-12 NC Plug Tap Black Oxide | 1 | 1 | 50 | 31/64 |
| 95465 | 9/16-18 NF Plug Tap Black Oxide | 1 | 1 | 50 | 33/64 |
| 95468 | 5/8-11 NC Plug Tap Black Oxide | 1 | 1 | 50 | 17/32 |
| 95469 | 5/8-18 NF Plug Tap Black Oxide | 1 | 1 | 50 | 37/64 |
| 95471 | 3/4-10 NC Plug Tap Black Oxide | 1 | 1 | 50 | 21/32 |
| 95474 | 3/4-16 NF Plug Tap Black Oxide | 1 | 1 | 50 | 11/16 |
| 95477 | 7/8-9 Plug Tap Black Oxide | 1 | 1 | 25 | 49/64 |
| 95480 | 7/8-14 Plug Tap Black Oxide | 1 | 1 | 25 | 13/16 |
| 95483 | 1-8 Plug Tap Black Oxide | 1 | 1 | 25 | 7/8 |
| 95486 | 1-12 Plug Tap Black Oxide | 1 | 1 | 25 | 29/32 |
| 96303 | 3mm x .50 Plug Tap Black Oxide | 5 | 5 | 100 | #40 |
| 96304 | 3mm x .60 Plug Tap Black Oxide | 5 | 5 | 100 | #39 |
| 96305 | 4mm x .70 Plug Tap Black Oxide | 5 | 5 | 100 | 1/8 |
| 96306 | 4mm x .75 Plug Tap Black Oxide | 5 | 5 | 100 | 1/8 |
| 96307 | 5mm x .80 Plug Tap Black Oxide | 5 | 5 | 100 | 11/64 |
| 96308 | 5mm x .90 Plug Tap Black Oxide | 5 | 5 | 100 | #20 |
| 96309 | 6mm x 1.00 Plug Tap Black Oxide | 5 | 5 | 100 | 13/64 |
| 96310 | 7mm x 1.00 Plug Tap Black Oxide | 5 | 5 | 100 | 15/64 |
| 96311 | 8mm x 1.25 Plug Tap Black Oxide | 5 | 5 | 100 | 17/64 |
| 96312 | 9mm x 1.00 Plug Tap Black Oxide | 5 | 5 | 100 | 5/16 |
| 96313 | 9mm x 1.25 Plug Tap Black Oxide | 5 | 5 | 100 | 5/16 |
| 96314 | 10mm x 1.25 Plug Tap Black Oxide | 5 | 5 | 100 | 11/32 |
| 96315 | 10mm x 1.50 Plug Tap Black Oxide | 5 | 5 | 100 | 11/32 |
| 96316 | 11mm x 1.50 Plug Tap Black Oxide | 5 | 5 | 100 | 3/8 |
| 96317 | 12mm x 1.50 Plug Tap Black Oxide | 5 | 5 | 100 | 13/32 |
| 96318 | 12mm x 1.75 Plug Tap Black Oxide | 5 | 5 | 100 | 27/64 |


Black Oxide Taper Taps (bulk)


| Item # | Description | # Pieces/Pack | Order in Multiples of | Master Pack Quantity | Corresponding Drill Size (if applicable) |
|--------|----------------------------------|---------------|-----------------------|----------------------|--|
| 95399 | 4-40 NC Taper Tap Black Oxide | 5 | 5 | 100 | #43 |
| 95402 | 4-36 NS Taper Tap Black Oxide | 5 | 5 | 100 | #44 |
| 95408 | 6-32 NC Taper Tap Black Oxide | 5 | 5 | 100 | #36 |
| 95411 | 8-32 NC Taper Tap Black Oxide | 5 | 5 | 100 | #29 |
| 95414 | 10-24 NC Taper Tap Black Oxide | 5 | 5 | 100 | #25 |
| 95417 | 10-32 NF Taper Tap Black Oxide | 5 | 5 | 100 | #21 |
| 95420 | 12-24 NC Taper Tap Black Oxide | 5 | 5 | 100 | #16 |
| 95424 | 14-20 NS Taper Tap Black Oxide | 5 | 5 | 100 | #10 |
| 95428 | 3/16-24 NS Taper Tap Black Oxide | 5 | 5 | 100 | #26 |
| 95431 | 3/16-32 NS Taper Tap Black Oxide | 5 | 5 | 100 | #22 |
| 95434 | 1/4-20 NC Taper Tap Black Oxide | 5 | 5 | 100 | #7 |
| 95437 | 1/4-28 NF Taper Tap Black Oxide | 5 | 5 | 100 | #3 |
| 95440 | 5/16-18 NC Taper Tap Black Oxide | 5 | 5 | 100 | Ltr. F |
| 95443 | 5/16-24 NF Taper Tap Black Oxide | 5 | 5 | 100 | Ltr. I |
| 95446 | 3/8-16 NC Taper Tap Black Oxide | 5 | 5 | 100 | 5/16 |
| 95449 | 3/8-24 NF Taper Tap Black Oxide | 5 | 5 | 100 | Ltr. Q |
| 95452 | 7/16-14 NC Taper Tap Black Oxide | 5 | 5 | 100 | Ltr. U |
| 95455 | 7/16-20 NF Taper Tap Black Oxide | 5 | 5 | 100 | 25/64 |
| 95458 | 1/2-13 NC Taper Tap Black Oxide | 5 | 5 | 100 | 27/64 |
| 95461 | 1/2-20 NF Taper Tap Black Oxide | 5 | 5 | 100 | 29/64 |

Black Oxide Bottoming Taps (bulk)


| Item # | Description | # Pieces/Pack | Order in Multiples of | Master Pack Quantity | Corresponding Drill Size (if applicable) |
|--------|--------------------------------------|---------------|-----------------------|----------------------|--|
| 95398 | 4-40 NC Bottoming Tap Black Oxide | 5 | 5 | 100 | #43 |
| 95401 | 4-36 NS Bottoming Tap Black Oxide | 5 | 5 | 100 | #44 |
| 95407 | 6-32 NC Bottoming Tap Black Oxide | 5 | 5 | 100 | #36 |
| 95410 | 8-32 NC Bottoming Tap Black Oxide | 5 | 5 | 100 | #29 |
| 95413 | 10-24 NC Bottoming Tap Black Oxide | 5 | 5 | 100 | #25 |
| 95416 | 10-32 NF Bottoming Tap Black Oxide | 5 | 5 | 100 | #21 |
| 95419 | 12-24 NC Bottoming Tap Black Oxide | 5 | 5 | 100 | #16 |
| 95423 | 14-20 NS Bottoming Tap Black Oxide | 5 | 5 | 100 | #10 |
| 95427 | 3/16-24 NS Bottoming Tap Black Oxide | 5 | 5 | 100 | #26 |
| 95430 | 3/16-32 NS Bottoming Tap Black Oxide | 5 | 5 | 100 | #22 |
| 95433 | 1/4-20 NC Bottoming Tap Black Oxide | 5 | 5 | 100 | #7 |
| 95436 | 1/4-28 NF Bottoming Tap Black Oxide | 5 | 5 | 100 | #3 |
| 95439 | 5/16-18 NC Bottoming Tap Black Oxide | 5 | 5 | 100 | Ltr. F |
| 95442 | 5/16-24 NF Bottoming Tap Black Oxide | 5 | 5 | 100 | Ltr. I |
| 95445 | 3/8-16 NC Bottoming Tap Black Oxide | 5 | 5 | 100 | 5/16 |
| 95448 | 3/8-24 NF Bottoming Tap Black Oxide | 5 | 5 | 100 | Ltr. Q |
| 95451 | 7/16-14 NC Bottoming Tap Black Oxide | 5 | 5 | 100 | Ltr. U |
| 95454 | 7/16-20 NF Bottoming Tap Black Oxide | 5 | 5 | 100 | 25/64 |
| 95457 | 1/2-13 NC Bottoming Tap Black Oxide | 5 | 5 | 100 | 27/64 |
| 95460 | 1/2-20 NF Bottoming Tap Black Oxide | 5 | 5 | 100 | 29/64 |

Black Oxide Pipe Taps (bulk)


| Item # | Description | # Pieces/Pack | Order in Multiples of | Master Pack Quantity | Corresponding Drill Size (if applicable) |
|--------|--|---------------|-----------------------|----------------------|--|
| 95492 | 1/8-27 NPT Pipe Tap Black Oxide | 5 | 5 | 100 | Ltr. R |
| 95495 | 1/4-18 NPT Pipe Tap Black Oxide | 5 | 5 | 100 | 7/16 |
| 95498 | 3/8-18 NPT Pipe Tap Black Oxide | 5 | 5 | 100 | 37/64 |
| B44504 | 1/2-14 NPT Pipe Tap Black Oxide | 1 | 1 | 20 | 45/64 |
| B44505 | 3/4-14 NPT Pipe Tap Black Oxide | 1 | 1 | 10 | 59/64 |
| B44506 | 1-11 1/2 NPT Pipe Tap Black Oxide | 1 | 1 | 24 | 1-5/32 |
| B44507 | 1 1/4-11 1/2 NPT Pipe Tap Black Oxide | 1 | 1 | 24 | 1-1/2 |
| B44508 | 1 1/2-11 1/2 NPT Pipe Tap Black Oxide | 1 | 1 | 10 | 1-47/64 |
| B44509 | 2-11 1/2 NPT Pipe Tap Black Oxide | 1 | 1 | 10 | 2-7/32 |
| 96319 | 1/8-28 BSP Metric Pipe Tap Black Oxide | 5 | 5 | 100 | Ltr. R |

Black Oxide Pipe Dies (bulk)


| Item # | Description | # Pieces/Pack | Order in Multiples of | Master Pack Quantity | Corresponding Drill Size (if applicable) |
|--------|------------------------------------|---------------|-----------------------|----------------------|--|
| 95739 | 1/8-27 Pipe Die Black Oxide | 5 | 5 | 100 | — |
| 95738 | 1/4-18 Pipe Die Black Oxide | 5 | 5 | 100 | — |
| 95740 | 1/4-18 1 7/16 Pipe Die Black Oxide | 1 | 1 | 25 | — |
| 95722 | 3/8-18 1 7/8 Pipe Die Black Oxide | 1 | 1 | 25 | — |
| 95735 | 1/2-14 1 7/8 Pipe Die Black Oxide | 1 | 1 | 25 | — |
| 96336 | 1/8-28 Metric Pipe Die Black Oxide | 5 | 5 | 100 | — |

Tap & Die Threading Tools

Black Oxide Hex Dies (bulk)



| Item # | Description | # Pieces/Pack | Order in Multiples of | Master Pack Quantity | Corresponding Drill Size (if applicable) |
|--------|------------------------------------|---------------|-----------------------|----------------------|--|
| 95680 | 4-40 Hex Die Black Oxide | 5 | 5 | 100 | — |
| 95683 | 6-32 Hex Die Black Oxide | 5 | 5 | 100 | — |
| 95686 | 8-32 Hex Die Black Oxide | 5 | 5 | 100 | — |
| 95689 | 10-24 Hex Die Black Oxide | 5 | 5 | 100 | — |
| 95692 | 10-32 Hex Die Black Oxide | 5 | 5 | 100 | — |
| 95695 | 12-24 Hex Die Black Oxide | 5 | 5 | 100 | — |
| 95698 | 14-20 Hex Die Black Oxide | 5 | 5 | 100 | — |
| 95703 | 3/16-24 Hex Die Black Oxide | 5 | 5 | 100 | — |
| 95706 | 3/16-32 Hex Die Black Oxide | 5 | 5 | 100 | — |
| 95709 | 1/4-20 Hex Die Black Oxide | 5 | 5 | 100 | — |
| 95712 | 1/4-28 Hex Die Black Oxide | 5 | 5 | 100 | — |
| 95715 | 5/16-18 Hex Die Black Oxide | 5 | 5 | 100 | — |
| 95718 | 5/16-24 Hex Die Black Oxide | 5 | 5 | 100 | — |
| 95721 | 3/8-16 Hex Die Black Oxide | 5 | 5 | 100 | — |
| 95724 | 3/8-24 Hex Die Black Oxide | 5 | 5 | 100 | — |
| 95727 | 7/16-14 Hex Die Black Oxide | 5 | 5 | 100 | — |
| 95730 | 7/16-20 Hex Die Black Oxide | 5 | 5 | 100 | — |
| 95733 | 1/2-13 Hex Die Black Oxide | 5 | 5 | 100 | — |
| 95736 | 1/2-20 Hex Die Black Oxide | 5 | 5 | 100 | — |
| 95734 | 1/2-13 1 7/16 Hex Die Black Oxide | 1 | 1 | 25 | — |
| 95737 | 1/2-20 1 7/16 Hex Die Black Oxide | 1 | 1 | 25 | — |
| B46022 | 9/16-12 1 7/16 Hex Die Black Oxide | 1 | 1 | 100 | — |
| B46023 | 9/16-18 1 7/16 Hex Die Black Oxide | 1 | 1 | 100 | — |
| B46024 | 5/8-11 1 7/16 Hex Die Black Oxide | 1 | 1 | 100 | — |
| B46025 | 5/8-18 1 7/16 Hex Die Black Oxide | 1 | 1 | 100 | — |
| B46026 | 3/4-10 1 7/16 Hex Die Black Oxide | 1 | 1 | 100 | — |
| B46027 | 3/4-16 1 7/16 Hex Die Black Oxide | 1 | 1 | 100 | — |
| B46028 | 7/8-9 1 13/16 Hex Die Black Oxide | 1 | 1 | 100 | — |
| B46029 | 7/8-14 1 13/16 Hex Die Black Oxide | 1 | 1 | 100 | — |
| B46030 | 1-8 1 13/16 Hex Die Black Oxide | 1 | 1 | 100 | — |
| 95772 | 1-12 1-7/8 Hex Die Black Oxide | 1 | 1 | 100 | — |
| 96320 | 3mm x .50 Hex Die Black Oxide | 5 | 5 | 100 | — |
| 96321 | 3mm x .60 Hex Die Black Oxide | 5 | 5 | 100 | — |
| 96322 | 4mm x .70 Hex Die Black Oxide | 5 | 5 | 100 | — |
| 96323 | 4mm x .75 Hex Die Black Oxide | 5 | 5 | 100 | — |
| 96324 | 5mm x .80 Hex Die Black Oxide | 5 | 5 | 100 | — |
| 96325 | 5mm x .90 Hex Die Black Oxide | 5 | 5 | 100 | — |
| 96326 | 6mm x 1.00 Hex Die Black Oxide | 5 | 5 | 100 | — |
| 96327 | 7mm x 1.00 Hex Die Black Oxide | 5 | 5 | 100 | — |
| 96328 | 8mm x 1.25 Hex Die Black Oxide | 5 | 5 | 100 | — |
| 96329 | 9mm x 1.00 Hex Die Black Oxide | 5 | 5 | 100 | — |
| 96330 | 9mm x 1.25 Hex Die Black Oxide | 5 | 5 | 100 | — |
| 96331 | 10mm x 1.25 Hex Die Black Oxide | 5 | 5 | 100 | — |
| 96332 | 10mm x 1.50 Hex Die Black Oxide | 5 | 5 | 100 | — |
| 96333 | 11mm x 1.50 Hex Die Black Oxide | 5 | 5 | 100 | — |
| 96334 | 12mm x 1.50 Hex Die Black Oxide | 5 | 5 | 100 | — |
| 96335 | 12mm x 1.75 Hex Die Black Oxide | 5 | 5 | 100 | — |

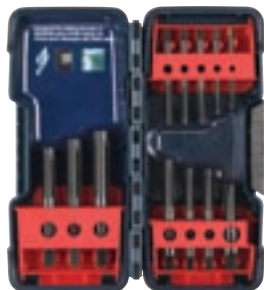
Black Oxide Screw Extractors (bulk)



| Item # | Description | # Pieces/Pack | Order in Multiples of | Master Pack Quantity | Corresponding Drill Size (if applicable) |
|--------|---|---------------|-----------------------|----------------------|--|
| 95785 | #1 Sp. Screw Extractor Black Ox | 5 | 5 | 500 | 5/64 |
| 95788 | #2 Sp. Screw Extractor Black Ox | 5 | 5 | 500 | 7/64 |
| 95791 | #3 Sp. Screw Extractor Black Ox | 5 | 5 | 500 | 5/32 |
| 95794 | #4 Sp. Screw Extractor Black Ox | 5 | 5 | 500 | 1/4 |
| 95797 | #5 Sp. Screw Extractor Black Ox | 5 | 5 | 500 | 17/64 |
| 95800 | #6 Sp. Screw Extractor Black Ox | 1 | 1 | 50 | 13/32 |
| 95803 | #7 Sp. Screw Extractor Black Ox | 1 | 1 | 50 | 17/32 |
| 95806 | #8 Sp. Screw Extractor Black Ox | 1 | 1 | 20 | 13/16 |
| 95809 | #9 Sp. Screw Extractor Black Ox | 1 | 1 | 20 | 1-1/8 |
| B46212 | (#1-5) 5 pc. Sp. Screw Extractor Black Ox (Carded) | 5 | 1 | 20 | — |
| 95786 | #1 Str. Screw Extractor Black Ox | 5 | 5 | 500 | 1/8 |
| 95789 | #2 Str. Screw Extractor Black Ox | 5 | 5 | 500 | 3/16 |
| 95792 | #3 Str. Screw Extractor Black Ox | 5 | 5 | 500 | 15/64 |
| 95795 | #4 Str. Screw Extractor Black Ox | 5 | 5 | 500 | 5/16 |
| 95798 | #5 Str. Screw Extractor Black Ox | 5 | 5 | 500 | 3/8 |
| 95801 | #6 Str. Screw Extractor Black Ox | 1 | 1 | 50 | 15/32 |
| 95804 | #7 Str. Screw Extractor Black Ox | 1 | 1 | 50 | 9/16 |
| B44815 | (#1-5) 5 pc. Str. Screw Extractor Black Ox (Carded) | 5 | 1 | 20 | — |

Packaging

**12pc. Tap Set
Black Oxide**



B44711

**11pc. Tap & Drill
Set Black Oxide**



B44710

40pc. Tap & Die Set Black Oxide



B44717



**12pc. Sp. Scr Ex/Drill
Set Black Oxide**



B46215

**19pc. Tap & Die
Set Black Oxide**



B44712

58pc. Tap & Die Set Black Oxide



B44713



Black Oxide Tap & Die Case Sets

| Item # | Description | # Pieces/Pack | Order in Multiples of | Master Pack Quantity |
|--------|-------------------------------------|---------------|--------------------------|-------------------------|
| B46215 | 12pc Sp. Scr. Ex/Drill Set Black Ox | 12 | 1 | 25 |
| B44710 | 11pc Tap & Drill Set Black Oxide | 11 | 1 | 10 |
| B44711 | 12pc Tap Set Black Oxide | 12 | 1 | 25 |
| B44712 | 19pc. Tap & Die Set Black Oxide | 19 | 1 | 5 |
| B44714 | 19pc Met Tap & Die Set Black Ox | 19 | 1 | 5 |
| B44715 | 27pc Tap & Die Set Black Oxide | 27 | 1 | 5 |
| B44717 | 40pc Tap & Die Set Black Oxide | 40 | 1 | 5 |
| B44718 | 40pc Metric Tap & Die Black Oxide | 40 | 1 | 5 |
| B44713 | 58pc Tap & Die Set Black Oxide | 58 | 1 | 1 |
| B44716 | 77pc Tap & Die Set Black Oxide | 58 | 1 | 1 |

Black Oxide Tap & Die Accessories (Bulk)

| Item # | Description | # Pieces/Pack | Order in Multiples of | Master Pack Quantity |
|--------|--------------------------------------|---------------|--------------------------|-------------------------|
| 95904 | T-Hndl Tapwrench #0-1/4 Black Ox | 5 | 5 | 100 |
| 95908 | T-Hndl Tapwrench 1/4-1/2 Black Ox | 5 | 5 | 5 |
| 95890 | Tap & Reamer Wrench, 4 to 1/2" | 5 | 5 | 5 |
| 95893 | Tap & Reamer Wrench, 1/4-3/4" | 5 | 5 | 5 |
| B44719 | Tap & Reamer Wrench, 1/2 - 1-1/8" | 1 | 1 | 1 |
| 95895 | Tap & Reamer Wrench, 0 to 1/2" | 5 | 5 | 5 |
| 95930 | Die Stock, Solid, 1" | 5 | 5 | 5 |
| 95926 | Die Stock, Adj., 1 Round or Hex | 5 | 5 | 5 |
| 95934 | Die Stock Adj., 1-7/16" Hex Dies | 5 | 5 | 5 |
| 95951 | Screw Pitch Gauge, US Thread, 10-40" | 5 | 5 | 100 |
| 95952 | Screw Pitch Gauge, Metric | 5 | 5 | 100 |