

SEIVIER CONFORM TO EC DIRECTIVE QUALITY TOOLS & PARTS FULL TECHNICAL SUPPORT CUSTOM TOOL DESIGN & PRODUCTION FAST DELIVERY MADE IN THE U.S.A.



Top Cat air tools are designed and built at our facilities in northeast Ohio, U.S.A. We utilize the most modern design and manufacturing techniques and equipment to provide our experienced builders with the parts needed for YOUR top quality tools. Air tools that are built for hard work, long life and safe operation.

We offer our customers a solid commitment of technical support ... before and after the sale. We use our 35 plus years of experience to help you select the proper tool and tool set up to meet your application needs. Our customer/technical service professionals are always ready to answer questions about our tools and share knowledge that may help in your selection of Top Cat Tools.

From our facility... or at yours,

we offer tool seminars/demonstrations of proper and safe tool use and repair clinics. Clinics where customers learn the real value of genuine Top Cat replacement parts.



The difference is real... not merely perceived.

Can't find the right tool?

Have a unique application?

Check with us.

For over 35 years we have modified existing tool designs, designed/built "specialty" tools to meet your needs, and in each case provided quality tools that perform, offer versatility and stay in service for a long time.



Quality tools that perform... and last, designed and built to meet our Customer's needs.

T[®]P CAT08

Contents

WORK SAFETY Safe Installation & Working	Healthy		Page 2
VERTICAL GRINDERS INFORMATION			Page 4
Vertical Grinders for use with Depressed Center Wheels		520V, 54V & 64V Series 7" (180 mm) – 9" (230 mm) Type 27, 28 or 29 Wheels 2-4 H.P. (1500–3000 W)	Page 5
Vertical Grinders for use with Cup Wheels		520V, 58C & 68C Series 4" (100 mm) – 6" (150 mm) Type 6 or 11 Wheels 2-4 H.P. (1500–3000 W)	Page 6
Pile Cutters	ST. ST	56PC & 66PC Series 8" (200 mm) – 14" (350 mm) 3-4 H.P. (2250–3000 W)	Page 7
Vertical Sanders for use with Sanding Discs & Surface Conditioning Abrasives		510V, 520V & 56S Series 4" (100 mm) – 9" (230 mm) 1.5-3 H.P. (1130–2250 W)	Page 8
RIGHT ANGLE WHEEL GRINDERS INFORMA	ATION		Page 10
	A	300RA Series 4" (101.6 mm) 0.7 H.P. (525 W)	Page 12
	A.A.	300RAE Series 3" (75 mm) – 4" (100 mm) 0.7 H.P. – 1.2 H.P. (900 W)	Page 13
Right Angle Grinders for use with	PPP	320RA & 420RA Series 3" (75 mm) – 4" (100 mm) 0.7 H.P. – 1.2 H.P. (900 W)	Page 14
Depressed Center & Type 1 Grinding/Cut-off Wheels	200	400RA & 410RA Series 3" (75 mm) – 5" (125 mm) 1.2 H.P. (900 W)	Page 16
	A SA	400RAE & 410RAE Series 3" (75 mm) – 6" (150 mm) 1.2 H.P. (900 W)	Page 17
		520RA Series 7" (18 mm) – 10" (250 mm) 2 H.P. (1500 w)	Page 18
RIGHT ANGLE DIE GRINDERS INFORMATIO	N		Page 20
	A A	250RAD & 300RAD Series 0.4 H.P. – 0.7 H.P. (300 – 525 W)	Page 22
Right Angle Collet Grinders	Au p	250RAED & 300RAED Series 0.4 H.P. – 0.7 H.P. (300 – 525 W)	Page 23
(Continued on next page)		280RAD, 290RAD, 330RAD & 340RAD Series 0.4 H.P. – 0.7 H.P. (300 – 525 W)	Page 24
		270RAD, 320RAD & 420RAD Series	Page 25

20

270RAD, 320RAD & 420RAD Series 0.4 H.P. - 1.2 H.P. (300 - 900 W)

Page 25

Right Angle Collet Grinders	X	400RAD & 410RAD Series 1.2 H.P. (900 W)	Page 26
(Continued)	A	400RAED & 410RAED Series 1.2 H.P. (900 W)	Page 27
RIGHT ANGLE SANDERS, BUFFERS & POL	ISHERS INFORMATION	l l	Page 28
	A R	250RA, 300RA, 400RA & 407RA Series 1" (25 mm) - 5" (125 mm) 0.4 - 1.2 H.P. (300 - 900 W)	Page 30
	Mart -	280RA, 290RA, 330RA & 340RA Series 2" (50 mm) 0.4 H.P 0.7 H.P. (300 - 900 W)	Page 32
	Sec.	270RA, 320RA & 420RA Series 2" (50 mm) 0.4 H.P 1.2 H.P. (300 - 900 W)	Page 33
Right Angle Sanders for use with Abrasive Discs	the second	250RAE, 300RAE, 400RAE & 407RAE Series 1" (25 mm) - 5" (125 mm) 0.4 H.P 1.2 H.P. (300 - 900 w)	Page 31
	ALC: NO	2601RA, 3101RA & 4101RA Series 1" (25 mm) - 2" (50 mm) 0.4 H.P 1.2 H.P. (300 - 900 W)	Page 34
	je je	4520RA, 4527RA, 4620RA & 4627RA Series 5" (125 mm) - 9" (230 mm) 1.2 H.P. (900 W)	Page 35
	-	520RA Series 7" (180 mm) - 9" (230 mm) 2 H.P. (1500 W)	Page 36
Low Speed Right Angle Sanders for use	R	400RA(X)M & 400RAE(X)M Series 7" (180 mm) 1.2 H.P. (900 w)	Page 37
with Abrasive Discs	No.	4520RA(X)M & 4620RA(X)M Series 7" (180 mm) 1.2 H.P. (900 w)	Page 38
HORIZONTAL SANDERS/POLISHERS INFO	RMATION		Page 40
	a series	400GH(X)M Series 525 R.P.M. to 5500 R.P.M. 1.2 H.P. (900 W)	Page 42
	- And	400HGE(X)M Series 525 R.P.M. to 5500 R.P.M. 1.2 H.P. (900 W)	Page 43
Horizontal Sanders & Polishers	Cruza .	400GT(X)M Series 525 R.P.M. to 5500 R.P.M. 1.2 H.P. (900 W)	Page 44
		500H(X)M, 507H(X)M & 520H(X)M Series 500 R.P.M. to 4000 R.P.M.	Page 45

500H(X)M, 507H(X)M & 520H(X)M Series 500 R.P.M. to 4000 R.P.M. 1.5-2 H.P. (1500-2250 W)

T P CAT08

LARGE HORIZONTAL GRINDERS INFORMAT	ION		Page 46
Large Horizontal Grinders For Type 1 Wheels, Flap Wheels and Wire Wheels	No.	5201H, 56H & 65H Series 4" (100 mm) – 8 (200 mm) 2-4 H.P. (1500–3000 W)	Page 47
Large Horizontal Grinders For 5/8-11 Cone Wheels		400GH2, 511H, 5201HCW, 56HCW & 65HCW Series 1.2-4 H.P. (900–3000 W)	Page 48
SMALL HORIZONTAL GRINDERS INFORMAT	ION		Page 50
Grinders For Type 1 Wheels, Flap Wheels And Wire Wheels		400GH, 407GH, 51H & 57H Series 3" (75 mm) – 4" (100 mm) 1.2-1.5 H.P. (900–1125 W)	Page 52
Horizontal Extended Grinders For 3/8-24 Cone Wheels		400GH & 51H Series 1.2 - 1.5 H.P. (900–1130 W)	Page 54
Extended Grinders with Erickson® Style Collets for Carbide Burrs, Mounted Points		250EH, 300EH, 300GHD, 400GH, 51H & 5102H Series 0.4-1.5 H.P. (300–1130 W)	Page 56
EXTENDED GRINDERS INFORMATION			Page 58
Horizontal Extended Grinders For 3/8-24 Cone Wheels, Burrs, Mounted Stones		400EH Series 1.2 H.P. (900W)	Page 60
Horizontal Extended Grinders For 3/8-24 & 5/8-11 Cone Wheels, Burrs, Mounted Stones		400GEH & 407GEH Series 1.2 H.P. (900W)	Page 61
Horizontal Extended Grinders For 3/8-24 & 5/8-11 Cone Wheels & Inserted Tooling		520GEH/520HGEH Series 2 H.P. (1500W)	Page 62
Horizontal Extended Grinders For 5/8-11 Cone Wheels		65GEH/65HGEH Series 4 H.P. (3000W)	Page 63
DIE GRINDERS INFORMATION			Page 64
Die Grinders	20	20G & 20GM Series 0.1 H.P. (75 W) • 60000 R.P.M.	Page 66
Die Grinders for 3/8" Cone Wheels	CA CA	400GTCW Series 1.2 H.P. (900 W)	Page 67
Die Grinders For Type 1 Wheels, Flap Wheels And Wire Wheels	-	400GT & 407GT Series 3" (75 mm) – 4" (100mm) • 1.2 H.P. (900 W)	Page 68
Insert Style Die Grinders For Carbide Burrs & Mounted Stones		250GE, 250HGE, 300GE, 300HGE, 400GE, 400HGE, 400SH & 400SH+6 Series Insert Style Collets • 0.4–1.2 H.P. (300–900 W)	Page 70

AIR DRILLS INFORMATION			Page 72
In-Line Drills	+	400D(X)M Series 3/8" or 1/2" Drill Chucks 1.2 H.P. (900 W)	Page 74
		500D2M & 507D2M Series 1/2" or 3/4" Drill Chucks 1.5 H.P. (1130 W)	Page 75
Right Angle Drills	-	400DRA(X)M & 400DRAE(X)M Series 3/8" or 1/2" Drill Chucks 1.2 H.P. (900 W)	Page 76
Floor Drills	-	400FD(X)M Series 3/8" or 1/2" Drill Chuck 1.2 H.P. (900 W)	Page 77
	A	500FD, 507FD & 520FD Series 1/2" or 3/4" Drill Chucks 1.5-2.0 H.P. (1130-1500 W)	Page 78
ROUTERS			Page 79
Pin Routers	and the	400PCE & 407PCE Series 1/4" or 3/8" Shank Bits • 1.2 H.P. (900 W)	Page 79
BENCH GRINDERS			Page 80
Bench Grinders		66VBG & 662VBG Series 4 H.P. (3000 W)	Page 80
ABRASIVE AIR SAWS INFORMATION			Page 81
Abrasive Air Saws	U. U.	510WG, 65VBW & 662VBW Series 9" (230mm) to 14" (360mm) 1.5-4 H.P. (1300-3000 W)	Page 82
SCALERS & NEEDLE SCALERS INFORMATIO	ON		Page 84
	1 all	TC-1 Series	Page 85
Scalers/Chisels	1171	TC-182 Series	Page 86
Nordio Sealore	111	TC-1-N Series	Page 87
Needle Scalers	To	TC-182-N Series	Page 88

T \$ P CAT08

CHIPPING HAMMERS INFORMATION			Page 89
Chipping Hammers		80 Series	Page 90
	Particular .	TC-10, TC-20, TC-30 & TC-40 Series	Page 91
RAMMERS			Page 92
Rammers		1300, 1320 & 1350 Series	Page 92
POWER SUPPLY MOTORS			Page 94
Power Supply Motors	ASMAN	400H(X)M, 500H(X)HM, 520H(X)M & 664H(X)M Series 1.2-4 H.P. (900-3000 W)	Page 94
ACCESSORIES			Pages 95-99
Guards	5200		Pages 95-96
Collets	12000		Page 97
Spiralcool® Pads			Page 97
Bearing Drivers & Spindle Holders	2011		Page 97
Butts/Peins			Page 98
Threaded Adapters	3 s		Page 98
Cone Wheel Adapters, Bushings & Chisels			Page 98
Type 27 Adapters	0:-//		Page 99
Polishing Wheel Adapters			Page 99

WARRANTY			Page 100
INDEX			Page 101
CLASSIC LINE TOOLS			Green Insert
Grinders for Depressed Center Wheels, Cut Off Wheels & Flap Wheels	P P To	44RA, 44RAE, 46RA & 48RA Series 3" (75 mm) – 6" (150 mm) • 0.9 H.P. (675 W)	Page i
Right Angle Collet Grinders	Prof-	44RA, 46RA & 48RA Series 0 .9 H.P. (675 W)	Page ii
Right Angle Sanders for use with Abrasive Discs	and the	44RA & 48RA Series 4" (100 mm) - 5" (125 mm) • 0.9 H.P. (675 W)	Page ii
Insert Style Die Grinders For Carbide Burrs & Mounted Stones		40G & 4121G Series Insert Style Collets • 0.9 H.P. (675 W)	Page iii
Grinders For Type 1 Wheels, Flap Wheels And Wire Wheels	(Alexandre	40GH Series 3" (75 mm) – 4" (100 mm) • 0.9 H.P. (675 W)	Page iii
Fixed Size Collet Die Grinders for Carbide Burrs & Mounted Stones	Contraction of the second	40GH Series Built In Collets • 0.9 H.P. (675 W)	Page iv
Horizontal Extended Grinders for 3/8-24 Cone Wheels	Charles in	40GH Series 0.9 H.P. (675 W)	Page iv



T P CAT 08

Work Safety

Work Safe! **IMPORTANT:**



When care is taken to insure that the right tool is operated properly; and the safety and maintenance procedures are followed, accidents can be avoided. Read and follow all

instructions and directions, comply with all rules governing the use of power tools, personal protective equipment and equipment guards.

Operators Instructions and Safety Precautions

These pages are meant to highlight sections of safety standards published by the American National Standards Institute and the Occupational Safety and Health Administration. This is not meant to replace those standards but only highlight certain areas.

When care is taken to ensure that the right tool is operated properly, and safety and maintenance procedures are followed, accidents can be avoided. Read and follow all instructions and directions. Comply with all rules governing the use of power tools, personal protective equipment and equipment guards.

Remember- machines, attachments and accessories must be used only for the purpose for which they were designed. Safety reasons and product liability prohibit any modifications to tools. Any attachments or accessories must be agreed to in advance with an authorized technical representative of T.C. Service Co.



The grinding equipment must be approved for the rated speed of the machine. The rated speed, marked on the machine, should not be exceeded. Be sure to learn the proper handling and storage of abrasive wheels and inserted tooling.

Inspect the wheel guard for any signs of wear and that it is properly mounted to the tool. Any

guard showing signs of wear such as bends, chips, nicks, or cracks should be replaced.

Always wear eye and hearing protection, and when necessary, other personal protective equipment such as gloves, an apron, and helmet.





Airborne particulate resulting from the grinding process can cause hazards. Wear appropriate protective equipment.

Check hose size and air pressure. The air pres-

sure at the tool shall not exceed 90 psi (6.2

bar). All hoses should be inspected regularly and kept away from heat, oil and sharp edges. Be sure the tool is secured to the air hose.

Measure the speed of grinders every 20 hours of



OK

For more information refer to:

General Industry Safety & Health Regulations 29 CFR, Part 1910 and where applicable Construction Industry Safety & Health Regulations 29 CFR, Part 1929 available from the Superintendent of Documents, Government Printing Office, Washington, D.C. 20402

Safety Code For Portable Air Tools, ANSI B186.1 and Z87.1, available from American National Standards Institute, Inc., 1430 Broadway, New York, NY 10018

Measure speed of all types of grinders after maintenance or repair, whenever a grinder is issued from the tool crib and at each wheel change. Several readings should be taken. Tachometers must be checked and calibrated on a regular basis according to the manufacturer's recommendations.

This form of inspection should be made with the grinding wheel or tooling removed.



Proper mounting of grinding wheels and inserted tooling is crucial to safe operation and efficient working conditions. Ensure the exhaust air is directed away from bystanders.

Disconnect the tool from the air supply before doing any service. This prevents

accidental start-ups. Do not disassemble or adjust the governor. The governor is guaranteed for the life of the tool, if not abused.

Ergonomics-Work Healthy

Avoid



The following suggestions will help reduce or moderate the effects of repetitive work motion and/or extended vibration exposure:

1) Do NOT over-grip the machine/tool. Use only the force required to maintain control.

2) Keep hands and body dry and warm. (Blood flow is important exercise hands and arms as often as necessary).

3) Keep wrists as straight as possible. (AVOID hand positions that require the wrist to be flexed, hyper extended or turned side-to-side.

4) AVOID anything that may inhibit blood circulation such as smoking tobacco or prolonged exposure to cold temperatures.

5) Do NOT support body-weight on the tool during operation.

Maintain a stress-free posture for the entire body.

Prolonged exposure to vibrations created by vibrating sources may cause health hazards. There are gloves, handle wraps and other forms of protective measures available to help reduce the hazard. The fit and condition of any vibration abatement measure must be monitored.

actual use or once per week, whichever comes first.



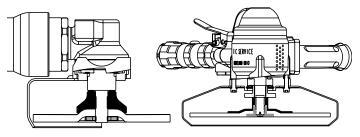
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Work Safety

Safety in Operation

The safety procedures for operating air tools are everyone's responsibility. The following lists several aspects of air tool safety that should be considered during operation. Please be aware of the these aspects and report any unsafe practice you see to a supervisor or safety officer immediately.

- Start any new wheel under a bench and away from bystanders. (Run for a minimum of one minute.)
- When starting a cold/new wheel, apply to the work slowly, allowing the wheel to warm gradually.
- Support the work piece properly.
- When cutting off, support the work piece so that a jamming of the wheel does not occur. (A slot shall remain constant or become wider during operation.)
- If a jamming of the wheel does occur during a cutting off operation, shut the air supply off to the tool and ease the wheel free. (Inspect the wheel for damage before continuing operation.)
- Ensure that sparks from the process do not create a hazard to the eyes or will ignite the environment.
- Grinders shall not be used in potentially explosive atmospheres.
- Pneumatically driven tools are not generally insulated from coming in contact with electrical sources. Be sure to avoid contact with wires or other possible current carrying sources.
- The operator must check that no bystanders are in the vicinity.
- Remember that the tool will continue to spin after the throttle has been released.
- If a grinder fitted with an abrasive wheel is dropped, the wheel must be thoroughly examined before re-use.
- Disconnect the tool from the air source before servicing and changing wheels.
- Release the control device in case of interruption of air supply.
- Always keep the tool in a clean, dry place when not in use.
- Beware of loose hair and clothing so as not to become tangled or trapped during operation.
- The inserted tool on heavy types of percussive non-rotary tools is exposed to heavy strains and can after long periods of use break due to fatigue.
- Unexpected tool movement or breakage of inserted tooling may cause injuries to lower limbs.
- Unsuitable postures may not allow counteracting of normal or unexpected movement of a power tool. (A working position shall be adopted which remains stable in the event of a break up of inserted tooling.)
- Do not hold the tool near the body when operating.
- Keep a firm grip on the tool body during operation.
- Immediately shut off the tool if unusual vibration or sound is detected. Remove and inspect the wheel or tooling, and check the tool speed (RPM) with an accurate tachometer.
- Use of over-speeding grinder or unbalanced wheels may result in serious injury.





Always make sure that the guard provided with the tool/equipment is in place and positioned between the operator and the grinding wheel or other moving part. Flying debris from the workpiece and/or the wheel itself can cause a hazard. The guard should be positioned so as to deflect debris away from the working surface and away from the operator. The diagram above details the proper positioning of the guard to protect any handles the operator might grip and the area where the operator stands.

Special Notice!

Machine Overhauls—At least twice a year at heavy/daily operation and once a year at lighter duty, all machines/tools should be dismantled, cleaned and inspected. Internal parts should be checked for wear or damage. Be particularly careful of the governor assembly. Careless treatment may prevent it from functioning. Always check the free speed of machine/tool following service.

Pneumatically driven power tools are not generally insulated from coming into contact with electrical sources. Be sure to AVOID contact with wires or other possible current carrying sources.

Explosive atmospheres must not be ignited. To prevent injury and property loss from fire and explosion use non-sparking process.

STAY ALERT DO NOT USE THE TOOL WHILE UNDER THE INFLUENCE OF ALCOHOL, DRUGS OR MEDICATION.

Mounting Grinding Wheels and Guards

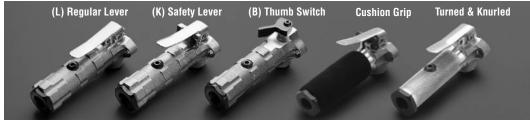
- Check operating speed marked on wheel—it must equal or exceed rated spindle speed.
- Inspect wheel for cracks or chips-if found, do not use.
- Do not fit a wheel that has been soaked in or exposed to any liquids.
- Wheel fit on spindle shall be free but not loose.
- Attach wheel with flanges conforming to international standards. Be sure all flanges are in good condition. Flanges should have a flat contact with the wheel and be without cracks or burrs.
- Do not use unauthorized bushings or adapters to attach large hole abrasive wheels.
- Use blotters when provided with grinding wheel.
- Do not mismatch wheel and spindle thread.
- Spindle and spindle thread shall be without damage or wear.
- Do not bottom spindle thread ends in cup or plug wheels with threaded insert—use an authorized spacer.
- Tighten properly mounted wheel to prescribed torque.
- Remember test run every new wheel in an area away from other workers (example: under workbench) for at least one minute.

Vertical Grinders

Page Number	Model Number	Power	Description
	520V	2.0 H.P.	Vertical Grinders for use with Depressed Center Wheels
5	54V	3.0 H.P.	(Type 27, Type 28 & Type 29)
	64V	4.0 H.P.	Type 27 Wheel
	520V	2.0 H.P.	Vertical Grinders for use with Cup Wheels
6	58C	3.0 H.P.	(Type 6 & Type 11) Type 11 Wheel
	68C	4.0 H.P.	
7	56PC	3.0 H.P.	Vertical Pile Cutters for use
1	66PC	4.0 H.P.	or Diamond Wheels Reinforced Cut-Off Wheels Diamond Wheels
	510V	1.5 H.P.	
8	520V		Vertical Sanders for use with abrasive sanding discs and surface conditioning abrasives
	56S	3.0 H.P.	

Handles

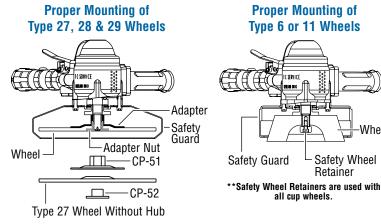
Several different handle styles are offered on our vertical tools. The picture below shows each in detail.



Mounting of Wheels

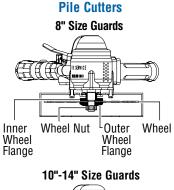
Each wheel type mounts onto the tool in a specific way. Please consult the diagrams below for details on how your particular wheel mounts onto the tool. More details on the mounting of wheels can be found in ANSI B7.1 and ANSI B186. Mounting wheels in ways other than those shown below are non-compliant and may lead to injury.

Wheel

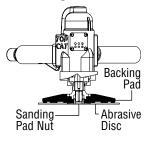


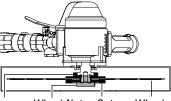
Speed/Guard Size Selection

The operating speed and guard size are closely linked to promote safety and maximize efficiency of the grinding operation. Each model offers various options listed in the Model Number Breakdown and in the chart with each product spread. The choices are based on the characteristics of each model. Please examine the speed/guard size options to select the one that matches the wheel speed/size you are using.











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2-4 H.P. (1500-3000 W)

7" (180 mm) - 9" (230 mm) Type 27, 28 or 29 Wheels

Vertical Grinders for use with Depressed Center Wheels



Type 27 Wheel	Type 27 Wheel	Type 28 Wheel	Type 28 Wheel
with Built -In Adapter	without Built-In Adapter	with Built-In Adapter	without Built-In Adapter

Air Inlet Size: 1/2" NPT Hose Size Recommendations: 1/2" (13 mm) Arbor Size: 5/8 x 11

Extra Charge Accessories

Depressed Center Wheel Adapter Kits • Sanding Pads

Standard Equipment

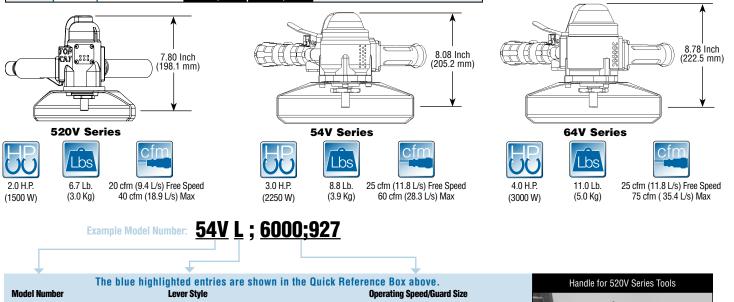
- Tool with Wheel Guard of Choice
- Operating Instructions & Service Manual Wrench

The depressed center wheel adapters are not supplied as standard equipment with the tools. If you are using a wheel that requires the adapters, they must be purchased separately.

Quick Order Number

Model	Guard	Maximum	Throttle H	andle Type
Number	Size	Operating Speed	Standard	Safety
520V	7 Inch	8000 RPM	520VXL;727	520VXK;727
54V			54VL;727	54VK;727
34 V	9 Inch	6000 RPM	54VL;927	54VK;927
64V	7 Inch	8000 RPM	64VL;727	64VK;727
041	9 Inch	6000 RPM	64VL;927	64VK;927

This chart has been provided as a means to quickly identify a particular tool. The ordering numbers listed represent the most common versions of our tools. If more specialized versions are required, please build your model number per the following model number flow chart.

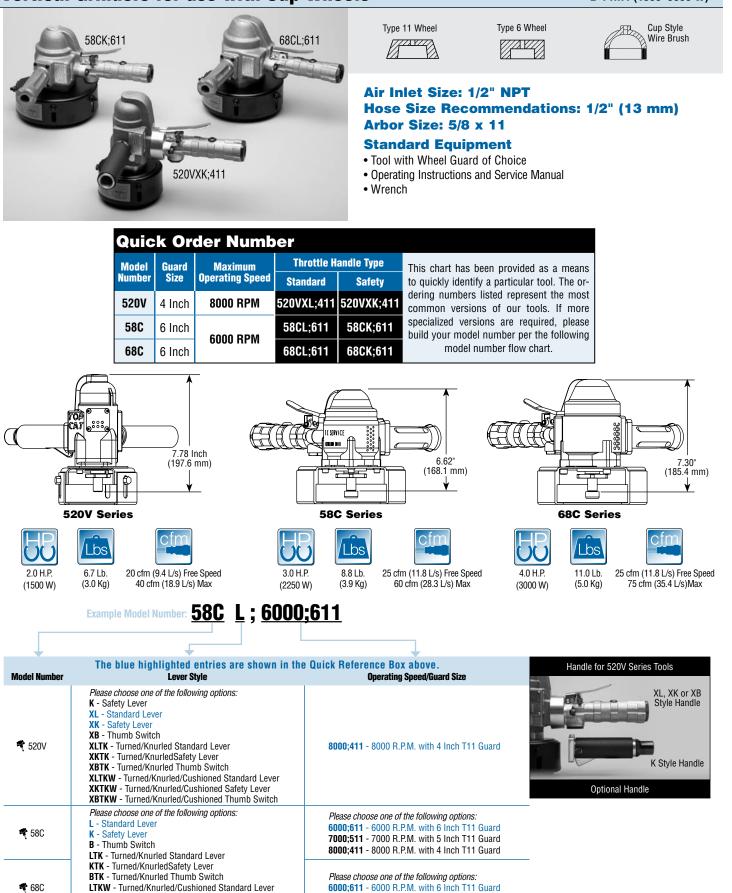


Model Number	Lever Style	Operating Speed/Guard Size	
🐔 520V	Please choose one of the following options: K - Safety Lever XL - Standard Lever XK - Safety Lever XB - Thumb Switch XLTK - Turned/Knurled Standard Lever XKTK - Turned/Knurled Thumb Switch XLTKW - Turned/Knurled/Cushioned Standard Lever XKTKW - Turned/Knurled/Cushioned Stafety Lever XBTKW - Turned/Knurled/Cushioned Thumb Switch	Please choose one of the following options: 8000;727 - 8000 R.P.M. with 7 Inch T27 Guard 8000;728 - 8000 R.P.M. with 7 Inch T28 Guard.	XL, XK or XB Style Handle K Style Handle Optional Handle
🤻 54V	Please choose one of the following options: L - Standard Lever K - Safety Lever B - Thumb Switch LTK - Turned/Knurled Standard Lever KTK - Turned/KnurledSafety Lever	Please choose one of the following options: 6000;727 - 6000 R.P.M. with 7 Inch T27 Guard 6000;728 - 6000 R.P.M. with 7 Inch T28 Guard 6000;927 - 6000 R.P.M. with 9 Inch T27 Guard	_
🤻 64V	BTK - Turned/Knurled Thumb Switch LTKW - Turned/Knurled/Cushioned Standard Lever KTKW - Turned/Knurled/Cushioned Safety Lever BTKW - Turned/Knurled/Cushioned Thumb Switch	6000;928 - 6000 R.P.M. with 9 Inch T28 Guard 8000;727 - 8000 R.P.M. with 7 Inch T27 Guard 8000;728 - 8000 R.P.M. with 7 Inch T28 Guard	

Revenue Controlled Tool

Vertical Grinders for use with Cup Wheels

4" (100 mm) – 6" (150 mm) Type 6 or 11 Wheels 2-4 H.P. (1500–3000 W)



🕈 Governor Controlled Tool

KTKW - Turned/Knurled/Cushioned Safety Lever

BTKW - Turned/Knurled/Cushioned Thumb Switch

WARNING: Follow all recommendations from component and abrasive manufacturers for speeds and proper usage.

7000;511 - 7000 R.P.M. with 5 Inch T11 Guard



Pile Cutters

8" (200 mm) - 14" (350 mm) 3-4 H.P. (2250-3000 W)



Reinforced Cut-Off Wheels

Diamond Wheels •



Air Inlet Size: 1/2" NPT Hose Size Recommendations: 1/2" (13 mm)

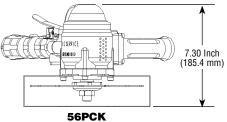
Extra Charge Accessories

• Wet Cutting Attachment

Standard Equipment

- Tool
- 2 Inch Wrench
- Operating Instructions and Service Manual

Quick	Quick Order Number						
Model	Cuard Size	Maximum	Throttle H	andle Type			
Number	Guard Size	Operating Speed	Standard	Safety	This chart has been provided as a means to quickly identify a particular tool. The or-		
56PC	8 Inch	6000 RPM	56PCL;841	56PCK;841	dering numbers listed represent the most common versions of our tools. If more		
66PC	12 Inch	5000 RPM	66PCL;1241	66PCK;1241	specialized versions are required, please build your model number per the following		
66PC	14 Inch	4000 RPM	66PCL;1441	66PCK;1441	model number flow chart.		



Lbs 8.8 Lb. 25 cfm (11.8 L/s) Free Speed (2250 W) (3.9 Kg) 60 cfm (28.3 L/s) Max





Example Model Number: <u>56PC</u> <u>L</u> ; <u>6000;841</u>

Model Number	The blue highlighted entries are s Lever Style	hown in the Quick Reference Box above. Operating Speed/Guard Size
🐔 56PC	Please choose one of the following options: L - Standard Lever	6000;841 - 6000 R.P.M. with 8 Inch T1 Guard
₹66PC	K - Safety Lever B - Thumb Switch LTK - Turned/Knurled Standard Lever KTK - Turned/KnurledSafety Lever BTK - Turned/Knurled Thumb Switch LTKW - Turned/Knurled/Cushioned Standard Lever KTKW - Turned/Knurled/Cushioned Thumb Switch	Please choose one of the following options: 6000;1041 - 6000 R.P.M. with 10 Inch T1 Guard (5/8" ID Mount) 5000;1241 - 5000 R.P.M. with 12 Inch T1 Guard (Bonded Abrasive) 6000;1241 - 6000 R.P.M. with 12 Inch T1 Guard (Segmented Diamond) 4000;1441 - 4000 R.P.M. with 14 Inch T1 Guard (Bonded Abrasive) 5000;1441 - 5000 R.P.M. with 14 Inch T1 Guard (Bonded Abrasive) 5000;1441 - 5000 R.P.M. with 14 Inch T1 Guard (Segmented Diamond)

Revenue Controlled Tool

3.0 H.P.

PCATO8

510V, 520V & 56S Series

Vertical Sanders for use with Sanding Discs & Surface Conditioning Abrasives

4" (100 mm) – 9" (230 mm) 1.5-3 H.P. (1130-2250 W)



Air Inlet Size: 1/2" NPT Hose Size Recommendations: 1/2" (13 mm) Arbor Size: 5/8 x 11

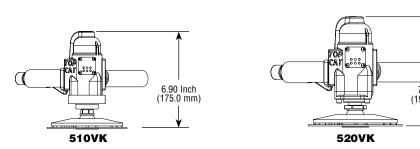
Sanding Disc

Standard Equipment

- Tool with Sanding Pad of Choice
- Operating Instructions and Service Manual
- Wrench

Quick Order Number						
Model	Sanding Pad Size	Maximum	Throttle H	andle Type		
Number	Pad Size	Operating Speed	Standard	Safety		
510V	7 Inch	4000 RPM	510VXL;7SP	510VXK;7SP		
520V	7 IIICH	8000 RPM	520VXL;7SP	520VXK;7SP		
56S	9 Inch	6000 RPM	56SL;9SP	56SK;9SP		

This chart has been provided as a means to quickly identify a particular tool. The ordering numbers listed represent the most common versions of our tools. If more specialized versions are required, please build your model number per the following model number flow chart.

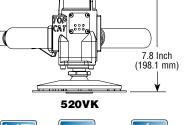


Lbs 6.0 Lb. 35 cfm (16.5 L/s) Max

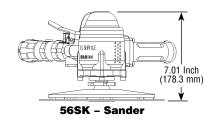
(2.7 Kg)

1.5 H.P.

(1125 W)



Lbs 6.7 Lb. 20 cfm (9.4 L/s) Free Speed (3.0 Kg) 40 cfm (18.9 L/s) Max







2.0 H.P.

(1500 W)

•	★		
Model Number	The blue highlighted entries are shown in the Lever Style	e Quick Reference Box above. Operating Speed/Sanding Pad Size	Handle for 510V & 520V Series Tools
Ö 510V	Please choose one of the following options: K - Safety Lever XL - Standard Lever XK - Safety Lever XB - Thumb Switch	Please choose one of the following options: 4000;4SP - 4000 R.P.M. with 4 Inch Sanding Pad 4000;5SP - 4000 R.P.M. with 5 Inch Sanding Pad 4000;7SP - 4000 R.P.M. with 7 Inch Sanding Pad 4000;9SP - 4000 R.P.M. with 9 Inch Sanding Pad	XL, XK or XB Style Handle
🤻 520V	XLTK - Turned/Knurled Standard Lever XKTK - Turned/KnurledSafety Lever XBTK - Turned/Knurled Thumb Switch XLTKW - Turned/Knurled/Cushioned Standard Lever XKTKW - Turned/Knurled/Cushioned Safety Lever XBTKW - Turned/Knurled/Cushioned Thumb Switch	Please choose one of the following options: 12000;4SP - 12000 R.P.M. with 4 Inch Sanding Pad 10000;5SP - 10000 R.P.M. with 5 Inch Sanding Pad 8000;7SP - 8000 R.P.M. with 7 Inch Sanding Pad 6000;9SP - 6000 R.P.M. with 9 Inch Sanding Pad	Coptional Handle
* 56S	Please choose one of the following options: L - Standard Lever K - Safety Lever B - Thumb Switch LTK - Turned/Knurled Standard Lever KTK - Turned/KnurledSafety Lever BTK - Turned/KnurledThumb Switch LTKW - Turned/Knurled/Cushioned Standard Lever KTKW - Turned/Knurled/Cushioned Safety Lever BTKW - Turned/Knurled/Cushioned Thumb Switch	Please choose one of the following options: 8000;7SP - 8000 R.P.M. with 7 Inch Sanding Pad 6000;9SP - 6000 R.P.M. with 9 Inch Sanding Pad	_

Reared Tool

T[®]P CAT08



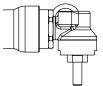
Right Angle Wheel Grinders

Section Contents

Page Number	Model Number	Power	Whee	I Size	Features		
12	300RA		3 Inch - 4 Inch T27, T1	Type 27 Wheel Type 27 Wheel With 3/8 Inch Mount Hole	Durable Head Design with Small Motor		
13	300RAE	0.7 H.P.	or T1 (cut-off) Wheels	Type 1 Type 1 Grinding Cut-Off Wheel Wheel	Durable Head Design & Extended Neck with Small Motor		
14	320RA		3 Inch - 4 Inch T1 (cut-off) Wheels	- Type 1 Cut-Off Wheel	Small Head & Extended Neck with Small Motor	e i di d	
16	400RA		3 Inch - 6 Inch T27, T1	Type 27 Wheel Type 27 Wheel	Durable Head Design with Powerful Motor (Lower Speed)		
17	400RAE		or T1 (cut-off) Wheels 3 Inch - 4 1/2 Inch T27. T1 or	or T1 (cut-off) Wheels	With 3/8 Inch Mount Hole With 5/8 Inch Mount Hole With 5/8 Inch Mount Hole With 5/8 Inch Mount Hole	Durable Head Design & Extended Neck with Powerful Motor (Lower Speed)	
16	410RA			Mount Hole Hub	Durable Head Design with Powerful Motor (Higher Speed)		
17	410RAE	1.2 H.P.				Type 1 Type 1 Grinding Cut-Off Wheel Wheel	Durable Head Design & Extended Neck with Powerful Motor (Higher Speed)
14	420RA		3 Inch - 4 Inch T27, T1 or T1 (cut-off) Wheels	Type 27 Wheel Type 27 Wheel With 3/8 Inch With 5/8 Inch Mount Hole Offer Type 1 Type 1 Type 1 Grinding Wheel Wheel Wheel Wheel	Small Head & Extended Neck with Powerful Motor		
18	520RA	2.0 H.P.	7 Inch - 10 Inch T27, T1 or T1 (cut-off) Wheels	Type 27 Wheel Type 27 Wheel With 3/8 Inch Mount Hole With 5/8 Inch Mount Hole With 5/8 Inch Mount Hole Type 27 Wheel With 7/8 Inch Mount Hole With 7/8 Inch Mount Hole With Built In Hub © © © Type 1 Grinding Wheel Type 1	Larger Right Angle Grinder for Larger Wheels		

Spindle Options

3/8-24 X 0.980 Inch Spindle (Spindle Size 4)



This spindle is the most versatile. Adapters are available which will allow nearly any wheel to mount on this spindle. (See chart)

3/8-24 X 0.563 Inch Spindle (Spindle Size 1)



This spindle is favorable for use with type 1 cut-off (type 41) wheels or type 27 wheels with a 3/8 inch mounting hole. It provides for a smaller head height which can be helpful in tighter applications. Adapters are available. (See chart)

5/8-11 X 0.875 Inch Spindle (Spindle Size 2)



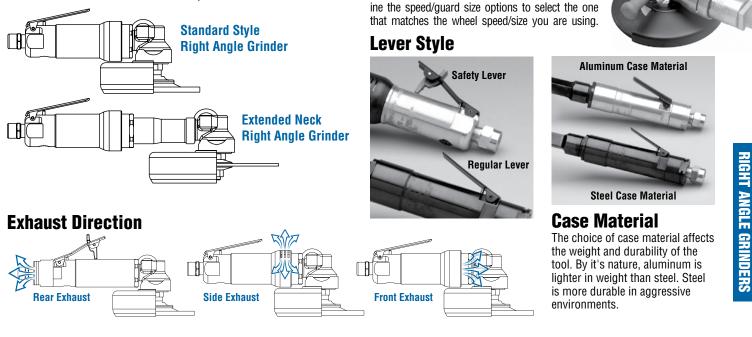
This spindle is commonly used with type 27 (depressed center) wheels with a either a 7/8" mounting hole or built-in flanges with threads. Adapters are available. (See chart)

Spindlo		W	heel Si	ze	
Spindle	3"	4"	4 1/2"	5"	6"
(1) - 3/8-24 X 0.563	Х	Х			
(4) - 3/8-24 X 0.980	Х	Х	Х	х	х
(2) - 5/8-11 X 0.875			Х	Х	Х

쭮 P CATO 8

Extend Neck vs Standard

The extended neck option helps in regards to clearance issues when using larger diameter wheels. In these instances, the guard can extend into the area around the motor case normally used by the operator to grip the tool. The extended neck option moves the guard forward which clears the area around the motor case for the operators hand.



Speed/Guard Size Selection

tions listed in the Model Number Breakdown and in the chart with each product spread. The choices are based

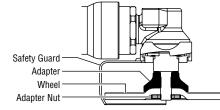
on the characteristics of each model. Please exam-

The operating speed and guard size are closely linked to promote safety and

maximize efficiency of the grinding operation. Each model offers various op-

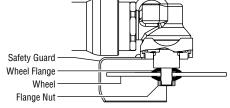
Wheel Mounting for Right Angle Grinders—Type 27 (Depressed Center) Wheels

Type 27 Wheels with 3/8" ID Mounting Hole



Adapter Set Number	Spindle Size
490-K	3/8-24 x 0.980
490-KR	3/8-24 x 0.580

Type 1 Wheels (Type 1 Cut-off)

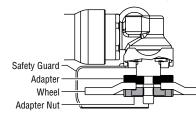


Part Number	Spindle Size	Wheel Mounting Hole
400-G-42	2/0 24 2 0 000	4" or Smaller
1100-680	3/8-24 x 0.980	1 1/0" or Lorger
1100-682	5/8-11 x 0.875	4-1/2" or Larger

Ordered as individual parts

ADT Style Adapters

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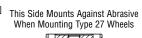


Part Number	Spindle Size	Wheel Mounting Hole
ADT27-354	2/9 24 × 0 090	5/8"
ADT27-375	3/8-24 x 0.980	7/8"
ADT27-575	5/8-11 x 0.875	//ð

Ordered as individual parts

11

Our New Right Angle Adapters Can Be Used To Mount Either Type 27 Or Type 1 Wheels



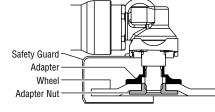
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re la

This Side Mounts Against Abrasive

When Mounting Type 1 Wheels

Type 27 Wheels with 5/8" or 7/8" ID Mounting	Type 27	Wheels	with	5/8"	or	7/8"	ID	Mounting
--	---------	--------	------	------	----	------	----	----------



Adapter Set Number	Spindle Size	Wheel Mounting Hole
1100-660	2/0 24 × 0 000	5/8"
1100-668	3/8-24 x 0.980	7/8"
1100-692	5/8-11 x 0.875	//0

P CATO8

4" (101.6 mm)

Right Angle Grinders for use with Depressed Center & Type 1 Grinding/Cut-off Wheels 0.7 H.P. (525 W)



2777 AR 77772	ZZ
Type 27 Wheel With 3/8 Inch	Typ Wit
Mount Hole	

11 12/11 e 27 Wheel th 5/8 Inch lount Hole

Type 1 Grinding Wheel

Type 1 Cut-Off

Wheel

Air Inlet Size: 1/4" NPT Hose Size Recommendations: 3/8" (10 mm) **Special Features**

Rear Exhaust

Moun

0.7 H.P. Motor • Dual Position Dead Handle Mount

Extra Charge Accessories

• Type 27 Adapters • Safety Levers

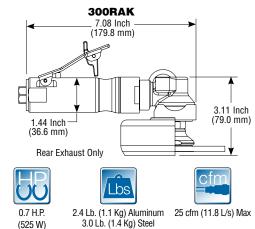
Standard Equipment

- Tool Operating Instructions and Service Manual
- 2 Wrenches (sizes based on options)

The depressed center wheel adapters are not supplied as standard equipment with the tools. If you are using a wheel that requires the adapters, they must be purchased separately.

Quick Order Number					
Model Cursul Size Maximum Case Material					
Number	Guard Size	Operating Speed	Aluminum	Steel	
300RA	4 Inch	15000 RPM	300RA4;427	300RA4S;427	
All the versions listed in the table will be supplied with a standard lever throttle (class 1). A safety lever throttle (class 2) is also available.					

This chart has been provided as a means to quickly identify a particular tool. The ordering numbers listed represent the most common versions of our tools. If more specialized versions are required, please build your model number per the following model number flow chart.



3.0 Lb. (1.4 Kg) Steel

	Wheel Adapters					
Part Number	Description	Spindle on Tool	Wheel			
490-К	2/0 04 to 2/0 lack ID Adoptor	Style 4 - 3/8-24 X 0.98 Inch				
490-KR	490-KR 3/8-24 to 3/8 Inch ID Adapter	Style 1 - 3/8-24 X 0.56 Inch	3-4 Inch T27 Wheels with 3/8 Inch ID Hole			
1100-660	2/0 04 to 5/0 lack ID Adoptor		4 Inch TOZ Wheels with 5 /0 Inch ID Hels			
ADT27-354	ADT27-354 3/8-24 to 5/8 Inch ID Adapter	Style 4 - 3/8-24 X 0.98 Inch	4 Inch T27 Wheels with 5/8 Inch ID Hole			

The depressed center wheel adapters are not supplied as standard equipment with the tools. If you are using a wheel that requires the adapters, they must be purchased separately.



Front view of 300RA Series Tool

Example Model Number: <u>300RA 1 K S ; 15000;427</u>

		•		
Model Number	Spindle Options	The blue highlighted entries ar Lever Style	e shown in the Quick Reference Bo Case Material	ox above. Operating Speed/Guard Size
🔅 300RA	Please choose one of the following options: 1 - 3/8-24 X 0.56 Inch 4 - 3/8-24 X 0.98 Inch	Please choose one of the following options: No Designation - Standard Lever K - Safety Lever	Please choose one of the following options: No Designation - Aluminum Case S - Steel Case	Please choose one of the following options: 15000;327 - 15000 R.P.M. with 3 Inch T27 Wheel Guard 15000;427 - 15000 R.P.M. with 4 Inch T27 Wheel Guard
🌣 Geared Tool		Safety Lever Regular Lever	Aluminum Steel	

300RAE Series

Right Angle Grinders for use with Depressed Center & Type 1 Grinding/Cut-off Wheels 0.7 H.P. (525 W)



P CATO8

TTA ANT Type 27 Wheel With 3/8 Inch Mount Hole

VIII V Type 27 Wheel With 5/8 Inch Mount Hole

Type 1 Grinding Wheel



4" (101.6 mm)

Air Inlet Size: 1/4" NPT

Hose Size Recommendations: 3/8" (10 mm) **Special Features**

• 0.7 H.P. Motor • Dual Position Dead Handle Mount

Extra Charge Accessories

Type 27 Adapters • Safety Levers

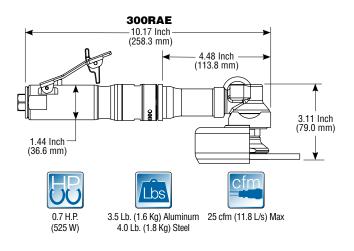
Standard Equipment

- Tool Operating Instructions and Service Manual
- 2 Wrenches (sizes based on options)

The depressed center wheel adapters are not supplied as standard equipment with the tools. If you are using a wheel that requires the adapters, they must be purchased separately.

Quick Order Number							
Model Guard Maximum Case Material							
Number	Size	Operating Speed	Aluminum	Steel			
300RAE	4 Inch	15000 RPM	300RAE4;427 300RAE4S;427				
All the versions listed in the table will be supplied with a standard lever throttle (class 1). A safety lever throttle (class 2) is also available.							
This chart has been provided as a means to quickly identify a particular tool. The ordering numbers listed represent the most common versions of our tools. If							

more specialized versions are required, please build your model number per the following model number flow chart.

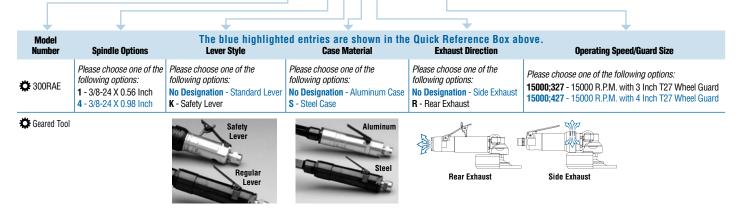


	Wheel Adapters					
Part Number	Description	Spindle on Tool	Wheel			
490-К	2/0 04 to 2/0 lpsh ID Adoptor	Style 4 - 3/8-24 X 0.98 Inch				
490-KR	3/8-24 to 3/8 Inch ID Adapter	Style 1 - 3/8-24 X 0.56 Inch	3-4 Inch T27 Wheels with 3/8 Inch ID Hold			
1100-660	2/0 04 to 5/0 lpack ID Adoptor		4 least TOT M/backs with 5 /0 least ID Lists			
ADT27-354	ADT27-354 3/8-24 to 5/8 Inch ID Adapter	Style 4 - 3/8-24 X 0.98 Inch	4 Inch T27 Wheels with 5/8 Inch ID Hole			

The depressed center wheel adapters are not supplied as standard equipment with the tools. If you are using a wheel that requires the adapters, they must be purchased separately.

Front view of 300RAE Series Tool

Example Model Number: 300RAE 1 K S R ; 15000;427



🗟 P CATO8

Type 1

Cut-Off

Wheel

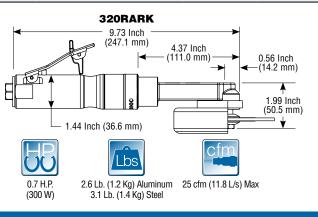
3" (75 mm) - 4" (100 mm) Right Angle Grinders for use with Depressed Center & Type 1 Grinding/Cut-off Wheels 0.7 H.P. – 1.2 H.P. (900 W)



Quic	Quick Order Number							
Model Guard Size Maximum Case Material								
Number	dualu Size	Operating Speed	Aluminum	Steel				
320RA	1 Inch	15000 RPM	320RA1;427	320RA1S;427				
420RA	420RA 4 Inch 13000 RPM 420RA1;427 420RA15;427							
All the	All the versions listed in the table will be supplied with a standard lever							

throttle (class 1). A safety lever throttle (class 2) is also available.

This chart has been provided as a means to quickly identify a particular tool. The ordering numbers listed represent the most common versions of our tools. If more specialized versions are required, please build your model number per the following model number flow chart.



Description

3/8-24 to 3/8 Inch ID Adapter

3/8-24 to 5/8 Inch ID Adapter

The depressed center wheel adapters are not supplied as standard equipment with the tools If you are using a wheel that requires the adapters, they must be purchased separately.

Wheel Adapters

Spindle on Tool

Style 4 - 3/8-24 X 0.98 Inch

Style 1 - 3/8-24 X 0.56 Inch

Style 4 - 3/8-24 X 0.98 Inch

Example Model Number: <u>420RA 1 K S R ; 13000;427</u>

Mount Hole Mount Hole Air Inlet Size: 320RA Series: 1/4" NPT

Type 27 Wheel

With 3/8 Inch

420RA Series: 3/8" NPT **Hose Size Recommendations:** 320RA Series: 3/8" (13mm) 420RA Series: 1/2" (13mm)

Type 27 Wheel

With 5/8 Inch

Type 1

Grinding

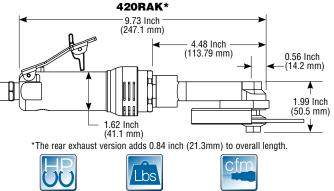
Wheel

- **Extra Charge Accessories**
- Type 27 Adapters Safety Levers

Standard Equipment

- Tool with Wrench Operating Instructions and Service Manual SPECIAL FEATURES
- Side or Rear Exhaust Available
- Small Right Angle Head for Limited Space Grinding
- Extended Neck for Better Reach

The depressed center wheel adapters are not supplied as standard equipment with the tools. If you are using a wheel that requires the adapters, they must be purchased separately.



1.2 H.P. 2.7 Lb. (1.2 Kg) Aluminum (900 W) 3.2 Lb. (1.4 Kg) Steel

Wheel

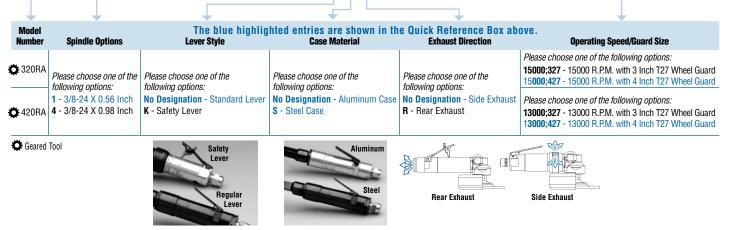
3-4 Inch T27 Wheels with 3/8 Inch ID Hole

4 Inch T27 Wheels with 5/8 Inch ID Hole





Front view of 320RA/420RA Series Tool



WARNING: Follow all recommendations from component and abrasive manufacturers for speeds and proper usage.

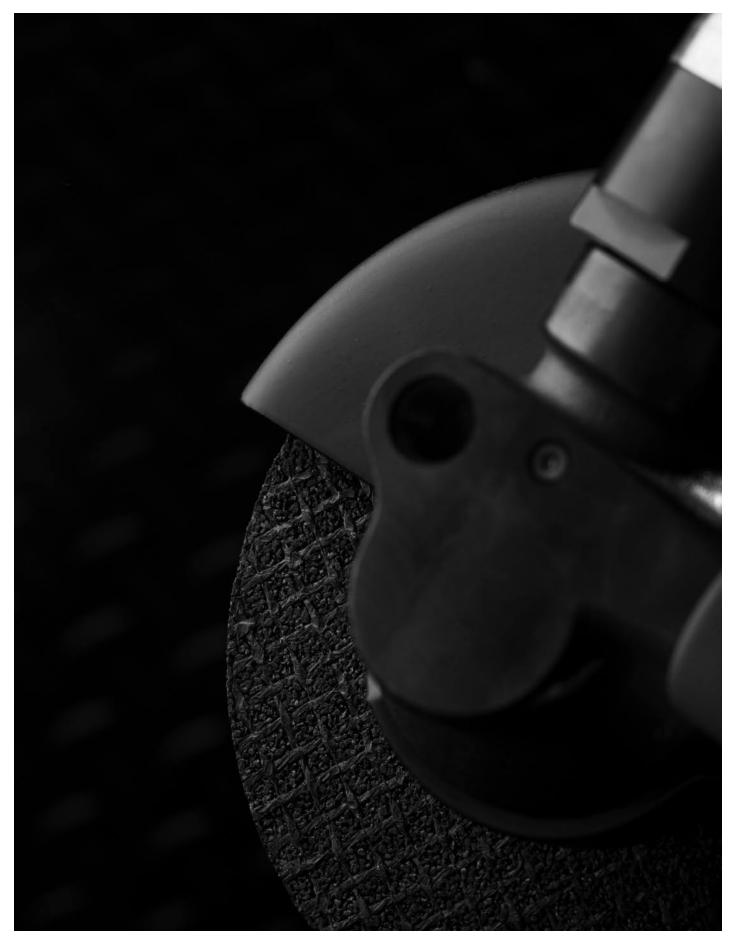
Part Number

490-K

490-KR 1100-660

ADT27-354





P CATO8

4-1/2 Inch

3" (75 mm) - 5" (125 mm) Right Angle Grinders for use with Depressed Center & Type 1 Grinding/Cut-off Wheels 1.2 H.P. (900 W)



VIII VIII MAR INT Type 27 Wheel With 3/8 Inch

Mount Hole

Type 27 Wheel With 5/8 Inch Mount Hole

Type 27 Wheel With 7/8 Inch Mount Hole

▥ Type 27 Wheel With Built In Hub



Air Inlet Size: 3/8" NPT Hose Size Recommendations: 1/2" (13 mm) **Special Features**

V7/A 10/77

Extended Neck or Standard Length Available

1.2 H.P. Motor • Dual Position Dead Handle Mount

Extra Charge Accessories

Type 27 Adapters • Safety Levers

Standard Equipment

- Tool Operating Instructions and Service Manual
- 2 Wrenches (sizes based on options)

The depressed center wheel adapters are not supplied as standard equipment with the tools. If you are using a wheel that requires the adapters, they must be purchased separately.

Quick Order Number Case Material Model Maximum **Guard Size** Number **Operating Speed** Aluminum Steel 400RA4;427 400RA4S:427 4 Inch 400RA 10000 RPM 4-1/2 Inch 400RA2;4527 400RA2S;4527 4 Inch 410RA4;427 410RA4S;427 410RA 13000 RPM

All the versions listed in the table will be supplied with a standard lever throttle (class 1). A safety lever throttle (class 2) is also available.

410RA2:4527

This chart has been provided as a means to quickly identify a particular tool. The ordering numbers listed represent the most common versions of our tools. If more specialized versions are required, please build your model number per the following model number flow chart.

400RAK/410RAK*	_
7.09 Inch (180.1 mm)	
3.12 lnch (79.2 mm)	ľ
1.62 Inch (41.1 mm)	

*The rear exhaust version adds 0.84 inch (21.3mm) to overall length.

50	(900 W)		
	2.7 Lb. (

1.2 Kg) Aluminum 3.2 Lb. (1.4 Kg) Steel



35 cfm (16.5 L/s) Max

	Wheel Adapters						
Part Number	Description	Spindle on Tool	Wheel				
490-K	3/8-24 to 3/8 Inch ID Adapter	Style 4 - 3/8-24 X 0.98 Inch	3-4 Inch T27 Wheels with 3/8 Inch ID Hole				
490-KR	5/6-24 10 5/6 IIICII ID Auapter	Style 1 - 3/8-24 X 0.56 Inch	3-4 IIICII 127 WIIEEIS WIII 3/6 IIICII ID HOIE				
1100-660	2/9 24 to E/9 Ipob ID Adoptor		4 Inch T27 Wheels with 5/8 Inch ID Hole				
ADT27-354	3/8-24 to 5/8 Inch ID Adapter	Style 4 - 3/8-24 X 0.98 Inch	4 Inch 127 Wheels with 5/6 Inch 1D Hole				
1100-668	2/0 04 to 7/0 look ID Adoptor	3 Lyle 4 - 5/6-24 X 0.96 IIICII					
ADT27-375	3/8-24 to 7/8 Inch ID Adapter		4 1/2 Inch T27 Wheels with 7/8 Inch ID Hole				
1100-692	3/8-24 to 7/8 Inch ID Adapter	Style 2 - 5/8-11 X 0.88 Inch	4 1/2 IIIGH 127 WHEEIS WILL 7/6 IIIGH ID HOLE				
ADT27-575	5/6-24 10 7/6 IIICII ID Auapter	Style 2 - 5/6-11 X 0.00 IIICI					

Cnindlo	Wheel Size				
Spindle	3"	4"	4 1/2"	5"	
(1) - 3/8-24 X 0.563	Х	Х			
(4) - 3/8-24 X 0.980	Х	Х	Х	Х	
(2) - 5/8-11 X 0.875			Х	Х	

The depressed center wheel adapters are not supplied as standard equipment with the tools. If you are using a wheel that requires the adapters, they must be purchased separately

Example Model Number: 400RA 1 K S R ; 10000;427

410RA2S:4527



P CATO 8

1.2 H.P. (900 W)

3" (75 mm) - 6" (150 mm) Right Angle Grinders for use with Depressed Center & Type 1 Grinding/Cut-off Wheels



Quick Order Number					
Guard Siza	Maximum	Case Material			
uuai u Size	Operating Speed	Aluminum	Steel		
4 Inch		400RAE4;427	400RAE4S;427		
4-1/2 Inch	10000 RPM	400RAE2;4527	400RAE2S;4527		
6 Inch		400RAE4;641	400RAE4S;641		
4 Inch	12000 DDM	410RAE4;427	410RAE4S;427		
4-1/2 Inch		410RAE2;4527	410RAE2S;4527		
All the versions listed in the table will be supplied with a standard lever throttle (class 1). A safety lever throttle (class 2) is also available.					
	Guard Size 4 Inch 4-1/2 Inch 6 Inch 4 Inch 4-1/2 Inch e versions list	Guard SizeMaximum Operating Speed4 Inch10000 RPM4-1/2 Inch10000 RPM4 Inch13000 RPM4-1/2 Inch13000 RPMe versions listed in the table will	Guard SizeMaximum Operating SpeedCase M4 Inch400RAE4;4274-1/2 Inch10000 RPM6 Inch400RAE4;6414 Inch400RAE4;6414 Inch13000 RPM4-1/2 Inch13000 RPM4-1/2 Inch410RAE4;427410RAE4;427410RAE4;427410RAE4;427410RAE4;427410RAE4;427410RAE4;427410RAE4;427410RAE4;427410RAE4;427410RAE4;427		

This chart has been provided as a means to quickly identify a particular tool. The ordering numbers listed represent the most common versions of our tools. If more specialized versions are required, please build your model number per the following model number flow chart.

TTT A TTT VIII VIII V7/A V77 Type 27 Wheel With 5/8 Inch Type 27 Wheel With 7/8 Inch Type 27 Wheel With Built In Type 27 Wheel With 3/8 Inch Type 1 Grinding Type 1 Cut-Off Mount Hole Mount Hole Mount Hole Hub Wheel Wheel

Air Inlet Size: 3/8" NPT

Hose Size Recommendations: 1/2" (13 mm) **Special Features**

- Side or Rear Exhaust Available
- Extended Neck or Standard Length Available
- 1.2 H.P. Motor Dual Position Dead Handle Mount

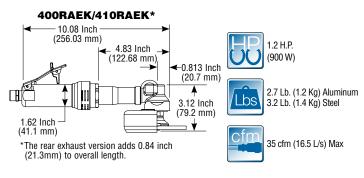
Extra Charge Accessories

Type 27 Adapters • Safety Levers

Standard Equipment

- Tool Operating Instructions and Service Manual
- · 2 Wrenches (sizes based on options)

The depressed center wheel adapters are not supplied as standard equipment with the tools. If you are using a wheel that requires the adapters, they must be purchased separately.

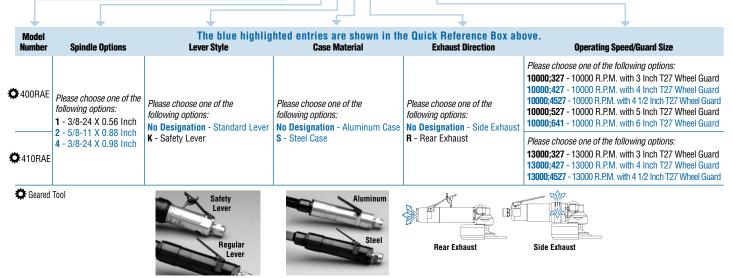


	Wheel Adapters						
Part Number	Description	Spindle on Tool	Wheel				
490-K	2/9 24 to 2/8 lpab ID Adoptor	Style 4 - 3/8-24 X 0.98 Inch	3-4 Inch T27 Wheels with 3/8 Inch ID Hole				
490-KR	3/8-24 to 3/8 Inch ID Adapter	Style 1 - 3/8-24 X 0.56 Inch	3-4 IIICH 127 WHEEIS WILL 3/6 IIICH ID HOLE				
1100-660	3/8-24 to 5/8 Inch ID Adapter		4 Inch T27 Wheels with 5/8 Inch ID Hole				
ADT27-354	3/8-24 to 5/8 men ib Adapter	Style 4 - 3/8-24 X 0.98 Inch	4 Inch 127 Wheels with 5/8 Inch 1D Hole				
1100-668	2/9 24 to 7/8 lpab ID Adoptor	Style 4 - 3/6-24 X 0.96 IIICII					
ADT27-375	3/8-24 to 7/8 Inch ID Adapter		4 1/0 Inch T07 Wheels with 7/8 Inch ID Hole				
1100-692	2/0 04 to 7/0 lack ID Adoptor		4 1/2 Inch T27 Wheels with 7/8 Inch ID Hole				
ADT27-575	3/8-24 to 7/8 Inch ID Adapter	Style 2 - 5/8-11 X 0.88 Inch					

Spindlo	Wheel Size			
Spindle	3"	4"	4 1/2"	5"
(1) - 3/8-24 X 0.563	Х	Х		
(4) - 3/8-24 X 0.980	Х	X	Х	Х
(2) - 5/8-11 X 0.875			Х	Х

The depressed center wheel adapters are not supplied as standard equipment with the tools. If you are using a wheel that requires the adapters, they must be purchased separately.

Example Model Number: 400RAE 4 K S R ; 10000;427



🔊 P C A1 0 8

520RA Series

Right Angle Grinders for use with Depressed Center & Type 1 Grinding/Cut-off Wheels 7" (18 mm) – 10" (250 mm) 2 H.P. (1500 w)



VIII AR III Type 27 Wheel Type 27 Wheel With 3/8 Inch Mount Hole

With 5/8 Inch Mount Hole

Type 27 Wheel Type 27 Wheel With 7/8 Inch Mount Hole With Built In Hub

0 Type 1 Cut-Off Wheel

Type 1

Grinding

Wheel

Air Inlet Size: 1/2" NPT

VZ

Hose Size Recommendations: 1/2" (13 mm)

Extra Charge Accessories

• Depressed Center Wheel Kit • Sanding Pads

Standard Equipment

Tool • Operating Instructions and Service Manual

Special Features

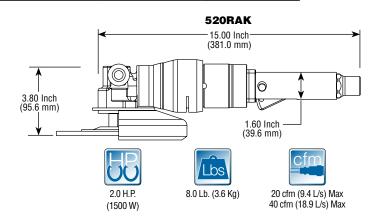
- Spindle Lock Mechanism (Standard Equipment)
- 2.0 H.P. Motor Dual Position Dead Handle
- Adjustable Guard Position

The depressed center wheel adapters are not supplied as standard equipment with the tools. If you are using a wheel that requires the adapters, they must be purchased separately.

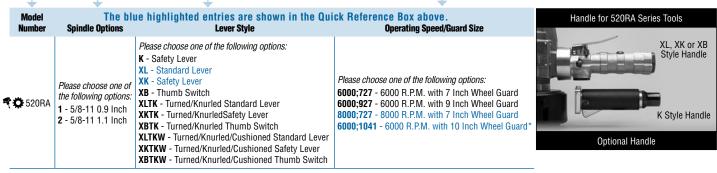
Quick Order Number						
Model	Guard Size	Maximum Operating Speed	Throttle Handle Type			
Number			Standard	Safety		
520RA	7 Inch	8000 RPM	520RAXL;727	520RAXK;727		
	9 Inch	6000 RPM	520RAXL;927	520RAXK;927		
	10 Inch	6000 RPM	520RA2XL;1041	520RA2XK;1041		

This chart has been provided as a means to quickly identify a particular tool. The ordering numbers listed represent the most common versions of our tools. If more specialized versions are required, please build your model number per the following model number flow chart.

Rear Mounted Dead Handle Spindle Lock Button Adiustable Guard



520RA 2 XLTKW ; 8000;727 **Example Model Number:**



Revernor Controlled Tool Geared Tool *Available only with Type 2 Spindle





T P CAT08

Right Angle Die Grinders

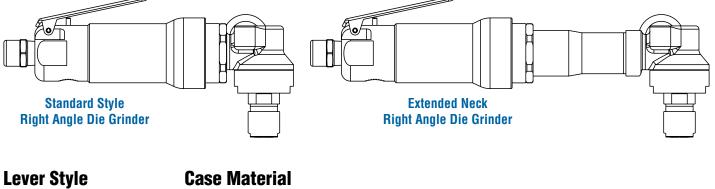
Section Contents

Page Number	Model Number	Power	Inserted Tooling Type/Size		Features								
22	250RAD	0.4 H.P.	Carbide Burrs			Durable Head Design with Small Motor							
23	250RAED		(3/8" Maximum)			Durable Head Design & Extended Neck with Small Motor							
25	270RAD		0.4 H.P.	0.4 H.P.				Small Head & Extended Neck with Small Motor					
24	280RAD		Carbide Burrs (1/4" Maximum)			Small Head with Small Motor (Lower Speed)							
24	290RAD					Small Head with Small Motor (Higher Speed)							
22	300RAD	0.7 H.P.	Carbide Burrs	Carbide Burrs	V	Durable Head Design with Small Motor							
23	300RAED		(3/8" Maximum)			Durable Head Design & Extended Neck with Small Motor							
25	320RAD					Small Head & Extended Neck with Small Motor							
24	330RAD								Carbide Burrs (1/4" Maximum)			Small Head with Small Motor (Lower Speed)	
24	340RAD					Small Head with Small Motor (Higher Speed)							
26	400RAD					Durable Head Design with Powerful Motor (Lower Speed)							
27	400RAED			Carbide Burrs or Mounted Stones	Mounted Stone:	s U	Durable Head Design & Extended Neck with Powerful Motor (Lower Speed)						
26	410RAD	1.2 H.P.	(3/8" Maximum)	Carbide Burrs		Durable Head Design with Powerful Motor (Higher Speed)							
27	410RAED			Flap Wheels		Durable Head Design & Extended Neck with Powerful Motor (Higher Speed)							
25	420RAD		Carbide Burrs or Mounted Stones (1/4" Maximum)			Small Head & Extended Neck with Powerful Motor							



Extend Neck vs Standard

The extended neck option can help in regards to the reach of the tool. The extended neck option moves the right angle head farther from the motor handle which may be preferable in certain "space limited" grinding applications.

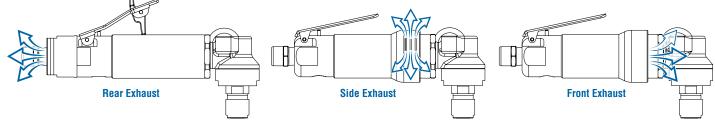






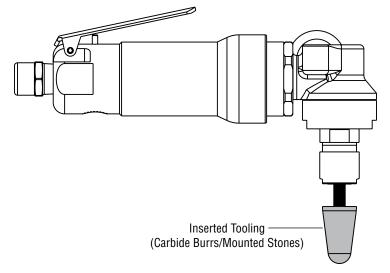
The choice of case material affects the weight and durability of the tool. By it's nature, aluminum is lighter in weight than steel. Steel is also more durable in aggressive environments.

Exhaust Direction



Inserted Tool Mounting

Overhang is the distance between the grinder chuck and the abrasive on the spindle. The larger the overhang, the lower the maximum safe operating speed. Please consult the abrasive manufacturer for proper mounting instructions for the abrasive you are using.



P CATO8

250RAD & 300RAD Series

0.4 H.P. - 0.7 H.P. (300 - 525 W)

Right Angle Collet Grinders

250RAD/300RAD







Air Inlet Size: 1/4" NPT Hose Size Recommendations: 3/8" (10 mm) **Extra Charge Accessories** Safety Lever

Standard Equipment

- Tool Operating Instructions and Service Manual
- 2 Wrenches (sizes based on options)



Front view of



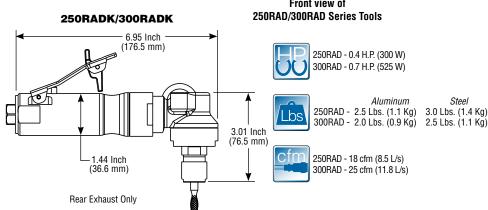
Steel

Quick Order Number					
Model	Collet Size	Maximum Operating Speed	Case Material		
Number			Aluminum	Steel	
250RAD		20000 RPM	250RAD;1/4	250RADS;1/4	
300RAD	1/4 Inch	15000 RPM	300RAD;1/4	300RADS;1/4	
All the versions listed in the table will be supplied with a standard lever					

250RADSK/300RADSK

throttle (class 1). A safety lever throttle (class 2) is also available.

This chart has been provided as a means to guickly identify a particular tool. The ordering numbers listed represent the most common versions of our tools. If more specialized versions are required, please build your model number per the following model number flow chart.



Example Model Number: 250RAD K S ; 20000 ; 1/4

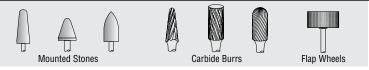
Model Number	The blue Lever Style	highlighted entries are shown in the Case Material	Quick Reference Box above Operating Speed	e. Collet Size
Ф 250RAD	Please choose one of the following options:	Please choose one of the following options:	20000 : 20000 R.P.M.	Please choose one of the following options: 1/8 - 1/8 Inch Collet 1/4 - 1/4 Inch Collet
Ö 300RAD	No Designation - Standard Lever K - Safety Lever	No Designation - Aluminum Case S - Steel Case	15000 : 15000 R.P.M.	3/8 - 3/8 Inch Collet 3MM - 3mm Collet 6MM - 6mm Collet 8MM - 8mm Collet
Ceared Tool	Safety Lever Regular Lever	Aluminum Steel		

T P CAT 08

0.4 H.P. - 0.7 H.P. (300 - 525 W)

Right Angle Collet Grinders





Air Inlet Size: 1/4" NPT Hose Size Recommendations: 3/8" (10 mm) Extra Charge Accessories • Safety Lever

Standard Equipment

- Tool Operating Instructions and Service Manual
- 2 Wrenches (sizes based on options)

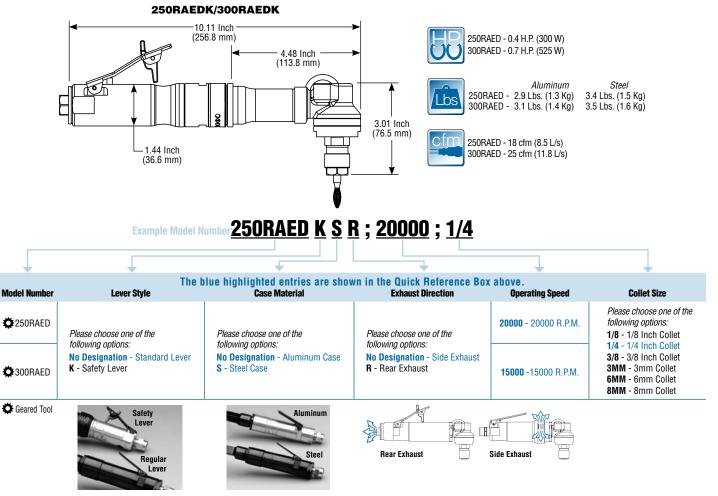
Quick	x Orde	r Number				
Model	Collet	Maximum	Case Material			
Number	Size	Operating Speed	Aluminum	Steel		
250RAED	1/4 Inch	20000 RPM	250RAED;1/4	250RAEDS;1/4		
300RAED		15000 RPM	300RAED;1/4	300RAEDS;1/4		
All the versions listed in the table will be supplied with a standard lever throttle (class 1). A safety lever throttle (class 2) is also available.						
This chart has been provided as a means to quickly identify a particular tool. The ordering numbers listed represent the most common versions of our tools. If more specialized versions are required, please build your model number per the follow-						

ing model number flow chart.



The ER Heavy Duty Collet Is Available On 250RAED & 300RAED Series

Front view of 250RAED/300RAED Series Tools



T豫P CAT08

Carbide Burrs

Air Inlet Size: 1/4" NPT (1/4" BSP Available) Hose Size Recommendations: 3/8" (10 mm)

Right Angle Collet Grinders



280RADK/290RADK/

RIGHT ANGLE GRINDERS

Quick Order Number

Model Number	Collet Size	Maximum Operating Speed	Case Material		
			Aluminum	Steel	
280RAD	1/4 Inch	16000 RPM	280RAD;1/4	280RADS;1/4	
290RAD		26000 RPM	290RAD;1/4	290RADS;1/4	
330RAD		12000 RPM	330RAD;1/4	330RADS;1/4	
340RAD		20000 RPM	340RAD;1/4	340RADS;1/4	
All the versions listed in the table will be supplied with a standard lever					

throttle (class 1). A safety lever throttle (class 2) is also available.

This chart has been provided as a means to quickly identify a particular tool. The ordering numbers listed represent the most common versions of our tools. If more specialized versions are required, please build your model number per the following model number flow chart.



Mounted Stones

Safety Lever

Extra Charge Accessories

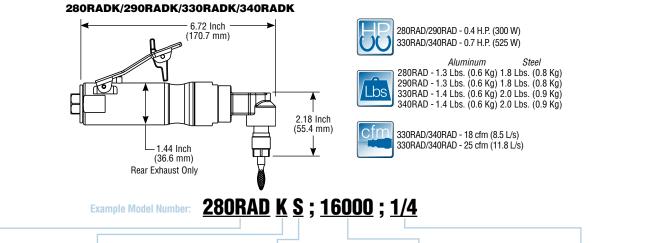
• 2 Wrenches (sizes based on options)

• Tool • Operating Instructions and Service Manual

Standard Equipment



Front view of 280RAD/290RAD/330RAD/340RAD Series Tools



•	V		V	*
Model Number	The blue Lever Style	highlighted entries are shown in the Case Material	Quick Reference Box above. Operating Speed	Collet Size
Q 280RAD			16000 - 16000 R.P.M.	
🔅 290RAD	Please choose one of the following options:	Please choose one of the following options: No Designation - Aluminum Case S - Steel Case	26000 - 26000 R.P.M.	Please choose one of the following options: 1/8 - 1/8 Inch Collet
Ö 330RAD	No Designation - Standard Lever K - Safety Lever		12000 -12000 R.P.M.	1/4 - 1/4 Inch Collet 3MM - 3mm Collet 6MM - 6mm Collet
🔅 340RAD			20000 - 20000 R.P.M.	OMM - OTHER CONEL
Geared Tool	Safety Lever	Aluminum	· · · · ·	





WARNING: Follow all recommendations from component and abrasive manufacturers for speeds and proper usage.

Flap Wheels

PCA108

420RADRK

270RAD/320RAD

0.4 H.P. - 1.2 H.P. (300 - 900 W)

Right Angle Collet Grinders

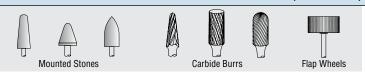
420RADS

The ER Heavy Duty

270RAD, 320RAD &

420RAD Series

Collet Is Available On



Air Inlet Size: 270RAD/320RAD Series: 1/4" NPT 420RAD Series: 3/8" NPT **Hose Size Recommendations:** 270RAD/320RAD Series: 3/8" NPT (10 mm)

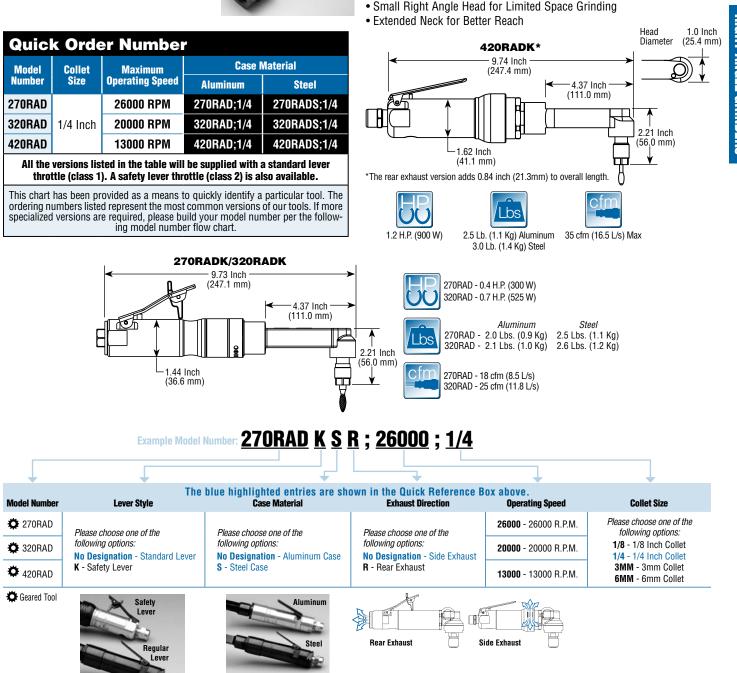
420RAD Series: 1/2" NPT (13 mm) **Extra Charge Accessories**

Safety Lever

Standard Equipment • Tool with Wrench • Operating Instructions and Service Manual

Special Features

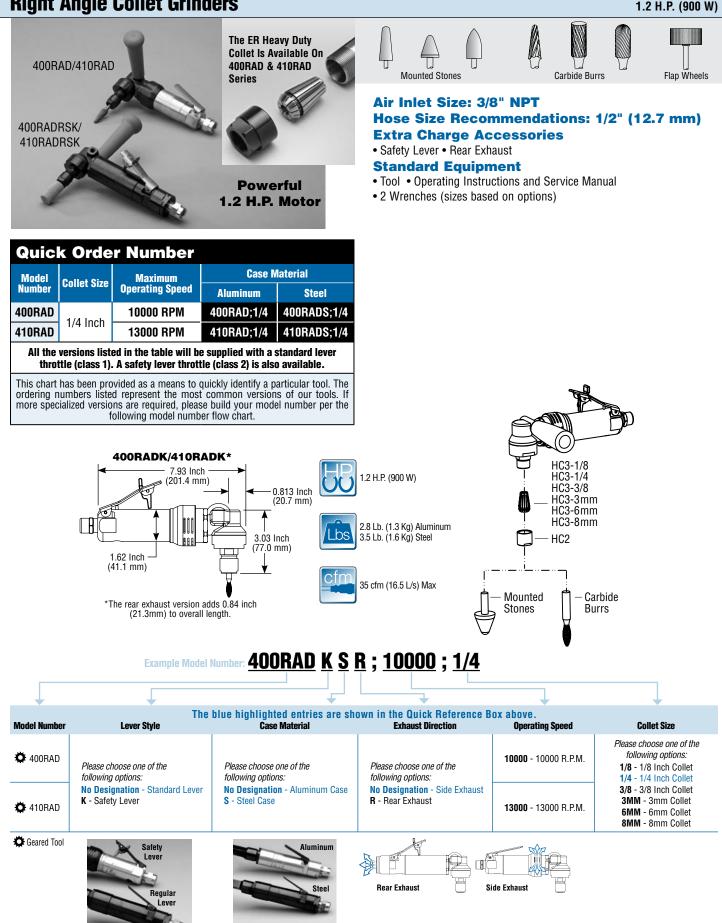
· Small Right Angle Head for Limited Space Grinding



WARNING: Follow all recommendations from component and abrasive manufacturers for speeds and proper usage.

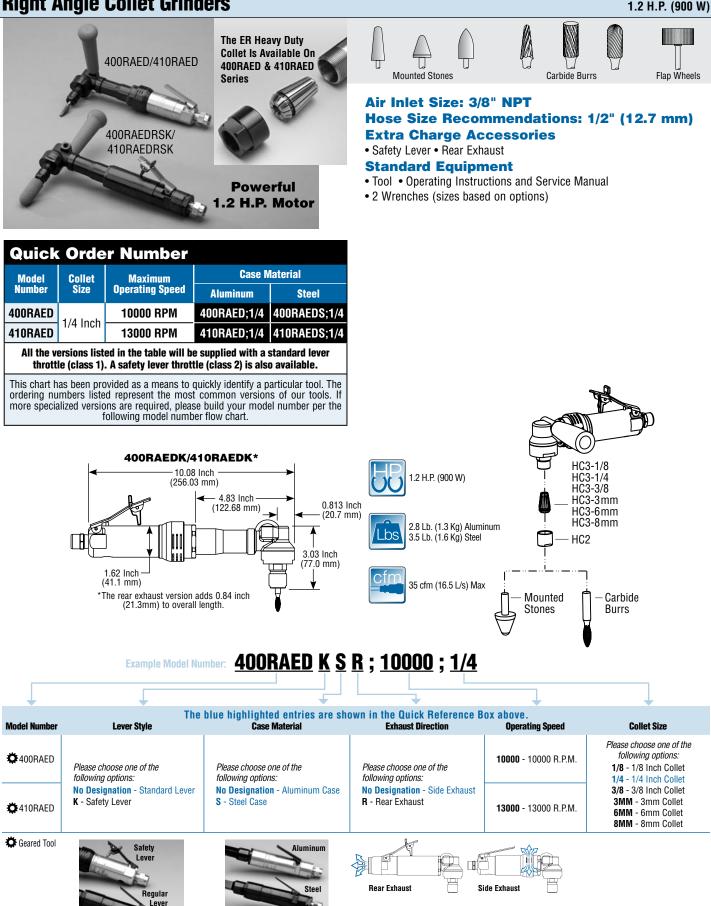
1@P CAT08

Right Angle Collet Grinders



📸 P CAT08

Right Angle Collet Grinders



T[®]P CAT08

Right Angle Sanders, Buffers & Polishers

Section Contents

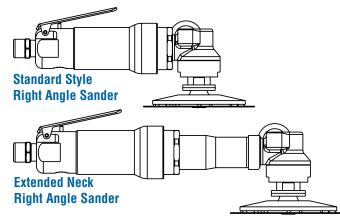
Tool Category	Page Number	Model Number	Power	Sanding Pad Size	Features	
	30	250RA	- 0.4 H.P.		Durable Head Design with Small Motor	
	31	250RAE			Durable Head Design & Extended Neck with Small Motor	
	33	270RA			Small Head & Extended Neck with Small Motor	
	00	280RA			Small Head with Small Motor (Lower Speed)	
	32	290RA		0 Inch or 0 Inch	Small Head with Small Motor (Higher Speed)	
	30	300RA		2 Inch or 3 Inch	Durable Head Design with Small Motor	
	31	300RAE	0.7 H.P.		Durable Head Design & Extended Neck with Small Motor	
	33	320RA	0.7 11.1.		Small Head & Extended Neck with Small Motor	
	32	330RA			Small Head with Small Motor (Lower Speed)	
	32	340RA			Small Head with Small Motor (Higher Speed)	
Right	30	400RA	1.2 H.P.	4 Inch	Durable Head Design with Powerful Motor	
Angle Sanders	31	400RAE			Durable Head Design & Extended Neck with Powerful Motor	
	30	407RA		1.P. 4 Inch or 5 Inch	Durable Head Design with Powerful Governed Motor	
	31	407RAE			Durable Head Design & Extended Neck with Powerful Governed Motor	
	33	420RA		2 Inch or 3 Inch	Small Head & Extended Neck with Powerful Motor	
	36	520RA	2.0 H.P.	7 Inch or 9 Inch	Larger Right Angle Grinder for Larger Applications	
		2601RA	0.4 H.P.		Very Small Head & Extended Neck with Small Motor	X
	34	3101RA	0.7 H.P.	2 Inch		
		4101RA			Very Small Head & Extended Neck with Powerful Motor	
		4520RA			Large Head with Powerful Motor (Lower Speed)	
	35	4527RA		7 Inch or 9 Inch	Large Head with Powerful Governed Motor (Lower Speed)	
	00	4620RA			Large Head with Powerful Motor (Higher Speed)	
		4627RA			Large Head with Powerful Governed Motor (Higher Speed)	
	37	400RA(X)M	1.2 H.P.	Medium	Durable Head Design with Powerful Motor (Planetary Gears)	
Right Angle	37	400RAE(X)M		Polishing Wheels	Durable Head Design & Extended Neck with Powerful Motor (Planetary Gears)	
Buffers & Polishers	20	4520RA(X)M		Larger	Large Head with Powerful Motor (Lower Speed - Planetary Gears)	
	30	38 4620RA(X)M		Polishing Wheels	Large Head with Powerful Motor (Higher Speed - Planetary Gears)	

28



Extend Neck vs Standard

The extended neck option helps in regards to clearance issues when using various types of larger surface finishing abrasives. In these instances, the surface finishing abrasive can interfere with the area around the motor case normally used by the operator to grip the tool. The extended neck option moves the surface finishing abrasive forward which clears the area around the motor case for the operators hand.



Lever Style



Case Material

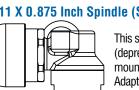


Steel Case Material

The choice of case material affects the weight and durability of the tool. By it's nature, aluminum is lighter in weight than steel. Steel is also more durable in aggressive environments.

Sanding Disk Mounting for Right Angle Sanders

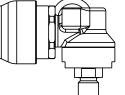
Sanding Pad Sanding Disc



This spindle is the most versatile. Adapters are available which will allow nearly any wheel to mount on this spindle (See chart below.)

5/8-11 X 0.875 Inch Spindle (Spindle Size 2)

3/8-24 X 0.980 Inch Spindle (Spindle Size 4)

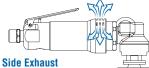


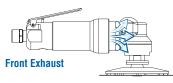
Spindle Options

This spindle is commonly used with type 27 (depressed center) wheels with a either a 7/8" mounting hole or built-in flanges with threads. Adapters are available. (See chart below.)

Exhaust Direction



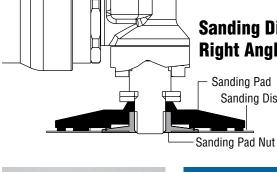


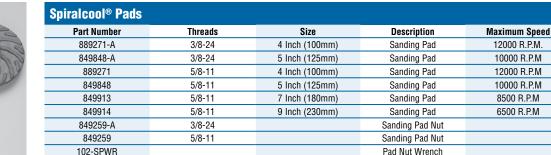


Speed/Sanding Pad Selection



and sanding pad size are closely linked to promote safety and maximize efficiency of the sanding operation. Each model offers various options listed in the Model Number Breakdown and in the chart with each product spread. The choices are based on the characteristics of each model. Please examine the speed/sanding pad size options that best matches the application.





PCAT08

Quick Order Number

Sanding Pad

Size

Maximum 3"

(Not Supplied)

4"

5"

Model

Number

250RA

300RA

400RA

1.44 Inch

(36.6 mm)

Spindle

Thread

1/4-20

External

5/8-11

250RAK/300RAK

6.95 Inch

(176.5 mm)

Right Angle Sanders for use with Abrasive Discs

1" (25 mm) - 5" (125 mm) 0.4 - 1.2 H.P. (300 - 900 W)



This chart has been provided as a means to quickly identify a particular tool. The ordering numbers listed represent the most common versions of our tools. If more special-

ized versions are required, please build your model number per the following model

number flow chart.

Maximum

Operating

Speed

20000 RPM

15000 RPM

10000 RPM

The tools listed in this chart will be provided with an aluminum housing. Steel housing

material is available. See information below for the entire spectrum of options available.

Lbs

ctn

2.14 Inch

(54.4 mm)

Air Inlet Size: 250RA/300RA: 1/4" NPT 400RA/407RA: 3/8" NPT

Hose Size Recommendations: 250RA/300RA: 3/8" (10 mm) 400RA/407RA: 1/2" (13 mm)

Extra Charge Accessories

Type 27 Adapters • Safety Lever

Standard Equipment

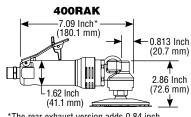
- Tool Operating Instructions and Service Manual
- 2 Wrenches (sizes based on options)

Special Features

Dual Position Dead Handle Mount



Front view of 250RA/300RA/400RA/407RA Series Tool







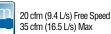
2.8 Lb. (1.3 Kg) Aluminum

20 cfm (9.4 L/s) Free Speed 35 cfm (16.5 L/s) Max

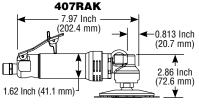


_bs

2.8 Lb. (1.3 Kg) Aluminum 3.5 Lb. (1.6 Kg) Steel



*The rear exhaust version adds 0.84 inch (21.3mm) to overall length.



Example Model Number: 400RA 4 K S R ; 10000;4SP

Steel

Throttle Type

Safety Throttle

250RA6K

300RA6K

400RA2K;4SP

400RA2K:5SP

Standard

Throttle

250RA6

300RA6

400RA2;4SP

400RA2:5SP

250RA - 0.4 H.P. (300 W)

300RA - 0.7 H.P. (525 W)

Aluminum

250RA - 18 cfm (8.5 L/s) Max.

300RA - 25 cfm (11.8 L/s) Max.

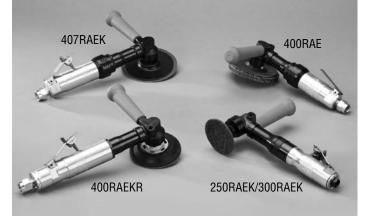
250RA - 2.4 Lbs. (1.1 Kg) 2.9 Lbs. (1.3 Kg)

300RA - 2.5 Lbs. (1.1 Kg) 3.0 Lbs. (1.4 Kg)

	↓				\downarrow
Model Number	Spindle Options	The blue higi Lever Style	hlighted entries are shown Case Material	in the Quick Reference B Exhaust Direction	ox above. Operating Speed/Sanding Pad Size
O 250RA	5 - 1/4-28 Internal			No Designation Deer Subsust	20000 - 20000 R.P.M.
Ö 300RA	6 - 1/4-20 External 7 - 1/2-28 Internal	Discourse and a fitter	Disco shares and of the	No Designation - Rear Exhaust	15000 - 15000 R.P.M.
Ф 400RA	2 - 5/8-11 X 0.875 4 - 3/8-24 X 0.980	Please choose one of the following options: No Designation - Standard Lever K - Safety Lever	Please choose one of the following options: No Designation - Aluminum Case S - Steel Case	Please choose one of the following options: No Designation - Side Exhaust R - Rear Exhaust	10000;4SP - 10000 R.P.M. with 4 Inch Sanding Pad 10000;5SP - 10000 R.P.M. with 5 Inch Sanding Pad
4 07RA				No Designation - Side Exhaust	5000-0000;4SP - 5000-9000 R.P.M. with 4 Inch Sanding Pad** 5000-0000;5SP - 5000-9000 R.P.M. with 5 Inch Sanding Pad**
🔅 Geared T 🐔 Governo	ool r Controlled Tool	Safety Lever Regular Lever	Aluminum		**The range offered reflects the minimum to maximum operating speed: that this tool can be set. One must choose a speed within this range that best fits the application. Please examine the abrasive used with the tool for a maximum operating speed. The tool should be set at or below the maximum operating speed listed on the abrasive.

Right Angle Sanders for use with Abrasive Discs

1" (25 mm) - 5" (125 mm) 0.4 H.P. - 1.2 H.P. (300 - 900 w)



Air Inlet Size: 250RAE/300RAE: 1/4" NPT 400RAE/407RAE: 3/8" NPT

Hose Size Recommendations: 250RAE/300RAE: 3/8" (10 mm) 400RAE/407RAE: 1/2" (13 mm)

Extra Charge Accessories

Type 27 Adapters • Safety Lever

Standard Equipment

• Tool • Operating Instructions and Service Manual

400RAEK* — 10.08 Inch —

(256.03 mm)

1.62 Inch (41.1 mm)

Lbs

4 83 Inch

(122.68 mm)

0.813 Inch

(20.7 mm)

1

A

2.86 Inch

(72.6 mm)

¥

cfm

• 2 Wrenches (sizes based on options)

Special Features

*Rear exhaust

adds 0.82 Inch

(20.8 mm) to

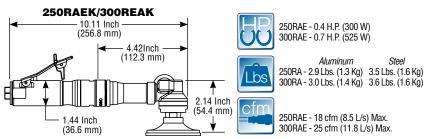
overall length.

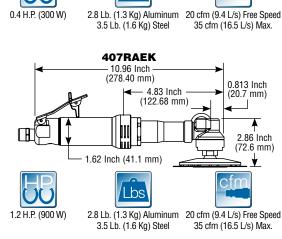
Dual Position Dead Handle Mount

I H

Quick Order Number This chart has been provided as a means to quickly identify a particular tool. The ordering numbers listed represent the most common versions of our tools. If more specialized ver sions are required, please build your model number per the following model number flow chart. **Throttle Type** Maximum Sanding Pad Model Spindle Operating Thread Standard Number Size **Safety Throttle** Speed Throttle **250RAE** 20000 RPM 250RAE6 250RAE6K 1/4-20 (Not Supplied) **300RAE** External 15000 RPM 300RAE6 300RAE6K 400RAE2:4SP 400RAE2K:4SF 4" **400RAE** 5/8-11 10000 RPM 5" 400RAE2:5SP 400RAE2K:5SF The tools listed in this chart will be provided with an aluminum housing. Steel housing

material is available. See information below for the entire spectrum of options available.





Example Model Number: 400RA 4 K S R ; 10000;4SP

Model Number	Spindle Options	The blue high Lever Style	nlighted entries are shown Case Material	in the Quick Reference Bo Exhaust Direction	ox above. Operating Speed/Sanding Pad Size
O 250RAE	5 - 1/4-28 Internal			Please choose one of the following options:	20000 - 20000 R.P.M.
Ö 300RAE	6 - 1/4-20 External 7 - 1/2-28 Internal	Please choose one of the following options:	Please choose one of the following options: No Designation - Aluminum Case S - Steel Case	No Designation - Side Exhaust R - Rear Exhaust	15000 - 15000 R.P.M.
Ф 400RAE	2 - 5/8-11 X 0.88	No Designation - Standard Lever		No Designation - Side Exhaust R - Rear Exhaust	10000;4SP - 10000 R.P.M. with 4 Inch Sanding Pad 10000;5SP - 10000 R.P.M. with 5 Inch Sanding Pad
0 407RAE	4 - 3/8-24 X 0.98			No Designation - Side Exhaust	5000-5000;4SP - 5000-9000 R.P.M. with 4 Inch Sanding Pad* 5000-5000;5SP - 5000-9000 R.P.M. with 5 Inch Sanding Pad*
🔅 Geared To	ool Controlled Tool	Safety Lever Regular Lever	Aluminum		**The range offered reflects the minimum to maximum operating speed that this tool can be set. One must choose a speed within this range that best fits the application. Please examine the abrasive used with the tool for a maximum operating speed. The tool should be set at or below the maximum operating speed listed on the abrasive.

T @ P CAT 08

Right Angle Sanders for use with Abrasive Discs

2" (50 mm) 0.4 H.P. - 0.7 H.P. (300 - 525 W)



Quick Order Number

This chart has been provided as a means to quickly identify a particular tool. The ordering numbers listed represent the most common versions of our tools. If more specialized versions are required, please build your model number per the following model number flow chart.

Model	Spindle Thread	Doted Speed	Throttle Type		
Number	Spinule Thieau	Rated Speed	Standard Lever	Safety Lever	
280RA		16000 RPM	280RA6	280RA6K	
290RA	1/4-20 External	26000 RPM	290RA6	290RA6K	
330RA	1/4-20 EXIGINA	12000 RPM	330RA6	330RA6K	
340RA		20000 RPM	340RA6	340RA6K	

The tools listed in this chart will be provided with an aluminum housing. Steel housing material is available. See information below for the entire spectrum of options available.

Air Inlet Size: 1/4" NPT Hose Size Recommendations: 3/8" (10mm) Extra Charge Accessories

· Safety Lever

Standard Equipment

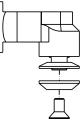
- Tool Operating Instructions and Service Manual
- 2 Wrenches (sizes based on options)

Special Features

Small Right Angle Head for Limited Space Sanding



Front view of 280RA/290RA/330RA/340RA Series Tools



Internal Thread Output w/Flanges to Mount 1/4" ID Surface Conditioning Discs



Internal Thread Output w/o Flanges to Mount Cartridge Rolls



WARNING: Follow all recommendations from component and abrasive manufacturers for speeds and proper usage.

Lever

270RA, 320RA & 420RA Series

Right Angle Sanders for use with Abrasive Discs

2" (50 mm) 0.4 H.P. - 1.2 H.P. (300 - 900 W)



Quick Order Number

This chart has been provided as a means to quickly identify a particular tool. The ordering numbers listed represent the most common versions of our tools. If more specialized versions are required, please build your model number per the following model number flow chart.

Model	Spindle Thread		Throttle Type				
Number		Rated Speed	Standard Lever	Safety Lever			
270RA		26000 RPM	270RA6	270RA6K			
320RA	1/4-20 External	20000 RPM	320RA6	320RA6K			
420RA		13000 RPM	420RA6	420RA6K			

The tools listed in this chart will be provided with an aluminum housing. Steel housing material is available. See information below for the entire spectrum of options available.

Air Inlet Size: 270RA/320RA: 1/4" NPT 420RA: 3/8" NPT Hose Size Recommendations: 270RA/320RA: 3/8" (10mm) 420RA: 1/2" (13mm) Extra Charge Accessories

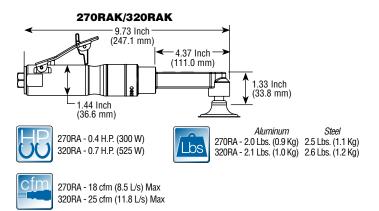
Safety Lever

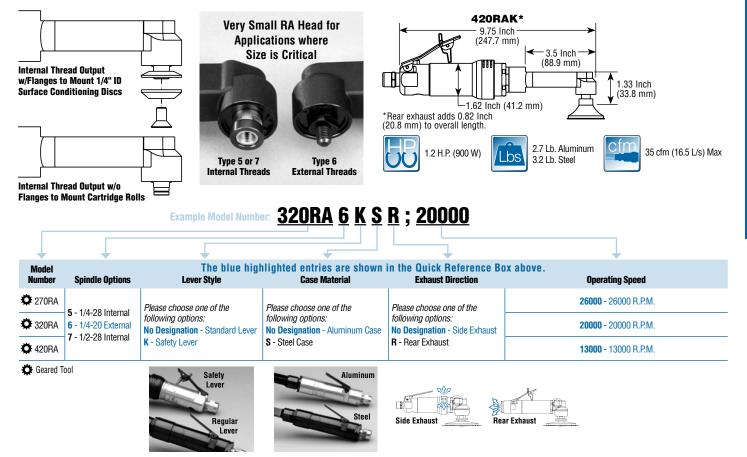
Standard Equipment

• Tool with Wrench • Operating Instructions and Service Manual

Special Features

• Small Right Angle Head for Limited Space Sanding





T @ P CAT08

2601RA, 3101RA & 4101RA Series

Right Angle Sanders for use with Abrasive Discs

1" (25 mm) - 2" (50 mm) 0.4 H.P. - 1.2 H.P. (300 - 900 W)



Quick Order Number

This chart has been provided as a means to quickly identify a particular tool. The ordering numbers listed represent the most common versions of our tools. If more specialized versions are required, please build your model number per the following model number flow chart

Model	Spindle Thread	Rated Speed	Throttle Type				
Number		naleu opeeu	Standard Lever	Safety Lever			
2601RA	1/4-20 External	30000 RPM	2601RA6	2601RA6K			
3101RA		23000 RPM	3101RA6	3101RA6K			
4101RA		15000 RPM	4101RA6	4101RA6K			
The first literal is the second state of the s							

The tools listed in this chart will be provided with an aluminum housing. Steel housing material is available. See information below for the entire spectrum of options available.

Air Inlet Size: 2601RA/3101RA: 1/4" NPT 4101RA: 3/8" NPT **Hose Size Recommendations:** 2601/3101RA: 3/8" (10mm) 4101RA: 1/2" (13mm) **Extra Charge Accessories**

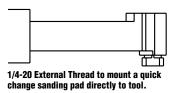
Safety Lever

Standard Equipment

• Tool with Wrench • Operating Instructions and Service Manual

Special Features

- Small Right Angle Head for Limited Space Sanding
- Extended Neck for Better Reach





Very Small RA Head for

Internal Threads

4101RAK*

External Threads



Example Model Number: 4101RA 6 K S R ; 15000

		↓ ↓			
Model Number	Spindle Options	The blue high Lever Style	nlighted entries are shown Case Material	in the Quick Reference Bo Exhaust Direction	ox above. Operating Speed/Sanding Pad Size
Ö 2601RA	5 - 1/4-28 Internal	Please choose one of the	Please choose one of the following options: No Designation - Aluminum Case S - Steel Case	Please choose one of the following options: No Designation - Side Exhaust R - Rear Exhaust	30000 - 30000 R.P.M.
Ö 3101RA	6 - 1/4-20 External 7 - 1/2-28 Internal	following options: No Designation - Standard Lever K - Safety Lever			23000 - 23000 R.P.M.
Q 4101RA					15000 - 15000 R.P.M.
🔅 Geared To	ool	Safety Lever Regular Lever	Aluminum	Side Exhaust	Exhaust Rear Exhaust

Right Angle Sanders for use with Abrasive Discs

Powerful 1.2 H.P. Motor w/ Large, Durable RA Head



Air Inlet Size: 3/8" NPT Hose Size Recommendations: 1/2" (13 mm) Extra Charge Accessories

Safety Lever

- **Standard Equipment**
- Tool Operating Instructions and Service Manual
- 1 Wrench and 1 Pad Nut Wrench
- **SPECIAL FEATURES**
- 1.2 H.P. Motor
- Dual Position Dead Handle Mount

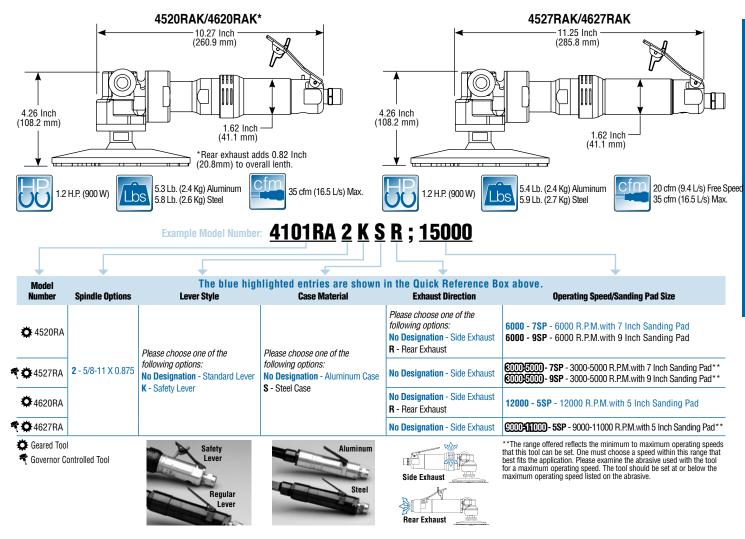
Quick Order Number

This chart has been provided as a means to quickly identify a particular tool. The ordering numbers listed represent the most common versions of our tools. If more specialized versions are required, please build your model number per the following model number flow chart.

Model			Movimum	Throttle Type			
Number	Spindle Thread	Sanding Pad Size	anding Pad Size Operating Speed		Safety Throttle		
4520RA	E/0 11	7 Inch	6000 RPM	4520RA;7SP	4520RAK;7SP		
4620RA	5/8-11	5 Inch	10000 RPM	4620RA;5SP	4620RAK;5SP		
The tools I	The tools listed in this chart will be provided with an aluminum housing. Steel housing material is available. See information below for the entire spectrum of options available.						



Front view of 4520RA/4527/4620RA/4627RA Series Tools



WARNING: Follow all recommendations from component and abrasive manufacturers for speeds and proper usage.

5" (125 mm) - 9" (230 mm) 1.2 H.P. (900 W)

T豫P CAT08

Right Angle Sanders for use with Abrasive Discs

7" (180 mm) - 9" (230 mm) 2 H.P. (1500 W)



Air Inlet Size: 1/2" NPT Hose Size Recommendations: 1/2" (13 mm) **Standard Equipment**

- Tool Operating Instructions and Service Manual
- · 2 Wrenches (sizes based on options)

Quick Reference

Quick Order Number

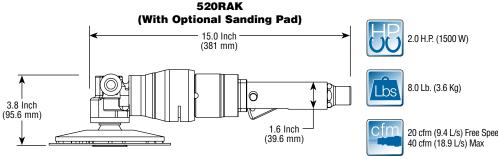
This chart has been provided as a means to quickly identify a particular tool. The ordering numbers listed represent the most common versions of our tools. If more specialized versions are required, please build your model number per the following model number flow chart.

Model			Movimum	Throttle Type				
Number	Spindle Thread	Sanding Pad Size	Operating Speed	Standard Throttle	Safety Throttle			
520RA	5/8-11 X 0.9 Inch	7 Inch	8000 RPM	520RAXL;7SP	520RAXK;7SP			
The tools	The tools listed in this chart will be provided with an aluminum housing. Steel housing material is available. See information below for the entire spectrum of options available.							

Back Mountable Dead Handle



Spindle Lock





Example Model Number: 520RA 2 XLTKW ; 8000;7SP

+	+	\checkmark	+
Model Number	The blue Spindle Options	highlighted entries are shown in the Quic Lever Style	k Reference Box above. Operating Speed/Sanding Pad Size
₹\$ 520RA	1 - 5/8-11 0.9 Inch 2 - 5/8-11 1.1 Inch	Please choose one of the following options: K - Safety Lever XL - Standard Lever XK - Safety Lever XB - Thumb Switch XLTK - Turned/Knurled Standard Lever XKTK - Turned/Knurled Thumb Switch XLTKW - Turned/Knurled/Cushioned Standard Lever XKTKW - Turned/Knurled/Cushioned Standard Lever XKTKW - Turned/Knurled/Cushioned Standard Lever XKTKW - Turned/Knurled/Cushioned Standard Lever XKTKW - Turned/Knurled/Cushioned Thumb Switch	6000;7SP - 6000 R.P.M. with 7 Inch Sanding Pad 6000;9SP - 6000 R.P.M. with 9 Inch Sanding Pad 8000;7SP - 8000 R.P.M. with 7 Inch Sanding Pad

[🕈] Governor Controlled Tool 🛛 🔅 Geared Tool

20 cfm (9.4 L/s) Free Speed

T戀P CAT08

Low Speed Right Angle Sanders for use with Abrasive Discs

7" (180 mm) 1.2 H.P. (900 w)



Air Inlet Size: 3/8" NPT (3/8" BSP Available) Hose Size Recommendations: 1/2" (13 mm)

Extra Charge Accessories

Type 27 Adapters
 Safety Lever

Standard Equipment

- Tool Operating Instructions and Service Manual
- 2 Wrenches (sizes based on options)

Special Features

• 1.2 H.P. Motor • Dual Position Dead Handle Mount

*The (X) is representative of gear train number (3, 5 or 8).

The outer appearance of the tool is the same regardless of the gear train number.

Quick Order Number

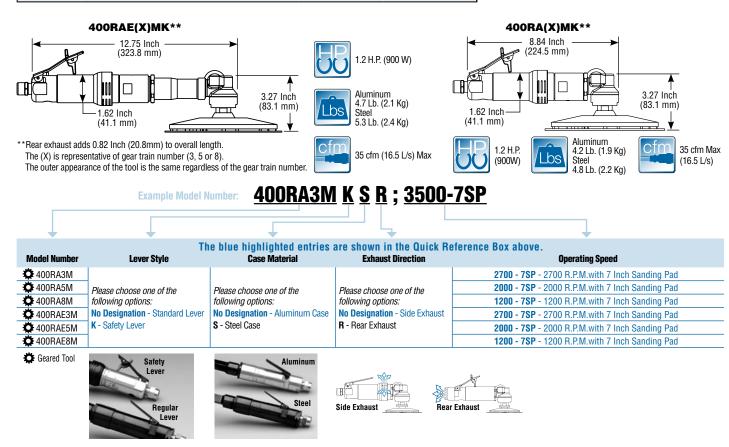
This chart has been provided as a means to quickly identify a particular tool. The ordering numbers listed represent the most common versions of our tools. If more specialized versions are required, please build your model number per the following model number flow chart.

Model	Spindle	Sanding Pad	Maximum	Throttle Type	
Number	Thread	Size	Operating Speed	Standard Throttle	Safety Throttle
400RA3M		7 Inch	2700 RPM	400RA3M;7SP	400RA3MK;7SP
400RA5M			2000 RPM	400RA5M;7SP	400RA5MK;7SP
400RA8M	E/0 11		1200 RPM	400RA8M;7SP	400RA8MK;7SP
400RAE3M	5/8-11		2700 RPM	400RAE3M;7SP	400RAE3MK;7SP
400RAE5M			2000 RPM	400RAE5M;7SP	400RAE5MK;7SP
400RAE8M			1200 RPM	400RAE8M;7SP	400RAE8MK;7SP



Front view of 400RA(X)M Series Tools

The tools listed in this chart will be provided with an aluminum housing. Steel housing material is available. See information below for the entire spectrum of options available.



T豫P CAT08

Air Inlet Size: 3/8" NPT

Extra Charge Accessories Type 27 Adapters
 Safety Lever **Standard Equipment**

2 Wrenches (sizes based on options)

• Front, Side or Rear Exhaust Available

Special Features

• Tool • Operating Instructions and Service Manual

• 1.2 H.P. Motor • Dual Position Dead Handle Mount

Hose Size Recommendations: 1/2" (13 mm)

Low Speed Right Angle Sanders for use with Abrasive Discs

7" (180 mm) 1.2 H.P. (900 w)



*The (X) is representative of gear train number (3, 5 or 8)

The outer appearance of the tool is the same regardless of the gear train number.

Quick Order Number

following options:

K - Safety Lever

No Designation - Standard Lever

Safety

Regula

Lever

This chart has been provided as a means to quickly identify a particular tool. The ordering numbers listed represent the most common versions of our tools. If more specialized versions are required, please build your model number per the following model number flow chart.

Model	Spindle	Sanding	Maximum	Throttle Type		
Number	Thread	Pad Size Operating Speed		Standard Throttle	Safety Throttle	
4520RA3M		5/8-11 7 Inch	2000 RPM	4520RA3M;7SP	4520RA3MK;7SP	
4520RA5M			1200 RPM	4520RA5M;7SP	4520RA5MK;7SP	
4520RA8M	5/8-11		750 RPM	4520RA8M;7SP	4520RA8MK;7SP	
4620RA3M			4000 RPM	4620RA3M;7SP	4620RA3MK;7SP	
4620RA5M			2400 RPM	4620RA5M;7SP	4620RA5MK;7SP	
4620RA8M			1500 RPM	4620RA8M;7SP	4620RA8MK;7SP	

The tools listed in this chart will be provided with an aluminum housing. Steel housing material is

Front view of 4520RA(X)M/4620RA(X)M Series Tools

4000;7SP - 4000 R.P.M.with 7 Inch Sanding Pad

2400;7SP - 2400 R.P.M.with 7 Inch Sanding Pad

1500;7SP - 1500 R.P.M.with 7 Inch Sanding Pad

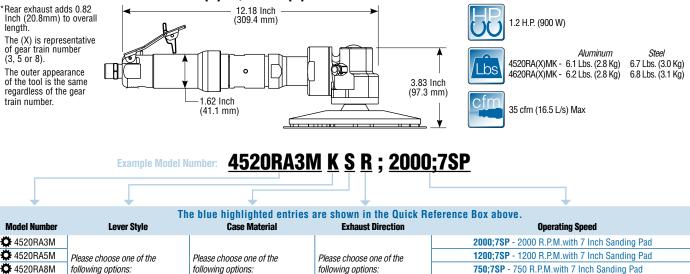
available. See information below for the entire spectrum of options available. 4520RA(X)MK/4620RA(X)MK** **Rear exhaust adds 0.82 12 18 Inch

following options:

S - Steel Case

No Designation - Aluminum Case

luminun



Q 4620RA3M

4620RA5M

Ö 4620RA8M

Geared Tool

WARNING: Follow all recommendations from component and abrasive manufacturers for speeds and proper usage.

Rear Ex

Side Exhaus

following options:

R - Rear Exhaust

No Designation - Side Exhaust



Т[®]Р САТ08

Horizontal Sanders/Polishers

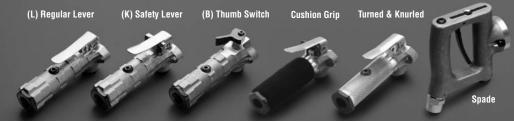
Section Contents

SANDERS (Sin Page Number	gle Planetary G e Model Number	ear Train) Power	Rated Operating Speed	Description	
	400HGE3M		5500 R.P.M.		her.
43	400HGE5M		4000 R.P.M.	 Non-Governed Motor Collet Output 	
	400HGE8M		2500 R.P.M.		
44	400GT3M		5500 R.P.M.		H
	400GT5M	1.2 H.P.	4000 R.P.M.	 Non-Governed Motor Threaded or Adapter Output 	
	400GT8M		2500 R.P.M.		
	400GH3M		5500 R.P.M.		AT.
42	400GH5M		4000 R.P.M.	 Non-Governed Motor Collet, Threaded or Adapter Output 	
	400GH8M		2500 R.P.M.		
	500H1M	1.5 H.P.	4000 R.P.M.	Non-Governed MotorThreaded or Adapter Output	
45	507H1M		1750 - 3600 R.P.M.		Care Car II 1
	520H1M	2.0 H.P.	1500 - 3000 R.P.M.	 Governed Motor Threaded or Adapter Output 	
		-	1500 - 3000 R.P.M.	 Governed Motor Threaded or Adapter Output 	

Page Number	ULISHERS (Doub) Model Number	Power Planetary	Gear Train) Rated Operating Speed	Description	
43	400HGE21M		900 R.P.M.	Non-Governed Motor	
40	400HGE36M		525 R.P.M.	Collet Output	
4.4	400GT21M	1000	900 R.P.M.	Non-Governed Motor	
44	400GT36M	1.2 H.P.	525 R.P.M.	Threaded or Adapter Output	
40	400GH21M		900 R.P.M.	Non-Governed Motor	
42	400GH36M		525 R.P.M.	Collet, Threaded or Adapter Output	
	500H2M	1.5 H.P.	1000 R.P.M.	 Non-Governed Motor Threaded or Adapter Output 	
45	507H2M		500 - 900 R.P.M.		
	520H2M	2.0 H.P.	375 - 750 R.P.M.	 Governed Motor Threaded or Adapter Output 	

Handles Several differ

Several different handle styles are offered on our vertical tools. The picture below shows each in detail.



Lever Style



*Only Tools of 1.5 H.P. or Larger can Accept the Spade Style handle. Tools of 1.2 H.P. and Lower have Different Handle Options.

Speed Size Selection

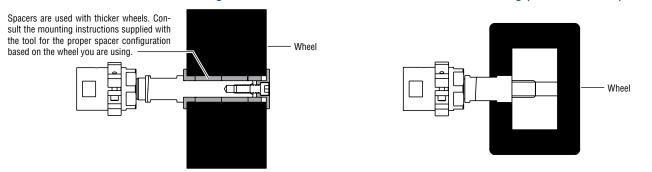
Each model offers various options listed in the Model Number Breakdown and in the chart with each product spread. The choices are based on the characteristics of each model. Please examine the speed size options to select the one that best matches the wheel size you are using.

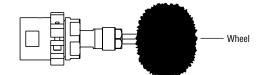
Threaded Mounting (1/2-13 or 5/8-11)

Mounting of Wheels

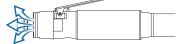
Each wheel type mounts onto the tool in a specific way. Please consult the diagrams below for details on how your particular wheel mounts onto the tool. More details on the mounting of wheels can be found in ANSI B186.1. Mounting wheels in ways other than those shown below are non-compliant and may lead to injury.

Proper Mounting of Flap and Surface Conditioning Wheels with Proper Mounting of Inflatable and Expanding Wheels with a a 1 Inch or 5/8 Inch Mounting Hole

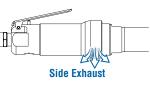


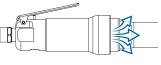


Exhaust Direction



Rear Exhaust (0.7 HP & 1.2 HP Tools Only)





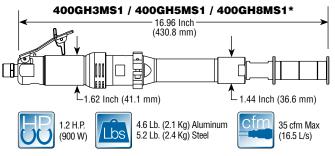
Front Exhaust

T[®]P CATO8 **Horizontal Sanders & Polishers** 400GH(X)MKS1* **Extra Charge Accessories** · Safety Lever Standard Equipment Tool • Wheel Flange • Wheel Nut • Wrench

400GH(X)MRT5/83

This chart has been provided as a means to quickly identify a particular tool. The ordering numbers listed represent the most common versions of our tools. If more specialized versions are required, please build your model number per the following model number flow chart.

Model			Output Type	
Number	Rated Speed	T5/8 - 5/8-11 Spindle	S1 - 1 or 5/8 Inch Adapter	D - Collet
400GH3M	5500 RPM	400GH3MT5/8	400GH3MS1	400GH3MD;1/4
400GH5M	4000 RPM	400GH5MT5/8	400GH5MS1	400GH5MD;1/4
400GH8M	2500 RPM	400GH8MT5/8	400GH8MS1	400GH8MD;1/4
400GH21M	900 RPM	400GH21MT5/8	400GH21MS1	400GH21MD;1/4
400GH36M	525 RPM	400GH36MT5/8	400GH36MS1	400GH36MD;1/4

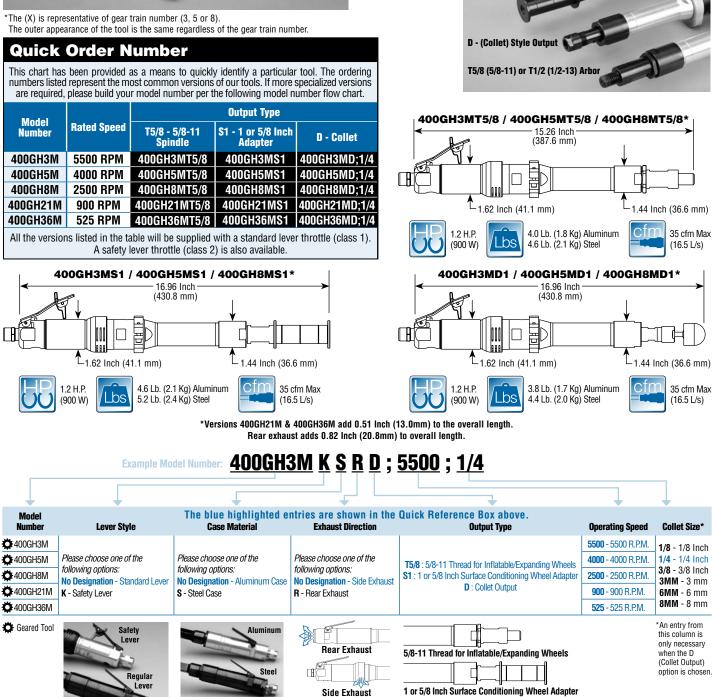


Air Inlet Size: 3/8" NPT (3/8" BSP Available) Hose Size Recommendations: 1/2" (13 mm)

S1 - Combination Arbo

· Operating Instructions and Service Manual

525 R.P.M. to 5500 R.P.M. 1.2 H.P. (900 W)



Collet Output

Ē

PCAT08

525 R.P.M. to 5500 R.P.M.

1.2 H.P. (900 W)

Horizontal Sanders & Polishers



*The (X) is representative of gear train number (3, 5 or 8).

The outer appearance of the tool is the same regardless of the gear train number.

Quick Order Number

This chart has been provided as a means to quickly identify a particular tool. The ordering numbers listed represent the most common versions of our tools. If more specialized versions are required, please build your model number per the following model number flow chart.

Model Number	Collet	Rated Speed	Thrott	le Type		
Model Mulliper	Size	пасси ореси	Standard Throttle	Safety Throttle 400HGE3MK:1/4		
400HGE3M		5500 RPM	400HGE3M;1/4	400HGE3MK;1/4		
400HGE5M	1/4 Inch	4000 RPM	400HGE5M;1/4	400HGE5MK;1/4		
400HGE8M		2500 RPM	400HGE8M;1/4	400HGE8MK;1/4		
400HGE21M		900 RPM	400HGE21M;1/4	400HGE21MK;1/4		
400HGE36M		525 RPM	400HGE36M;1/4	400HGE36MK;1/4		
All the versions listed in the table will be supplied with a standard lever throttle (class 1).						

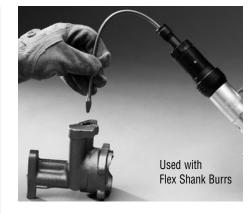
A safety lever throttle (class 2) is also available.

Air Inlet Size: 3/8" NPT (3/8" BSP Available) Hose Size Recommendations: 1/2" (13 mm) **Extra Charge Accessories**

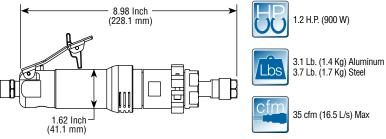
· Safety Lever

Standard Equipment

- Tool Wheel Flange
- Wheel Nut Wrench
- · Operating Instructions and Service Manual



400HGE3M / 400HGE5M / 400HGE8M*



*Versions 400HGE21M & 400HGE36M add 0.51 Inch (13.0mm) to the overall length. Rear exhaust adds 0.82 Inch (20.8mm) to overall length.

Example Model Number:

l ever

<u>400HGE3M K S R ; 5500 ; 1/4</u>

The blue highlighted entries are shown in the Quick Reference Box above. Model Number **Operating Speed Collet Size** Lever Style Case Material Exhaust Direction **Ö** 400HGE3M 5500 - 5500 R.P.M. 1/8 - 1/8 Inch **O** 400HGE5M Please choose one of the Please choose one of the Please choose one of the 4000 - 4000 R.P.M. 1/4 - 1/4 Inch following options: following options: following options: 3/8 - 3/8 Inch 400HGE8M 2500 - 2500 R.P.M. No Designation - Standard Lever No Designation - Aluminum Case No Designation - Side Exhaust **3MM** - 3 mm **O** 400HGE21M 900 - 900 R.P.M. K - Safety Lever S - Steel Case R - Rear Exhaust 6MM - 6 mm 8MM - 8 mm **O** 400HGE36M 525 - 525 R.P.M. Geared Tool Rear Exhaust FR

WARNING: Follow all recommendations from component and abrasive manufacturers for speeds and proper usage.

Side Exhaust

525 R.P.M. to 5500 R.P.M. 1.2 H.P. (900 W)

Horizontal Sanders & Polishers



*The (X) is representative of gear train number (3, 5 or 8).

The outer appearance of the tool is the same regardless of the gear train number.

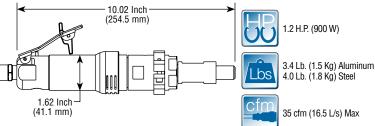
Quick Order Number

This chart has been provided as a means to quickly identify a particular tool. The ordering numbers listed represent the most common versions of our tools. If more specialized versions are required, please build your model number per the following model number flow chart.

Model Number	Rated Speed	Out	put Type
Mouel Number	naleu speeu	T5/8 - 5/8-11 Spindle	S1 - 1 or 5/8 Inch Adapter
400GT3M	5500 RPM	400GT3MT5/8	400GT3MS1
400GT5M	4000 RPM	400GT5MT5/8	400GT5MS1
400GT8M	2500 RPM	400GT8MT5/8	400GT8MS1
400GT21M	900 RPM	400GT21MT5/8	400GT21MS1
400GT36M	525 RPM	400GT36MT5/8	400GT36MS1

All the versions listed in the table will be supplied with a standard lever throttle (class 1). A safety lever throttle (class 2) is also available.

400GT3MT5/8 / 400GT5MT5/8 / 400GT8MT5/8*



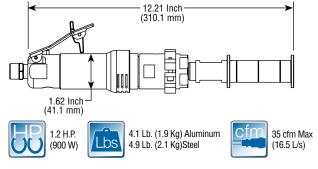
*Versions 400GT21M & 400GT36M add 0.51 Inch (13.0mm) to the overall length. Rear exhaust adds 0.82 Inch (20.8mm) to overall length. Air Inlet Size: 3/8" NPT (3/8" BSP Available) Hose Size Recommendations: 1/2" (13 mm) Extra Charge Accessories • Safety Lever Standard Equipment

Tool • Wheel Flange

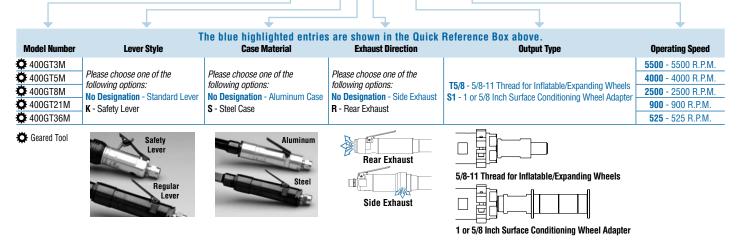
- Wheel Nut
 Wrench
- Operating Instructions and Service Manual



400GT3MS1 / 400GT5MS1 / 400GT8MS1*



Example Model Number: <u>400GT3M</u> <u>K</u> <u>S</u> <u>R</u> ; <u>T5/8</u> ; <u>5500</u>



Horizontal Sanders & Polishers

Quick Order Number

Rated

Speed

4000 RPM

1000 RPM

Model Number

500H1M

500H2M

520H1MKS1 500H1MLT5/8

This chart has been provided as a means to quickly identify a particular tool. The ordering numbers listed represent the most common versions of our tools. If more specialized versions are required, please build your model number per the following model number flow chart.

T5/8 - 5/8-11 Spindle

500H1MT5/8

500H2MT5/8

Output Type

S1 - 1 or 5/8 Inch Adapter

500H1MS1

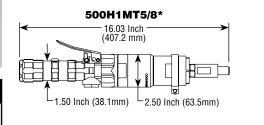
500H2MS1

Air Inlet Size: 1/2" NPT (1/2" BSP Available) Hose Size Recommendations: 1/2" (13 mm) **Extra Charge Accessories**

· Safety Lever

Standard Equipment

- Tool Wheel Flange Wheel Nut Wrench
- Operating Instructions and Service Manual
- Side Handle





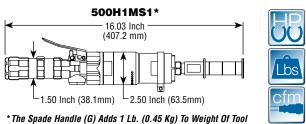
1.5 H.P.

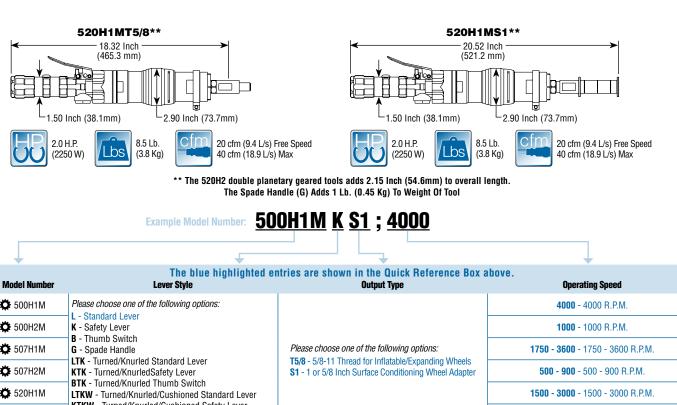
6.5 Lb.

(2.9 Kg)

35 cfm Max (16.5 L/s)

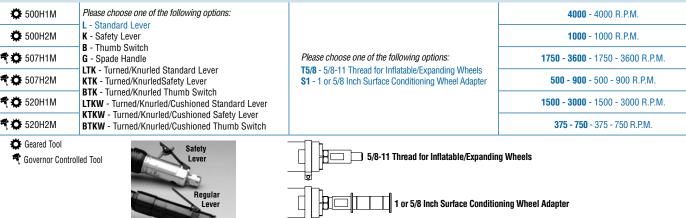
(1500 W)





375 R.P.M. to 4000 R.P.M.

1.5-2 H.P. (1500-2250 W)



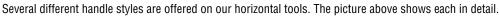
Large Horizontal Grinders

Section Contents

Page Number	Model Number	Power	Description	
47	5201H	2.0 H.P.	Horizontal Grinders for use with Larger (6 Inch - 8 Inch) Type 1 Wheels	Type 1 Wheel Circular Flap Wheels
47	56H	3.0 H.P.	Horizontal Grinders for use with Larger	
47	65H	4.0 H.P.	(6 Inch - 8 Inch) Type 1 Wheels	Surface Circular Wire Finishing Wheels Wheels
48	400GH	1.2 H.P.	Horizontal Grinders for use with 5/8-11 Cone Wheels	Type 16 Type 17
48	511H	1.5 H.P.	Horizontal Grinders for use with 5/8-11 Cone Wheels	Cone Wheel Cone Wheel
48	5201H	2.0 H.P.	Horizontal Grinders for use with 5/8-11 Cone Wheels	Type 17R Type 18 Cone Wheel Cone Wheel
48	56H	3.0 H.P.	Horizontal Grinders for use	
48	65H	4.0 H.P.	with 5/8-11 Cone Wheels	Type 18R Cone Wheel

Handles





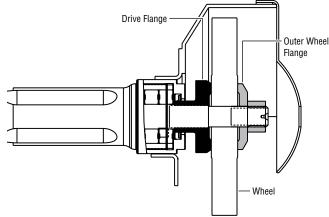
Speed/Guard Size Selection

The operating speed and guard size are closely linked to promote safety and maximize efficiency of the grinding operation. Each model offers various options listed in the Model Number Breakdown and in the chart with each product spread. The choices are based on the characteristics of each model. Please examine the speed/guard size options to select the one that matches the wheel speed/size you are using.

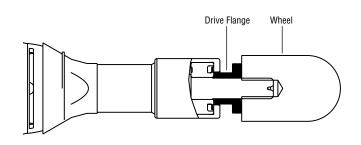
Mounting of Wheels

Each wheel type mounts onto the tool in a specific way. Please consult the diagrams below for details on how your particular wheel mounts onto the tool. More details on the mounting of wheels can be found in ANSI B7.1 and ANSI B186. Mounting wheels in ways other than those shown below are non-compliant and may lead to injury.

Proper Mounting of Large Type 1 Wheels



Proper Mounting of 5/8-11 Cone Wheels



5201H, 56H & 65H Series

Large Horizontal Grinders For Type 1 Wheels, Flap Wheels and Wire Wheels

4" (100 mm) - 8" (200 mm) 2-4 H.P. (1500-3000 W)



Type 1 Wheel







Surface Finishing Wheel Circular Wire Wheel

0

Air Inlet Size: 1/2" NPT Hose Size Recommendations: 1/2" (13 mm)

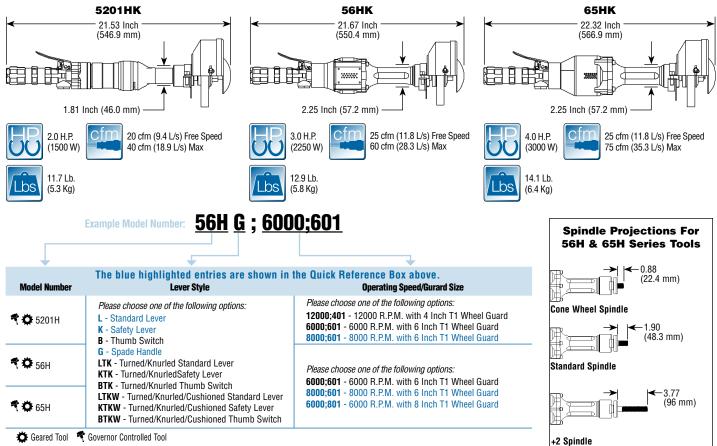
Extra Charge Accessories

- +2" and +3" spindles for use with wire buffing wheels (56H & 65H Series Only)
- Cone Wheel Adapters Adapters for Surface Finishing Wheels
- Reinforced Guards (56H & 65H Series Only)

Standard Equipment

- Tool with Wheel Guard of Choice Wheel Flange Wheel Nut
- Wrench Operating Instructions and Service Manual

Quick Ore	der Numl	ber						
Model Number	Guard Size	Querd Size	0	Maximum	T	hrottle Handle Typ)e	
Mouel Nulliper	uualu Size	Operating Speed	Standard	Safety	Spade	This short has been provided as a means to		
5201H	6		5201HL;601	5201HK;601	5201HG;601	This chart has been provided as a means to quickly identify a particular tool. The ordering		
EGU	6	8000 RPM	56HL;601	56HK;601	56HG;601	numbers listed represent the most common versions of our tools. If more specialized versions		
56H	8	6000 RPM	56HL;801	56HK;801	56HG;801	are required, please build your model number per		
GEU	6	8000 RPM	65HL;601	65HK;601	65HG;601	the following model number flow chart.		
65H	8	6000 RPM	65HL;801	65HK;801	65HG;801			
					-			



4.77 (121 mm)

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Large Horizontal Grinders For 5/8-11 Cone Wheels



Type 16 Cone Wheel Co







Air Inlet Size: 400GH: 3/8" NPT 511H, 5201HCW, 56HCW & 65HCW: 1/2" NPT Hose Size Recommendations: 1/2" (13 mm) Standard Equipment

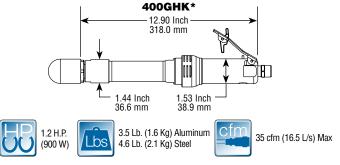
- Tool Wheel Nut Wrench
- Operating Instructions and Service Manual

Quick Order Number

This chart has been provided as a means to quickly identify a particular tool. The ordering numbers listed represent the most common versions of our tools. If more specialized versions are required, please build your model number per the following model number flow chart.

	per me reneming m		
Model Number	Maximum	Throttle Ha	andle Type
Mouel Number	Operating Speed	Standard	Safety
400GH2*	20000 RPM	400GH2S	400GH2SK
511H*	18000 RPM	511HLS	511HKS
5201H*	12000 RPM	5201HLCW	5201HKCW
56H	9000 RPM	56HLCW	56HKCW
65H	8000 RPM	65HLCW	65HKCW
*The 4000110 and	Eddl toolo ordorod	under the numbers	in this short will be

*The 400GH2 and 511H tools ordered under the numbers in this chart will be supplied with steel case material. Aluminum case material is available for these models. Please see the chart at the bottom of this page.



*Rear exhaust adds 0.82 Inch (20.8mm) to overall length.

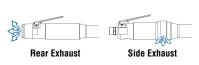
Example Model Number: <u>400GH2</u> <u>K</u> <u>S</u> <u>R</u> ; <u>20000</u>

Model Number	Lever Style	ntries are shown in the Quick Case Material	Exhaust Direction	Operating Speed
400GH2	Please choose one of the following options: L - Standard Lever K - Safety Lever	Please choose one of the following options: No Designation - Aluminum Case	Please choose one of the following options: No Designation - Side Exhaust R - Rear Exhaust	20000 - 20000 R.P.M.
511H	Please choose one of the following options:	S - Steel Case		18000 - 18000 R.P.M.
🤻 5201HCW	K - Stafety Lever B - Thumb Switch G - Spade Handle LTK - Turned/Knurled Standard Lever	Steel	Side	Please choose one of the following options: 9000 - 9000 R.P.M. 12000 - 12000 R.P.M.
🕈 56HCW	KTK - Turned/KnurledSafety Lever BTK - Turned/Knurled Thumb Switch LTKW - Turned/Knurled/Cushioned Standard Lever	Aluminum		9000 - 9000 R.P.M.
ኛ 65HCW	KTKW - Turned/Knurled/Cushioned Safety Lever BTKW - Turned/Knurled/Cushioned Thumb Switch	Aluminum		8000 - 8000 R.P.M.

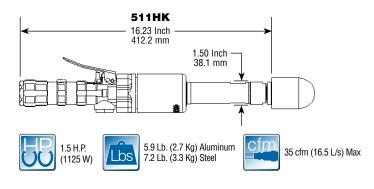
ኛ Governor Controlled Tool

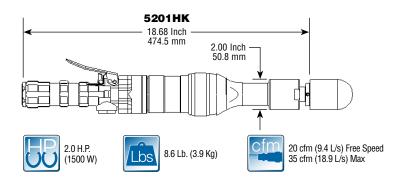


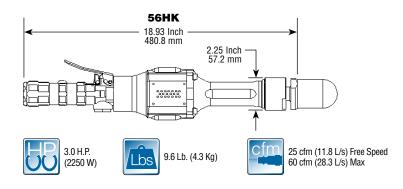


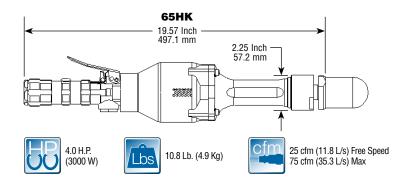


1.2-4 H.P. (900-3000 W)









Small Horizontal Grinders

Section Contents

Page Number	Model Number	Power	Motor Style	Description	
52	400GH4	1.2 H.P.	Non-Governed	Horizontal Grinders for use with Smaller Type 1 Wheels	
52	407GH4	1.2 п.r.	Governed	Type 1 Wheel Circular Flap	
52	51H	1.5 H.P.	Non-Governed	Surface Circular Wire	
52	57H	1.0 11.1 .	Governed	Finishing Wheel Wheel	······································
54	400GH1	1.2 H.P.	Non-Governed	Horizontal Grinders for use with 3/8" Cone Wheels	
54	51HCW	1.5 H.P.	Non-Governed	Type 16 Type 17 Type 17R Type 18 Type 18R Cone Wheel Cone Wheel Cone Wheel Cone Wheel	
56	51H	1. 3 n.r.	Non-Governed	Horizontal Die Grinders with Fixed Size Collets	
56	250EH	0.4 H.P.	Non-Governed	Horizontal Die Grinders	
56	300EH			with Narrow Neck	
56	300GHD	0.7 H.P.	Non-Governed		
56	400GHD	1.2 H.P.	Non-Governed	Horizontal Die Grinders with Insert Style Collets Carbide Burrs	
56	5102H	1.5 H.P.	Non-Governed		

Handles

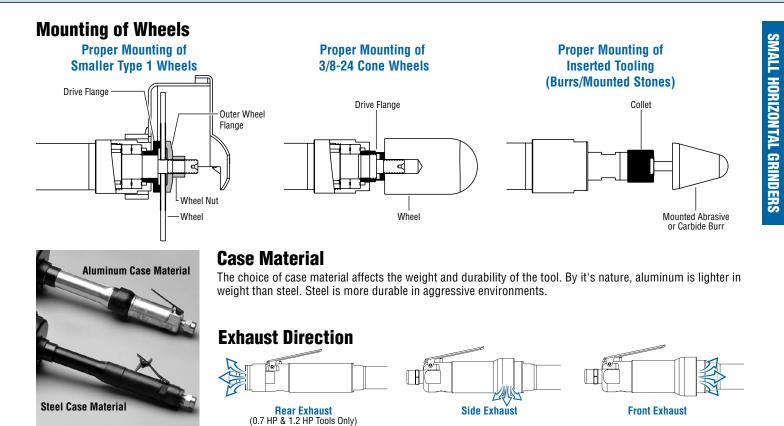
Several different handle styles are offered on our horizontal tools. The picture below shows each in detail.

Lever Style



*Only tools of 1.5 H.P. or larger can accept the spade style handle. Tools of 1.2 H.P. and lower have different handle options.





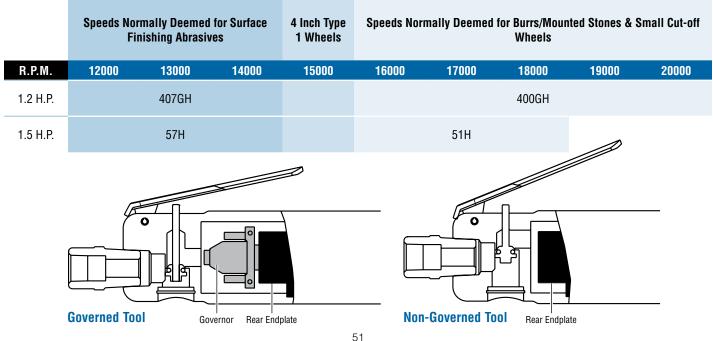
Speed/Guard Size Selection

The operating speed and guard size are closely linked to promote safety and maximize efficiency of the grinding operation. Each model offers various options listed in the Model Number Breakdown and in the chart with each product spread. The choices are based on the characteristics of each model. Please examine the speed/guard size options to select the one that matches the wheel speed/size you are using.



Governed vs. Non-Governed Tools

A governor on a tool will help to maintain a high level of torque at lower operating speeds. If your application requires a lower operating speed, then a governor may be to your benefit. Tools set to higher rated speeds will not benefit from the use of a governor. The following chart will act as a guide based on the operating speed required by your application.



T戀P CAT08

Grinders For 3/8" I.D. Type 1 Wheels, Flap Wheels And Wire Wheels





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 \odot Type 1 Wheel

Air Inlet Size: 400GH4 & 407GH4: 3/8" NPT 51H & 57H: 1/2" NPT

Hose Size Recommendations: 1/2" (13 mm)

Extra Charge Accessories

• Cone Wheel Adapters • Heavy-Duty 2-pc. Collets

Circular Flap Wheels

Erickson Style Collets
 Safety Lever

Standard Equipment

- Tool Operating Instructions and Service Manual
- 2 Wrenches (sizes based on options)

Quick	Order	Number		
Model	Guard	Maximum	Case N	laterial
Number	Size	Operating Speed	Aluminum	Steel
400GH4	3 Inch	18000 RPM	400GH4;301	400GH4S;301
407GH4	4 Inch	15000 RPM	407GH4;401	407GH4S;401
51H	3 Inch	18000 RPM	51HL;301	51HLS;301
57H	4 Inch	15000 RPM	57HL;401	57HLS;401
		d in the table will be A safety lever thrott		
This chart h	as been pro	vided as a means to	o quickly identify	a particular tool.

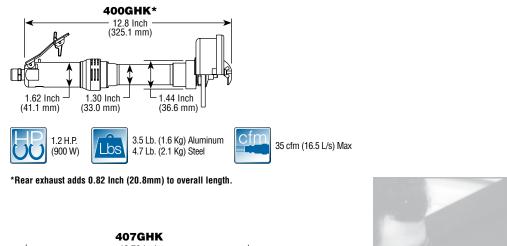
The ordering numbers listed represent the most common versions of our tools. If more specialized versions are required, please build your model number per the following model number flow chart.

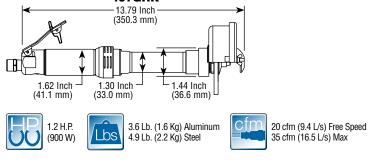
Example Model Number: <u>400GH4</u> <u>K</u> <u>S</u> <u>R</u> ; <u>18000</u>

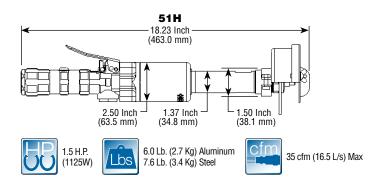
400GH4	Please choose one of the following options: L - Standard Lever K - Safety Lever		Please choose one of the following options: No Designation - Side Exhaust R - Rear Exhaust	18000 - 18000 R.P.M. with 3 Inch T1 Gua
🤻 407GH4				15000 - 15000 R.P.M. with 4 Inch T1 Gua
51H	Please choose one of the following options:	Please choose one of the		18000 - 18000 R.P.M. with 3 Inch T1 Gua
द् 57H	L - Standard Lever K - Safety Lever B - Thumb Switch G - Spade Handle LTK - Turned/Knurled Standard Lever KTK - Turned/KnurledSafety Lever BTK - Turned/Knurled Thumb Switch LTKW - Turned/Knurled/Cushioned Standard Lever KTKW - Turned/Knurled/Cushioned Safety Lever BTKW - Turned/Knurled/Cushioned Thumb Switch	following options: No Designation - Aluminum Case S - Steel Case	No Designation - Side Exhaust	15000 - 15000 R.P.M. with 4 Inch T1 Gua

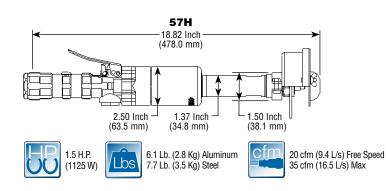
400GH, 407GH, 51H & 57H Series

3" (75 mm) – 4" (100 mm) 1.2-1.5 H.P. (900–1125 W)











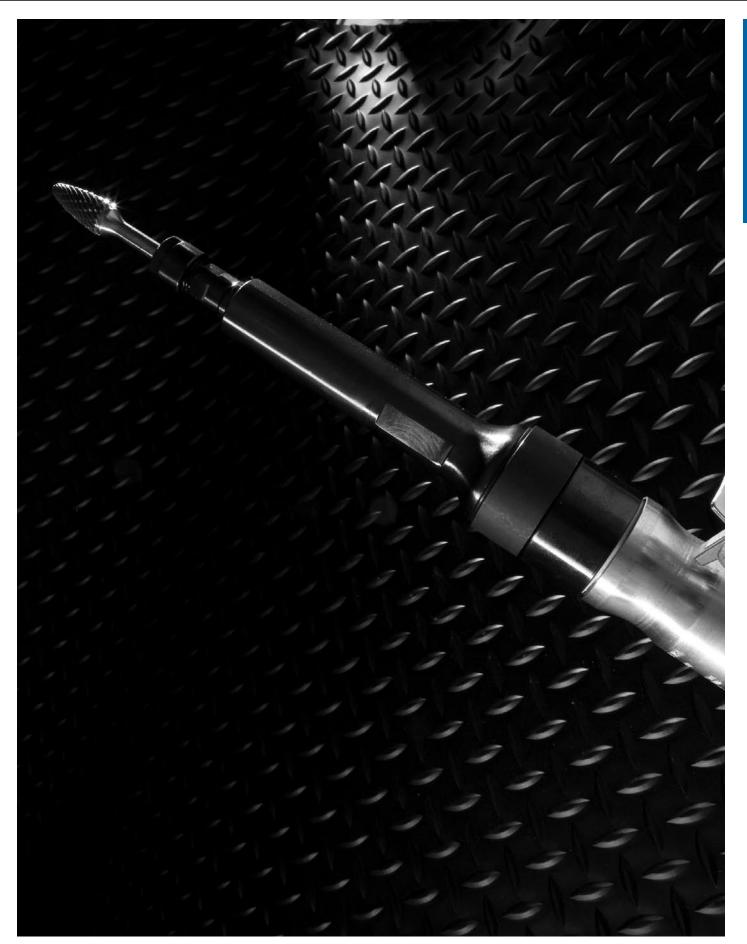
T @ P CAT 08

400GH & 51H Series

Horizontal Extended Grinders For 3/8-24 Cone Wheels 1.2 - 1.5 H.P. (900-1130 W) 51HLCW 400GH1K Type 17 Type 17R Type 18R Type 16 Type 18 Cone Wheel Cone Wheel Cone Wheel Cone Wheel Cone Wheel **Air Inlet Size:** 400GH1: 3/8" NPT 51HCW: 1/2" NPT 400GH1SR 51HLSCW Hose Size Recommendations: 1/2" (13 mm) **Extra Charge Accessories** Safety Lever Quick Order Number **Standard Equipment** • Tool • Operating Instructions and Service Manual **Throttle Type** Model Maximum **Spindle Size** 2 Wrenches (sizes based on options) Number **Operating Speed** Standard Safetv 400GH1 400GH1K 400GH1 20000 RPM 3/8-24 X 0.580 18000 RPM 51HLCW 51HLKCW 51H This chart has been provided as a means to quickly identify a particular tool. The ordering numbers listed represent the most common versions of our tools. If more specialized versions are required, please build your model number per the following model number flow chart. 400GHK* 51HKCW 12.50 Inch 16.31 Inch 318.0 mm 414.3 mm 1.44 Inch 36.6 mm 1.37 Inch 1.50 Inch 2.50 Inch .50 Inch 1.30 Inch 1.62 Inch 34.8 mm 38.1 mm 63.5 mm 38.1 mm 41.1 mm 33 0 mm ctm bs bs 1.2 H.P. 2.8 Lb. (1.3 Kg) Aluminum 35 cfm (16.5 L/s) Max 1.5 H.P. 5.0 Lb. (2.3 Kg) Aluminum 35 cfm (16.5 L/s) Max (900 W) 3.9 Lb. (1.8 Kg) Steel (1125 W) 6.6 Lb. (3.0 Kg) Steel *Rear exhaust adds 0.82 Inch (20.8mm) to overall length. 400GH1 K S R ; 20000 Example Model Number: The blue highlighted entries are shown in the Quick Reference Box above. Model Number **Case Material Exhaust Direction** Lever Style **Operating Speed** Please choose one of the Please choose one of the following options: following options: 400GH1 20000 - 20000 R.P.M. L - Standard Lever No Designation - Side Exhaust K - Safety Lever R - Rear Exhaust Please choose one of the following options: L - Standard Lever Please choose one of the K - Safety Lever following options: B - Thumb Switch No Designation - Aluminum Case G - Spade Handle S - Steel Case 51HCW LTK - Turned/Knurled Standard Lever No Designation - Side Exhaust 18000 - 18000 R.P.M. KTK - Turned/KnurledSafety Lever BTK - Turned/Knurled Thumb Switch LTKW - Turned/Knurled/Cushioned Standard Lever KTKW - Turned/Knurled/Cushioned Safety Lever BTKW - Turned/Knurled/Cushioned Thumb Switch







1 🗟 P CAT08

Extended Grinders with Erickson® Style Collets for Carbide Burrs, Mounted Points



Air Inlet Size: 250EH, 300EH & 300GHD: 1/4" NPT 400GHD: 3/8" NPT 5102H: 1/2" NPT

Hose Size Recommendations: 250EH, 300EH & 300GHD: 3/8" (10 mm) 400GHD & 5102H: 1/2" (13 mm)

Extra Charge Accessories

Safety Lever

Standard Equipment

- Tool
- Operating Instructions and Service Manual
- 2 Wrenches (sizes based on options)

Quick	Order	Number			
Model	Collet Size	Maximum		laterial	
Number	001101 0120	Operating Speed	Aluminum	Steel	
250EH		40000 RPM	250EH;1/4	250EHS;1/4	This chart has been provided as a means to quickly identify a par-
300EH		30000 RPM	300EH;1/4	300EHS;1/4	ticular tool. The ordering numbers listed represent the most common
300GHD	1⁄4 Inch	30000 RPM	300GHD;1/4	300GHDS;1/4	versions of our tools. If more spe- cialized versions are required, please
400GHD		20000 RPM	400GHD;1/4	400GHDS;1/4	build your model number per the fol- lowing model number flow chart.
5102H		18000 RPM	5102HL;1/4	5102HLS;1/4	, , , , , , , , , , , , , , , , , , ,
					(

Detail of 250EHK/300EHK

All the versions listed in the table will be supplied with a standard lever throttle (class 1). A safety lever throttle (class 2) is also available.

Example Model Number: 300GHD K S R ; 30000 ; 1/4

Model Number	Lever Style	lighted entries are shown in Case Material	Exhaust Direction	Operating Speed	Collet Size
250EH		Please choose one of the following options: No Designation - Aluminum Case S - Steel Case	Please choose one of the following options: No Designation - Side Exhaust R - Rear Exhaust	40000 - 40000 R.P.M.	Please choose one of the following options: 1/8 - 1/8 Inch Collet 1/4 - 1/4 Inch Collet 3/8 - 3/8 Inch Collet 3MM - 3mm Collet 6MM - 6mm Collet 8MM - 8mm Collet
300EH	Please choose one of the following options: L - Standard Lever			30000 - 30000 R.P.M.	
300GHD	K - Safety Lever				
400GHD				20000 - 20000 R.P.M.	
51H	Please choose one of the following options: L - Standard Lever K - Safety Lever		No Designation - Side Exhaust	18000 - 18000 R.P.M.	Please choose one of the following options: 1/4 - 1/4 Inch Collet 3/8 - 3/8 Inch Collet
5102H	B - Thumb Switch G - Spade Handle LTK - Turned/Knurled Standard Lever KTK - Turned/KnurledSafety Lever BTK - Turned/Knurled Thumb Switch LTKW - Turned/Knurled/Cushioned Standard Lever KTKW - Turned/Knurled/Cushioned Safety Lever BTKW - Turned/Knurled/Cushioned Thumb Switch				Please choose one of the following options: 1/8 - 1/8 Inch Collet 1/4 - 1/4 Inch Collet 3/8 - 3/8 Inch Collet 3MM - 3mm Collet 6MM - 6mm Collet 8MM - 8mm Collet

Reaular Lever

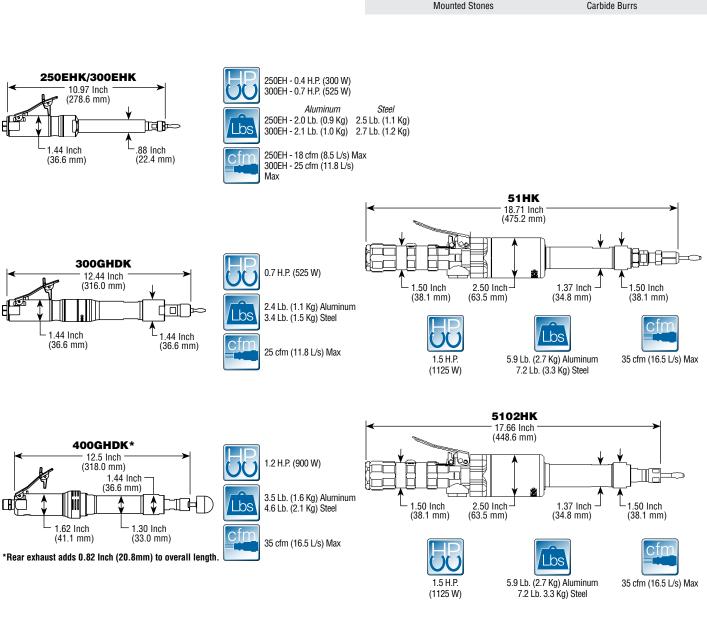


Rear Exhaust	Side Exhaust

Rear Exhaust

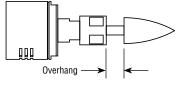


0.4-1.5 H.P. (300-1130 W)





Overhang is the distance between the grinder chuck and the abrasive on the spindle. The larger the overhang, the lower the maximum safe operation speed.



57

T @ P CAT 08

Extended Grinders

Section Contents

Page Number	Model Number	Power	Description	
60	400EH	1.2 H.P.	Small Diameter Neck for Space Conscious Applications	
61	400GEH		1.2 H.P.	
61	407GEH			Rugged Extension and Front End Design
62	520GEH	2.0 H.P.	Smaller Front End-Design	
62	520HGEH		2.0 H.P.	Large Heavy Duty Front-End Design
63	65GEH	4.0 H.P.	Smaller Front End-Design	
63	65HGEH		Large Heavy Duty Front-End Design	

Handles

(L) Regular Lever

(K) Safety Lever

Several different handle styles are offered on our horizontal tools. The picture below shows each in detail.

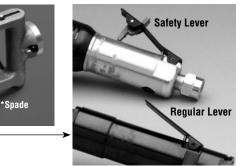
Cushion Grip

Turned & Knurled

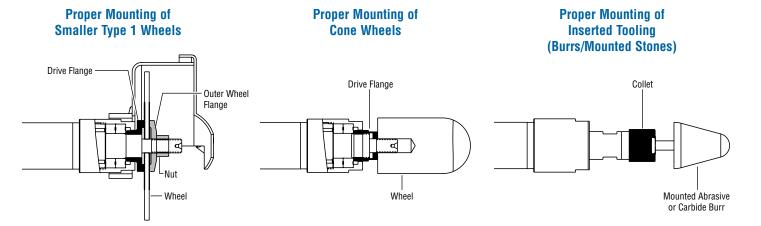
(B) Thumb Switch

*Only tools of 1.5 H.P. or larger can accept the spade style handle. Tools of 1.2 H.P. and lower have different handle options.

Lever Style

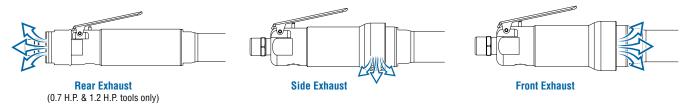


Mounting of Wheels





Exhaust Direction



Case Material

The choice of case material affects the weight and durability of the tool. By it's nature, aluminum is lighter in weight than steel. Steel is more durable in aggressive environments.



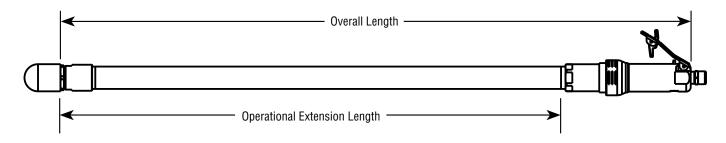
Speed/Guard Size Selection

The operating speed and guard size are closely linked to promote safety and maximize efficiency of the grinding operation. Each model offers various options listed in the Model Number Breakdown and in the chart with each product spread. The choices are based on the characteristics of each model. Please examine the speed/guard size options to select the one that matches the wheel speed/size you are using.

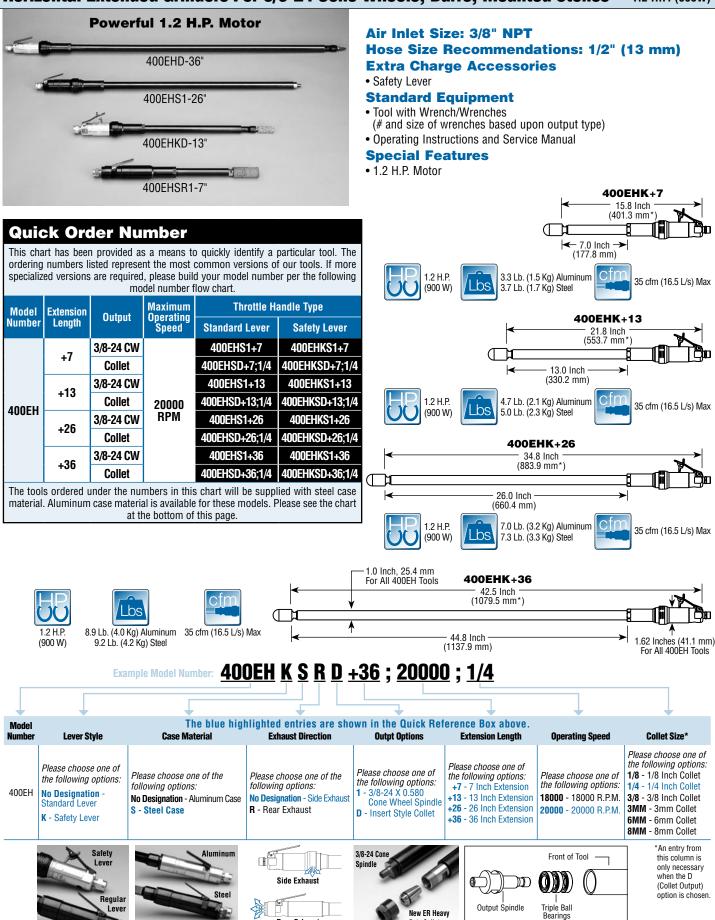


Extension Length

The "+XX" dimension that is designated in the model number is considered the "Operational Extension Length". This dimension is the actual length of the extended housing from the front of the motor forward. The operator should use this dimension as a means to judge the length of necessary extension based on the application. This should not be confused with the "Overall Length" which includes the actual length of the motor and handle.



Horizontal Extended Grinders For 3/8-24 Cone Wheels, Burrs, Mounted Stones 1.2 H.P. (900W)



WARNING: Follow all recommendations from component and abrasive manufacturers for speeds and proper usage.

Duty Collet

400GEH Series

Horizontal Extended Grinders For 3/8-24 & 5/8-11 Cone Wheels, Burrs, Mounted Stones 1.2 H.P. (900W)



1 🗟 P CATO8

Quick Order Number









400GEHK+15

Air Inlet Size: 3/8" NPT

Hose Size Recommendations: 1/2" (13 mm)

Extra Charge Accessories

· Safety Lever

- **Standard Equipment**
- Tool with Wrench/Wrenches (# and size of wrenches based upon output type)
- Operating Instructions and Service Manual
- This chart has been provided as a means to quickly identify a particular tool. The order-23.1 Inch (586.7 mm) ing numbers listed represent the most common versions of our tools. If more special-Tii ized versions are required, please build your model number per the following model 15.0 Inch number flow chart. (381.0 mm) **Throttle Handle Type** Maximum Model Extension 12 H P 7.2 Lb. (3.3 Kg) Aluminum ctrr Output Operating 35 cfm (16.5 L/s) Max Number Length lhs 7.5 Lb. (3.4 Kg) Steel (900 W) Standard Lever Sneed Safety Lever 3/8-24 CW 400GEHS1+15 400GEHSK1+15 +15 5/8-11CW 400GEHS2+15 400GEHSK2+15 400GEHK+28 36.1 Inch Collet 400GEHSD+15:1/4 400GEHSKD+15:1/4 (916.9 mm) 400GEHS1+28 400GEHSK1+28 (3/8-24 CW 20000 28 0 Inch 400GEH +28 5/8-11CW 400GEHS2+28 400GEHSK2+28 (711.2 mm) RPM 400GEHSD+28:1/4 400GEHSKD+28:1/4 Collet 1.2 H.P. 9.2 Lb. (4.2 Kg) Aluminum 35 cfm (16.5 L/s) Max 3/8-24 CW 400GEHSK1+38 400GEHS1+38 hs 9.5 Lb. (4.3 Kg) Steel (900 W) +385/8-11CW 400GEHS2+38 400GEHSK2+38 400GEHSKD+38;1/4 Collet 400GEHSD+38;1/4 400GEHK+38 407GEHS4+15:401 407GEHSK4+15:401 +15 46.2 Inch ⁻ (1173.5 mm) 3/8-24 15000 1.43 Inch (36.3 mm) For All 400GEH Tools 407GEH +28 407GEHS4+28;401 407GEHSK4+28:401 (Type 1) RPM **|**|i| +38 407GEHS4+38:401 407GEHSK4+38:401 38.0 Inch The tools ordered under the numbers in this chart will be supplied with steel case (965.2 mm) material. Aluminum case material is available for these models. Please see the chart 1.62 Inches (41.1 mm) For All 400GEH Tools at the bottom of this page. ctn 12 H P 11.4 Lb. (5.2 Kg) Aluminum 35 cfm (16.5 L/s) Max (900 W) 11.7 Lb. (5.3 Kg) Steel <u>400GEH K S R D +38 ; 20000 ; 1/4</u> Example Model Number: The blue highlighted entries are shown in the Quick Reference Box above. Model Number Lever Style **Case Material Exhaust Direction Outpt Options** Extension Length **Operating Speed Collet Size*** Please choose one of Please choose one of the following options: the following options: Please choose one of the Please choose one of 1/8 - 1/8 Inch Collet 3/8-24 X 0.580 following options: the following options. 1/4 - 1/4 Inch Collet **Cone Wheel Spindle** 400GEH Please choose one of Please choose one of No Designation - Side Exhaust 18000 - 18000 R.P.M 3/8 - 3/8 Inch Collet Please choose one of the 2 5/8-11 X 0.580 Cone the following options: the following options: R - Rear Exhaust 3MM - 3mm Collet 20000 - 20000 R.P.M following options: Wheel Spindle +7 - 7 Inch Extension No Designation 6MM - 6mm Collet D - Insert Style Collet +15 - 15 Inch Extension No Designation - Aluminum Case Standard Lever 8MM - 8mm Collet +28 - 28 Inch Extension S - Steel Case K - Safety Lever +38 - 38 Inch Extension **Operating Speed/Guard Size** 4 - 3/8-24 X 1.1 Please choose one of the following options: 407GEH No Designation - Side Exhaust T1 Wheel Spindle 15000;401 - 15000 R.P.M. with 4 Inch T1 Guard 18000:301 - 18000 R.P.M. with 3 Inch T1 Guard *An entry from 5/8-11 Cor Safety Front Double this column is Ball Bearing Front of Tool lang only necessary when the D Side Exhaust (0)(Collet Output) 0) ທາງ ിന 3/8-24 Cone Snindle option is chosen. ılaı w ER Heavy Duty Collet Lever Front **Output Spindle** Bearing Cap

Governor Controlled Tool

Horizontal Extended Grinders For 3/8-24 & 5/8-11 Cone Wheels & Inserted Tooling 2 H.P. (1500W)



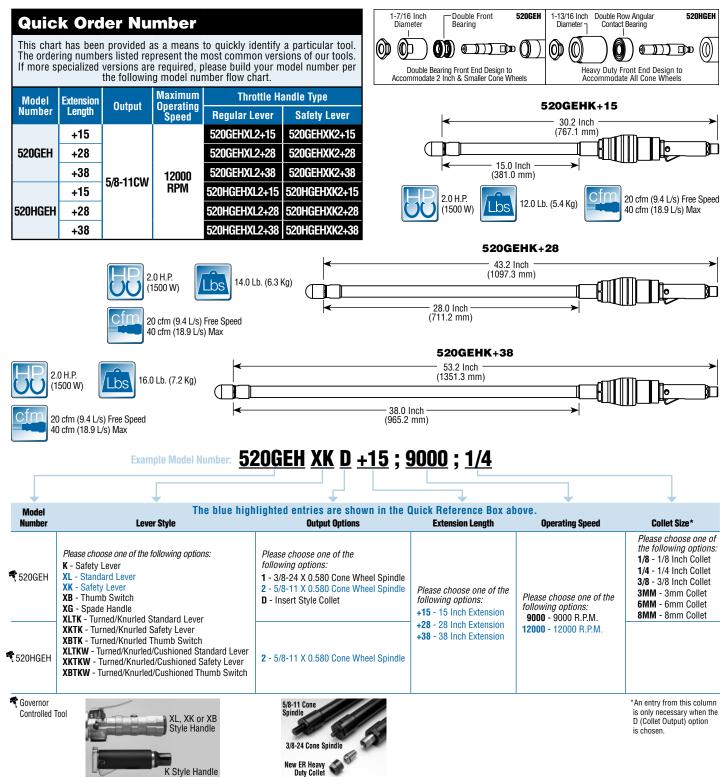
Type 16





Air Inlet Size: 1/2" NPT Hose Size Recommendations: 1/2" (13 mm) Standard Equipment

- Tool Wrench(es) (Amount and size based upon options)
- Operating Instructions and Service Manual



Horizontal Extended Grinders For Cone Wheels



Type 16 Cone Wheel

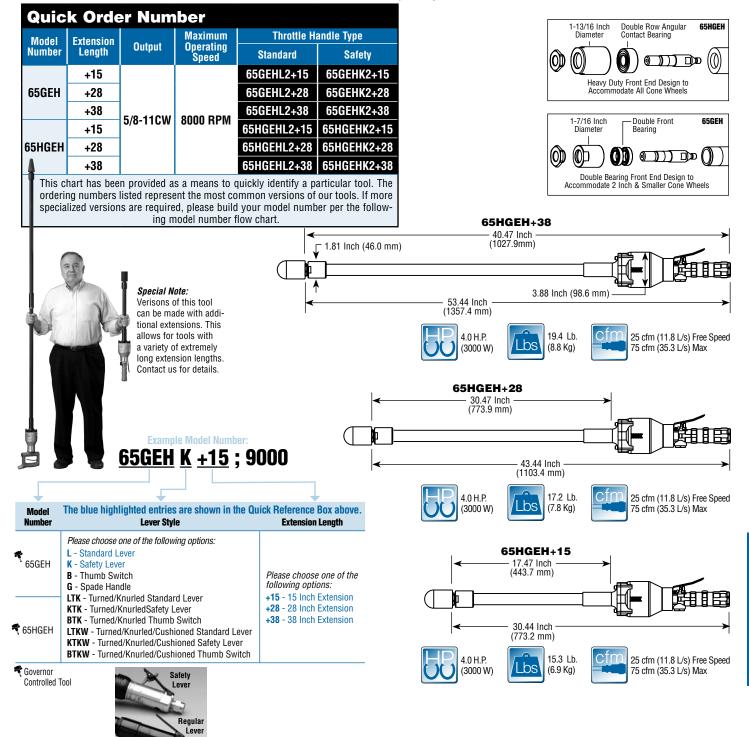


Type 18R Cone Wheel

Air Inlet Size: 1/2" NPT Hose Size Recommendations: 1/2" (13 mm) Arbor Size: 5/8 x 11 Standard Equipment

Tool • 1 Wrench

• Operating Instructions and Service Manual



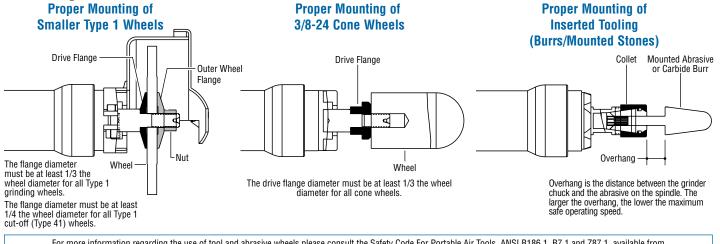
WARNING: Follow all recommendations from component and abrasive manufacturers for speeds and proper usage.

4 H.P. (3000W)

Die Grinders

Page Number	Model Number	Power	Motor Style	Description	
66	20G	0.1 H.P.	Non-Governed	Die Grinders with Fixed Size Collet Output	
70	250GE/250HGE	0.4 H.P. 0.7 H.P.	Non-Governed	Die Grinders	
70	300GE/300HGE		Non-Governed	with Insert Style Collet Output	
70	400GE/400HGE	1.2 H.P.	Non-Governed		
70	400SH/400SH+6		1.2 H.P. Governed		
68	400GT	1.2 H.P.	Non-Governed	Type 1 Wheel Grinders for Material Removal or Surface Conditioning	
68	407GT		Governed		
67	400GTCW	1.2 H.P.	Non-Governed	Cone Wheel Grinders for Material Removal	

Mounting of Wheels



For more information regarding the use of tool and abrasive wheels please consult the Safety Code For Portable Air Tools, ANSI B186.1, B7.1 and Z87.1, available from American National Standards Institute, Inc. 1430 Broadway, New York, NY 10018

Lever Style



Case Material

The choice of case material affects the weight and durability of the tool. By it's nature, aluminum is lighter in weight than steel. Steel is more durable in aggressive environments.



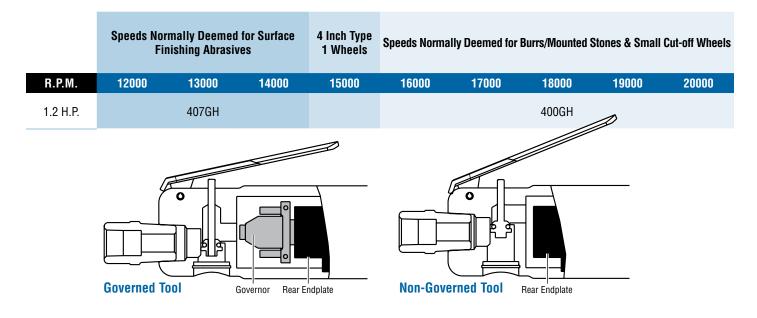
Speed/Guard Size Selection

The operating speed and guard size are closely linked to promote safety and maximize efficiency of the grinding operation. Each model offers various options listed in the Model Number Breakdown and in the chart with each product spread. The choices are based on the characteristics of each model. Please examine the speed/guard size options to select the one that matches the wheel speed/size you are using.



Governed vs. Non-Governed Tools

A governor on a tool will help to maintain a high level of torque at lower operating speeds. If your application requires a lower operating speed, then a governor may be to your benefit. Tools set to higher rated speeds will not benefit from the use of a governor. The following chart will act as a guide based on the operating speed required by your application.



0.1 H.P. (75 W) • 60000 R.P.M.

Die Grinders

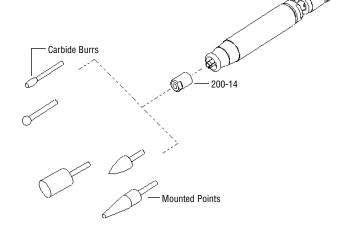
DGM Kit 20GM Kit 20G

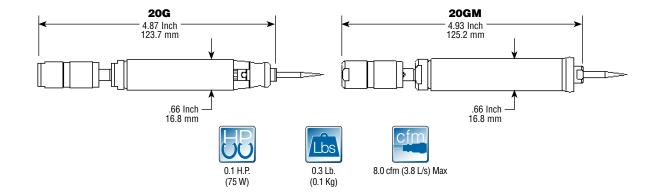
Quick	Order N	lumbe	ľ	
Model Number	Exhaust Direction	Collet Size	Maximum Operating Speed	Ordering Number
20G	Side	1/0	60000 DDM	20G
20GM	Front	1/8	60000 RPM	20GM
This chart has been provided as a means to quickly identify a particular tool. The ordering numbers listed represent the most common versions of our tools.				

The ordering numbers listed represent the most common versions of our tools. If more specialized versions are required, please build your model number per the following model number flow chart.



- Accessory Kit
- **Standard Equipment**
- Tool
- Operating Instructions and Service Manual
- 9/32" Wrench
- Lock Pin
- 3 Foot Length of Hose





Example Model Number: 20G M ; 60000 ; 1/8

+	+	↓	
The blue highlighted entries Exhaust Direction	s are shown in the Qu Operating Speed	iick Reference Box above. Collet Size	
Please choose one of the following options: No Designation - Side Exhaust M - Front Exhaust	60000 : 60000 R.P.M.	Please choose one of the following options: 1/8 - 1/8 Inch Collet 3MM - 3mm Collet	20GM
	Exhaust Direction Please choose one of the following options: No Designation - Side Exhaust	Exhaust Direction Operating Speed Please choose one of the following options: No Designation - Side Exhaust 60000 : 60000 R.P.M.	Please choose one of the following options: Please choose one of the following options: No Designation - Side Exhaust 60000 : 60000 R.P.M.

20G (Side Exhaust)



1.2 H.P. (900 W)

KT V

Die Grinders for 3/8" Cone Wheels





Air Inlet Size: 3/8" NPT

Hose Size Recommendations: 1/2"

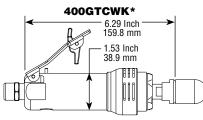
Extra Charge Accessories · Safety Lever

Standard Equipment

• Tool • Wrench • Operating Instructions and Service Manual

Quick Order Number					
This chart has been provided as a means to quickly identify a particular tool. The ordering num- bers listed represent the most common versions of our tools. If more specialized versions are required, please build your model number per the following model number flow chart.					
Model	Power	Davies Maximum Throttle Handle Type			
Number	Power	Spindle Size	Operating Speed	Standard	Safety
400GTCW	1.2 H.P.	3/8-24 X 0.58 Inch	20000 RPM	400GTSCW	400GTSKCW

400GTCW 1.2 H.P. 3/8-24 X 0.58 Inch The tools listed in the above chart are designated with steel case material and side exhaust. Please consult the Model Breakdown section below if alternative options are desired.



*Rear exhaust adds 0.82 Inch (20.8mm) to overall length.



Example Model Number: 400GT K S R ; 20000

Model Number	The blue Lever Style	e highlighted entries are shown in the Case Material	e Quick Reference Box above. Exhaust Direction	Operating Speed
400GTCW	Please choose one of the following options: No Designation - Standard Lever K - Safety Lever	Please choose one of the following options: No Designation - Aluminum Case S - Steel Case	Please choose one of the following options: No Designation - Side Exhaust R - Rear Exhaust	18000 - 18000 R.P.M. 20000 - 20000 R.P.M.
	Safety Lever	Aluminum		
	Regular Lever	Steel	Side Exhaust	
	LEVEL		Rear Exhaust	

P(4) 08

Die Grinders For Type 1 Wheels, Flap Wheels And Wire Wheels





Circular Wire





0



Air Inlet Size: 3/8" NPT

Hose Size Recommendations: 1/2" (13 mm) **Extra Charge Accessories**

- Cone Wheel Adapters Heavy-Duty 2-pc. Collets Safety Lever
- **Standard Equipment**
- Tool Operating Instructions and Service Manual
- 2 Wrenches (sizes based on options)

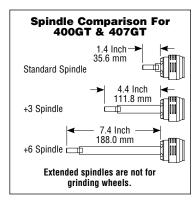
Quick Order Number

This chart has been provided as a means to quickly identify a particular tool. The ordering numbers listed represent the most common versions of our tools. If more specialized versions are required, please build your model number per the following model number

ποώ σταπ.					
Model	Power	Guard Maximum		Throttle Handle Type	
Number	FUWEI	Size	Operating Speed	Standard	Safety
400GT	1.2 H.P.	3 Inch	18000 RPM	400GTS4;301	400GTS4K;301
407GT	1.2 п.г.	4 Inch	15000 RPM	407GTS4;401	407GTS4K;401
The tools listed in the chart to the left are designated with steel case material and side ex-					

haust. Please consult the Model Breakdown section below if alternative options are desired.

and the P



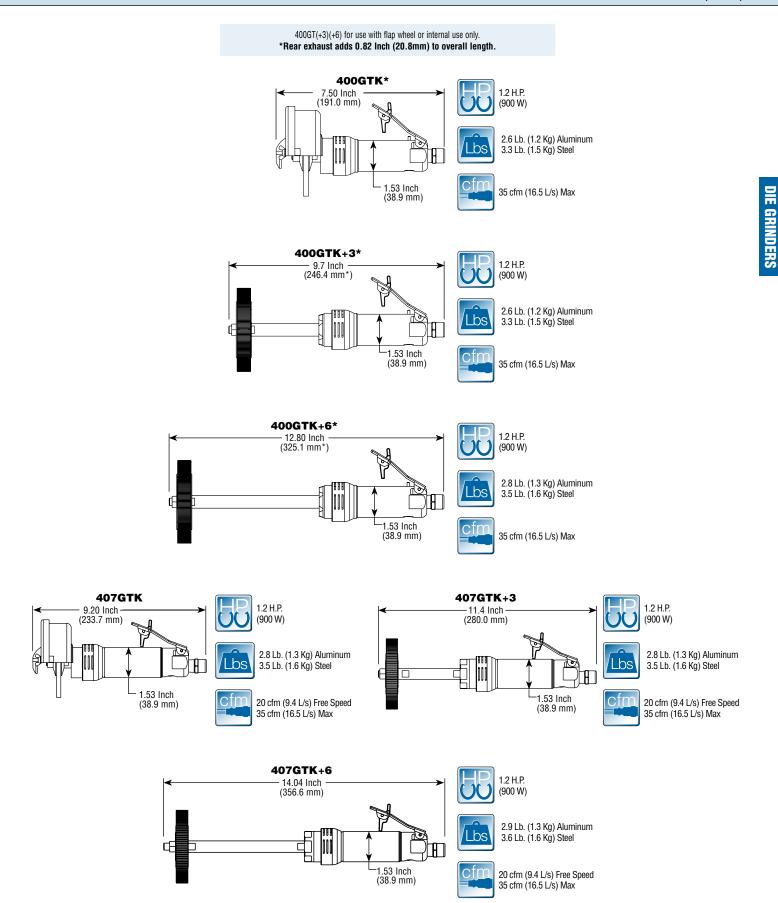
Example Model Number: 407GT K S R ; 15000;401

Model Number	The blu Lever Style	e highlighted entries are shown Case Material	in the Quick Reference Box abo Exhaust Direction	ve . Operating Speed
400GT	Please choose one of the following options:	Please choose one of the following options:	Please choose one of the following options: No Designation - Side Exhaust R - Rear Exhaust	Please choose one of the following options: 18000;301 - 18000 R.P.M. with 3 Inch T1 Guard +3;18000 - 18000 R.P.M. with +3 Extended Spindl +6;18000 - 18000 R.P.M. with +6 Extended Spindl
ኛ 407GT	No Designation - Standard Lever K - Safety Lever	No Designation - Aluminum Case S - Steel Case	Side Exhaust	Please choose one of the following options: 15000;401 : 15000 R.P.M. with 4 Inch T1 Guard +3;15000 - 15000 R.P.M. with +3 Extended Spindl +6;15000 - 15000 R.P.M. with +6 Extended Spindl
	Safety Lever	Aluminum	Side Exhaust	
	Regular Lever	Steel	Side Exhaust	

Rear Exhaust

Revenue Controlled Tool

3" (75 mm) – 4" (100mm) 1.2 H.P. (900 W)



Insert Style Die Grinders For Carbide Burrs & Mounted Stones



Air Inlet Size: 250GE/250HGE/300GE/300HGE: 1/4" NPT 400GE/400HGE: 3/8" NPT

Hose Size Recommendations: 250GE/250HGE/300GE/300HGE: 3/8" (10mm) 400GE/400HGE: 1/2" (13mm)

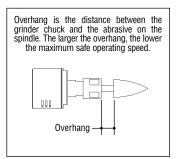
Extra Charge Accessories

Safety Lever

Standard Equipment

- Tool Operating Instructions and Service Manual
- 2 Wrenches (sizes based on options)





Quick Order Number

This chart has been provided as a means to quickly identify a particular tool. The ordering numbers listed represent the most common versions of our tools. If more specialized versions are required, please build your model number per the following model number flow chart.

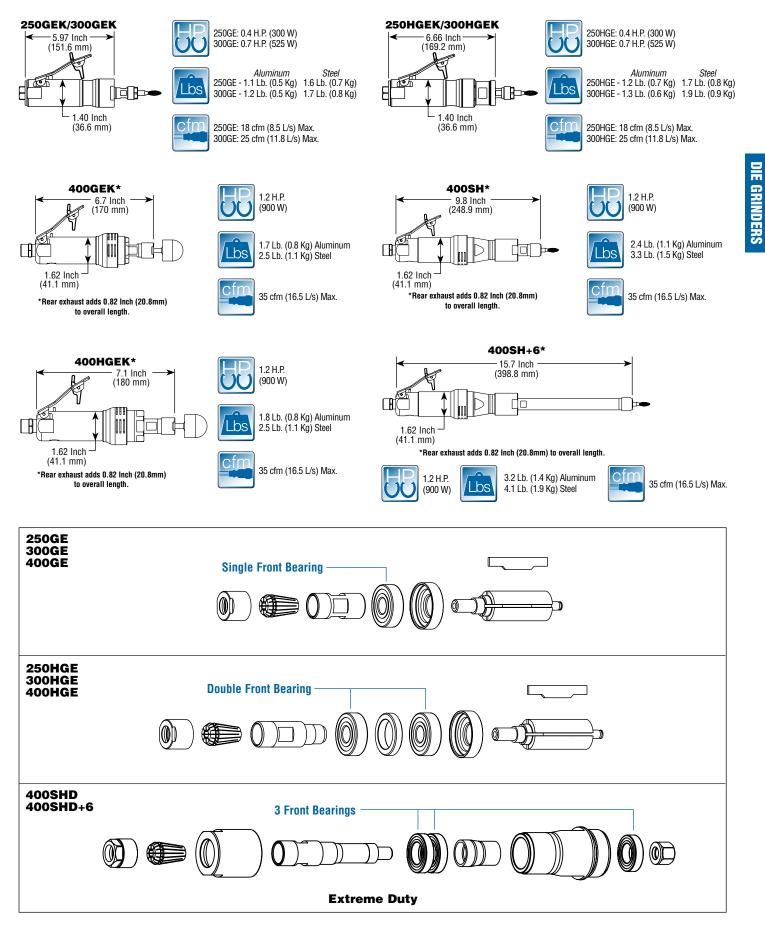
the following model number now chart.						
Model		Collet Maximum		Throttle I	Handle Type	
Number	Power	Size	Operating Speed	Standard	Safety	
	The tools listed below are designated with aluminum case material and rear exhaust. Please consult the Model Breakdown section below if alternative options are desired.					
250GE	0.4 H.P.	40000 0004		250GE;1/4	250GEK;1/4	
250HGE	U.4 N.F.	4 / 4	40000 RPM	250HGE;1/4	250HGEK;1/4	
300GE	07110	1/4	30000 RPM	300GE;1/4	300GEK;1/4	
300HGE	0.7 H.P.			30000 RPM	300HGE;1/4	300HGEK;1/4
The tools listed below are designated with steel case material and side exhaust. Please consult the Model Breakdown section below if alternative options are desired.						
400GE	1.2 H.P.	1/4	20000 RPM	400GES;1/4	400GESK;1/4	
400HGE	1.2 П.Р.	1/4 20000		400HGES;1/4	400HGESK;1/4	

Example Model Number: <u>300GE K S F</u> ; <u>28000</u> ; <u>1/4</u>

		•			\downarrow
Model Number	Lever Style	The blue highlighted entries Case Material	are shown in the Quick Refe Exhaust Direction	rence Box above. Operating Speed	Collet Size
250GE				40000 - 40000 D DM	
250HGE			Please choose one of the following options:	40000 : 40000 R.P.M	Please choose one of the
300GE			No Designation -Rear Exhaust F - Front Exhaust	20000 - 20000 D DM	following options:
300HGE	Please choose one of the following options:	Please choose one of the following options:		30000 : 30000 R.P.M	1/8 - 1/8 Inch Collet 1/4 - 1/4 Inch Collet
400GE	No Designation - Standard Lever K - Safety Lever	No Designation - Aluminum Case S - Steel Case	Please choose one of the		3/8 - 3/8 Inch Collet 3MM - 3mm Collet
400HGE	K - Salety Level	3 - Sleer Gase	following options:	18000 : 18000 R.P.M 6MM - 6mm (6MM - 6mm Collet
400SH			No Designation - Side Exhaust R - Rear Exhaust	20000 : 20000 R.P.M	8MM - 8mm Collet
400SH+6			F - Front Exhaust		
	Safety Lever Regular Lever	Aluminum Steel	Front Exhaust	Side Exhaust Rear Exh	haust

WARNING: Follow all recommendations from component and abrasive manufacturers for speeds and proper usage.

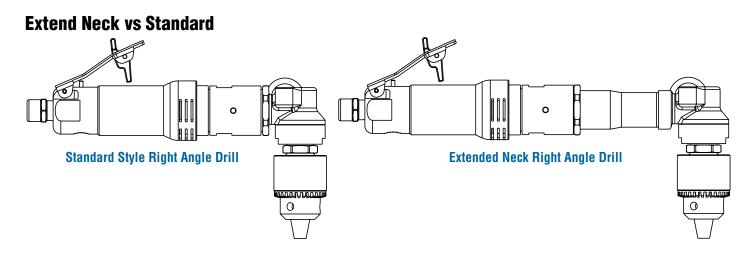
Insert Style Collets 0.4–1.2 H.P. (300–900 W)



Air Drills

Section Contents

Page Number	Model Number	Power	Maximum Operating Speed	Description	
74	400D3M		5500 R.P.M.		
74	400D5M		4200 R.P.M.		Ť
74	400D8M	1.2 H.P.	2500 R.P.M.		
74	400D21M		900 R.P.M.	Inline Drills	
74	400D36M		550 R.P.M.		
75	500D2M	1.5 H.P.	1000 R.P.M.		
75	507D2M	1.5 11.1 .	400-900 R.P.M.		
76	400DRA3M		2700 R.P.M.		
76	400DRA5M		2000 R.P.M.		
76	400DRA8M	1.2 H.P.	1200 R.P.M.	Right Angle Drills	
76	400DRA21M		440 R.P.M.		
76	400DRA36M		260 R.P.M.		
77	400FD3M		5500 R.P.M.		
77	400FD5M		4200 R.P.M.		
77	400FD8M	1.2 H.P.	2500 R.P.M.		
77	400FD21M		900 R.P.M.	Eloor Drills	
77	400FD36M		550 R.P.M.	Floor Drills	
78	500FD1M	1.5 H.P.	1000 R.P.M.		
78	507FD1M		1750-3000 R.P.M.		
78	520FD1M	2.0 H.P.	1500-3000 R.P.M.		U



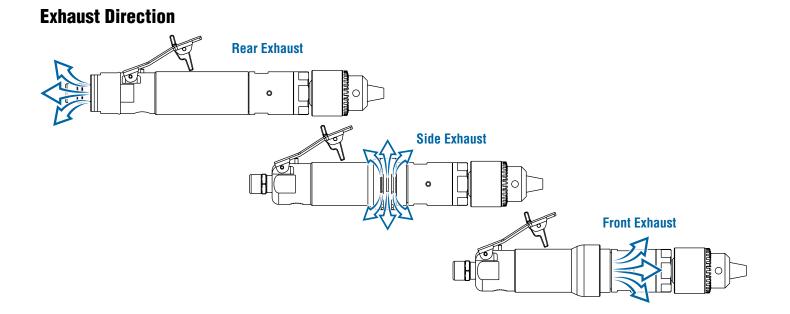
Case Material



The choice of case material affects the weight and durability of the tool. By it's nature, aluminum is lighter in weight than steel. Steel is more durable in aggressive environments.

Lever Style





Т ЭР САТ 08

3/8" or 1/2" Drill Chucks 1.2 H.P. (900 W)

In-Line Drills



*The (X) is representative of gear train number (3, 5 or 8).

The outer appearance of the tool is the same regardless of the gear train number.

Quick Order Number

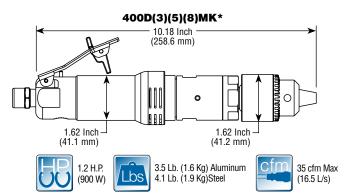
This chart has been provided as a means to quickly identify a particular tool. The ordering numbers listed represent the most common versions of our tools. If more specialized versions are required, please build your model number per the following model number flow chart.

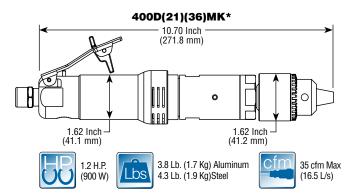
Model	Chuck	Maximum	Throttle Handle Type		
Number Size	Operating Speed	Standard Lever	Safety Lever		
		5500 RPM	400D3M;3/8	400D3MK;3/8	
		4200 RPM	400D5M;3/8	400D5MK;3/8	
	3/8"	2500 RPM	400D8M;3/8	400D8MK;3/8	
		900 RPM	400D21M;3/8	400D21MK;3/8	
		550 RPM	400D36M;3/8	400D36MK;3/8	
400D		5500 RPM	400D3M;1/2	400D3MK;1/2	
		4200 RPM	400D5M;1/2	400D5MK;1/2	
	1/2"	2500 RPM	400D8M;1/2	400D8MK;1/2	
		900 RPM	400D21M;1/2	400D21MK;1/2	
		550 RPM	400D36M;1/2	400D36MK;1/2	

The tools listed in this chart will be provided with an aluminum housing. Steel housing material is available. See information below for the entire spectrum of options available.

Air Inlet Size: 3/8" NPT Hose Size Recommendations: 1/2" (13 mm) Extra Charge Accessories

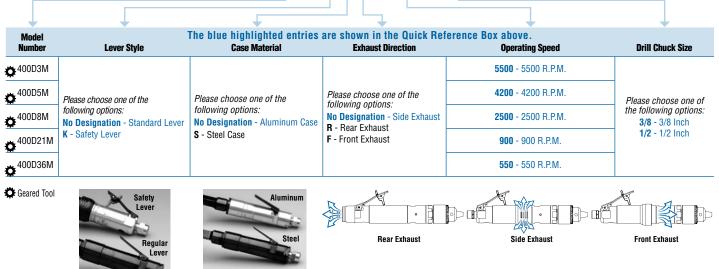
- Safety Lever
- Standard Equipment
- Tool Operating Instructions and Service Manual Chuck Key





*Rear exhaust adds 0.82 Inch (20.8mm) to overall length.

Example Model Number: <u>400D3M K S R</u> ; <u>5500</u> ; <u>1/2</u>



WARNING: Comply with the speed recommendation of component and bit manufacturers.

In-Line Drills

1/2" or 3/4" Drill Chucks 1.5 H.P. (1130 W)

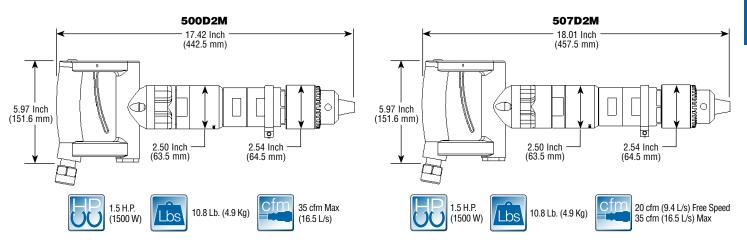


Quick Order Number					
Model Number	Chuck Size	Maximum Operating Speed	Ordering Number		
500D2M	1/2"	1000 R.P.M	500D2M;D1/2		
JUUDZINI	3/4"	1000 K.P.W	500D2M;D3/4		

This chart has been provided as a means to quickly identify a particular tool. The ordering numbers listed represent the most common versions of our tools. If more specialized versions are required, please build your model number per the following model number flow chart.

Air Inlet Size: 1/2" NPT Hose Size Recommendations: 1/2" (13 mm) Standard Equipment

- Tool
- Operating Instructions and Service Manual
- Chuck Key



Example	Model Number: <u>500D2M</u> ; <u>5500</u> ;	<u>1/2</u>
\downarrow		
The Model Number	e blue highlighted entries are shown in the Qu Operating Speed	ick Reference Box above. Drill Chuck Size
500D2M	1000 - 1000 R.P.M.	Please choose one of the following options:
🤻 507D2M	400-900 R.P.M.**	1/2 - 1/2 Inch 3/4 - 3/4 Inch
Rovernor Controlled Tool	**The range offered reflects the minimum to maximum operating speeds that this tool can be set. One must choose a speed within this range that best fits the application. Please examine the abrasive used with the tool for a maximum operating speed. The tool should be set at or below the maximum operating speed listed on the abrasive.	<u> </u>

Right Angle Drills

3/8" or 1/2" Drill Chucks 1.2 H.P. (900 W)



*The (X) is representative of gear train number (3, 5 or 8).

The outer appearance of the tool is the same regardless of the gear train number.

Quick Order Number

This chart has been provided as a means to quickly identify a particular tool. The ordering numbers listed represent the most common versions of our tools. If more specialized versions are required, please build your model number per the following model number flow chart.

	-	-					
Model	Chuck	Maximum	Throttle Handle Type				
Number	Size	Operating Speed	Standard Lever	Safety Lever			
		2700 RPM	400DRA3M;3/8	400DRA3MK;3/8			
		2000 RPM	400DRA5M;3/8	400DRA5MK;3/8			
400DRA	3/8"	1200 RPM	400DRA8M;3/8	400DRA8MK;3/8			
		440 RPM	400DRA21M;3/8	400DRA21MK;3/8			
		260 RPM	400DRA36M;3/8	400DRA36MK;3/8			
		2700 RPM	400DRA3M;1/2	400DRA3MK;1/2			
	1/2"	2000 RPM	400DRA5M;1/2	400DRA5MK;1/2			
		1200 RPM	400DRA8M;1/2	400DRA8MK;1/2			
		440 RPM	400DRA21M;1/2	400DRA21MK;1/2			
		260 RPM	400DRA36M;1/2	400DRA36MK;1/2			

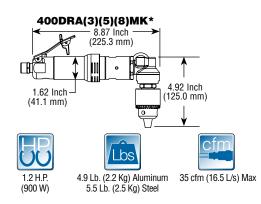
The tools listed in this chart will be provided with an aluminum housing. Steel housing material is available. See information below for the entire spectrum of options available.

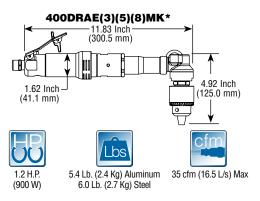
Air Inlet Size: 3/8" NPT Hose Size Recommendations: 1/2" (13 mm) Extra Charge Accessories

Safety Lever

Standard Equipment

• Tool • Operating Instructions and Service Manual • Chuck Key

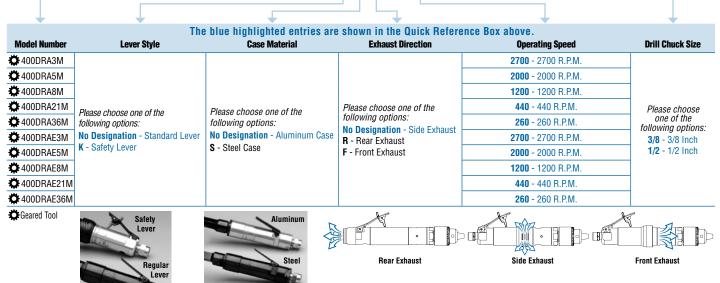




*Rear exhaust adds 0.82 Inch (20.8mm) to overall length.

Versions with 2 planetary gear systems (21) & (36) add 0.52 Inch (13.2 mm) to overall length.

Example Model Number: 400DRA3M K S R ; 2700 ; 1/2



T豫P CAT08

3/8" or 1/2" Drill Chuck 1.2 H.P. (900 W)

Floor Drills



*The (X) is representative of gear train number (3, 5 or 8).

The outer appearance of the tool is the same regardless of the gear train number.

Quick Order Number

This chart has been provided as a means to quickly identify a particular tool. The ordering numbers listed represent the most common versions of our tools. If more specialized versions are required, please build your model number per the following model number flow chart.

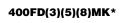
Model	Chuck	Maximum	Throttle Ha	ndle Type		
Number	Size	Operating Speed	Standard Lever	Safety Lever		
		5500 RPM	400FD3ML;3/8	400FD3MK;3/8		
		4200 RPM	400FD5ML;3/8	400FD5MK;3/8		
	3/8"	2500 RPM	400FD8ML;3/8	400FD8MK;3/8		
	FD	900 RPM	400FD21ML;3/8	400FD21MK;3/8		
400FD		550 RPM	400FD36ML;3/8	400FD36MK;3/8		
400FD		5500 RPM	400FD3ML;1/2	400FD3MK;1/2		
		4200 RPM	400FD5ML;1/2	400FD5MK;1/2		
	1/2"	2500 RPM	400FD8ML;1/2	400FD8MK;1/2		
		900 RPM	400FD21ML;1/2	400FD21MK;1/2		
		550 RPM	400FD36ML;1/2	400FD36MK;1/2		
The tools housing i	The tools listed in this chart will be provided with an aluminum housing. Steel housing material is available. See information below for the entire spectrum of					

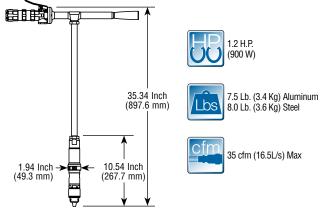
ousing material is available. See information below for the entire spectrui options available.

Air Inlet Size: 1/2" NPT Hose Size Recommendations: 1/2" (13 mm) Standard Equipment

• Tool • Drill Chuck Key • Operating Instructions and Service Manual







* Versions with 2 planetary gear systems (21) & (36) add 0.52 Inch (13.2 mm) to overall length

Example Model Number: <u>400FD3M</u> <u>K</u> ; <u>5500</u> ; <u>1/2</u> ; <u>P15</u>

	\checkmark			
Model Number	The blue highlighted en Lever Style	ntries are shown in the Quick Operating Speed	Reference Box above. Drill Chuck Size	Pipe Extension Length
Ф 400FD3M	Please choose one of the following options:	5500 : 5500 R.P.M.		
Ф 400FD5M	L - Standard Lever K - Safety Lever	4200 : 4200 R.P.M.	Please choose one of	
Ф 400FD8M	B - Thumb Switch LTK - Turned/Knurled Standard Lever KTK - Turned/Knurled Safety Lever	2500 : 2500 R.P.M.	the following options: 3/8 : 3/8 Inch	P15 - 15" Extension Length (15 inch is standard equipment other sizes are available)
Ф 400FD21M	BTK - Turned/Knurled Thumb Switch LTKW - Turned/Knurled/Cushioned Standard Lever	900 : 900 R.P.M.	1/2 : 1/2 Inch	
Ф 400FD36M	KTKW - Turned/Knurled/Cushioned Safety Lever BTKW - Turned/Knurled/Cushioned Thumb Switch	550 : 550 R.P.M.		

Geared Tool

T豫P CAT08

1/2" or 3/4" Drill Chucks 1.5-2.0 H.P. (1130-1500 W)



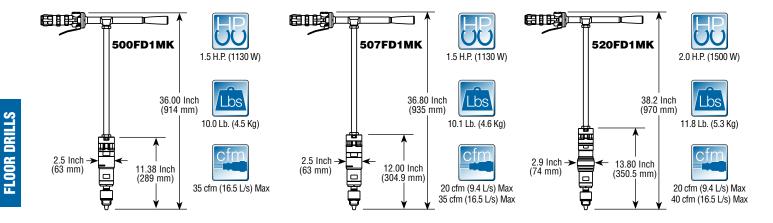
Quick Order Number					
Model	Chuck	Maximum		le Type	
Number	Size	Operating Speed	Standard Lever	Safety Lever	
	1/2"		500FD1M;D1/2	500FD1MK;D1/2	
500FD1M	3/4"	4000 RPM	500FD1M;D3/4	500FD1MK;D3/4	
This chart has been provided as a means to quickly identify a particular tool.					

The ordering numbers listed represent the most common versions of our tools. If more specialized versions are required, please build your model number per the following model number flow chart.

Air Inlet Size: 1/2" NPT Hose Size Recommendations: 1/2" (13mm) Chuck Size: 1/2" (13mm) or 3/4" (19mm) Standard Equipment

• Tool • Drill Chuck Key • Operating Instructions and Service Manual





Example Model Number: <u>500FD1M</u> <u>K</u> ; <u>4000</u> ; <u>1/2</u> ; <u>P15</u>

\downarrow	\downarrow	\mathbf{r}	\checkmark	↓
Model Number	The blue highlighted e Lever Style	ntries are shown in the Quick R Operating Speed	eference Box above. Drill Chuck Size	Pipe Extension Length
• 500FD1M	Please choose one of the following options: L - Standard Lever	4000 : 4000 R.P.M.*		
🔅 507FD1M	K - Safety Lever B - Thumb Switch LTK - Turned/Knurled Standard Lever KTK - Turned/Knurled Safety Lever	₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩	3/4 - 3/4 Inch (15	P15 - 15" Extension Length (15 inch is standard equipment other sizes are available)
🌣 520FD1M	BTK - Turned/Knurled Thumb Switch LTKW - Turned/Knurled/Cushioned Standard Lever KTKW - Turned/Knurled/Cushioned Safety Lever BTKW - Turned/Knurled/Cushioned Thumb Switch	ົ່ງເວັນະໂດດນີ : 1500-3000 R.P.M.*	1/2 - 1/2 Inch	
Ceared Tool		*The range offered reflects the minimum to maximum operating speeds that this tool can be set. One must choose a speed within this range that best fits the apolication. Please examine		

set. One must choose a speed within this range that best fits the application. Please examine the abrasive used with the tool for a maximum operating speed. The tool should be set at or below the maximum operating speed listed on the abrasive.

泠P CATO8

Quick Order Number

Router Bit Shank Size

1/4"

3/8"

Trimmer Guides

For Bits With

Shank Size

1/4"

1/4"

3/8"

3/8"

Model Number

400PCE

Model

Number

4031-50-1368

4031-50-1461

4031-50-1471

4031-50-1472

1/4" or 3/8" Shank Bits 1.2 H.P. (900 W)

Pin Routers



This chart has been provided as a means to quickly identify a particular tool. The ordering number's listed represent the most common versions of our tools. If more specialized versions are required, please build your model number per the following model number flow chart.

The tools listed in this chart will be provided with an aluminum housing. Steel housing material is available. See information below for the entire spectrum of options available.

A

0.75

1.00

1.00

1.00

Maximum

Operating Speed

20000 RPM

Throttle Lever Type

Safety Lever

400PCEK;1/4

400PCEK;3/8

C

0.500

0.125

0.125

0.250

Standard Lever

400PCE;1/4

400PCE;3/8

В

0.375

0.375

0.438

0.438

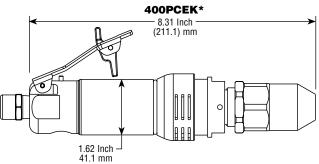
С

Air Inlet Size: 3/8" NPT Hose Size Recommendations: 1/2" (13 mm) **Extra Charge Accessories**

• Router Guides • Safety Lever

Standard Equipment

Tool • Operating Instructions and Service Manual • Wrenches



*Rear exhaust adds 0.82 Inch (20.8mm) to overall length.



1.2 H.P.

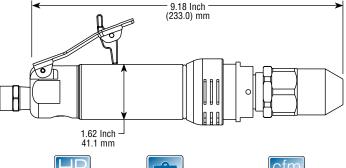
(900 W)





2.5 Lb. (1.1 Kg) Aluminum 3.1 Lb. (1.4 Kg) Steel

407PCEK



bs

2.6 Lb. (1.2 Kg) Aluminum 3.2 Lb. (1.4 Kg) Steel

20 cfm (9.4 L/s) Free Speed 35 cfm (16.5 L/s) Max



\downarrow	\checkmark			•	\downarrow
Model Number	Lever Style	The blue highlighted entries Case Material	are shown in the Quick Re Exhaust Direction	ference Box above. Operating Speed	Shank Size
400PCE	Please choose one of the following options: No Designation - Standard Lever K - Safety Lever	Please choose one of the following options: No Designation - Aluminum Case S - Steel Case	Please choose one of the following options: No Designation - Side Exhaust R - Rear Exhaust F - Front Exhaust	Please choose one of the following options: 20000 - 20000 R.P.M. 18000 - 18000 R.P.M.	Please choose one of the following options: 1/4 - 1/4 Inch 3/8 - 3/8 Inch
🗬 407PCE		S - Sieer Case	No Designation - Side Exhaust	12000-15000 - 12000-15000 R.P.M.*	
Controlled To	ool Safety Lever Regular Lever	Aluminum Steel		*The range offered reflects the minimum to maximum operating speeds that this tool can be set. One must choose a speed within this range that best fits the application. Please examine the abrasive used with the tool for a maximum operating speed. The tool should be set at or below the maximum operating speed listed on the abrasive.	

WARNING: Comply with the speed recommendation of component and bit manufacturers.

цģ

Front Exhaust

P CATO8

4 H.P. (3000 W)

Bench Grinder

66VBG

- Adjustable Spark Arrestor
- Adjustable Work Rest

Quick Order Number							
Model Number	Operating Speed	Guard Size	Ordering Number				
🤻 66VBG	6000 R.P.M.	0 Inch	66VBG;9				
🕈 🌣 662VBG	3300 R.P.M.	9 Inch	662VBG;9				
Oti	Other speeds are available. Please contact us for details.						
This chart has been provided as a means to quickly identify a particular tool. The ordering numbers listed represent the most common versions of our tools.							

🔅 Geared Tool 🛛 🤻 Governor Controlled Tool

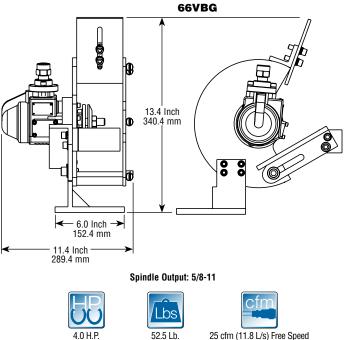
Bench Grinders

Air Inlet Size: 1/2" NPT Hose Size Recommendations: 1/2" (13 mm) **Standard Equipment**

- Tool
- Drive Flange Wrench

• Operating Instructions and Service Manual

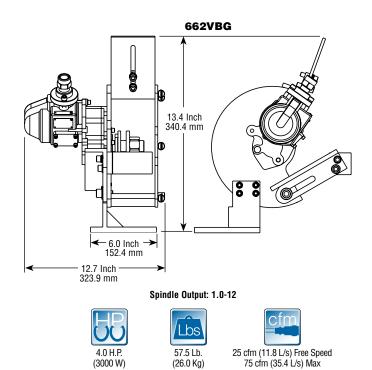
This tool employs the higher speed production abrasive wheels normally used with pneumatic hand tools.





(23.5 Kg)





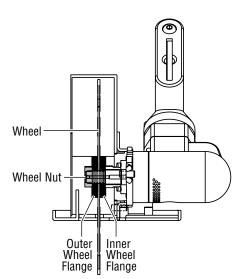
Abrasive Air Saws

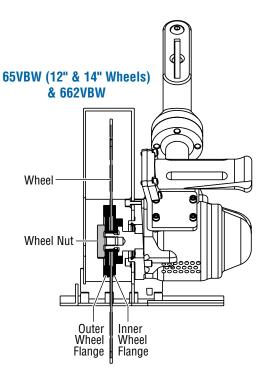
Section Contents

Page Number	Model Number	Power	Wheel Size	Description	
82	510WG	1.5 H.P.	9 Inch	Medium-Saw Sized Tool w/ Planetary Gear Train	COLOR HE
82	65VBW	4.0 H.P.	9, 12 or 14 Inch	Larger Construction Saw	
82	662VBW	4.0 n. <i>r</i> .	12 or 14 Inch	Gear Driven, Large Construction Saw	SZAW SZAW

Proper Mounting of Type 1 Cut-off Wheels

510WG & 65VBW (9" Wheel)





Speed/Guard Size Selection

The operating speed and guard size are closely linked to promote safety and maximize efficiency of the grinding operation. Each model offers various options listed in the Model Number Breakdown and in the chart with each product spread. The choices are based on the characteristics of each model. Please examine the speed/guard size options to select the one that matches the wheel speed/size you are using.

T 豫P CAT 08

9" (230mm) to 14" (360mm) 1.5-4 H.P. (1300-3000 W)

Abrasive Air Saws







Air Inlet Size: 1/2" NPT Hose Size Recommendations: 1/2" (13 mm) Extra Charge Accessories

Wet Cutting Attachment

Standard Equipment

- Tool
- Operating Instructions and Service Manual
- 2 Inch Wrench

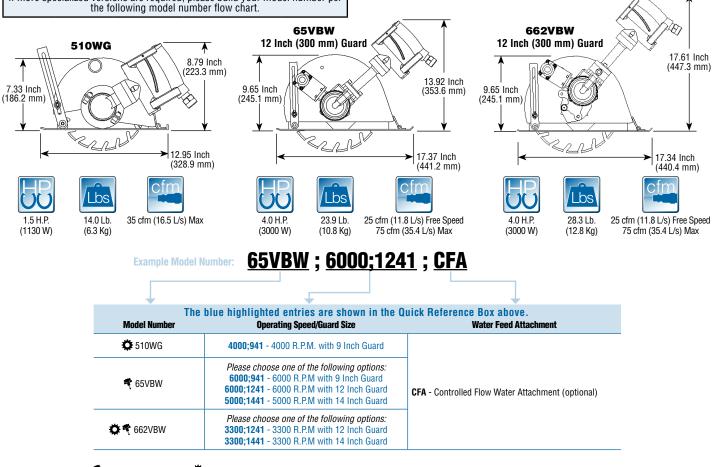


Wet Cutting Attachment

Quick Order Number						
Model Number	Spindle Type	Operating Speed	Guard Size	Ordering Number		
510WG	5/8-11	4000 RPM	9 Inch	510WG		
	J/U-11	C000 DDM	5 11101	65VBW;9		
65VBW		6000 RPM	12 Inch	65VBW;12		
	1" Spline	5000 RPM	14 Inch	65VBW;14		
660VDW	i ohime	2200 DDM	12 Inch	662VBW;12		
662VBW		3300 RPM	14 Inch	662VBW;14		

This chart has been provided as a means to quickly identify a particular tool. The ordering numbers listed represent the most common versions of our tools. If more specialized versions are required, please build your model number per the following model number flow chart.





ኛ Governor Controlled Tool 🛛 🌣 Geared Tool



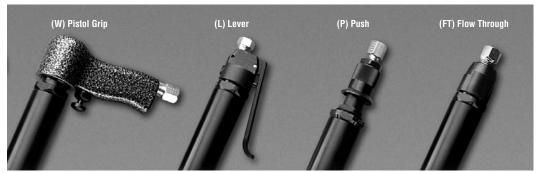


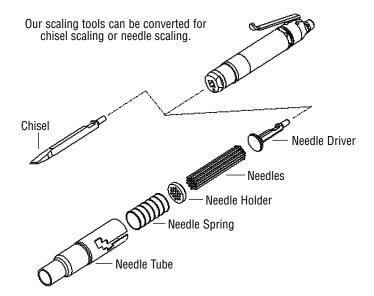
Scalers & Needle Scalers

Section Contents

SCALERS Page Number	Model Number	Bore x Stroke		Chisel Style	Description
85	TC-1	1.0" X 1.1"	1/2 Square		
86	TC-182	0.98" x 1.1"	1/4 Octagon		Scalers
NEEDLE S	CALERS				
NEEDLE S(Page Number	CALERS Model Number	Bore x Stroke		Chisel Style	Description
Page	Model	Bore x Stroke	1/2 Square	Chisel Style	Description

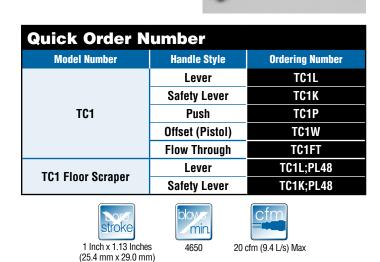
Handles





Scalers/Chisels





Chisels – 1/2 Inc	h Square Shank		
Description	Cutting Edge	Overall Length	Part Number
Narrow Flat Chisel	3/4" (19mm)	7" (178mm)	839051
Narrow Flat Chisel	3/4" (19mm)	12" (305mm)	839341
Narrow Flat Chisel	3/4" (19mm)	18" (457mm)	839335
Wide Angle Chisel	1 3/8" (34.9mm)	7" (178mm)	839050
Wide Angle Chisel	1 3/8" (34.9mm)	12" (305mm)	839299
Wide Angle Chisel	1 3/8" (34.9mm)	18" (457mm)	839334
Blank Chisel		7" (178mm)	839052
Blank Chisel		12" (305mm)	839053
Blank Chisel		18" (457mm)	839054
Wide Chisel	1 3/8" (34.9mm)	7" (178mm)	839467
Wide Chisel	1 3/8" (34.9mm)	12" (305mm)	839469
2 Inch Wide Scraper	2" (50.8mm)	7" (178mm)	839468

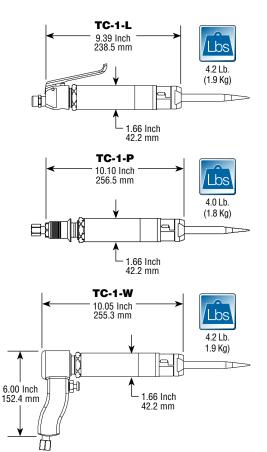
Other Sizes And Styles Available

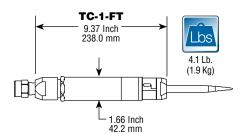
Air Inlet Size: 1/4" NPT Hose Size Recommendations: 3/8" (10 mm) Extra Charge Accessories

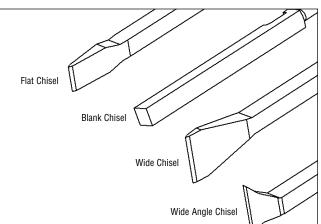
Needle Scaler Attachments • Extended Reach Handle • Safety Lever

Standard Equipment

• Tool • Operating Instructions and Service Manual







T豫P CAT08

Scalers/Chisels



Quick Order Number					
Model Number	Handle Style	Ordering Number			
	Lever	TC-182-L			
TC-182	Safety Lever	TC-182-K			
16-102	Push	TC-182-P			
	Offset (Pistol)	TC-182-W			

0.98 Inch x 1.06 Inches (25.0 mm x 27.0 mm)

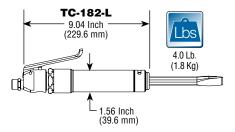


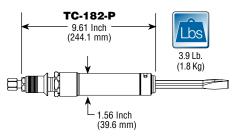
20 cfm (9.4 L/s) Max

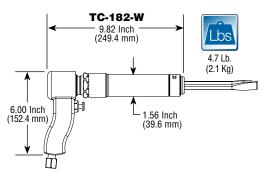
TC-182-FT 9.04 Inch (229.6 mm) 3.9 Lb. (1.8 Kg) 1.56 Inch (39.6 mm) Air Inlet Size: 1/4" NPT Hose Size Recommendations: 3/8" (10 mm) Extra Charge Accessories

Needle Scaler Attachments • Extended Reach Handle • Safety Lever
 Standard Equipment

• Tool • Operating Instructions and Service Manual

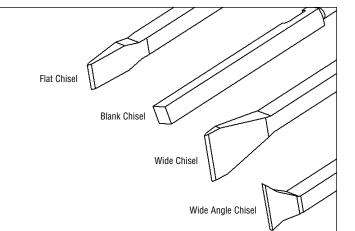






Chisels - 1/4 Inc	ch Octagon		
Description	Cutting Edge	Overall Length	Part Number
Narrow Flat Chisel	3/4" (19mm)	7" (17.8cm)	839601
Narrow Flat Chisel	3/4" (19mm)	12" (30.5cm)	839601-12
Blank Chisel		7" (17.8cm)	839605
Blank Chisel		12" (30.5cm)	839605-12
Wide Chisel	1 3/8" (34.9mm)	7" (17.8cm)	839602
Wide Angle Chisel	1 3/8" (34.9mm)	7" (17.8cm)	839604
Wide Angle Chisel	1 3/8" (34.9mm)	12" (30.5cm)	839604-12

Other Sizes And Styles Available







Needle Scalers



Quick Order Number						
Model Number	Handle Style	Needle Length	Ordering Number			
	Lever	5 Inch	TC-1-NL;5			
	Lever	7 Inch	TC-1-NL;7			
	Cofoty Lover	5 Inch	TC-1-NK;5			
TO 1 N	Safety Lever	7 Inch	TC-1-NK;7			
TC-1-N	Duch	5 Inch	TC-1-NP;5			
	Push	7 Inch	TC-1-NP;7			
	Offect (Distal)	5 Inch	TC-1-NW;5			
	Offset (Pistol)	7 Inch	TC-1-NW;7			

Top Cat[®] needle scalers are used to remove weld flux and pein strengthen welds. They can be easily converted to chisel scaler applications. Hardened alloy steel needles come as original equipment.





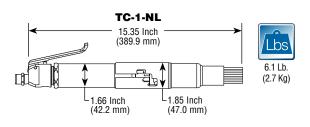
1 Inch x 1.13 Inches (25.4 mm x 29.0 mm)

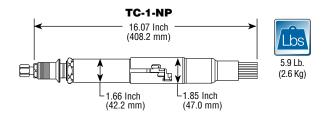


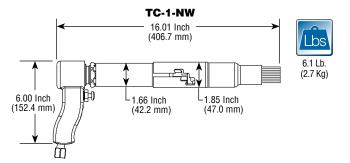
20 cfm (9.4 L/s) Max

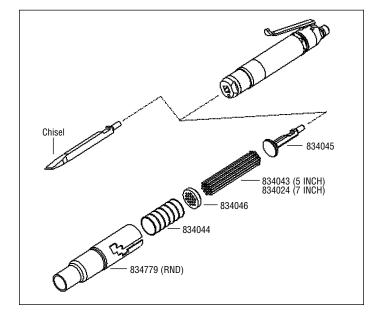
Air Inlet Size: 1/4" NPT Hose Size Recommendations: 3/8" (10 mm) Standard Equipment

• Tool • Operating Instructions and Service Manual









SCALERS

Needle Scalers



Quick Order Number						
Model Number	Handle Style	Needle Length	Ordering Number			
	Lever	5 Inch	TC-182-NL;5			
	Lever	7 Inch	TC-182-NL;7			
	Safety Lever	5 Inch	TC-182-NK;5			
TC-182-N		7 Inch	TC-182-NK;7			
10-102-N	Duch	5 Inch	TC-182-NP;5			
	Push	7 Inch	TC-182-NP;7			
	Offect (Distel)	5 Inch	TC-182-NW;5			
	Offset (Pistol)	7 Inch	TC-182-NW;7			

Top Cat[®] needle scalers are used to remove weld flux and pein strengthen welds. They can be easily converted to chisel scaler applications. Hardened alloy steel needles come as original equipment.





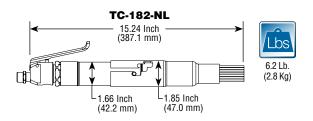
0.98 Inch x 1.06 Inches (25.0 mm x 27.0 mm)

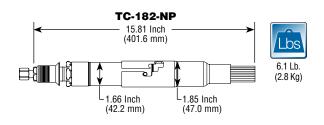


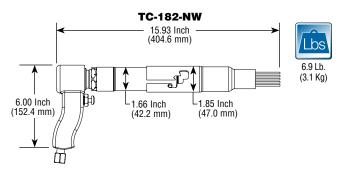
20 cfm (9.4 L/s) Max

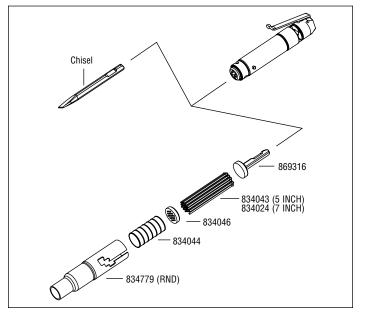
Air Inlet Size: 1/4" NPT Hose Size Recommendations: 3/8" (10 mm) **Standard Equipment**

• Tool • Operating Instructions and Service Manual







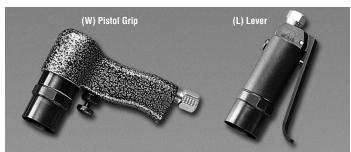


Chipping Hammers

Section Contents

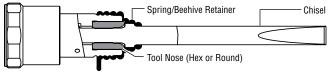
Page Number	Model Number	Bore X Stroke	Chisel Retainer	Chisel Style	Description
90	80-Series	0.6" X 1.4"	Spring/Beehive	0.371 Hex 0.401 Round	Small Chipping Hammers
91	TC-10	1.1" X 1.0"		0.500 Have 0.000 Davied	
91	TC-20	1.1" X 2.0"	Solid with	0.580 Hex 0.680 Round	Large
91	TC-30	1.1" X 3.0"	Lock Spring		- Chipping Hammers
91	TC-40	1.1" X 4.0"			

Handles: 80 Series



Methods of Chisel Retention: 80 Series

Beehive Retainer

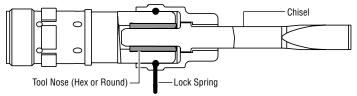


TC-10 through TC-40 Series



TC-10 through TC-40 Series

Chisel Retainer



PCAT08



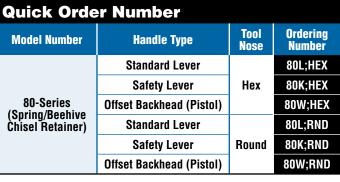
Chipping Hammers

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Air Inlet Size: 1/4" NPT Hose Size Recommendations: 3/8" (10 mm) **Extra Charge Accessories**

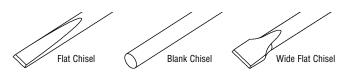
- · Safety Lever
- **Standard Equipment**
- Tool Operating Instructions and Service Manual







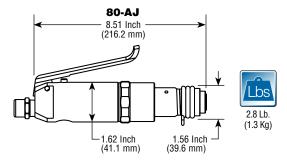


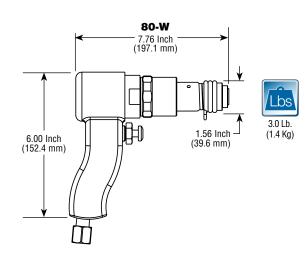


Chisels – 0.401 l	Round				
Description	Cutting Edge	Overall Length	Part Number		
Wide Flat Chisel	3/4" (19mm)	11" (279mm)	595003		
Flat Chisel	1/2" (12.7mm)	7" (178mm)	595002		
Wide Flat Chisel	3/4" (19mm)	7" (178mm)	595001		
Wide Flat Chisel	3/4" (19mm)	18" (457mm)	595004		
Blank Chisel		7" (178mm)	595005		

Other Sizes And Styles Available

Chisels – 0.371	Hexagon		
Description	Cutting Edge	Overall Length	Part Number
Flat Chisel	1/2" (12.7mm)	12" (305mm)	595016





PGAT08

Chipping Hammers



Quick Order Number					
Model Number	odel Number Tool Nose				
TC10	Hex	TC10;HEX			
	Round	TC10;RND			
TC20	Hex	TC20;HEX			
1620	Round	TC20;RND			
TC30	Hex	TC30;HEX			
1630	Round	TC30;RND			
TC40	Hex	TC40;HEX			
1040	Round	TC40;RND			

The standard tools come with an oval collar chisel retainer. Round collar chisel retainers are available upon request.



Flat Chisel

Wide Flat

Chisels – 0.580	Hexagon	-	
Description	Cutting Edge	Overall Length	Part Number
Flat Chisel	1" (25.4mm)	9" (229mm)	839008
Flat Chisel	1" (25.4mm)	12" (305mm)	839009
Flat Chisel	1" (25.4mm)	18" (457mm)	839010
Moil Point		9" (229mm)	839018
Wide Flat	2" (50.8mm)	12" (305mm)	839016

Other Sizes And Styles Available

Chisels – 0.680	Round			
Description	Cutting Edge	Overall Length	Part Number	
Flat Chisel	1" (25.4mm)	9" (229mm)	839014	
Flat Chisel	1" (25.4mm)	12" (305mm)	839083	
Flat Chisel	1" (25.4mm)	18" (457mm)	839045	
Moil Point		9" (229mm)	839023	
Wide Flat	1.5" (38.1mm)	9" (229mm)	839019	
Wide Flat	2" (50.8mm)	9" (229mm)	839017	

	 	7—	`		-
Hex Shank			- Round Shank		
nex Shallk -		(

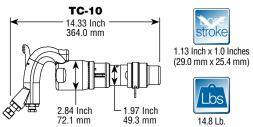
Air Inlet Size: 3/8" NPT Hose Size Recommendations: 1/2" (13 mm) **Extra Charge Accessories**

• Round Collar Retainer • Quick Change Retainer

• Forged Inlet Swivel • Hose Whip **Standard Equipment**

• Tool • Operating Instructions and Service Manual

The tool for tough working conditions, Top Cat's® chipping hammers are heavy hitters for cleaning castings and light concrete demolition work. (Always use chisel retainer.)

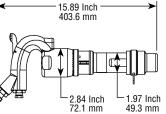








CHIPPING HAMMERS



TC-20





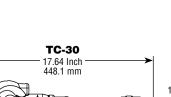
1.13 Inch x 3.0 Inches (29.0 mm x 76.0 mm)

Lbs

16.7 Lb.

(7.0 Kg)





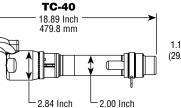
2.84 Inch 72.1 mm

2.00 Inch 50.8 mm









50.8 mm

72.1 mm







bs 17.2 Lb.

(7.8 Kg)

Other Sizes And Styles Available

cfm

25 cfm (11.8 L/s) Max

Rammers



Extra Charge Accessories

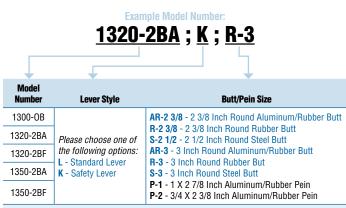
Safety Lever • Extended Reach / Floor Rammers

Standard Equipment

• Tool • Operating Instructions and Service Manual • 1 Butt or Pein of Choice

Quick Order Number							
Model	Butt Size	Handle Type					
Number	Bull Size	Regular Lever	Safety Lever				
	2 3/8" RND Alum/Rubber	1300-0BL;AR 2 3/8	1300-0BK;AR 2 3/8				
1300-0B	2 3/8" RND Rubber	1300-0BL;R 2 3/8	1300-0BK;R 2 3/8				
	2 3/8" RND Steel	1300-0BL;S 2 3/8	1300-0BK;S 2 3/8				
	3" RND Alum/Rubber	1320-2BAL;AR 3	1320-2BAK;AR 3				
1320-2BA	3" RND Rubber	1320-2BAL;R 3	1320-2BAK;R 3				
	3" RND Steel	1320-2BAL;S 3	1320-2BAK;S 3				
	3" RND Alum/Rubber	1320-2BFL;AR 3	1320-2BFK;AR 3				
1320-2BF	3" RND Rubber	1320-2BFL;R 3	1320-2BFK;R 3				
	3" RND Steel	1320-2BFL;S 3	1320-2BFK;S 3				
	3" RND Alum/Rubber	1350-2BAL;AR 3	1350-2BAK;AR 3				
1350-2BA	3" RND Rubber	1350-2BAL;R 3	1350-2BAK;R 3				
	3" RND Steel	1350-2BAL;S 3	1350-2BAK;S 3				
	3" RND Alum/Rubber	1350-2BFL;AR 3	1350-2BFK;AR 3				
1350-2BF	3" RND Rubber	1350-2BFL;R 3	1350-2BFK;R 3				
	3" RND Steel	1350-2BFL;S 3	1350-2BFK;S 3				
This obart has been provided as a means to quickly identify a particular tool							

This chart has been provided as a means to quickly identify a particular tool. The ordering numbers listed represent the most common versions of our tools. If more specialized versions are required, please build your model number per the following model number flow chart.



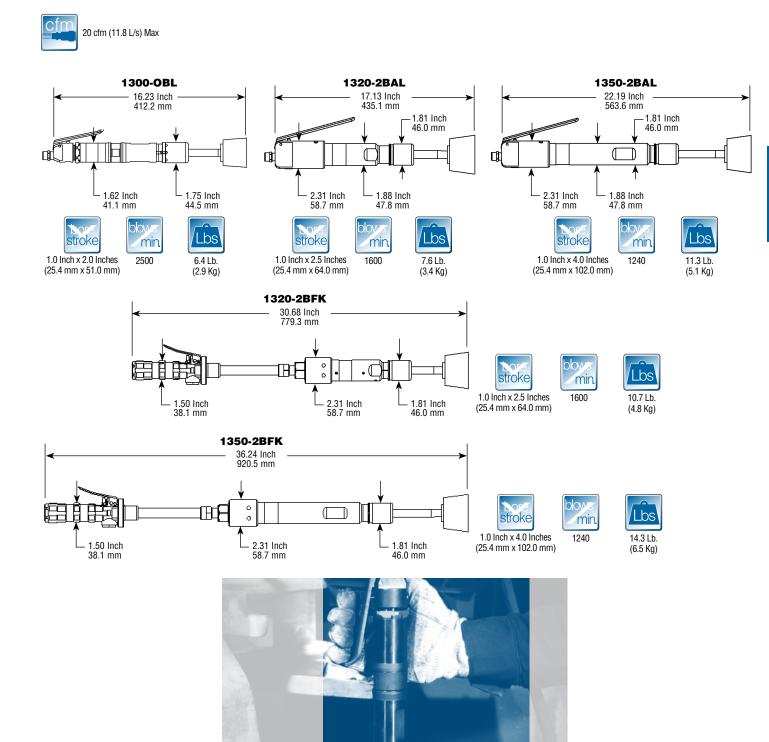
The blue highlighted entries are shown in the Quick Reference Box above.

Top Cat[®] rammers, made of heat treated steel, are ideal for compressing molds, peining operations and even light construction compaction. A built-in piston wiper protects against dirt and scale.



Butts & Peins

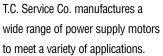
Part Number	Size	Туре
829558-AR	2 3/8" (60 mm) Diameter	Aluminum/Rubber Butt
829559-AR	3" (75 mm) Diameter	Aluminum/Rubber Butt
829558	2 3/8" (60 mm) Diameter	Rubber Butt
829559	3" (75 mm) Diameter	Rubber Butt
832925	2 1/2" (64 mm) Diameter	Steel Butt
832924	3" (75 mm) Diameter	Steel Butt
829556-AR	1" X 2 7/8" (25 mm x 73 mm)	Aluminum/Rubber Pein
829557-AR	3/4" X 2 3/8" (19 mm x 60 mm)	Aluminum/Rubber Pein



1 P CAT08

Power Supply Motors

1.2-4 H.P. (900-3000 W)





Contact us if you have a special need or application.

Model Number	Throttle Type	Power Output	Operating Speed	Maximum Body Diameter	Working Air Consumption	Clamp Diameter for Mounting
🌣 400H3M*			5500 R.P.M.			
Ö 400H5M*			4200 R.P.M.] [
Ф 400H8M*			2500 R.P.M.			
Ö 400H16M*	(L) Lever,		1200 R.P.M.] [35 cfm (16.6 l/s)	1.61 Inch (41 mm)
Ö 400H21M*	(K) Safety Lever or	1.2 H.P. (900 W)	900 R.P.M.	1.94 Inch (50 mm)		
Ö 400H36M*	(FT) Flow Through Inlet		550 R.P.M.	-		
Ö 400H74M*			260 R.P.M.			
Ö 400H98M*			200 R.P.M.] [
Ö 400H164M*			120 R.P.M.	1		
Ö 500H1M*			4000 R.P.M.			
Ö 500H2M*		1.5 H.P. (1125 W)	1000 R.P.M.	2.5 Inch (42 mm)		
Ö 500H3M*	(L) Lever,		250 R.P.M.] [0.05 kask (50 mm)
🗘 🐔 520H1M	(K) Safety Lever,		3000 R.P.M.			2.25 Inch (58 mm)
🌣 🐔 520H2M	(B) Thumb Switch, (G) Spade Handle or (FT) Flow Through Inlet	2.0 H.P. (1500 W)	750 R.P.M.	3.0 Inch (64 mm)	45 cfm (21.3 l/s)	
🔅 🐔 520НЗМ			190 R.P.M.			
🌣 🐔 664H1M		4.0 11 D (2000 140	1200 R.P.M.		00 afm (07.0 1/c)	4 Dalt Frank Maurit Only
🔅 🕈 664H2M		4.0 H.P. (3000 W)	180 R.P.M.	- 4.63 Inch (77 mm)	80 cfm (37.8 l/s)	4 Bolt Front Mount Only

*Governed versions are available. Contact us for details.



T.C. Service Co. has a variety of standard threaded outputs in stock. We can manufacture custom threaded outputs to meet your requirements.

> A selection of drill chucks and keyed shafts are shown. Custom designs can be fabricated to adapt to your needs.



Other Motor Options Available

Accessories – Guards



Type 1 Cut-off Wheels

Тур	Type I Gut-on wheels			Reinforced Type 1 Cut-Off Wheel (Type 41) Diamond Wheel						
Model Number	Description	3 Inch (75mm)	4 Inch (100mm)	5 Inch (125mm)	6 Inch (150mm)	8 Inch (200mm)	9 Inch (230mm)	10 Inch (250mm)	12 Inch (300mm)	14 Inch (350mm)
40GH	0.9 H.P. Horizontal Grinder	501-3A-41	501-4A-41							
41G	0.9 H.P. Die Grinder	4503-01	4504-01							
44BW	0.9 H.P. Saw		404-SV-4							
44BWE	0.9 H.P. Saw		404-SV-4		404-SV-6					
44RA	0.9 H.P. Right Angle Grinder	4503-41	4504-41	4505-41						
44RAE	0.9 H.P. Right Angle Grinder	4503-41	4504-41	4505-41	4506-41					
45RA	0.9 H.P. Right Angle Grinder	4503-41	4504-41							
45RAE	0.9 H.P. Right Angle Grinder	4503-41	4504-41							
46RA	0.9 H.P. Right Angle Grinder	4603A-41	4604A-41							
47G	0.9 H.P. Die Grinder	4503-01	4504-01							
47GH	0.9 H.P. Horizontal Grinder	501-3A-41	501-4A-41							
48RA	0.9 H.P. Right Angle Grinder	4503-41	4504-41	4505-41	4506-41					
51H	1.5 H.P. Horizontal Grinder	501-3A-41	501-4A-41							
56H	3 H.P. Horizontal Grinder				650-HS-56A	650-HS-58A				
56PC	3 H.P. Pile Cutter					650-155				
57H	1.5 H.P. Horizontal Grinder	501-3A-41	501-4A-41							
65H	4 H.P. Horizontal Grinder				650-HS-56A	650-HS-58A				
65VBW	4.0 H.P. Saw						650-SV-9		650-SV-12	650-SV-14
66PC	4 H.P. Pile Cutter							650-165	650-175	650-185
66VBG	4 H.P. Bench Grinder						650-FG-9			
300RA/ 300RAE	0.7 H.P. Right Angle Grinder	HRGD-341	HRGD-441							
320RA	0.7 H.P. Right Angle Grinder		ERGD-441							
400GEH	1.2 H.P. Extended Grinder	HG-341								
400GH	1.2 H.P. Horizontal Grinder	HG-341								
400GT	1.2 H.P. Die Grinder	H341								
400RA	1.2 H.P. Right Angle Grinder	HRGD-341	HRGD-441	HRGD-541						
400RAE	1.2 H.P. Right Angle Grinder	HRGD-341	HRGD-441	HRGD-541	HRGD-641					
407GEH	1.2 H.P. Extended Grinder	HG-341	HG-441							
407GH	1.2 H.P. Horizontal Grinder	HG-341	HG-441							
407GT	1.2 H.P. Die Grinder	H301	H401							
410RA/ 410RAE	1.2 H.P. Right Angle Grinder	HRGD-341	HRGD-441							
420RA	1.2 H.P. Right Angle Grinder		ERGD-441							
510WG	1.5 H.P. Saw						540792			
520GEH	2.0 H.P. Extended Grinder	HG-341	HG-441							
520HGEH	2.0 H.P. Extended Grinder		5204		5206					
520RA	2.0 H.P. Right Angle Grinder							NRA-1041		
662VBW	4 H.P. Saw						650-SV-9		650-SV-12	650-SV-14
4111G	0.9 H.P. Die Grinder	4503-01	4504-01							
4117G	0.9 H.P. Die Grinder	4503-01	4504-01							
5201H	2 H.P. Horizontal Grinder		5204		5206					

Tools in bold print have been discontinued from our product line. They are represented here for the convienence of those customers still using them.

Accessories – Guards

Type 1	Grinding Whe	els	Circular W	ire Wheels Circular Flap V	Vheels Surface Finishing	Wheel Type 1 Wheel
Model Number	Description	3 Inch (75mm)	4 Inch (100mm)	6 Inch (150mm)	8 Inch (200mm)	9 Inch (230mm)
40GH	0.9 H.P. Horizontal Grinder	501-3A-01	501-4A-01			
41G	0.9 H.P. Die Grinder	4503-01	4504-01			
47G	0.9 H.P. Die Grinder	4503-01	4504-01			
47GH	0.9 H.P. Horizontal Grinder	501-3A-01	501-4A-01			
51H	1.5 H.P. Horizontal Grinder	501-3A-01	501-4A-01			
56H	3.0 H.P. Horizontal Grinder			650-HS-56A	650-HS-58A	
57H	1.5 H.P. Horizontal Grinder	501-3A-01	501-4A-01			
65H	4.0 H.P. Horizontal Grinder			650-HS-56A	650-HS-58A	
66VBG	4.0 H.P. Bench Grinder					650-FG-9
5201H	2.0 H.P. Horizontal Grinder		5204	5206		
400GEH	1.2 H.P. Extended Grinder	HG-301				
400GH	1.2 H.P. Horizontal Grinder	HG-301				
400GT	1.2 H.P. Die Grinder	H301				
407GEH	1.2 H.P. Extended Grinder	HG-301	HG-401			
407GH	1.2 H.P. Horizontal Grinder	HG-301	HG-401			
407GT	1.2 H.P. Die Grinder	H301	H401			
520GEH	2.0 H.P. Extended Grinder	HG-301	HG-401			
520HGEH	2.0 H.P. Extended Grinder		5204	5206		
4111G	0.9 H.P. Die Grinder	4503-01	4504-01			
4117G	0.9 H.P. Die Grinder	4503-01	4504-01			

Tools in bold print have been discontinued from our product line. They are represented here for the convienence of those customers still using them.

Model Number	Description	4 Inch (100mm)	5 Inch (125mm)	6 Inch (150mm)		
520V	2 H.P. Vertical Grinder	NVG-411				
58C	3 H.P. Vertical Grinder	560-46	560-45	412988		
68C	4 H.P. Vertical Grinder		560-45	412988		

	e 27/28 pressed Center	Wheel	S	Type 27 W	Line line line line line line line line l	Type 27 Wheel with Built-In Hu		rpe 28 Wheel	Type 28 Wheel with Built-In Hub
Model Number	Description	3 Inch (75mm)	4 Inch (100mm)	4 ½ Inch (115mm)	5 Inch (125mm)	6 Inch (150mm)	7 Inch (180mm)	9 Inch (230mm)	
41GP	0.9 H.P. Pistol Grip Vertical Grinder		4504-27						
44RA	0.9 H.P. Right Angle Grinder	4503-27	4504-27	45045-27	4505-27				
44RAE	0.9 H.P. Right Angle Grinder	4503-27	4504-27	45045-27	4505-27	4506-27			
45RA/ 45RAE	0.9 H.P. Right Angle Grinder	4503-27	4504-27						
46RA	0.9 H.P. Right Angle Grinder	4603A-27	4604A-27						
48RA	0.9 H.P. Right Angle Grinder	4503-27	4504-27	45045-27	4505-27	4506-27			
54V	3 H.P. Vertical Grinder						700-200	700-201	
64V	4 H.P. Vertical Grinder						700-200	700-201	
300RA	0.7 H.P. Right Angle Grinder	HRGD-327	HRGD-427						
400RA	1.2 H.P. Right Angle Grinder	HRGD-327	HRGD-427	HRGD-4527	HRGD-527				
400RAE	1.2 H.P. Right Angle Grinder	HRGD-327	HRGD-427	HRGD-4527	HRGD-527	HRGD-627			
410RA/ 410RAE	1.2 H.P. Right Angle Grinder	HRGD-327	HRGD-427	HRGD-4527					
420RA	1.2 H.P. Right Angle Grinder		ERGD-427						
520RA	2.0 H.P. Right Angle Grinder						NRA-727	NRA-927	
520V	2 H.P. Vertical Grinder						NV-727	NV-927	

Accessories

Tools in bold print have been discontinued from our product line. They are represented here for the convienence of those customers still using them.

Accessories - Collets, Spiralcool® Pads, Bearing Drivers, Spindle Holders

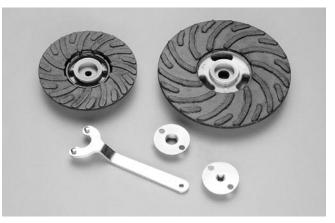
Collets					
Part Number	Internal Threads	Capacity	Description		
TC-1010	3/8 - 24	1/4"	2-Piece Split Collet		
TC-1010-3/8	3/8 - 24	3/8"	2-Piece Split Collet		
TC-1024	1/2 - 13	1/4"	2-Piece Split Collet		
TC-1104	5/8 - 11	1/4"	2-Piece Split Collet		
AA-209-XX*	3/8 - 24	1/8", 1/4", 3/8", 3mm, 6mm or 8mm	3-Piece Dual Angle Collet Assembly		
AA-310-XX*	5/16 - 24	1/8", 1/4", 3mm, or 6mm	4-Piece Dual Angle Collet Assembly		
AA-310-12*	5/16 - 24	1/4"	3-Piece Split Collet Assembly		
AA-H209-XX*	3/8 - 24	1/8", 1/4", 3/8", 3mm, 6mm or 8mm	3-Piece Single Angle Collet Assembly		



Other Sizes Available

*Please specify the size of the collet insert to be supplied with the assembly.

Spiralcool® Pads					
Part Number	Threads	Size	Description	Maximum Speed	
889271-A	3/8 - 24	4 Inch (100mm)	Sanding Pad	12000 R.P.M.	
849848-A	3/8 - 24	5 Inch (125mm)	Sanding Pad	10000 R.P.M.	
889271	5/8 - 11	4 Inch (100mm)	Sanding Pad	12000 R.P.M.	
849848	5/8 - 11	5 Inch (125mm)	Sanding Pad	10000 R.P.M.	
849913	5/8 - 11	7 Inch (180mm)	Sanding Pad	8500 R.P.M.	
849914	5/8 - 11	9 Inch (230mm)	Sanding Pad	6500 R.P.M.	
849259-A	3/8 - 24		Sanding Pad Nut		
849259	5/8 - 11		Sanding Pad Nut		
102-SPWR			Pad Nut Wrench		



Bearing Drivers

	~	
Part Number	Description	For Tool Model/Series
1100-800	200-8 Bearing Driver	20G
1100-802	400-9 Bearing Driver	40-Series
1100-802	404-9 & H9 Bearing Driver	40 Series, 400 Series & Small Right Angle Grinders
1100-808	700-9 Bearing Driver	Vertical & Horizontal Grinders
1100-814	400-G-11 & H11 Bearing Driver	40GH, 40EH, 41EH, 47GH, 51H, 57H, 400GH, 400GEH, 511H or 517H
1100-816	300-G-29 Bearing Driver	51H, 510V, 57H, 511H or 517H; 500H and 507H
1100-822	550-10H Bearing Driver	56H or 65H

Spindle Holders

Part Numbe	er Description	For Tool Model/Series
1100-638	40 Series Spindle Holder	40-Series & Right Angle Grinders
1100-650	Vertical and Horizontal Spindle Holder	Vertical & Horizontal Grinders
1100-810	5201 Motor Holder	5201H
1100-818	46RA Head Holder	46RA
1100-820	500 Series Spindle Holder	51H, 57H, 500D, 500H, 511H or 517H



Accessories - Butts/Peins, Bushings, Threaded/Cone Wheel Adapters, Chisels

Butts & Peins					
Part Number	Size	Туре			
829558-AR	2 3/8" (60 mm) Diameter	Aluminum/Rubber Butt			
829559-AR	3" (75 mm) Diameter	Aluminum/Rubber Butt			
829558	2 3/8" (60 mm) Diameter	Rubber Butt			
829559	3" (75 mm) Diameter	Rubber Butt			
832925	2 1/2" (64 mm) Diameter	Steel Butt			
832924	3" (75 mm) Diameter	Steel Butt			
829556-AR	1" X 2 7/8" (25 mm x 73 mm)	Aluminum/Rubber Butt			
829557-AR	3/4" X 2 3/8" (19 mm x 60 mm)	Aluminum/Rubber Butt			

For Tool Model 41G, 40GH, 47G, 47GH, 51H, 57H, 400GH, 400GT OR 4111G

41G, 40GH, 47G, 47GH, 51H, 57H OR 4111G



Other Sizes Available

TC-100 Chisels - 1/4 Inch Octagon				
Description	Cutting Edge	Overall Length	Part Number	
Narrow Flat Chisel	3/4" (19mm)	7" (17.8cm)	829150	
Narrow Flat Chisel	3/4" (19mm)	12" (30.5cm)	829150-12	
Blank Chisel		7" (17.8cm)	829172	
Blank Chisel		12" (30.5cm)	829172-12	
Wide Chisel	1 3/8" (34.9mm)	7" (17.8cm)	829165	
Wide Angle Chisel	1 3/8" (34.9mm)	7" (17.8cm)	829310	
Wide Angle Chisel	1 3/8" (34.9mm)	12" (30.5cm)	829310-12	

TC-182 Chisels - 1/4 Inch Octagon

Description	Cutting Edge	Overall Length	Part Number	
Narrow Flat Chisel	3/4" (19mm)	7" (17.8cm)	839601	
Narrow Flat Chisel 3/4" (19mm)		12" (30.5cm)	839601-12	
Blank Chisel		7" (17.8cm)	839605	
Blank Chisel		12" (30.5cm)	839605-12	
Wide Chisel 1 3/8" (34.9mm)		7" (17.8cm)	839602	
Wide Angle Chisel 1 3/8" (34.9mm)		7" (17.8cm)	839604	
Wide Angle Chisel 1 3/8" (34.9mm)		12" (30.5cm)	839604-12	

Chisels - 1/2 Inch Square Shank							
Description Cutting Edge Overall Length Part Number							
Narrow Flat Chisel	3/4" (19mm)	7" (178mm)	839051				
Narrow Flat Chisel	3/4" (19mm)	12" (305mm)	839341				
Narrow Flat Chisel	3/4" (19mm)	18" (457mm)	839335				
Wide Angle Chisel	1 3/8" (34.9mm)	7" (178mm)	839050				
Wide Angle Chisel	1 3/8" (34.9mm)	12" (305mm)	839299				
Wide Angle Chisel	1 3/8" (34.9mm)	18" (457mm)	839334				
Blank Chisel		7" (178mm)	839052				
Blank Chisel		12" (305mm)	839053				
Blank Chisel		18" (457mm)	839054				
Wide Chisel	1 3/8" (34.9mm)	7" (178mm)	839467				
Wide Chisel	1 3/8" (34.9mm)	12" (305mm)	839469				
2 Inch Wide Scraper	2" (50.8mm)	7" (178mm)	839468				



Threaded Adaptors

Description

3/8 - 24 TO 5/8 - 11 Adapter

3/8 - 24 TO 1/2 - 13 Adapter

Part Number

400-78

400-79

Cone Wheel Adaptors

Part Number	Description	Tool Type
400-77	3/8-24 Cone Wheel Adapter	All Horizontal Tools with 3/8-24 Spindle
500-56A	1/2-13 Cone Wheel Adapter	All Horizontal Tools with 1/2-13 Spindle
700-4-CWC	5/8 - 11 Cone Wheel Adapter	Model 56H & 65H Horizontal Tools
700-4-CWB	5/8 - 11 Cone Wheel Adapter	Model 5201H Horizontal Tools

Screen Handle Bushings

Part Number	Size
650-33	1/2" NPT Male X 3/8" NPT Female
841552	3/8" NPT Male X 3/8" NPT Female
841553	3/8" NPT Male X 1/4" NPT Female
400-27	1/4" NPT Male X 1/4" NPT Female
841555	1/2" NPT Male X 1/2" NPT Female
400-27M	1/4"H NPT Male X 1/4" BSP Female
841553M	3/8" NPT Male X 3/8" BSP Female
841555M	1/2" NPT Male X 1/2" BSP Female

Accessories

Accessories - Type 27 Adapters, Polishing Wheel Adapters

Type 27 Adapters				
Part Number	Description	Tool Type/Wheel Type		
490-K	3/8 - 24 Type 27 Adapter	Right Angle w/ 3/8-24 Long (4) Spindle Running up to 4" T27 Wheel		
490-KR	3/8 - 24 Type 27 Adapter	Right Angle w/ 3/8-24 Short (1) Spindle Running up to 4" T27 Wheel		
1100-660	3/8 - 24 TO 5/8 I.D. Type 27 Adapter	Right Angle w/ 3/8-24 Long (4) Spindle Running T27 Wheels w/ 5/8" Mounting Hole		
1100-668	3/8 - 24 TO 7/8 I.D. Type 27 Adapter	Right Angle w/ 3/8-24 Long (4) Spindle Running T27 Wheels w/ 7/8" Mounting Hole		
1100-692	5/8 - 11 TO 7/8 I.D. Type 27 Adapter	Right Angle w/ 5/8-11 (2) Spindle Running T27 Wheels w/ 7/8" Mounting Hole		
849269	5/8 - 11 TO 7/8 I.D. Type 27 Adapter	Vertical Grinders Running T27 Wheels w/ 7/8" Mounting Hole		
ADT27-354	3/8 - 24 TO 5/8 I.D. Adapter (4" and smaller wheels)	Right Angle w/ 3/8-24 Long (4) Spindle Running T27 Wheels w/ 5/8" Mounting Hole		
ADT27-375	3/8 - 24 TO 7/8 I.D. Adapter (4-1/2" and larger wheels)	Right Angle w/ 3/8-24 Long (4) Spindle Running T27 Wheels w/ 7/8" Mounting Hole		
ADT27-575	5/8 - 11 TO 7/8 I.D. Adapter	Right Angle w/ 3/8-24 Long (4) Spindle Running T27 Wheels w/ 7/8" Mounting Hole		



Polishing Wheel Adapters

Part Number	Description	Tool Type	Type Of Wheel	
1100-345	1 Inch Wide Wheel Adapter (5/8-11 Thread)		1 Inch Thick Surface Conditioning Wheel with 1" Mounting Hole	
1100-348	2 Inch Wide Wheel Adapter (5/8-11 Thread)	All Harizantal Table with 5/0 11 Chindle	2 Inch Thick Surface Conditioning Wheel with 1" Mounting Hole	
1100-349	3 Inch Wide Wheel Adapter (5/8-11 Thread)	All Horizontal Tools with 5/8-11 Spindle	3 Inch Thick Surface Conditioning Wheel with 1" Mounting Hole	
1100-347	4 Inch Wide Wheel Adapter (5/8-11 Thread)		4 Inch Thick Surface Conditioning Wheel with 1" Mounting Hole	
1100-346	1 Inch Wide Wheel Adapter (3/8-24 Thread)	All Horizontal Tools with 3/8-24 Spindle	1 Inch Thick Surface Conditioning Wheel with 5/8" Mounting Hole	
ADTS-17MM	Adaptor Accombly	400GH(X)M Tools	1-3 Inch Thick Surface Conditioning Wheel with 1" or 5/8" Mounting Hole	
ADTS-520	Adapter Assembly	400GT(X)M Tools	1-5 finch thick Surface conditioning wheel with 1 of 5/8 Mounting Hole	



Warranty

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Our joint goal is to provide you with the best American-made pneumatic tools for your application. TOP CAT[®] is proud to deliver quality tools at a competitive price. Our knowledgeable Authorized Agents can offer the kind of customer service you deserve.

We strive to keep our Authorized Agents aware of our continued "Low Vibration" advancements, so they can offer tool selection recommendations. Technical assistance is always available. Our Authorized Agents work with us to address any "custom" tool needs you may encounter.

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Index

Index

1300-0B Series Rammers.921320-2B Series Rammers921350-2B Series Rammers9220-G/20-GM Series Die Grinders66250EH Series Die Grinders70250GE Series Die Grinders70250HGE Series Die Grinders70250RA Series Right Angle Grinders23, 31260TRA Series Right Angle Grinders24, 32270RA Series Right Angle Grinders24, 32290RA Series Right Angle Grinders24, 32290RA Series Right Angle Grinders70300EH Series Die Grinders70300EH Series Die Grinders70300GHD Series Die Grinders70300GR Series Right Angle Grinders70300GR Series Right Angle Grinders70300RA Series Right Angle Grinders70300RA Series Right Angle Grinders70300RA Series Right Angle Grinders13, 313101RA Series Right Angle Grinders14, 25, 33330RA Series Right Angle Grinders24, 32340RA Series Right Angle Grinders76400DRA(X)M Series Air Drills76400DRA(X)M Series Air Drills76400DRA(X)M Series Right Angle Grinders70400GE Series Die Grinders70400GE Series Die Grinders70400GH Series Die Grinders70400GH (X)M Series Right Angle Grinders76400DRA(X)M Series Right Angle Grinders76400GH (X)M Series Right Angle Grinders70400GE Series Die Grinders70400GH (X)M Series Right Angle Grinders71 <th>Model</th> <th>Page</th>	Model	Page
1350-2B Series Rammers9220-G/20-GM Series Die Grinders66250EH Series Horizontal Grinders70250HGE Series Die Grinders70250HAS Series Right Angle Grinders22, 30250RAE Series Right Angle Grinders23, 312601RA Series Right Angle Grinders24, 32290RA Series Right Angle Grinders70300EH Series Die Grinders70300GH Series Die Grinders70300GHD Series Die Grinders70300RA Series Right Angle Grinders24, 32300RA Series Right Angle Grinders71300RA Series Right Angle Grinders72300RA Series Right Angle Grinders76400DRA(X)M Series Air Drills76400DRA(X)M Series Right Angle Grinders70400EH+XX Series Extended Horizontal Grinders70400GE Series Die Grinders70 </td <td>1300-OB Series Rammers</td> <td>92</td>	1300-OB Series Rammers	92
20-G/20-GM Series Die Grinders 66 250EH Series Horizontal Grinders 70 250HGE Series Die Grinders 70 250RA Series Right Angle Grinders 22, 30 250RAE Series Right Angle Grinders 23, 31 2601RA Series Right Angle Grinders 23, 31 2601RA Series Right Angle Grinders 24, 32 290RA Series Right Angle Grinders 24, 32 290RA Series Right Angle Grinders 24, 32 300EH Series Horizontal Grinders 70 300GHD Series Die Grinders 70 300RA Series Right Angle Grinders 70 300GHD Series Die Grinders 70 300RA Series Right Angle Grinders 12, 22, 30 3000RA Series Right Angle Grinders 13, 31 3101RA Series Right Angle Grinders 24, 32 300RA Series Right Angle Grinders 24, 32 300RA Series Right Angle Grinders 24, 32 300RA Series Right Angle Grinders 70 300RA Series Right Angle Grinders 24, 32 300RA Series Right Angle Grinders 76 400DRA(X)M Series Air Drills 76 400DRA(X)M Series Right Angle Grinders 76 400DFD	1320-2B Series Rammers	92
250EH Series Horizontal Grinders	1350-2B Series Rammers	92
250GE Series Die Grinders70250HGE Series Die Grinders70250RA Series Right Angle Grinders23, 312601RA Series Right Angle Grinders23, 312601RA Series Right Angle Grinders24, 32270RA Series Right Angle Grinders24, 32290RA Series Right Angle Grinders24, 32290RA Series Right Angle Grinders70300EH Series Die Grinders70300GHD Series Die Grinders70300RA Series Right Angle Grinders70300GHD Series Die Grinders70300RA Series Right Angle Grinders70300RA Series Right Angle Grinders12, 22, 30300RA Series Right Angle Grinders13, 313101RA Series Right Angle Grinders24, 32340RA Series Right Angle Grinders24, 32340RA Series Right Angle Grinders76400DRA(X)M Series Right Angle Grinders76400DRA(X)M Series Air Drills74400EH+XX Series Extended Horizontal Grinders70400GE Series Die Grinders48, 52, 54400GTCW Series Horizontal Grinders68400GTCW Series Die Grinders67400GT(X)M Series Horizontal Sanders & Polishers44400HGE Series Die Grinders70400GE(X)M Series Horizontal Sanders & Polishers44400HGE Series Die Grinders70 <t< td=""><td>20-G/20-GM Series Die Grinders</td><td>66</td></t<>	20-G/20-GM Series Die Grinders	66
250HGE Series Die Grinders70250RA Series Right Angle Grinders22, 30250RAE Series Right Angle Grinders23, 312601RA Series Right Angle Grinders34270RA Series Right Angle Grinders24, 32290RA Series Right Angle Grinders24, 32290RA Series Right Angle Grinders24, 32300EH Series Horizontal Grinders70300GHD Series Die Grinders70300GHD Series Die Grinders70300RAE Series Right Angle Grinders70300RAE Series Right Angle Grinders70300RAE Series Right Angle Grinders12, 22, 30300RAE Series Right Angle Grinders14, 25, 33330RA Series Right Angle Grinders24, 32340RA Series Right Angle Grinders74300RAE Series Right Angle Grinders76400DRA(X)M Series Right Angle Grinders76400DRA(X)M Series Air Drills74400EH+XX Series Extended Horizontal Grinders70400GE Series Die Grinders68400GTCW Series Horizontal Grinders48, 52, 54400GT(X)M Series Horizontal Sanders & Polishers44400HGE Series Die Grinders70400GT(X)M Series Horizontal Sanders & Polishers44400HGE Series Die Grinders70400GT(X)M Series Horizontal Sanders & Polis	250EH Series Horizontal Grinders	56
250RA Series Right Angle Grinders22, 30250RAE Series Right Angle Grinders23, 312601RA Series Right Angle Grinders34270RA Series Right Angle Grinders25, 33280RA Series Right Angle Grinders24, 32290RA Series Right Angle Grinders24, 32300EH Series Norizontal Grinders56300GE Series Die Grinders70300GHD Series Die Grinders70300RA Series Right Angle Grinders70300RA Series Right Angle Grinders70300RA Series Right Angle Grinders12, 22, 30300RA Series Right Angle Grinders13, 313101RA Series Right Angle Grinders14, 25, 33330RA Series Right Angle Grinders24, 32400DRA(X)M Series Right Angle Grinders76400DRA(X)M Series Right Angle Grinders76400DRA(X)M Series Right Angle Grinders76400DRA(X)M Series Right Angle Grinders76400DRA(X)M Series Right Angle Grinders70400EH+XX Series Extended Horizontal Grinders70400GEH+XX Series Extended Horizontal Grinders70400GEH+XX Series Extended Horizontal Grinders48, 52, 54400GH(X)M Series Horizontal Sanders & Polishers42400GTCW Series Die Grinders67400GT(X)M Series Die Grinders70400GTCW Series Die Grinders70400GT(X)M Series Horizontal Sanders & Polishers44400HGE Series Die Grinders70400GT(X)M Series Horizontal Sanders & Polishers44400HGE(X)M Series Horizontal Sanders & Polishers <td>250GE Series Die Grinders</td> <td>70</td>	250GE Series Die Grinders	70
250RAE Series Right Angle Grinders23, 312601RA Series Right Angle Grinders34270RA Series Right Angle Grinders25, 33280RA Series Right Angle Grinders24, 32290RA Series Right Angle Grinders24, 32300EH Series Horizontal Grinders56300GE Series Die Grinders70300GHD Series Die Grinders70300RA Series Right Angle Grinders70300RA Series Right Angle Grinders70300RA Series Right Angle Grinders70300RA Series Right Angle Grinders12, 22, 303000RAE Series Right Angle Grinders34320RA Series Right Angle Grinders34320RA Series Right Angle Grinders43300RA Series Right Angle Grinders74400DRA(X)M Series Right Angle Grinders74400DRA(X)M Series Air Drills74400DRE(X)M Series Right Angle Grinders70400FD(X)M Series Floor Drills77400GE Series Die Grinders70400GE Series Die Grinders70400GH(X)M Series Horizontal Grinders42400GT Series Die Grinders42400GT Series Die Grinders68400GT(X)M Series Horizontal Sanders & Polishers44400HGE Series Die Grinders70400GT(X)M Series Horizontal Sanders & Polishers44400HGE(X)M Series Horizontal Sanders & Polishers43	250HGE Series Die Grinders	70
2601 RA Series Right Angle Grinders34270 RA Series Right Angle Grinders25, 33280 RA Series Right Angle Grinders24, 32290 RA Series Right Angle Grinders24, 32300 EH Series Horizontal Grinders70300 GE Series Die Grinders70300 GHD Series Die Grinders70300 RA Series Right Angle Grinders70300 RA Series Right Angle Grinders12, 22, 30300 RA Series Right Angle Grinders13, 313101 RA Series Right Angle Grinders14, 25, 33330 RA Series Right Angle Grinders24, 32340 RA Series Right Angle Grinders24, 32340 RA Series Right Angle Grinders76400 DRA(X)M Series Air Drills76400 DRA(X)M Series Right Angle Grinders76400 DRE(X)M Series Right Angle Grinders70400 EH+XX Series Extended Horizontal Grinders70400 EH+XX Series Extended Horizontal Grinders61400 GH(X)M Series Horizontal Grinders61400 GH Series Die Grinders63400 GTCW Series Die Grinders67400 GT(X)M Series Horizontal Sanders & Polishers44400 HGE Series Die Grinders70400 GTCW Seri	250RA Series Right Angle Grinders	.22, 30
270RA Series Right Angle Grinders	250RAE Series Right Angle Grinders	.23, 31
280RA Series Right Angle Grinders24, 32290RA Series Right Angle Grinders24, 32300EH Series Horizontal Grinders56300GE Series Die Grinders70300GHD Series Die Grinders70300RA Series Right Angle Grinders12, 22, 30300RA Series Right Angle Grinders13, 313101RA Series Right Angle Grinders34320RA Series Right Angle Grinders24, 32300RA Series Right Angle Grinders24, 32300RA Series Right Angle Grinders24, 32340RA Series Right Angle Grinders24, 32340RA Series Right Angle Grinders76400DRA(X)M Series Air Drills76400DRE(X)M Series Right Angle Grinders76400D(X)M Series Right Angle Grinders70400FD(X)M Series Right Angle Grinders70400FD(X)M Series Floor Drills77400GE Series Die Grinders70400GH Series Die Grinders61400GH(X)M Series Horizontal Grinders48, 52, 54400GTCW Series Die Grinders67400GTCW Series Die Grinders70400GTCW Series Die Grinders70400GTCW Series Die Grinders70400HGE Series Die Grinders70 <td>2601RA Series Right Angle Grinders</td> <td>34</td>	2601RA Series Right Angle Grinders	34
290RA Series Right Angle Grinders24, 32300EH Series Horizontal Grinders	270RA Series Right Angle Grinders	25, 33
300EH Series Horizontal Grinders.56300GE Series Die Grinders70300GHD Series Die Grinders56300HGE Series Die Grinders70300RA Series Right Angle Grinders12, 22, 303000RAE Series Right Angle Grinders13, 313101RA Series Right Angle Grinders34320RA Series Right Angle Grinders24, 32340RA Series Right Angle Grinders24, 32340RA Series Right Angle Grinders24, 32340DRA(X)M Series Air Drills76400DRE(X)M Series Right Angle Grinders76400DRE(X)M Series Right Angle Grinders76400EH+XX Series Extended Horizontal Grinders60400FD(X)M Series Floor Drills77400GE Series Die Grinders70400GEH+XX Series Extended Horizontal Grinders61400GH(X)M Series Horizontal Grinders61400GH(X)M Series Horizontal Sanders & Polishers42400GTCW Series Die Grinders67400GT(X)M Series Die Grinders70400GT(X)M Series Horizontal Sanders & Polishers44400HGE Series Die Grinders70400HGE Series Die Grinders70	280RA Series Right Angle Grinders	24, 32
300GE Series Die Grinders70300GHD Series Die Grinders56300HGE Series Die Grinders70300RA Series Right Angle Grinders12, 22, 30300RAE Series Right Angle Grinders13, 313101RA Series Right Angle Grinders14, 25, 33320RA Series Right Angle Grinders24, 32340RA Series Right Angle Grinders24, 32340RA Series Right Angle Grinders76400DRA(X)M Series Air Drills76400DRE(X)M Series Right Angle Grinders76400DRE(X)M Series Right Angle Grinders76400EH+XX Series Extended Horizontal Grinders70400EB Series Die Grinders70400GE Series Die Grinders70400GH(X)M Series Horizontal Grinders61400GH(X)M Series Horizontal Sanders & Polishers42400GTCW Series Die Grinders70400GT(X)M Series Die Grinders70400GT(X)M Series Horizontal Sanders & Polishers44400HGE Series Die Grinders70400GT(X)M Series Horizontal Sanders & Polishers44400HGE Series Die Grinders70	290RA Series Right Angle Grinders	24, 32
300GHD Series Die Grinders56300HGE Series Die Grinders70300RA Series Right Angle Grinders12, 22, 303000RAE Series Right Angle Grinders13, 313101RA Series Right Angle Grinders34320RA Series Right Angle Grinders14, 25, 33330RA Series Right Angle Grinders24, 32340RA Series Right Angle Grinders24, 32340RA Series Right Angle Grinders24, 32400DRA(X)M Series Air Drills76400DRE(X)M Series Right Angle Grinders76400DRE(X)M Series Right Angle Grinders76400EH+XX Series Extended Horizontal Grinders60400FD(X)M Series Floor Drills77400GE Series Die Grinders70400GEH+XX Series Extended Horizontal Grinders61400GH(X)M Series Horizontal Grinders61400GH(X)M Series Horizontal Sanders & Polishers42400GTCW Series Die Grinders67400GT(X)M Series Die Grinders70400GT(X)M Series Horizontal Sanders & Polishers44400HGE Series Die Grinders70400HGE Series Die Grinders70	300EH Series Horizontal Grinders	56
300HGE Series Die Grinders70300RA Series Right Angle Grinders12, 22, 303000RAE Series Right Angle Grinders13, 313101RA Series Right Angle Grinders34320RA Series Right Angle Grinders14, 25, 33330RA Series Right Angle Grinders24, 32340RA Series Right Angle Grinders24, 32340RA Series Right Angle Grinders76400DRA(X)M Series Air Drills76400DRE(X)M Series Right Angle Grinders76400DRE(X)M Series Right Angle Grinders76400EH+XX Series Extended Horizontal Grinders60400FD(X)M Series Floor Drills77400GE Series Die Grinders70400GEH+XX Series Extended Horizontal Grinders61400GH(X)M Series Horizontal Grinders61400GH Series Die Grinders67400GTCW Series Die Grinders67400GT(X)M Series Horizontal Sanders & Polishers44400HGE Series Die Grinders70400HGE Series Die Grinders70	300GE Series Die Grinders	70
300RA Series Right Angle Grinders12, 22, 303000RAE Series Right Angle Grinders13, 313101RA Series Right Angle Grinders34320RA Series Right Angle Grinders14, 25, 33330RA Series Right Angle Grinders24, 32340RA Series Right Angle Grinders24, 32340RA Series Right Angle Grinders76400DRA(X)M Series Air Drills76400DRE(X)M Series Right Angle Grinders76400DRE(X)M Series Right Angle Grinders76400DRE(X)M Series Right Angle Grinders76400EH+XX Series Extended Horizontal Grinders60400FD(X)M Series Floor Drills77400GE Series Die Grinders70400GE Series Die Grinders48, 52, 54400GH(X)M Series Horizontal Sanders & Polishers42400GTCW Series Die Grinders67400GT(X)M Series Ibie Grinders70400GT(X)M Series Horizontal Sanders & Polishers44400HGE Series Die Grinders70400GT(X)M Series Horizontal Sanders & Polishers44400HGE Series Die Grinders70	300GHD Series Die Grinders	56
3000RAE Series Right Angle Grinders13, 313101RA Series Right Angle Grinders34320RA Series Right Angle Grinders14, 25, 33330RA Series Right Angle Grinders24, 32340RA Series Right Angle Grinders24, 32340DRA(X)M Series Air Drills76400DRE(X)M Series Right Angle Grinders76400DRE(X)M Series Right Angle Grinders76400D(X)M Series Air Drills74400EH+XX Series Extended Horizontal Grinders60400FD(X)M Series Floor Drills77400GE Series Die Grinders70400GEH+XX Series Extended Horizontal Grinders61400GH(X)M Series Horizontal Grinders61400GH Series Die Grinders68400GTCW Series Die Grinders67400GT(X)M Series Horizontal Sanders & Polishers44400HGE Series Die Grinders70400HGE Series Die Grinders70	300HGE Series Die Grinders	70
3101RA Series Right Angle Grinders	300RA Series Right Angle Grinders12,	22, 30
320RA Series Right Angle Grinders. 14, 25, 33 330RA Series Right Angle Grinders. 24, 32 340RA Series Right Angle Grinders. 24, 32 340DRA(X)M Series Air Drills 76 400DRE(X)M Series Right Angle Grinders. 76 400EH+XX Series Extended Horizontal Grinders. 60 400FD(X)M Series Floor Drills. 77 400GE Series Die Grinders 70 400GE Series Die Grinders 61 400GH(X)M Series Horizontal Grinders 48, 52, 54 400GH(X)M Series Horizontal Sanders & Polishers 42 400GTCW Series Die Grinders 67 400GT(X)M Series Horizontal Sanders & Polishers 44 400HGE Series Die Grinders 70 400HGE Series Die Grinders 70	3000RAE Series Right Angle Grinders	13, 31
330RA Series Right Angle Grinders24, 32340RA Series Right Angle Grinders24, 32400DRA(X)M Series Air Drills76400DRE(X)M Series Right Angle Grinders76400D(X)M Series Right Angle Grinders76400EH+XX Series Extended Horizontal Grinders60400FD(X)M Series Floor Drills77400GE Series Die Grinders70400GEH+XX Series Extended Horizontal Grinders61400GEH+XX Series Extended Horizontal Grinders61400GH(X)M Series Horizontal Sanders & Polishers42400GTCW Series Die Grinders67400GT(X)M Series Horizontal Sanders & Polishers44400HGE Series Die Grinders70400HGE Series Die Grinders70400HGE Series Die Grinders70	3101RA Series Right Angle Grinders	34
340RA Series Right Angle Grinders 24, 32 400DRA(X)M Series Air Drills 76 400DRE(X)M Series Right Angle Grinders 76 400D(X)M Series Air Drills 74 400EH+XX Series Extended Horizontal Grinders 60 400FD(X)M Series Floor Drills 77 400GE Series Die Grinders 70 400GE H+XX Series Extended Horizontal Grinders 61 400GE Series Die Grinders 61 400GH Series Horizontal Grinders 61 400GH Series Horizontal Grinders 63 400GTCW Series Die Grinders 68 400GTCW Series Die Grinders 67 400GT(X)M Series Horizontal Sanders & Polishers 44 400HGE Series Die Grinders 70 400HGE Series Die Grinders 70	320RA Series Right Angle Grinders14,	25, 33
400DRA(X)M Series Air Drills 76 400DRE(X)M Series Right Angle Grinders 76 400DRE(X)M Series Right Angle Grinders 76 400D(X)M Series Air Drills 74 400EH+XX Series Extended Horizontal Grinders 60 400FD(X)M Series Floor Drills 77 400GE Series Die Grinders 70 400GEH+XX Series Extended Horizontal Grinders 61 400GEH+XX Series Extended Horizontal Grinders 61 400GH Series Horizontal Grinders 61 400GH Series Horizontal Grinders 61 400GH Series Horizontal Sanders & Polishers 42 400GT Series Die Grinders 67 400GT(X)M Series Horizontal Sanders & Polishers 44 400HGE Series Die Grinders 70 400HGE Series Die Grinders 70 400HGE(X)M Series Horizontal Sanders & Polishers 44	330RA Series Right Angle Grinders	24, 32
400DRE(X)M Series Right Angle Grinders	340RA Series Right Angle Grinders	24, 32
400D(X)M Series Air Drills74400EH+XX Series Extended Horizontal Grinders60400FD(X)M Series Floor Drills77400GE Series Die Grinders70400GEH+XX Series Extended Horizontal Grinders61400GH Series Horizontal Grinders48, 52, 54400GH(X)M Series Horizontal Sanders & Polishers42400GT Series Die Grinders68400GTCW Series Die Grinders67400GT(X)M Series Horizontal Sanders & Polishers44400HGE Series Die Grinders70400HGE Series Die Grinders70	400DRA(X)M Series Air Drills	76
400EH+XX Series Extended Horizontal Grinders 60 400FD(X)M Series Floor Drills 77 400GE Series Die Grinders 70 400GEH+XX Series Extended Horizontal Grinders 61 400GH Series Horizontal Grinders 48, 52, 54 400GH(X)M Series Horizontal Sanders & Polishers 42 400GT Series Die Grinders 68 400GTCW Series Die Grinders 67 400GT(X)M Series Horizontal Sanders & Polishers 44 400HGE Series Die Grinders 70 400HGE(X)M Series Horizontal Sanders & Polishers 43	400DRE(X)M Series Right Angle Grinders	76
400FD(X)M Series Floor Drills	400D(X)M Series Air Drills	74
400GE Series Die Grinders70400GEH+XX Series Extended Horizontal Grinders61400GH Series Horizontal Grinders48, 52, 54400GH(X)M Series Horizontal Sanders & Polishers42400GT Series Die Grinders68400GTCW Series Die Grinders67400GT(X)M Series Horizontal Sanders & Polishers44400HGE Series Die Grinders70400HGE(X)M Series Horizontal Sanders & Polishers43	400EH+XX Series Extended Horizontal Grinders	60
400GEH+XX Series Extended Horizontal Grinders	400FD(X)M Series Floor Drills	77
400GH Series Horizontal Grinders48, 52, 54400GH(X)M Series Horizontal Sanders & Polishers42400GT Series Die Grinders68400GTCW Series Die Grinders67400GT(X)M Series Horizontal Sanders & Polishers44400HGE Series Die Grinders70400HGE(X)M Series Horizontal Sanders & Polishers43	400GE Series Die Grinders	70
400GH(X)M Series Horizontal Sanders & Polishers42 400GT Series Die Grinders	400GEH+XX Series Extended Horizontal Grinders	61
400GT Series Die Grinders	400GH Series Horizontal Grinders	52, 54
400GTCW Series Die Grinders	400GH(X)M Series Horizontal Sanders & Polishers	42
400GT(X)M Series Horizontal Sanders & Polishers	400GT Series Die Grinders	68
400HGE Series Die Grinders	400GTCW Series Die Grinders	67
400HGE(X)M Series Horizontal Sanders & Polishers43	400GT(X)M Series Horizontal Sanders & Polishers	44
	400HGE Series Die Grinders	70
400PCE Series Routers79	400HGE(X)M Series Horizontal Sanders & Polishers.	43
	400PCE Series Routers	79

Model Page
400RA Series Right Angle Grinders16, 26, 30
400RA(X)M Series Right Angle Grinders
400RAE Series Right Angle Grinders
400RAE(X)M Series Right Angle Grinders
400SH Series Die Grinders70
407GEH+XX Series Extended Horizontal Grinders61
407GH Series Horizontal Grinders52
407GT Series Die Grinders68
407PCE Series Routers79
407RA Series Right Angle Grinders
407RAE Series Right Angle Grinders31
410RA Series Right Angle Grinders16, 26
410RAE Series Right Angle Grinders17, 27
4101RA Series Right Angle Sanders & Polishers
420RA Series Right Angle Grinders14, 25, 33
4520RA Series Right Angle Grinders35
4520RA(X)M Series Right Angle Grinders
4527RA Series Right Angle Grinders35
4620RA Series Right Angle Grinders35
4620RA(X)M Series Right Angle Grinders
4627RA Series Right Angle Grinders35
500D2M Series Air Drills75
500FD1M Series Floor Drills78
500H1M Series Horizontal Sanders & Polishers45
500H2M Series Horizontal Sanders & Polishers45
507D2M Series In-Line Drills75
507FD1M Series Floor Drills78
507H1M Series Horizontal Sanders & Polishers45
507H2M Series Horizontal Sanders & Polishers45
51H Series Horizontal Grinders52, 54
510V Series Vertical Sanders
510WG Series Air Saws82
5102H Series Extended Die Grinders56
511H Series Horizontal grinders48
520FD1M Series Floor Drills78
520GEH+XX Series Extended Horizontal Grinders
520H1M Series Horizontal Sanders & Polishers45
520H2M Series Horizontal Sanders & Polishers45

Model Page
520HGEH+XX Series Extended Horizontal Grinders
520RA Series Right Angle Grinders18, 36
520V Series Vertical Grinders5, 6, 8
5201H Series Extended Die Grinders
54V Series Vertical Grinders5
56H Series Horizontal Grinders47, 48
56PC Series Pile Cutting Saws7
56S Series Vertical Sanders8
57H Series Horizontal Grinders52
58C Series Vertical Grinders6
64V Series Vertical Grinders5
65GEH+XX Series Extended Horizontal Grinders63
65H Series Horizontal Grinders47, 48
65HGEH+XX Series Horizontal Grinders63
65VBW Series Saws
66PC Sereis Plie Cutting Saws7
66VBG Series Bench Grinders80
662VBG Series Bench Grinders80
662VBW Series Saws
68C Series Vertical Grinders
80 SERIES Series Chipping Hammers90
TC-1 Series Scalers78, 85
TC-10 Series Chipping Hammers91
TC-182 Series Scalers
TC-20 Series Chipping Hammers91
TC-30 Series Chipping Hammers91
TC-40 Series Chipping Hammers91
Power Supply Motors

Classic Tools	Green Insert
40G Series Die Grinders	iii
40GH Series Horizontal Grinders	iii, iv
4121G Series Die Grinders	iii
44RA Series Right Angle Grinders	i, ii, iii
44RAE Series Right Angle Grinders	i
46RA Series Right Angle Grinders	i, ii
48RA Series Right Angle Grinders	i, ii

Custom tool design...

new tool or modifying an existing tool.







Unlike most tool producers that provide a group of tools... take-it-or-leave-it, we welcome the opportunity to discuss your special tool needs and hopefully offer options. Providing our customers with the tools they really need is a point of pride and accomplishment at TC Service. Many of the tools that we regularly produce today started out as someone's special. Listed here are just a few of the adaptations we have made to get our customers the tools they needed:

- Custom threads on air inlets and output spindles.
- Fixed bench attachments.
- Specially designed motors for custom applications & wheels.
- Extra-heavy-duty parts and equipment.

If you have a need and do not see what you're looking for — ASK US!

Left Hand Throttle Lever



Piped Away Exhaust

Piped Away Exhaust Through Dead Handle





Cushion Grip Handles



Hub

Grinders for Depressed Center Wheels, Cut Off Wheels & Flap Wheels



PCAT08 CLASSIC LINE

TTO TO TO Type 27 Wheel With 3/8 Inch Type 27 Wheel With 5/8 Inch



Mount Hole

Type 27 Wheel With Built In Type 27 Wheel With 7/8 Inch Mount Hole

0 Type 1 Grinding Wheel Type 1 Cut-Off Wheel

.9 H.P. (675 W)

3" (75 mm) – 6" (150 mm)

0

Air Inlet Size: 1/4" NPT

Hose Size Recommendations: 3/8" (10 mm) **Extra Charge Accessories**

V7/

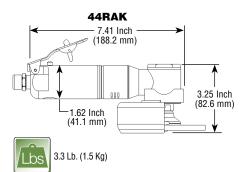
- Type 27 Adapters
- Sanding Pads
- **Standard Equipment**
- Tool Operating Instructions and Service Manual
- 2 Wrenches (sizes based on options)

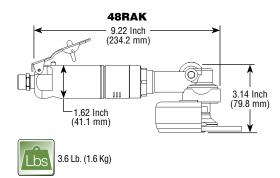
The depressed center wheel adapters are not supplied as standard equipment with the tools. If you are using a wheel that requires the adapters, they must be purchased separately.

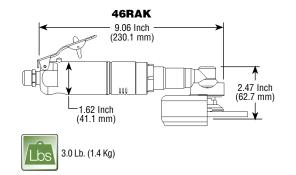
Quick Order Number					
Model	Spindle Quart Size	Deted Overed	Throttle Type		
Number	Thread	Guard Size	Rated Speed	Standard Lever	Safety Lever
44RA	3/8-24	4 Inch (100mm)		44RA4;427	44RA4K;427
44nA	5/8-11	4 1/2 (115mm)	11000 R.P.M.	44RA2;4527	44RA2K;4527
	3/8-24	4 Inch (100mm)	11000 K.P.M.	44RAE4;427	44RAE4K;427
44RAE	5/8-11	4 1/2 (115mm)		44RAE2;4527	44RAE2K;4527
44NAC	3/8-24	6 Inch (150mm)	10000 R.P.M.	44RAE4;641	44RAE4K;641
	5/8-11	0 mcn (150mm)		44RAE2;641	44RAE2K;641
46RA	3/8-24	4 Inch (100mm)	15000 R.P.M.	46RA1;427	46RA1K;427
	3/8-24	4 Inch (100mm)	11000 R.P.M.	48RA4;427	48RA4K;427
40.04	5/8-11	4 1/2 (115mm)	1 1000 n.r.i¥l.	48RA2;4527	48RA2K;4527
48RA	3/8-24	6 Inch (150mm)	10000 R.P.M.	48RA4;641	48RA4K;641
	5/8-11	0 mcn (190mm)		48RA2;641	48RA2K;641

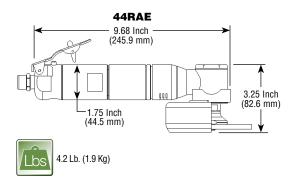


30 cfm (14.2 L/s) Max





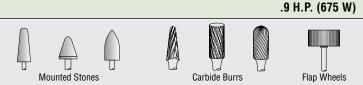




T P CATO8 CLASSIC LINE

Right Angle Collet Grinders





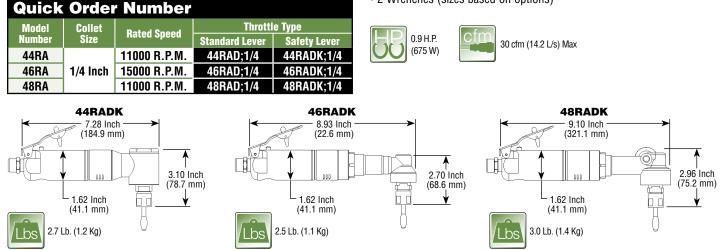
Air Inlet Size: 1/4" NPT Hose Size Recommendations: 3/8" (10 mm)

Extra Charge Accessories

· Safety Lever

Standard Equipment

- Tool Operating Instructions and Service Manual
- 2 Wrenches (sizes based on options)



CATO8 CLA

Right Angle Sanders for use with Abrasive Discs



Air Inlet Size: 1/4" NPT Hose Size Recommendations: 3/8" (10 mm) **Extra Charge Accessories**

- Extended Case

Standard Equipment

- Tool Operating Instructions and Service Manual
- · 2 Wrenches (sizes based on options)



30 cfm (14.2 L/s) Max

44RAK (With Optional Sanding Pad) 7.28 Inch (184.9 mm)



3.4 Lb. (1.5 Kg)





Quick Order Number

Model Spin Number Thre	Spindle	Idle Sanding Pad Size	Size Rated Speed	Throttle Type	
	Thread	Sallully Fau Size		Standard Lever	Safety Lever
	2/0 24	4 Inch (100mm)	11000 R.P.M.	44RA4;4SP	44RA4K;4SP
44RA	3/8-24	5 Inch(125mm)	10000 R.P.M.	44RA4;5SP	44RA4K;5SP
	5/8-11	4 Inch (100mm)	11000 R.P.M.	44RA2;4SP	44RA2K;4SP
		5 Inch(125mm)	10000 R.P.M.	44RA2;5SP	44RA2K;5SP
	3/8-24	4 Inch (100mm)	11000 R.P.M.	48RA4;4SP	48RA4K;4SP
48RA		5 Inch(125mm)	10000 R.P.M.	48RA4;5SP	48RA4K;5SP
	E/0 11	4 Inch (100mm)	11000 R.P.M.	48RA2;4SP	48RA2K;4SP
	5/8-11	5 Inch(125mm)	10000 R.P.M.	48RA2;5SP	48RA2K;5SP

44RA & 48RA Series

4" (100 mm) - 5" (125 mm) 0.9 H.P. (675 W)

Safety Lever

T[®]P CAT08 CLASSIC LINE

Insert Style Collets

0.9 H.P. (675 W)

Insert Style Die Grinders For Carbide Burrs & Mounted Stones

40GK 4121G

Air Inlet Size: 1/4" NPT

Hose Size Recommendations: 3/8" (10 mm)

Extra Charge Accessories

Safety Lever **Standard Equipment**

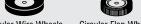
- Tool Operating Instructions and Service Manual
- 2 Wrenches (sizes based on options)
- 0.9 H.P. **Throttle Type** Model Number (675 W) **Collet Size Rated Speed Standard Lever Safety Lever** 18000 R.P.M. 40G;18 40GK;18 40G 30 cfm (14.2 L/s) Max 22000 R.P.M. 40G:22 40GK:22 1/4 Inch 18000 R.P.M. 4121G;18 4121GK;18 4121G 22000 R.P.M. 4121G;22 4121GK;22 40GK 4121GK 5.80 Inch 6.36 Inch (147.3 mm) (161.6 mm) bs b 1.5 Lb. (0.7 Kg) 1.5 Lb. (0.7 Kg) 1.62 Inch 1.62 Inch

T 🖓 P CATO8

40GHK

Grinders For Type 1 Wheels, Flap Wheels And Wire Wheels

(41.1 mm)



Circular Flap Wheels



0

0 Type 1 Wheel

Air Inlet Size: 1/4" NPT

Hose Size Recommendations: 3/8" (9.5 mm)

(41.1 mm)

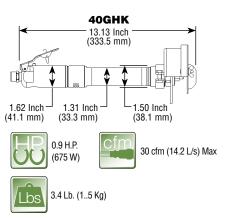
Extra Charge Accessories

- Cone Wheel Adapters Heavy-Duty 2-pc. Collets
- Erickson Style Collets Safety Lever Extended Length Spindle
- +2 and +3 spindles for use with buffing wheels (40GH & 47GH only)

Standard Equipment

- Tool Operating Instructions and Service Manual
- 2 Wrenches (sizes based on options)

Quick Order Number Horizontal T1 Wheel Grinders					
Model Number	Guard Size	Rated Speed	Throttle Type		
			Standard Lever	Safety Lever	
40011	3 Inch (75mm)	18000 R.P.M.	40GH;301	40GHK;301	
40GH	4 Inch	15000 R.P.M.	40GH;401	40GHK;401	



3" (75 mm) - 4" (100 mm)

0.9 H.P. (675 W)





Quick Order Number Die Grinders



TOP CATOS CLASSIC LINE

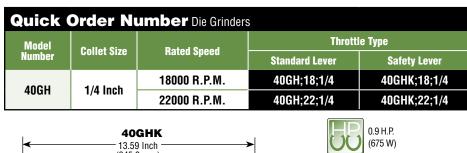
Fixed Size Collet Die Grinders for Carbide Burrs & Mounted Stones

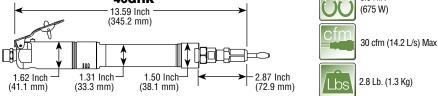
Built In Collets 0.9 H.P. (675 W)



Air Inlet Size: 1/4" NPT Hose Size Recommendations: 3/8" (10 mm) Extra Charge Accessories

- Safety Lever
- **Standard Equipment**
- Tool Operating Instructions and Service Manual
- 2 Wrenches (sizes based on options)





T P CATO8 CLASSIC LINE

Horizontal Extended Grinders For 3/8-24 Cone Wheels



Type 17 Cone Wheel Cone Wheel Cone Wheel Cone Wheel

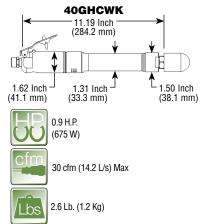
Air Inlet Size: 1/4" **NPT** Hose Size Recommendations: 3/8" (9.5 mm) Extra Charge Accessories

Safety Lever

Standard Equipment

- Tool Operating Instructions and Service Manual
- 2 Wrenches (sizes based on options)

Quick Order Number Horizontal Cone Wheel Grinders						
	Rated Speed	Throttle Type				
Model Number		Standard Lever	Safety Lever			
40GH	22000 R.P.M.	40GHCW	40GHKCW			



40GH Series

0.9 H.P. (675 W)

A history of quality and service...

A future offering technically advanced and more productive tools.



Since incorporation in 1967, TC Service has continued to develop and improve on their line of Top Cat Air Tools. A line of hand-held pneumatic grinders, saws, scalers, chipping hammers, rammers and accessories, that expands through experience and improves through technology.

Investing in the future, TC Service expanded into a new facility in the summer of 2000. This move was a direct result of increased product development and manufacturing needs. The benefits to our customers include faster order processing and delivery, greater capacity to design and manufacture "special" application tools, and a more efficient materials/ production flow to help keep tool costs competitive.

Top Cat tools built today are more user-friendly, safer to operate, and last longer than ever before. Other manufacturers have been trying to copy our tools for years...unsuccessfully. If you want the top-of-the-line, get the genuine Top Cat tool.















The T.C. Pride

T.C. Service has a growing worldwide network of quality Authorized Agents that provide the total package...sales, service and repair.

Our joint goal is to provide you, our customers, with the best American made pneumatic tools for the required job. These tools are Top Cat quality, delivered quickly at a competitive price. Our Authorized Agents know our tools and they can offer the kind of customer service you deserve.

We strive to keep our Authorized Agents aware of our continued "low vibration" ergonomic advancements, so that they can make tool selection recommendations. Technical assistance is always available. Our Authorized Agents work with us to address any "special" tool needs you may encounter.

To order, contact your local T.C. Service, Top Cat Authorized Agent or call us for the Agent nearest you.



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