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54VK Vertical Type 27 Wheel Grinder



400RA Right Angle Type 27 Grinder



400GH Horizontal Die Grinder



400HGE Die Grinder



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Work Safety

When care is taken to insure that the right tool is operated properly, and the safety and maintenance procedures are followed, accidents may be avoided.



Read and understand tool manual before work starts to reduce risk of injury to operator, visitors, and tool. Many more guidelines are provided in the tool manual.

Users are responsible for following all established safety codes and regulations such as:

- 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 Requirements for the Use, Care and Protection of Abrasive Wheels – ANSI B7.1, available from American National Standards Institute, Inc., 1430 Broadway, New York, NY 10018
- Applicable State and Local Regulations.

Personal Protection



Do not use while under the influence of drugs, alcohol or medication. Attention is required to avoid accidents.

Beware of loose hair and clothing so as not to become tangled or trapped during operation.



Eye protection must be worn at all times to prevent particulates from causing eye injury. Eye protection shall conform to ANSI Z87.1.



Ear protection is to be worn when exposure to sound exceeds the limits of applicable Federal, State or local statutes, ordinances or regulations.



Respiratory protection to be used when exposed to contaminants that exceed the applicable threshold limit values required by law.

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.
- 6) 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.

Workplace Safety



Pressurized air supply lines and flexible hoses can cause serious injury. Do not use damaged, frayed or deteriorated air hoses and fittings.

The workplace should be clear of hazards and well lit. Dark, cluttered areas make injury more likely

Keep bystanders away while operating a tool. Be aware of the direction of sparks and other grinding and cutting debris.

Make sure that the workpiece is well secured before working. A moving workpiece can cause tools to slip and lead to injury.

Grinder Safety



Machines, attachments and accessories must be used only for the purpose for which they were designed. Do not modify any part of any tool or accessory. Do not use any unapproved accessory.

All tools are designed for use with a pressure of 90 PSI (6.2 Bar) maximum. Excess pressure will cause speed to increase leading to a potential unsafe operating speed.



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 shall be replaced.

Verify that the wheel flanges, wheel adapters and spindle threads are correct for the wheel type to be mounted. Only use recommended flanges and wheel adapters. Verify that the guard is correct for the wheel type to be mounted.

Make sure that the tool is in good working order. For example, make sure handles are tight, the spindle bearings are solid—the spindle should not move in and out of the tool when pulled—the flanges are clean and free of nicks and the motor spindle spins freely.

There are a few things that must be checked before using a wheel:

- The rated speed of the grinding wheel and all accessories must equal or exceed the rated speed of the machine. Spinning items too fast may cause them to fail and result in injury.



- Inspect wheel for cracks or chips—if found, do not use. Cracks and chips weaken the wheel making a failure more probable
- Do not fit a wheel that has been soaked in or exposed to any liquids. Liquids may loosen the bonds of the wheel and lead to failure.
- Wheels without built in threads should fit on spindle but not loose. Loose wheels may be greatly out of balance and cause undue stress on the wheel leading to failure.

- Wheels should be uniform and balanced. Out of balance wheels increase the stress in the wheel and may lead to injury.
- Follow the proper handling and storage of abrasive wheels and inserted tooling as described in ANSI B7.1.



The spindle speed of the tool must be checked. This measured speed shall always be less than the rated speed of the tool. If the tool's speed measures higher than its rated speed it shall be removed from use and corrected before being returned to use.

- Verify that the air line pressure is 90 PSI (6.2 Bar) maximum. Excess pressure will cause speed to increase leading to a potential unsafe operating speed.
- Several speed readings should be taken with the tool being turned on and off between readings. More tests make sure that the tool is reliably reaching the same speed.
- Tachometers must be checked and calibrated on a regular basis according to the manufacturer's recommendations. Precise numbers can only be arrived at by accurate equipment.
- This form of inspection should be made with the grinding wheel or other tooling removed.
- Measure the speed of grinders every 20 hours of actual use or once per week, whichever comes first.
- Measure the speed of grinders after maintenance or repair, whenever a grinder is issued from the tool crib and at each wheel change.



- Test a wheel by running the tool under a bench and away from bystanders.
- Run for a minimum of one minute.
- Turn the tool on and off several times.
- This test should be performed any time a wheel may have been pinched, dropped, when the tool is issued or when first using the tool for the day.

Seguridad laboral

Es posible evitar accidentes cuando se tiene cuidado de usar la herramienta correcta de forma adecuada, y se siguen los procedimientos de seguridad y mantenimiento.

 Lea y comprenda el manual de la herramienta antes de comenzar a trabajar para reducir el riesgo de lesiones al operario, a los visitantes y a la herramienta. En el manual de la herramienta se proporciona mas información.

Los usuarios son responsables de seguir todos los códigos y normativas de seguridad establecidos, como son:

- La normativa de seguridad y salud en la industria general (29 CFR, Parte 1910) y, donde corresponda, la normativa de seguridad y salud en la industria de la construcción (29 CFR, Parte 1929) disponibles en Superintendent of Documents, Government Printing Office, Washington, D.C. 20402
- Los requisitos de seguridad para el Uso, el cuidado y la protección de ruedas abrasivas (ANSI B7.1), disponible en American National Standards Institute, Inc., 1430 Broadway, Nueva York, NY 10018
- Las normativas estatales y locales correspondientes.

Protección personal



No utilizar mientras si ha consumido drogas, alcohol o medicamentos. Se requiere atención para evitar accidentes.

Tenga cuidado con el cabello y la ropa suelta para que no se lleve a enredar o quedar atrapada durante la operación.



Debe usar protectores para los ojos en todo momento para evitar que las partículas causen daños a los ojos. Los protectores de ojos deben ajustarse a la norma ANSI Z87.1.



Debe usar protectores para los oídos cuando la exposición a los ruidos excede los límites de los estatutos, ordenanzas o normativas federales, estatales o locales correspondientes.



Debe usar protección respiratoria cuando se expone a contaminantes que excedan los valores límite que exigen las leyes correspondientes.

Las siguientes sugerencias le ayudarán a reducir o moderar los efectos del movimiento repetitivo en el trabajo y/o la exposición prolongada a la vibración:



- 1) NO agarre la máquina o herramienta con demasiada fuerza. Aplique únicamente la fuerza necesaria para mantener el control.
- 2) Mantenga las manos y el cuerpo secos y cálidos. (El flujo sanguíneo es importante; ejercite las manos y los brazos tan a menudo como sea necesario).
- 3) Mantenga las muñecas tan rectas como sea posible. (EVITE las posiciones de mano que requieren que la muñeca esté doblada, hiper extendida o girada de lado a lado.)

4) EVITE cualquier cosa que pueda inhibir el flujo sanguíneo como son fumar tabaco o la exposición prolongada a temperaturas frías.

- 5) NO apoye el peso corporal en la herramienta durante la operación.
- 6) Mantenga una postura relajada para el cuerpo entero.

La exposición prolongada a las vibraciones creadas por fuentes vibratorias puede causar un riesgo para la salud. Hay guantes, cubiertas de asidero y otras formas de medidas protectoras disponibles para ayudar a reducir el riesgo. Debe vigilar el ajuste y la condición de cualquier medida para la disminución de vibración.

Seguridad en el lugar de trabajo



Las líneas de suministro neumático presurizadas y las mangueras flexibles pueden causar heridas graves. No utilice mangueras y accesorios neumáticos dañados, deshilachados o deteriorados.

El lugar de trabajo debe estar libre de riesgos y bien iluminado. Las áreas oscuras y atestadas aumentan las probabilidades de heridas.

Aleje a los espectadores mientras opera una herramienta. Preste atención a la dirección de las chispas y otros residuos que se producen al moler y cortar.

Asegúrese de que la pieza de trabajo esté bien asegurada antes de trabajar. Una pieza de trabajo móvil puede hacer que la herramienta resbale y conducir a heridas.

Seguridad en el Pulido



Las máquinas, los aditamentos y los accesorios deben ser utilizados únicamente para el propósito para los que fueron diseñados. No modifique ninguna parte de alguna herramienta o accesorio. No utilice un accesorio que no ha sido previamente aprobado.

Todas las herramientas están diseñadas para usarse a una presión máxima de 90 psi (6.2 Bar). Un exceso en la presión hará que aumente la velocidad, lo cual llevará a una velocidad de operación potencialmente peligrosa.



Inspeccione el guarda de la rueda en cuanto a señales de desgaste y que esté correctamente instalada en la herramienta. La guarda que muestre señas de desgaste como dobleces, despostillamientos, mellas o grietas debe ser reemplazada.

Verifique que las bridas de rueda, los adaptadores de rueda y la rosca del eje sean los correctos para el tipo de rueda que se instalará. Utilice únicamente las bridas y los adaptadores de rueda recomendados. Verifique que la guarda sea la correcta para el tipo de rueda que se instalará.

Compruebe que la herramienta esté funcionando. Por ejemplo, compruebe que los asideros están apretados y los cojinetes de eje están sólidos; que el eje no entre y salga de la herramienta cuando se jala; que las bridas estén limpias y sin mellas y que el eje del motor gire libremente.

Hay algunas cosas que debe revisar antes de utilizar una rueda:

- La velocidad nominal de la rueda de amolar y

todos los accesorios debe ser igual o mayor a la velocidad nominal de la máquina. Si los artículos giran demasiado rápido pueden fallar y resultar en lesiones.



- Inspeccione la rueda en cuanto a grietas o despostillamientos; si encuentra algo, no la utilice. Las grietas y despostillamientos debilitan la rueda haciendo que sea más probable que falle.

- No coloque una rueda que ha sido sumergida o expuesta a algún líquido. Los líquidos pueden aflojar el vínculo de la rueda y conducir a fallas.

- Las ruedas que no tienen rosca deben quedar en el eje pero no quedar sueltas. Las ruedas flojas pueden estar muy desequilibradas y causar una tensión excesiva en la rueda, haciendo que falle.

- Las ruedas deben ser uniformes y equilibradas. Las ruedas desequilibradas aumentan la tensión en la rueda y pueden llevar a lesiones.

- Siga el manejo y almacenamiento adecuados de las ruedas abrasivas y de las herramientas instaladas, como se describe en la norma ANSI B7.1.



La velocidad del eje de la herramienta debe ser verificada. La velocidad medida siempre debe ser menor que la velocidad nominal de la herramienta. Si la velocidad de la herramienta resulta más alta que la velocidad nominal, debe eliminar del uso y corregir el problema antes de que se utilice de nuevo.

- Verifique que la presión máxima de la línea neumática sea de 90 psi (6.2 Bar). Un exceso en la presión hará que aumente la velocidad, lo cual llevará a una velocidad de operación potencialmente peligrosa.

- Debe tomar varias lecturas de la velocidad con la herramienta, encendiendo y apagando la herramienta entre lecturas. Las pruebas adicionales aseguran que la herramienta alcance la misma velocidad de forma confiable.

- Los tacómetros deben ser verificados y calibrados con regularidad según las recomendaciones del fabricante. Únicamente se pueden lograr números precisos con un equipo exacto.

- Realice esta forma de inspección quitando primero la rueda de amolar u otros accesorios.

- Mida la velocidad de los moledores cada 20 horas de uso real o una vez a la semana, lo que sea primero.

- Mida la velocidad de los moledores después de un mantenimiento o reparación, siempre que saque un moledor de la bodega de herramienta o cuando se instale un moledor nuevo.

- Pruebe una rueda haciendo funcionar la herramienta debajo de un banco y lejos de los espectadores.

- Déjela encendida al menos durante un minuto.

- Encienda y apague la herramienta varias veces.

- Realice esta prueba siempre que comprima o deje caer una rueda, cuando utilice la herramienta por primera vez o cuando utilice la herramienta por primera vez en el día.

Conseils de sécurité

Quand on prend soin de s'assurer que le bon outil est utilisé correctement, et que les procédures de sécurité et d'entretien sont respectées, les accidents peuvent être évités.

Lire et comprendre le manuel de l'outil avant le début des travaux pour réduire le risque de blessures pour l'opérateur, les visiteurs, et l'endommagement de l'outil. Beaucoup plus de conseils sont fournis dans le manuel de l'outil.

Les utilisateurs sont tenus de suivre tous les codes de sécurité et les règlements établis tels que:

- General Industry Safety & Health Regulations 29 CFR, Partie 1910 et, le cas échéant, Construction Industry Safety & Health Regulations 29 CFR, Partie 1929, disponible auprès du Superintendent of Documents, Government Printing Office, Washington, D.C. 20402
- Safety Requirements for the Use, Care and Protection of Abrasive Wheels – ANSI B7.1, disponible auprès de American National Standards Institute, Inc., 1430 Broadway, New York, NY 10018
- Règlements locaux et d'État applicables.

Protection individuelle



Ne pas utiliser sous l'influence de drogues, d'alcool ou de médicaments. L'attention est nécessaire pour éviter les accidents.



Méfiez-vous des cheveux et des vêtements trop lâches afin de ne pas vous emmêler ou être piégé pendant le fonctionnement.



Une protection des yeux doit être portée en tout temps pour empêcher les particules de causer des blessures aux yeux. La protection des yeux doivent être conformes à la norme ANSI Z87.1.

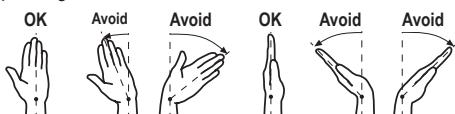


Une protection auditive doit être portée lors de l'exposition au bruit dépassant les limites des statuts, ordonnances ou règlements applicables au niveau fédéral, provincial ou local.



Une protection respiratoire doit être utilisée en cas d'exposition à des contaminants qui dépassent les valeurs limites d'exposition applicables prévues par la loi.

Les suggestions suivantes vous permettront de réduire ou d'atténuer les effets du mouvement de tâches répétitives et / ou l'exposition aux vibrations prolongées:



- 1) NE PAS tenir trop fermement la machine ou l'outil. Utilisez juste la force nécessaire pour maintenir le contrôle.
- 2) Garder les mains et le corps sec et chaud. (La circulation du sang est importante - relaxez les mains et les bras aussi souvent que nécessaire).
- 3) Gardez les poignets aussi droits que possible. (ÉVITER les positions de main qui nécessitent le pliement et une tension excessive du poignet ou le fait de le tourner d'un côté ou de l'autre).
- 4) ÉVITER tout ce qui peut entraver la circulation

du sang tel que le tabagisme ou l'exposition prolongée à des températures froides.

- 5) NE PAS mettre le poids de votre corps sur l'outil pendant l'opération.
- 6) Maintenir une posture sans stress pour le corps tout entier.

Une exposition prolongée aux vibrations créées par des sources de vibration peut provoquer des dangers pour la santé. Il y a des gants, des enveloppements de poignées et d'autres formes de mesures de protection disponibles pour aider à réduire les risques. L'ajustement et la condition de toute mesure de réduction de vibration doivent être surveillés.

Sécurité du lieu de travail



Les conduites d'air sous pression et les tuyaux flexibles peuvent causer des blessures graves. Ne pas utiliser de tuyaux d'air et de raccords endommagés, effilochés ou détériorés.

Le lieu de travail doit être débarrassé de tout risque et bien éclairé. Les zones sombres et encombrées représentent une possibilité plus grande de bles-sures.

Éloignez les passants lorsqu'on utilise un outil. Soyez conscient de la direction des étincelles et autres débris de meulage et de coupe.

Assurez-vous que la pièce est bien fixée avant de travailler. Une pièce en mouvement peut causer le glissement des outils et provoquer des blessures.

Sécurité concernant les meules



Les machines, équipements et accessoires doivent être utilisés uniquement aux fins pour lesquelles ils ont été conçus. Ne modifier aucune partie de n'importe quel outil ou accessoire. N'utiliser aucun accessoire non approuvé.

Tous les outils sont conçus pour une utilisation sous une pression de 90 psi (6,2 bar) au maximum. Une pression excessive provoque une augmentation de la vitesse, ce qui entraîne une vitesse de fonctionnement potentiellement dangereuse.



Inspecter le carter de protection de la meule pour détecter tout signe d'usure et pour voir s'il est correctement monté sur l'outil. Tout carter de protection montrant des signes d'usure tels que coudes, écaillures, entailles ou fissures doit être remplacé.

Vérifiez que les brides des meules, adaptateurs de meules et filetages de l'axe du moteur sont corrects pour le type de meule qui doit être montée. N'utilisez que les brides et adaptateurs de meule recommandés. Vérifiez que le dispositif de protection est correct pour le type de meule à monter.

Assurez-vous que l'outil est en bon état de fonctionnement. Par exemple, assurez-vous que les poignées sont bien serrées, que les roulements de l'arbre du moteur sont solides: l'axe ne doit pas se déplacer vers l'intérieur ou l'extérieur de l'outil lorsqu'il est tiré, les brides doivent être propres et exempts d'entailles et l'axe du moteur doit tourner librement.

Il y a certaines choses qui doivent être vérifiées avant d'utiliser une meule:

- La vitesse nominale de la meule et tous les accessoires doivent égaler ou dépasser la vitesse

nominale de la machine. Faire tourner des pièces trop rapidement peut les faire rater et entraîner des blessures.



• Inspecter la meule pour voir si elle a des fissures ou des copeaux, si vous en trouvez, ne l'utilisez pas. Les fissures et les écaillures affaiblissent la meule, ce qui rend plus probable le ratage de la pièce

• Ne montez pas une meule qui a été trempée dans un liquide ou exposé à un liquide. Les liquides peuvent relâcher les liens de la meule et conduire à l'échec.

• Les meules sans filetage incorporé doivent tenir sur l'axe mais sans être lâche. Les meules libres peuvent être fortement déséquilibrées et causer un stress excessif sur la meule, ce qui conduit à l'échec.

• Les meules doivent être uniformes et équilibrées. Une meule déséquilibrée augmente le stress dans la meule et peut entraîner des blessures.

• Suivre la manutention et l'entreposage des meules abrasives et des outils qui y sont attachés tel que cela est décrit dans la norme ANSI B7.1.



La vitesse de l'axe de l'outil doit être vérifiée. Cette vitesse mesurée est toujours inférieure à la vitesse nominale de l'outil. Si la vitesse de l'outil est supérieure à sa vitesse nominale il doit être retiré de l'utilisation et corrigé avant d'être réutilisé.

• Assurez-vous que la pression de la conduite d'air est de 90 PSI (6,2 bar) maximum. Une pression excessive provoque une augmentation de la vitesse, ce qui conduit à une vitesse de fonctionnement potentiellement dangereux.

• Plusieurs lectures de vitesse doivent être prises alors que l'outil est allumé et éteint entre les lectures. D'autres tests permettent de s'assurer que l'outil est fiable pour atteindre la même vitesse.

• Les compte-tours doivent être vérifiés et étalonnés régulièrement, conformément aux recommandations du fabricant. Les chiffres précis ne peuvent être obtenu qu'avec des équipements précis.

• Ce formulaire d'inspection doit être effectué avec la meule ou autre outillage retiré.

• Mesurer la vitesse des meules toutes les 20 heures d'utilisation réelle ou une fois par semaine, selon ce qui se produit en premier.

• Mesurer la vitesse des meules après un entretien ou une réparation, chaque fois qu'une meule sort de l'armoire à outils et à chaque changement de roue.



• Tester une meule en exécutant l'outil sous un établi et à l'abri des passants.

• faire tourner la meule pendant un minimum d'une minute.

• Mettez en marche et arrêtez la meule plusieurs fois.

• Ce test doit être effectué chaque fois qu'une meule a été pincée, est tombée, lorsque l'outil est délivré ou lors de la première utilisation de l'outil pour la journée.

Vertical Tools

Page Number	Application	Abrasive Size	Model Series	Power Output	Mounting of Abrasives
7	Type 27, Type 27 Cut-Off (Type 42) & 28 Depressed Center Wheels	7 Inch (180 mm)	520V	2 H.P. (1.5 kW)	
		9 Inch (230 mm)	54V	3 H.P. (2.3 kW)	
		7 Inch (180 mm)	64V	4 H.P. (3.0 kW)	
		9 Inch (230 mm)			
8	Type 11 Cup Wheels	4 Inch (100 mm)	520V	2 H.P. (1.5 kW)	
		58C			
		6 Inch (150 mm)	68C	3 H.P. (2.3 kW)	
				4 H.P. (3.0 kW)	
9	Type 1 Cut-Off (Type 41) Bonded or Diamond Wheels	8 Inch (200 mm)	56PC	3 H.P. (2.3 kW)	
		10 Inch (250 mm)			
		12 Inch (300 mm)	66PC	4 H.P. (3.0 kW)	
		14 Inch (350 mm)			
10	Surface Conditioning or Sanding Abrasives	7 Inch (180 mm)	520V	2 H.P. (1.5 kW)	
		56S		3 H.P. (2.3 kW)	
		9 Inch (230 mm)	56S	3 H.P. (2.3 kW)	

HANDLES

Several different handle styles are offered on our vertical tools. Pictured below are each in detail.



(L) Regular Lever



(K) Safety Lever



(B) Thumb Switch

SPEED/GUARD SIZE SELECTION

The rated speed and guard size are closely linked to promote safety and maximize efficiency of the grinding operation. Each model offers various options that are specific to the size/type of the abrasive.

MOUNTING OF ABRASIVES

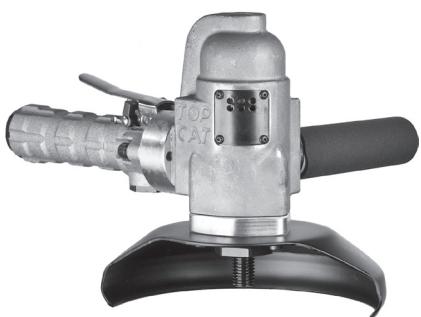
Each wheel type mounts onto the tool in a specific way. Please consult the diagrams above for details on how your particular wheel mounts onto the tool. More details on the mounting of wheels can be found in ANSI B7.1 and ANSI B186.1. Mounting wheels in ways other than those shown are non-compliant and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

Depressed Center
Type 27 WheelDepressed Center Type 27
Cut-Off (Type 42) WheelGuard Size: 7 Inch • 9 Inch
(180 mm) (230 mm)

VERTICAL TOOLS

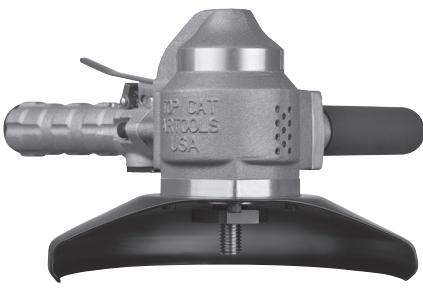
Vertical Grinders for use with Type 27, Type 27 Cut-Off (Type 42) & 28 Depressed Center Wheels

520V Series



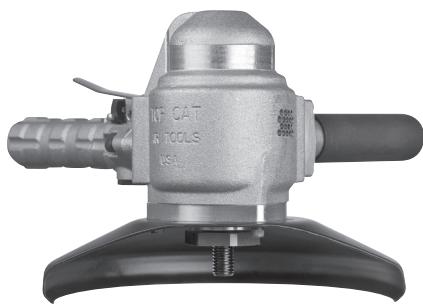
520VK;8000;727

54V Series



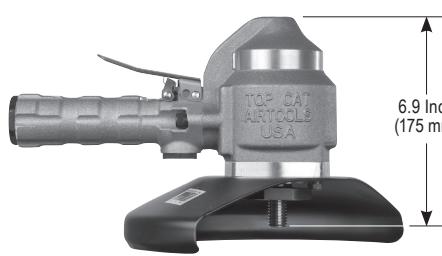
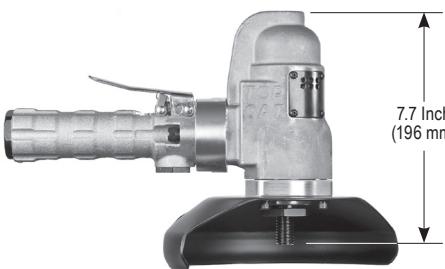
54VK;6000;927

64V Series



64VK;6000;927

Wheel Size	Operating Speed	Lever Style	MODEL NUMBER	Wheel Size	Operating Speed	Lever Style	MODEL NUMBER	Wheel Size	Operating Speed	Lever Style	MODEL NUMBER	
7 Inch (180 mm)	8000 RPM	Standard Lever	520VL;8000;727	7 Inch (180 mm)	8000 RPM	Standard Lever	54VL;8000;727	7 Inch (180 mm)	8000 RPM	Standard Lever	64VL;8000;727	
		Safety Lever	520VK;8000;727			Safety Lever	54VK;8000;727			Safety Lever	64VK;8000;727	
				9 Inch (230 mm)	6000 RPM	Standard Lever	54VL;6000;927	9 Inch (230 mm)	6000 RPM	Standard Lever	64VL;6000;927	
						Safety Lever	54VK;6000;927			Safety Lever	64VK;6000;927	

**HP** 2.0 H.P.
(1.5 kW)**cfm** 20 cfm (9.4 L/s) Free Speed
40 cfm (18.9 L/s) Max**Lbs.** 7.4 Lbs.
(3.3 Kg)**SUPPLY** 1/2" NPT Inlet
1/2" (13 mm) Hose Size**HP** 3.0 H.P.
(2.3 kW)**cfm** 25 cfm (18.8 L/s) Free Speed
60 cfm (28.3 L/s) Max**Lbs.** 9.8 Lbs.
(4.4 Kg)**SUPPLY** 1/2" NPT Inlet
1/2" (13 mm) Hose Size**HP** 4.0 H.P.
(3.0 kW)**cfm** 25 cfm (18.8 L/s) Free Speed
75 cfm (35.4 L/s) Max**Lbs.** 11.3 Lbs.
(5.1 Kg)**SUPPLY** 1/2" NPT Inlet
1/2" (13 mm) Hose Size

Piped Away Exhaust Available to Reduce Sound Emissions.

STANDARD EQUIPMENT

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

ALTERNATE OPTIONS

Operating Speed



The tools above can be rated at speeds slower than 8000 RPM when used with a 7 Inch (180 mm) wheel.

Handles



WHEEL MOUNTING



Type 27 or Type 27 Cut-Off (Type 42)

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.



Guard Size: 4 Inch • 6 Inch
(100 mm) (150 mm)

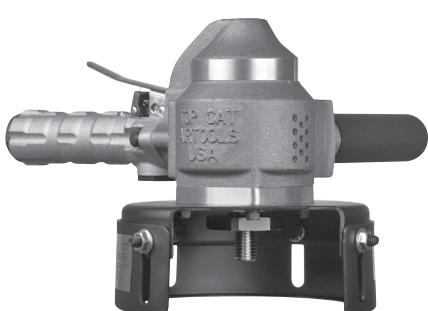
Vertical Grinders for use with Type 11 Cup Wheels

520V Series



520VK;8000;411

58C Series



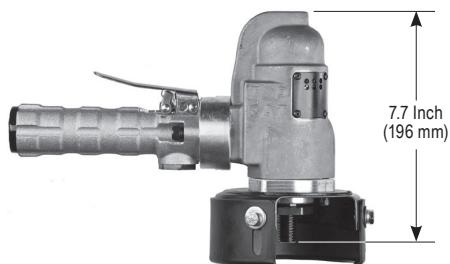
58CK;6000;611

68C Series



68CK;6000;611

Wheel Size	Rated Speed	Lever Style	MODEL NUMBER	Wheel Size	Rated Speed	Lever Style	MODEL NUMBER	Wheel Size	Rated Speed	Lever Style	MODEL NUMBER	
4 Inch (100 mm)	9000 RPM	Standard Lever	520VL;9000;411	4 Inch (100 mm)	9000 RPM	Standard Lever	58CL;9000;411	6 Inch (150 mm)	6000 RPM	Standard Lever	68CL;6000;611	
		Safety Lever	520VK;9000;411			Safety Lever	58CK;9000;411			Safety Lever	68CK;6000;611	
				6 Inch (150 mm)	6000 RPM	Standard Lever	58CL;6000;611			Standard Lever	68CL;6000;611	
						Safety Lever	58CK;6000;611			Safety Lever	68CK;6000;611	



2.0 H.P.
(1.5 kW)



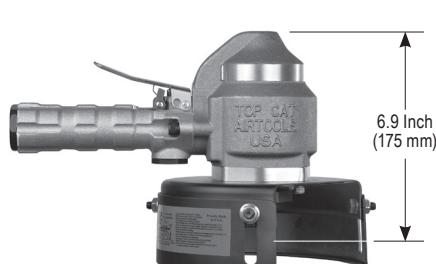
20 cfm (9.4 L/s) Free Speed
40 cfm (18.9 L/s) Max



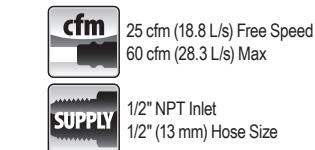
7.5 Lbs.
(3.4 Kg)



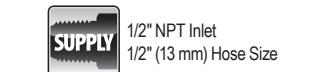
1/2" NPT Inlet
1/2" (13 mm) Hose Size



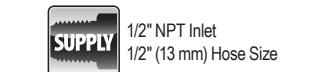
3.0 H.P.
(2.3 kW)



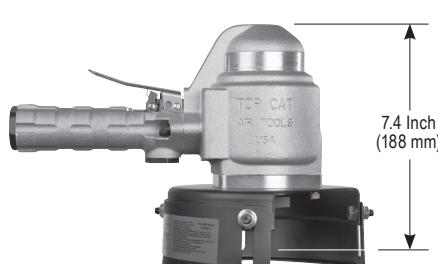
25 cfm (18.8 L/s) Free Speed
60 cfm (28.3 L/s) Max



10.3 Lbs.
(4.7 Kg)



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



4.0 H.P.
(3.0 kW)



25 cfm (18.8 L/s) Free Speed
75 cfm (35.4 L/s) Max



11.8 Lbs.
(5.3 Kg)



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



Piped Away Exhaust Available to Reduce Sound Emissions.

STANDARD EQUIPMENT

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

ALTERNATE OPTIONS



Wheel Size

Versions are Available on Model 68C for use with 5 Inch (125 mm) Wheels.

Handles



Thumb Switch
Safety Lever
Standard Lever

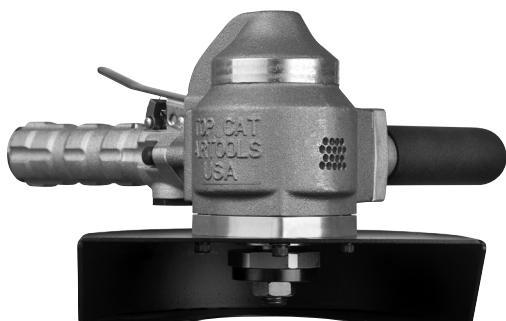
WHEEL MOUNTING



Type 11 Wheel

Pile Cutters for use with Bonded Type 1 Cut-off (Type 41) or Diamond Wheels

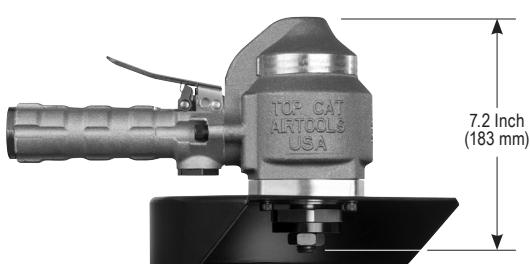
56PC Series


56PCK;6000;841

66PC Series


66PCK;4000;1441

Wheel Size	Rated Speed	Lever Style	MODEL NUMBER
8 Inch X 5/8 ID (200 mm)	6000 RPM	Standard Lever	56PCL;6000;841
		Safety Lever	56PCK;6000;841

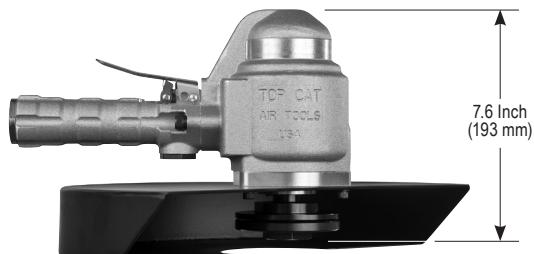

 3.0 H.P.
(2.3 kW)

 25 cfm (18.8 L/s) Free Speed
60 cfm (28.3 L/s) Max

 11.3 Lbs.
(5.1 Kg)

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

Wheel Size	Rated Speed	Lever Style	MODEL NUMBER
10 Inch X 5/8 ID (250 mm)	6000 RPM	Standard Lever	66PCL;6000;1041
		Safety Lever	66PCK;6000;1041
12 Inch X 1.0 ID (300 mm)	5000 RPM	Standard Lever	66PCL;5000;1241
		Safety Lever	66PCK;5000;1241
14 Inch X 1.0 ID (350 mm)	4000 RPM	Standard Lever	66PCL;4000;1441
		Safety Lever	66PCK;4000;1441


 4.0 H.P.
(3.0 kW)

 25 cfm (18.8 L/s) Free Speed
75 cfm (35.4 L/s) Max

 15.8 Lbs.
(7.2 Kg)

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

STANDARD EQUIPMENT

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

ALTERNATE OPTIONS

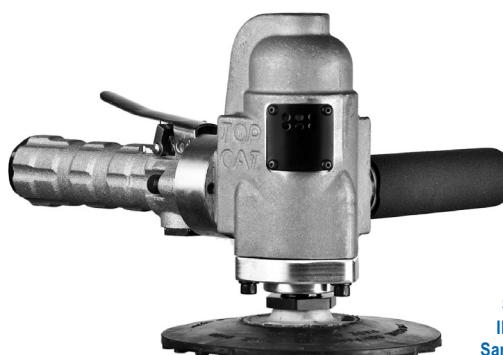
Handles



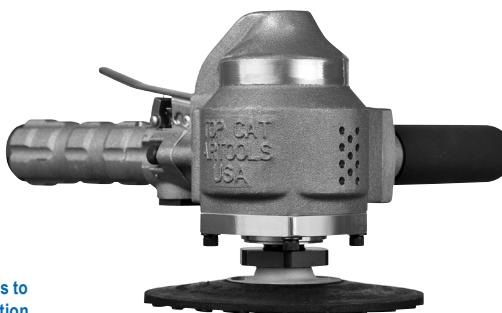
WHEEL MOUNTING



Vertical Sanders for use with Surface Conditioning Abrasives

520V Series

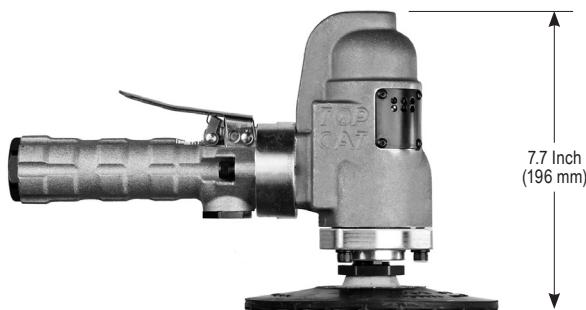
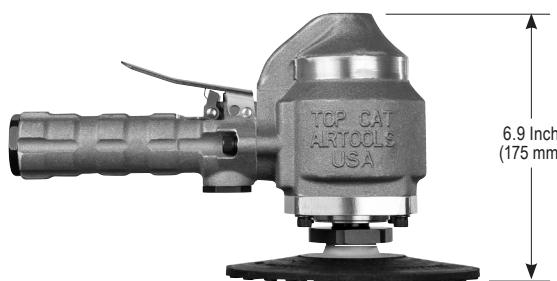
520VK;8000;SP

56S Series

56SK;6000;SP

Sanding Pads Shown on Tools to Illustrate the Sanding Application. Sanding Accessories are Not Supplied as Standard Equipment with Tools.

Recommended Maximum Sanding Pad Size	Rated Speed	Lever Style	MODEL NUMBER	Recommended Maximum Sanding Pad Size	Rated Speed	Lever Style	MODEL NUMBER
7 Inch or 9 Inch (180 mm) (230 mm)	6000 RPM	Standard Lever	520VL;6000	7 Inch or 9 Inch (180 mm) (230 mm)	6000 RPM	Standard Lever	56SL;6000
		Safety Lever	520VK;6000			Safety Lever	56SK;6000
7 Inch (180 mm)	8000 RPM	Standard Lever	520VL;8000	7 Inch (180 mm)	8000 RPM	Standard Lever	56SL;8000
		Safety Lever	520VK;8000			Safety Lever	56SK;8000

2.0 H.P.
(1.5 kW)20 cfm (9.4 L/s) Free Speed
40 cfm (18.9 L/s) Max6.8 Lbs.
(3.1 Kg)1/2" NPT Inlet
1/2" (13 mm) Hose Size3.0 H.P.
(2.3 kW)25 cfm (18.8 L/s) Free Speed
60 cfm (28.3 L/s) Max8.8 Lbs.
(4.0 Kg)1/2" NPT Inlet
1/2" (13 mm) Hose Size

Verify the Maximum Rated Speed of the Sanding Accessory is Higher than the Maximum Rated Speed of the Tool.

STANDARD EQUIPMENT

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

ALTERNATE OPTIONS

Handles



Thumb Switch Safety Lever Standard Lever

ABRASIVE MOUNTING

Sanding Disc

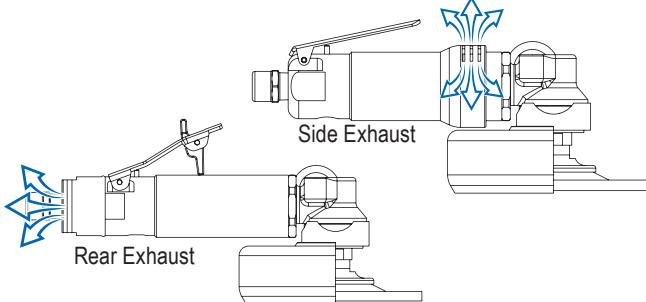
Right Angle Grinding & Cutting Tools

Application	Page Number	Tool Configuration	Abrasive Size	Model Series	Power Output
Type 27 Depressed Center Wheels	16	<ul style="list-style-type: none"> Large Bearing & Gears for High Duty Cycle & Longevity 	4 Inch (100 mm)	300RA	0.7 H.P. (600 W)
			4 1/2 Inch (115 mm)	400RA/410RA	1.2 H.P. (900 W)
			5 Inch (125 mm)	300RA	0.7 H.P. (600 W)
			5 Inch (125 mm)	400RA/410RA	1.2 H.P. (900 W)
Type 1 Cut-off (Type 41) Bonded Wheels	17	<ul style="list-style-type: none"> Large Bearing & Gears for High Duty Cycle & Longevity Extended Neck 	4 Inch (100 mm)	300RAE	0.7 H.P. (600 W)
			4 1/2 Inch (115 mm)	400RAE/410RAE	1.2 H.P. (900 W)
			5 Inch (125 mm)	300RAE	0.7 H.P. (600 W)
			6 Inch (150 mm)	400RAE	1.2 H.P. (900 W)
	18	<ul style="list-style-type: none"> Small Head for Restricted Applications Extended Neck 	4 Inch (100 mm)	320RA	0.7 H.P. (600 W)
			4 Inch (100 mm)	420RA	1.2 H.P. (900 W)
	19	<ul style="list-style-type: none"> Large Head for Larger Size Abrasives 	7 Inch (180 mm)		
			9 Inch (230 mm)	520RA	2.0 H.P. (1.5 kW)
			10 Inch (250 mm)		

LEVER STYLE



EXHAUST DIRECTION



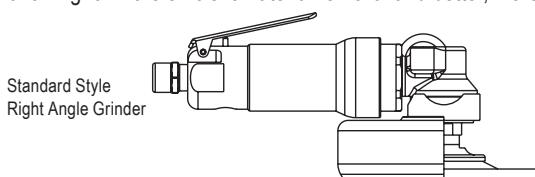
CASE MATERIAL



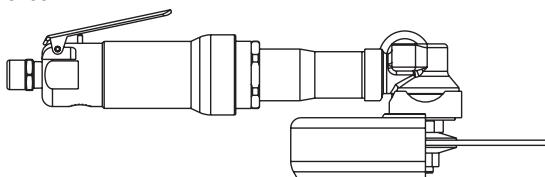
The choice of case material affects the weight and durability of the tool. By its nature, aluminum is lighter in weight than steel. Steel is more durable in aggressive environments.

Extended Neck vs Standard

Extended neck tools allow the operator to reach further into the workpiece. This extended reach coupled with the small heads found on Top Cat tools can allow fine finishing in the tightest of areas. Furthermore, the extended neck tools can be fitted with larger diameter abrasives allowing for more efficient material removal and better, more consistent surface finishes.



Extended Neck Right Angle Grinder



Right Angle Grinding & Cutting Tools

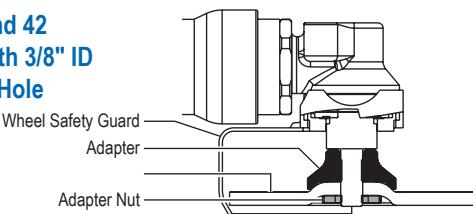
	3/8-24 x 1.0 Inch Spindle	5/8-11 x 1.0 Inch Spindle	3/8-24 x 0.6 Inch Spindle
Output Thread Size & Length			
Popular Wheel Sizes & Type	<ul style="list-style-type: none"> • 4 Inch Type 27 and Type 27 Cut-Off (Type 42) 	<ul style="list-style-type: none"> • 4 1/2 Inch Type 27 and Type 27 Cut-Off (Type 42) • 4 1/2 Inch Type 1 Cut-Off (Type 41) 	4" Type 1 Cut-Off (Type 41)
Optional Wheel Sizes & Type	<ul style="list-style-type: none"> • 4 1/2 Inch Type 27 and Type 27 Cut-Off (Type 42) • 4 1/2 Inch Type 1 Cut-Off (Type 41) • 5 Inch Type 27 and Type 27 Cut-Off (Type 42) • 5 Inch Type 1 Cut-off (Type 41) • 6 Inch Type 1 Cut-off (Type 41) 	<ul style="list-style-type: none"> • 5 Inch Type 27 and Type 27 Cut-Off (Type 42) • 5 Inch Type 1 Cut-off (Type 41) • 6 Inch Type 1 Cut-off (Type 41) 	

Wheel Mounting for Right Angle Grinders

Type 27 and 42

Wheels with 3/8" ID

Mounting Hole

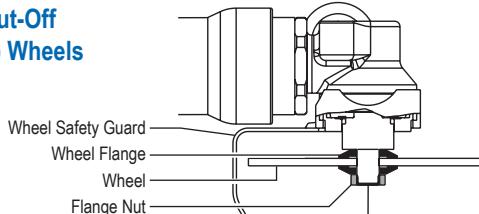


Adapter Set Number

Spindle Size

490-KR	3/8-24 x 0.6 Inch
490-K	3/8-24 x 1.0 Inch

Type 1 Cut-Off (Type 41) Wheels



Part Number

Spindle Size

Wheel Mounting Hole

400-G-42	3/8-24	4" or Smaller
1100-682		4-1/2" or Larger
1100-680	5/8-11	

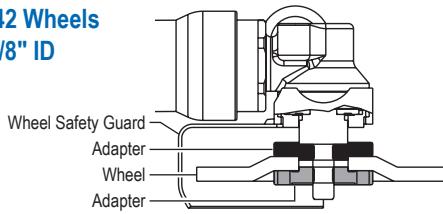
Ordered as individual parts

Wheel Nut Part Number

Spindle Size

400-G-37	3/8-24
700-34	5/8-11

Type 27 and 42 Wheels with 5/8" or 7/8" ID Mounting



Adapter Set Part Number

Spindle Size

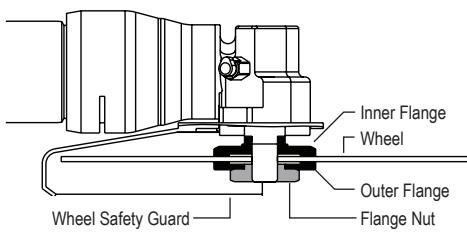
Wheel Mounting Hole

AA-ADT27-354	3/8-24	5/8"
AA-ADT27-375		7/8"
AA-ADT27-575	5/8-11	

Ordered as Adapter Sets or Individual Parts

These Adapters can be used to mount either Type 27, Type 27 Cut-Off (Type 42) or Type 1 Cut-Off (Type 41) wheels

520RA Type 1 Cut-Off (Type 41) Wheels



Note:

The 849269 depressed center wheel adapter kit is sold separately from the tool.

Type 27 Cut-Off (Type 42)
(5 Inch Max.)

Type 27 Wheels
(5 Inch Max.)

Type 1 Cut-off
(Type 41) Wheels

Depressed Center
Type 27 Wheel

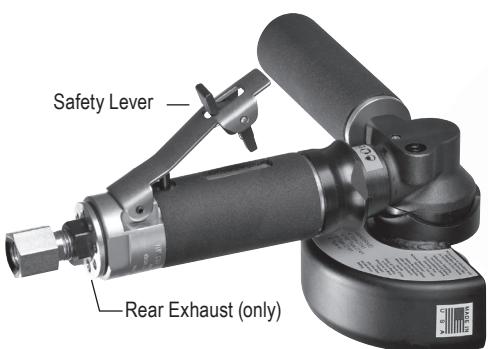
Type 1 Cut-Off
(Type 41) Wheel

Type 27 Cut-Off
(Type 42) Wheel

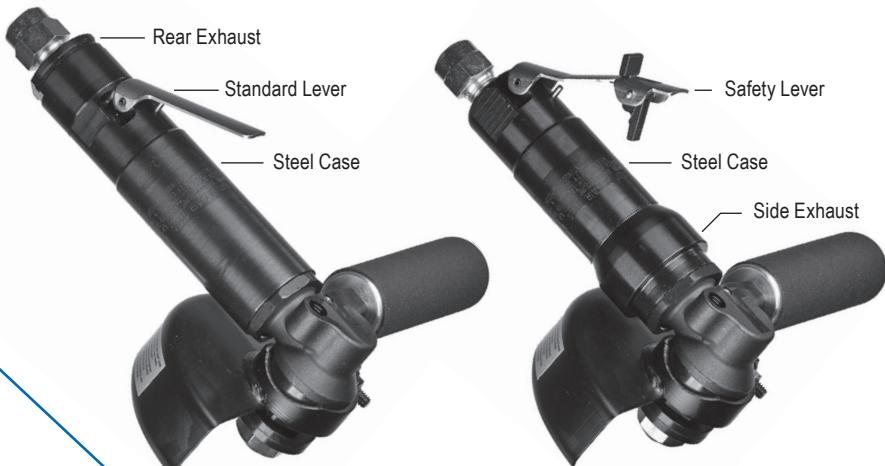
Guard Size: 4 Inch • 4 1/2 Inch
(100 mm) (115 mm)

Short Right Angle Grinders for Type 27, Type 27 Cut-Off (Type 42) & Type 1 Cut-Off (Type 41) Wheels

300RA Series



400RA/410RA Series

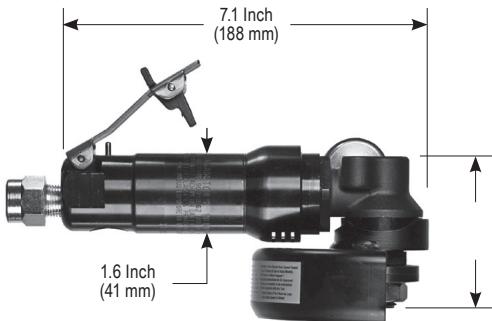
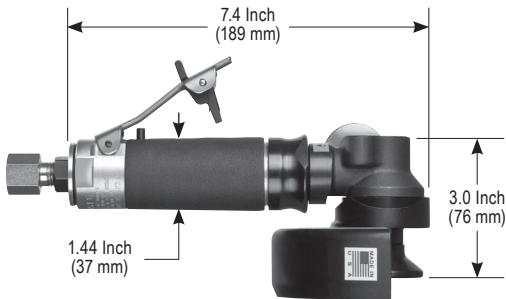


300RA4K;15000;427

400RA2RS;10000;4527

400RA2SK;10000;4527

Wheel Size	Exhaust Direction	Lever Style	MODEL NUMBER		Wheel Size	Rated Speed	Exhaust Direction	Lever Style	MODEL NUMBER	
			Type 27 Wheels (Type 42)	Type 1 or Type 1 Cut-Off Wheels (Type 41)					Type 27 Wheels (Type 42)	Type 1 or Type 1 Cut-Off Wheels (Type 41)
4 Inch (100 mm)	Rear	Standard Lever	300RA4;15000;427	300RA1;15000;441	4 1/2 Inch (115 mm)	10000 RPM	Side	Standard Lever	400RA2S;10000;4527	400RA2S;10000;4541
4 1/2 Inch (115 mm)		Safety Lever	300RA4K;15000;427	300RA1K;15000;441				Safety Lever	400RA2SK;10000;4527	400RA2SK;10000;4541
4 Inch (100 mm)	Rear	Standard Lever	300RA2;13000;4527	300RA2;13000;4541		13000 RPM	Rear	Standard Lever	400RA2RS;10000;4527	400RA2RS;10000;4541
4 1/2 Inch (115 mm)		Safety Lever	300RA2K;13000;4527	300RA2K;13000;4541				Safety Lever	400RA2RSK;10000;4527	400RA2RSK;10000;4541



0.7 H.P.
(600 W)



2.8 Lbs. (1.3 Kg) Aluminum
3.2 Lbs. (1.5 Kg) Steel



25 cfm
(11.8 L/s) Max



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



1.2 H.P.
(900 W)



3.2 Lbs. (1.5 Kg) Aluminum
3.8 Lbs. (1.7 Kg) Steel



35 cfm
(16.5 L/s) Max



3/8" NPT Inlet
1/2" (13 mm) Hose Size

STANDARD EQUIPMENT

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

Wheel Size

Versions are Available for use with
5 Inch (125 mm) Wheels.

300RA Alternate Options

Case Material



Aluminum Case

Steel Case

400RA Alternate Options

Case Material



Aluminum Case

Steel Case

Wheel Mounting



Type 27 or Type 27 Cut-Off
(Type 42) Wheel



Type 1 or Type 1 Cut-Off
(Type 41) Wheel

Depressed Center
Type 27 Wheel

 Type 1 Cut-Off
(Type 41) Wheel

 Type 27 Cut-Off
(Type 42) Wheel

Guard Size: 4 Inch • 4 1/2 Inch • 6 Inch
 (100 mm) (115 mm) (150 mm)

Extended Right Angle Grinders for Type 27, Type 27 Cut-Off (Type 42) & Type 1 Cut-Off (Type 41) Wheels

300RAE Series



400RAE/410RAE Series

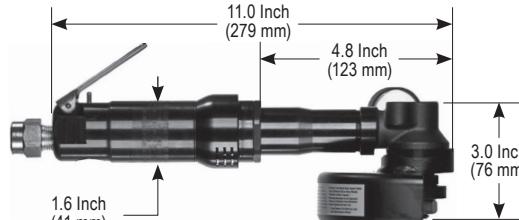

300RAE2;13000;4527
400RAE2S;10000;4527
400RAE2SRK;10000;641

Wheel Size	Exhaust Direction	Lever Style	MODEL NUMBER		Wheel Size	Rated Speed	Exhaust Direction	Lever Style	MODEL NUMBER	
			Type 27 Wheels (Type 42)	Type 1 or Type 1 Cut-Off Wheels (Type 41)					Type 27 Wheels (Type 42)	Type 1 or Type 1 Cut-Off Wheels (Type 41)
4 Inch (100 mm)	Side	Standard Lever	300RAE4;15000;427	300RAE1;15000;441		10000 RPM				
		Safety Lever	300RAE4K;15000;427	300RAE1K;15000;441						
	Rear	Standard Lever	300RAE4R;15000;427	300RAE1R;15000;441						
		Safety Lever	300RAE4RK;15000;427	300RAE1RK;15000;441						
4 1/2 Inch (115 mm)	Side	Standard Lever	300RAE2;13000;4527	300RAE2;13000;4541		13000 RPM				
		Safety Lever	300RAE2K;13000;4527	300RAE2K;13000;4541						
	Rear	Standard Lever	300RAE2R;13000;4527	300RAE2R;13000;4541						
		Safety Lever	300RAE2RK;13000;4527	300RAE2RK;13000;4541						
4 1/2 Inch (115 mm)	Side	Standard Lever	400RAE2S;10000;4527	400RAE2S;10000;4541		10000 RPM				
		Safety Lever	400RAE2SK;10000;4527	400RAE2SK;10000;4541						
		Standard Lever	400RAE2SR;10000;4527	400RAE2SR;10000;4541						
		Safety Lever	400RAE2SRK;10000;4527	400RAE2SRK;10000;4541						
	Rear	Standard Lever	410RAE2S;13000;4527	410RAE2S;13000;4541		13000 RPM				
		Safety Lever	410RAE2SK;13000;4527	410RAE2SK;13000;4541						
		Standard Lever	410RAE2SR;13000;4527	410RAE2SR;13000;4541						
		Safety Lever	410RAE2SRK;13000;4527	410RAE2SRK;13000;4541						
6 Inch (150 mm) Cut-Off Only	Side	Standard Lever	400RAE2S;10000;641	400RAE2S;10000;641		10000 RPM				
		Safety Lever	400RAE2SK;10000;641	400RAE2SK;10000;641						
	Rear	Standard Lever	400RAE2SR;10000;641	400RAE2SR;10000;641						
		Safety Lever	400RAE2SRK;10000;641	400RAE2SRK;10000;641						


 0.7 H.P.
(600 W)

 3.3 Lbs. (1.5 Kg) Aluminum
3.7 Lbs. (1.7 Kg) Steel

 25 cfm
(11.8 L/s) Max

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

 1.2 H.P.
(900 W)

 3.8 Lbs. (1.7 Kg) Aluminum
4.4 Lbs. (2.0 Kg) Steel

 35 cfm
(16.5 L/s) Max

 3/8" NPT Inlet
1/2" (13 mm) Hose Size

STANDARD EQUIPMENT

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

Wheel Size

Versions are Available for use with
5 Inch (125 mm) Wheels.

300RAE Alternate Options

Case Material



Aluminum Case

Steel Case

400RAE Alternate Options

Case Material



Aluminum Case

Steel Case

Wheel Mounting


 Type 27 or Type 27 Cut-Off
(Type 42) Wheel

Depressed Center
Type 27 WheelType 1 (Type 41)
Cut-off WheelType 27 Cut-Off
(Type 42) WheelGuard Size: 4 Inch
(100 mm)

Extended Right Angle Grinders with Small Heads for Type 27 Depressed Center & Type 1 Cut-Off (Type 41) Wheels

320RA Series



320RA4K;15000;441

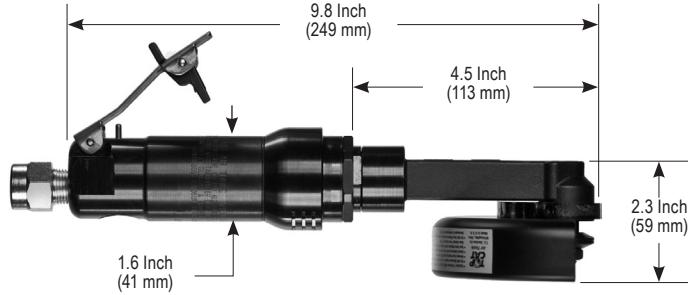
420RA Series



420RA4RS;13000;427

420RA4SK;13000;441

Wheel Size	Exhaust Direction	Lever Style	MODEL NUMBER	
			Type 27 Wheels (Type 42)	Type 1 or Type 1 Cut-Off Wheels (Type 41)
4 Inch (100 mm)	Side	Standard Lever	320RA4;15000;427	320RA4;15000;441
		Safety Lever	320RA4K;15000;427	320RA4K;15000;441
	Rear	Standard Lever	320RA4R;15000;427	320RA4R;15000;441
		Safety Lever	320RA4RK;15000;427	320RA4RK;15000;441

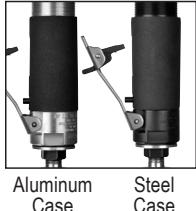
0.7 H.P.
(600 W)2.8 Lbs. (1.2 Kg) Aluminum
3.2 Lbs. (1.4 Kg) Steel25 cfm
(11.8 L/s) Max1/4" NPT Inlet
3/8" (10 mm) Hose Size1.2 H.P.
(900 W)3.1 Lbs. (1.4 Kg) Aluminum
3.5 Lbs. (1.6 Kg) Steel35 cfm
(16.5 L/s) Max3/8" NPT Inlet
1/2" (13 mm) Hose Size

STANDARD EQUIPMENT

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

320RA Alternate Options

Case Material



Aluminum Case

Steel Case

420RA Alternate Options

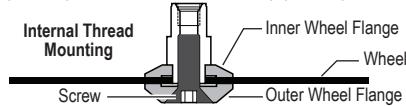
Case Material



Aluminum Case

Steel Case

Wheel Mounting

Type 27 or Type 27 Cut-Off
(Type 42) WheelType 1 or Type 1 Cut-Off
(Type 41) Wheel

Depressed Center
Type 27 Wheel

Type 1 (Type 41)
Cut-off Wheel

Type 27 Cut-Off
(Type 42) Wheel

Guard Size: 7 Inch • 9 Inch • 10 Inch
(180 mm) (230 mm) (250 mm)

Right Angle Grinders for Type 27, Type 27 Cut-Off (Type 42), Type 1 Cut-Off (Type 41) Wheels

520RA Series

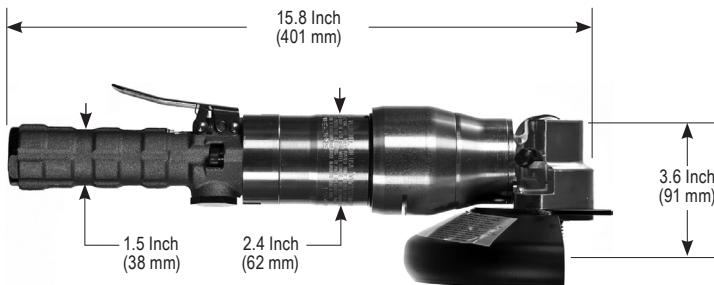
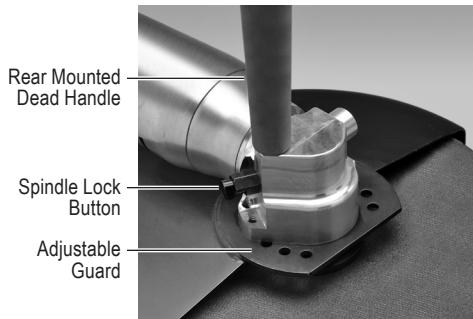


520RAK;8000;727



520RA2L;6000;1041

Wheel Size	Rated Speed	Lever Style	MODEL NUMBER	
			Type 27 Wheels (Type 42)	Type 1 or Type 1 Cut-Off Wheels (Type 41)
7 Inch (180 mm)	6000 RPM	Standard Lever	520RAL;6000;727	
		Safety Lever	520RAK;6000;727	
	8000 RPM	Standard Lever	520RAL;8000;727	
		Safety Lever	520RAK;8000;727	
9 Inch (230 mm)	6000 RPM	Standard Lever	520RAL;6000;927	
		Safety Lever	520RAK;6000;927	
10 Inch (250 mm)		Standard Lever		520RA2L;6000;1041
		Safety Lever		520RA2K;6000;1041



2.0 H.P.
(1.5 kW)



7.8 Lbs. (3.5 Kg)



20 cfm (9.4 L/s) Free Speed
40 cfm (18.9 L/s) Max



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

STANDARD EQUIPMENT

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

520RA Alternate Options



Type 27 or Type 27 Cut-Off
(Type 42) Wheel



Type 1 or Type 1 Cut-Off
(Type 41) Wheel

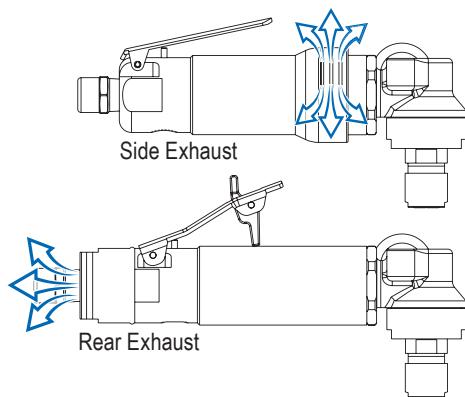
The depressed center wheel adapters (P/N: 849269) are not supplied as standard equipment with the tools. If you are using a wheel that requires adapters, they must be purchased separately.

20		<ul style="list-style-type: none"> • Large Bearing & Gears for High Duty Cycle & Longevity 	300RAD	0.7 H.P. (600 W)
21		<ul style="list-style-type: none"> • Large Bearing & Gears for High Duty Cycle & Longevity • Extended Neck 	410RAD	1.2 H.P. (900 W)
22		<ul style="list-style-type: none"> • Small Head for Restricted Applications 	300RAED	0.7 H.P. (600 W)
23		<ul style="list-style-type: none"> • Small Head for Restricted Applications • Extended Neck 	410RAED	1.2 H.P. (900 W)
24		<ul style="list-style-type: none"> • Vertical Motor Design • No Gears 	347RAD	0.7 H.P. (600 W)
		<ul style="list-style-type: none"> • Carbide Burrs • Mounted Stones • Flap Wheels • Sanding Abrasives w/Shank Mounted Backing Pad (3/8 Inch Shank Size Max.) 	340RAD	
		<ul style="list-style-type: none"> • Carbide Burrs • Mounted Stones • Flap Wheels • Sanding Abrasives w/Shank Mounted Backing Pad (2 Inch Size Max.) (1/4 Inch Shank Size Max.) 	320RAD	0.7 H.P. (600 W)
		<ul style="list-style-type: none"> • Carbide Burrs • Mounted Stones • Flap Wheels • Sanding Abrasives w/Shank Mounted Backing Pad (1/4 Inch Shank Size Max.) 	420RAD	1.2 H.P. (900 W)
		<ul style="list-style-type: none"> • Carbide Burrs • Mounted Stones • Flap Wheels • Sanding Abrasives w/Shank Mounted Backing Pad (1/4 Inch Shank Size Max.) 	300VGE	0.7 H.P. (600 W)

LEVER STYLE



EXHAUST DIRECTION



CASE MATERIAL



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

Right Angle Die Grinders

1/4 Inch (6 mm) - 3/8 Inch (8 mm) Mandrel Size (3/8 Inch Max.)



- 300RAD/300RAED
- 410RAD/410RAED

1/8 Inch (3 mm) - 1/4 Inch (6 mm) Mandrel Size (1/4 Inch Max.)



- 330RAD/340RAD
- 320RAD/420RAD



Carbide Burrs

Cartridge Roll w/ Rubber Expanding Wheel

Flap Wheels

Mounted Stones

Sandpaper

Surface Finishing/Conditioning Wheels

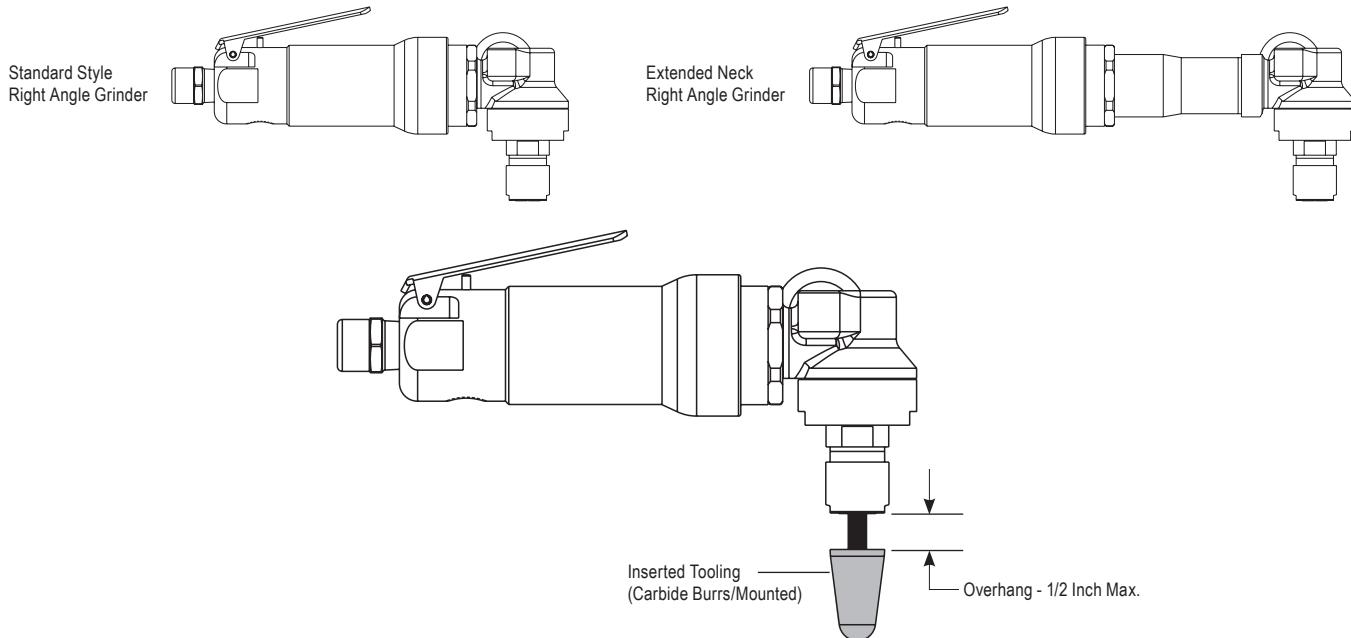
Cartridge Rolls

Your Abrasive/Mounting Accessory must be rated at higher speeds than the rating on the tools.

Please consult the abrasive manufacturer for proper speed ratings.

Extended 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.



Short Right Angle Collet Grinders

300RAD Series



300RADK;15000;1/4

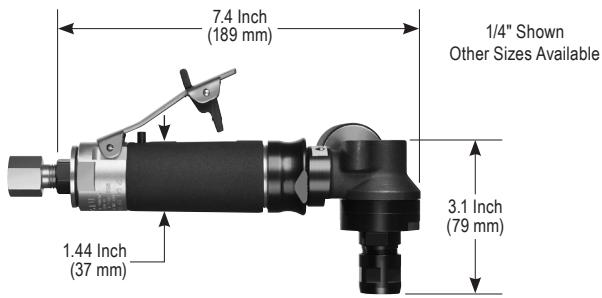
410RAD Series



410RADSK;13000;1/4

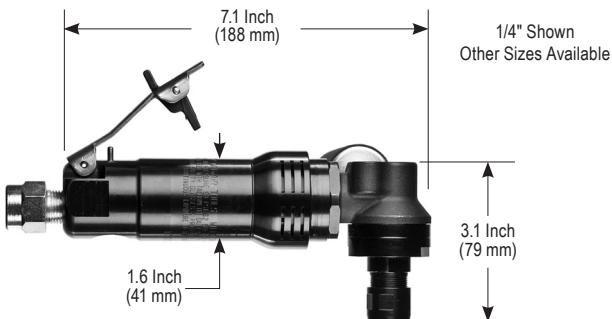
410RADRS;13000;1/4

Lever Style	MODEL NUMBER	Exhaust Direction	Lever Style	MODEL NUMBER
Standard Lever	300RAD;15000;1/4	Side	Standard Lever	410RADS;13000;1/4
Safety Lever	300RADK;15000;1/4		Safety Lever	410RADSK;13000;1/4
		Rear	Standard Lever	410RADRS;13000;1/4
			Safety Lever	410RADRSK;13000;1/4


 0.7 H.P.
(600 W)

 2.2 Lbs. (1.0 Kg) Aluminum
2.8 Lbs. (1.3 Kg) Steel

 25 cfm
(11.8 L/s) Max

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

 1.2 H.P.
(900 W)

 2.6 Lbs. (1.2 Kg) Aluminum
3.2 Lbs. (1.7 Kg) Steel

 35 cfm
(16.5 L/s) Max

 3/8" NPT Inlet
1/2" (13 mm) Hose Size

STANDARD EQUIPMENT

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



The ER Heavy Duty Collet is Standard Equipment on 300RAD & 410RAD Series.

300RAD Alternate Options



Aluminum Case



Safety Lever Standard Lever

410RAD Alternate Options



Aluminum Case

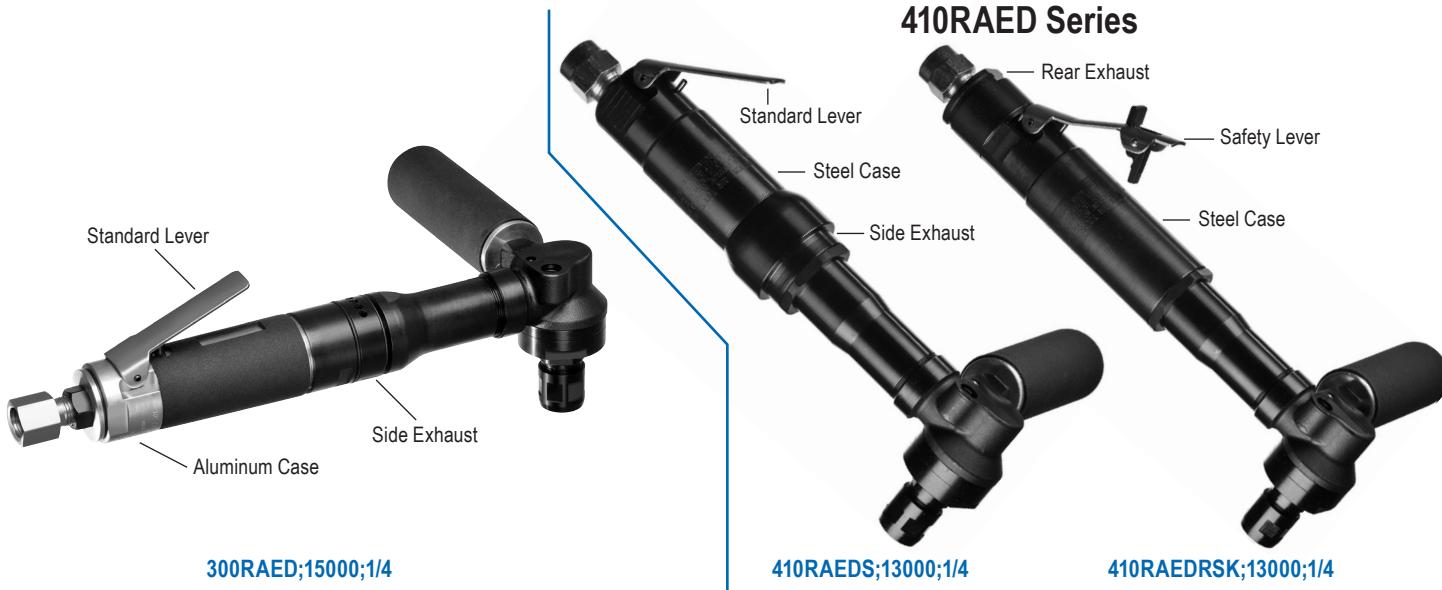


Rear Exhaust Side Exhaust

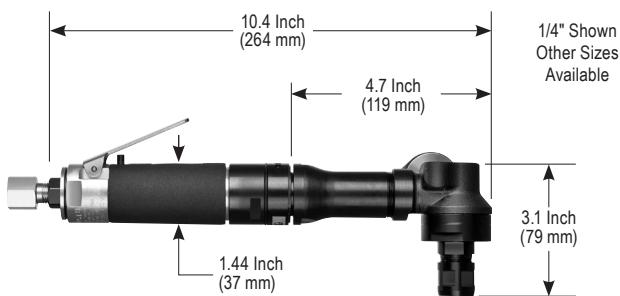
Abrasive Mounting



*APPLIES TO BOTH TOOL SERIES

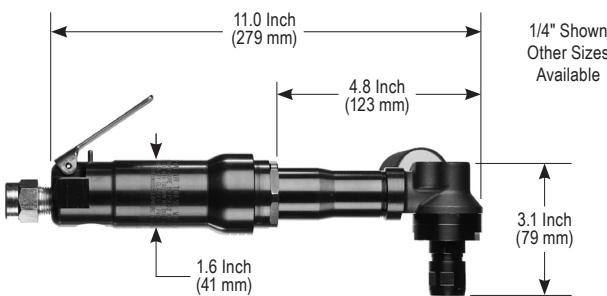


Exhaust Direction	Lever Style	MODEL NUMBER	Exhaust Direction	Lever Style	MODEL NUMBER
Side	Standard Lever	300RAED;15000;1/4	Side	Standard Lever	410RAEDS;13000;1/4
	Safety Lever	300RAEDK;15000;1/4		Safety Lever	410RAEDSK;13000;1/4
Rear	Standard Lever	300RAEDR;15000;1/4	Rear	Standard Lever	410RAEDRS;13000;1/4
	Safety Lever	300RAEDRK;15000;1/4		Safety Lever	410RAEDRSK;13000;1/4


HP
0.7 H.P.
(600 W)

Lbs
2.7 Lbs. (1.2 Kg) Aluminum
3.1 Lbs. (1.4 Kg) Steel

cfm
25 cfm
(11.8 L/s) Max

SUPPLY
1/4" NPT Inlet
3/8" (10 mm) Hose Size

HP
1.2 H.P.
(900 W)

Lbs
3.2 Lbs. (1.2 Kg) Aluminum
3.8 Lbs. (1.4 Kg) Steel

cfm
35 cfm
(16.5 L/s) Max

SUPPLY
3/8" NPT Inlet
1/2" (13 mm) Hose Size

STANDARD EQUIPMENT

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



The ER Heavy Duty Collet is Standard Equipment on 300RAED & 410RAED Series.

300RAED Alternate Options

Case Material	Lever Style*
Aluminum Case	Safety Lever
Steel Case	Standard Lever

*APPLIES TO BOTH TOOL SERIES

410RAED Alternate Options

Case Material	Exhaust Direction
Aluminum Case	Rear Exhaust
Steel Case	Side Exhaust

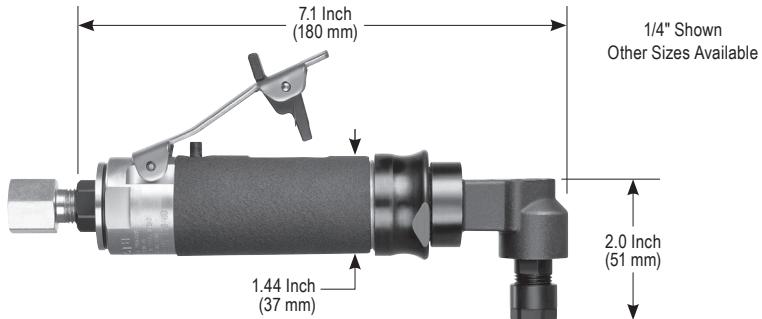
Abrasive Mounting


Short Right Angle Collet Grinders

347RAD/340RAD Series


347RADK;12000;1/4

Rated Speed	Lever Style	MODEL NUMBER
12,000 RPM	Standard Lever	347RAD;12000;1/4
	Safety Lever	347RADK;12000;1/4
20,000 RPM	Standard Lever	340RAD;20000;1/4
	Safety Lever	340RADK;20000;1/4


 0.7 H.P.
(600 W)

 1.6 Lbs. (0.7 Kg) Aluminum
2.0 Lbs. (0.9 Kg) Steel

 25 cfm
(11.8 L/s) Max

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


STANDARD EQUIPMENT

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



The ER Heavy Duty Collet is Standard Equipment on 347RAD & 340RAD Series.

347RAD/340RAD Alternate Options

Case Material

Lever Style



Aluminum Case



Steel Case



Safety Lever



Standard Lever

Abrasive Mounting



Extended Right Angle Collet Grinders

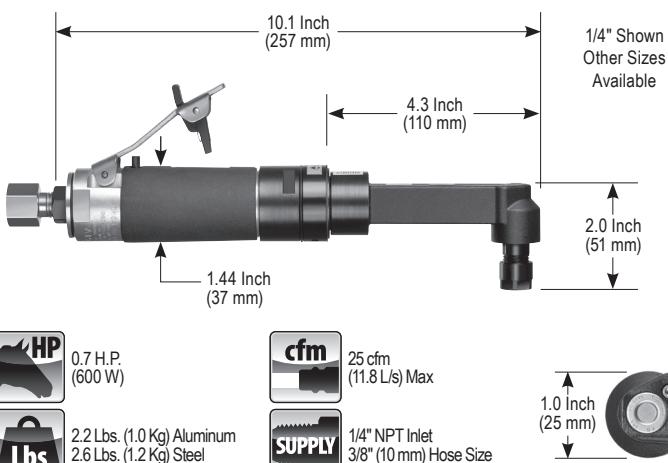
320RAD Series


320RADK;20000;1/4

420RAD Series

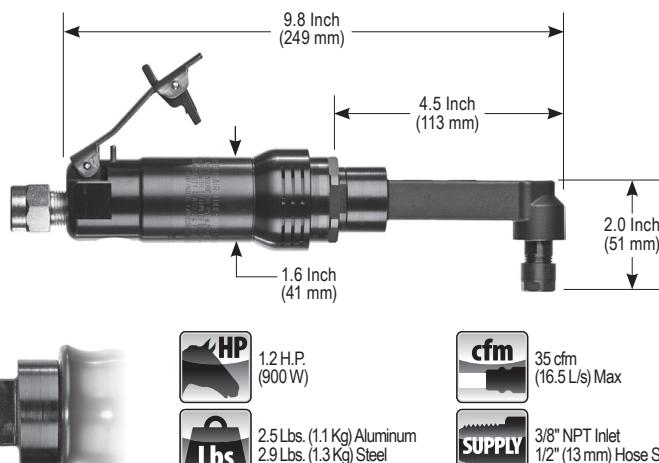

420RADSK;13000;1/4
420RADRS;13000;1/4

Exhaust Direction	Lever Style	MODEL NUMBER	Exhaust Direction	Lever Style	MODEL NUMBER
Side	Standard Lever	320RAD;20000;1/4	Side	Standard Lever	420RADSK;13000;1/4
	Safety Lever	320RADK;20000;1/4		Safety Lever	420RADSK;13000;1/4
Rear	Standard Lever	320RADR;20000;1/4	Rear	Standard Lever	420RADRS;13000;1/4
	Safety Lever	320RADRK;20000;1/4		Safety Lever	420RADRSK;13000;1/4


 0.7 H.P.
(600 W)

 25 cfm
(11.8 L/s) Max

 2.2 Lbs. (1.0 Kg) Aluminum
2.6 Lbs. (1.2 Kg) Steel

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

 1.2 H.P.
(900 W)

 35 cfm
(16.5 L/s) Max

 2.5 Lbs. (1.1 Kg) Aluminum
2.9 Lbs. (1.3 Kg) Steel

 3/8" NPT Inlet
1/2" (13 mm) Hose Size

STANDARD EQUIPMENT

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



The ER Heavy Duty Collet is Standard Equipment on 320RAD & 420RAD Series.

320RAD Alternate Options

Case Material



Aluminum Case

Steel Case

Lever Style*



Safety Lever

Standard Lever

420RAD Alternate Options

Case Material



Aluminum Case

Steel Case

Exhaust Direction*



Rear Exhaust

Side Exhaust

Abrasive Mounting



*APPLIES TO BOTH TOOL SERIES

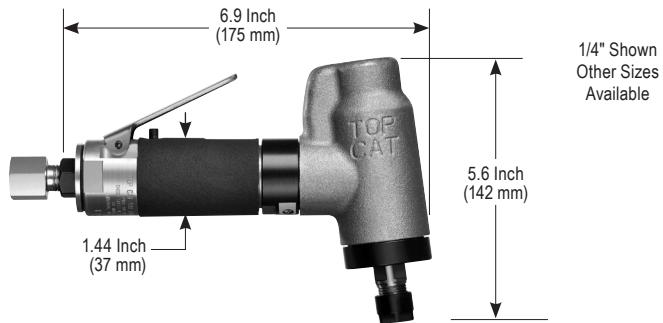
Vertical Collet Grinders

300VGE Series



300VGE;25000;1/4

	Rated Speed	Lever Style	MODEL NUMBER
Double Front Bearing ER Style Insert Collet 3/8 Inch (8 mm) Maximum	30,000 RPM	Standard Lever	300VGE;30000;1/4
		Safety Lever	300VGEK;30000;1/4
	25,000 RPM	Standard Lever	300VGE;25000;1/4
		Safety Lever	300VGEK;25000;1/4
	20,000 RPM	Standard Lever	300VGE;20000;1/4
		Safety Lever	300VGEK;20000;1/4
	18,000 RPM	Standard Lever	300VGE;18000;1/4
		Safety Lever	300VGEK;18000;1/4


 0.7 H.P.
(600 W)


2.1 Lbs. (1.0 Kg)


 25 cfm
(11.8 L/s) Max

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

STANDARD EQUIPMENT

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



The ER Heavy Duty Collet is Standard Equipment on 300VGE Series.

300VGE Alternate Options

Lever Style



Safety Lever Standard Lever

Abrasive Mounting



Right Angle Sanders, Buffers & Polishers

Surface Conditioning Abrasives	Page Number	Tool Configuration	Abrasive Size	Model Series	Power Output	
Sanding Paper or Fiber Discs	28		<ul style="list-style-type: none"> Large Bearing & Gears for High Duty Cycle & Longevity 	3 Inch (75 mm)	300RA 307RA 400RA 410RA 407RA	0.7 H.P. (600 W)
Non-Woven Nylon Web or Convolute Abrasives	29		<ul style="list-style-type: none"> Large Bearing & Gears for High Duty Cycle & Longevity Extended Neck 	3 Inch (75 mm)	300RAE 317RAE 307RAE 400RAE 410RAE 407RAE	0.7 H.P. (600 W)
	30		<ul style="list-style-type: none"> Small Head for Restricted Applications 	2 Inch (50 mm)	347RA 340RA	0.7 H.P. (600 W)
	31		<ul style="list-style-type: none"> Small Head for Restricted Applications Extended Neck 	2 Inch (50 mm)	320RA 420RA	0.7 H.P. (600 W) 1.2 H.P. (900 W)
	32		<ul style="list-style-type: none"> Extremely Small Head for Restricted Applications Extended Neck 	2 Inch (50 mm)	3101RA 3701RA	0.7 H.P. (600 W)
Sanding Pads Shown on Tools to Illustrate the Sanding Application. Sanding Accessories are Not Supplied as Standard Equipment with Tools.	33		<ul style="list-style-type: none"> Heavy-Duty, Large Head for Longer Life. 	5 Inch (125 mm) 7 Inch (180 mm)	4620RA 4520RA 520RA	1.2 H.P. (900 W) 2.0 H.P. (1.5 kW)
	34		<ul style="list-style-type: none"> Planetary Gear Systems for Low Speed Applications 	5 Inch (125 mm)	300RA(X)M 310RA(X)M 400RA(X)M 410RA(X)M 4620RA(X)M	0.7 H.P. (600 W) 1.2 H.P. (900 W)
	35		<ul style="list-style-type: none"> Planetary Gear Systems for Low Speed Applications Extended Neck 	5 Inch (125 mm)	300RAE(X)M 310RAE(X)M 400RAE(X)M 410RAE(X)M	0.7 H.P. (600 W) 1.2 H.P. (900 W)

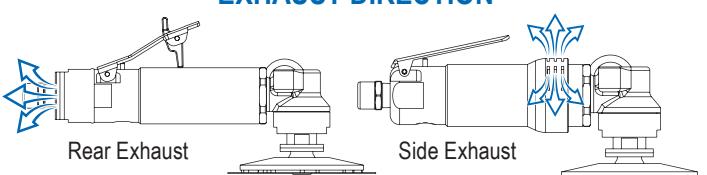
LEVER STYLE



Safety Lever

Regular Lever

EXHAUST DIRECTION



Rear Exhaust

Side Exhaust

Rear exhaust overhose for the 300 Series

Only available on Rear Exhaust tools.

Rear exhaust overhose for the 400 Series

Only available on Rear Exhaust tools.

CASE MATERIAL



Aluminum Case Material

Steel Case Material

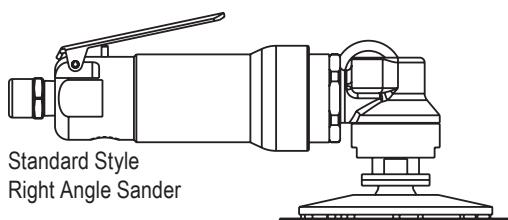
The choice of case material affects the weight and durability of the tool. By its nature, aluminum is lighter in weight than steel. Steel is more durable in aggressive environments.

Right Angle Sanders, Buffers & Polishers

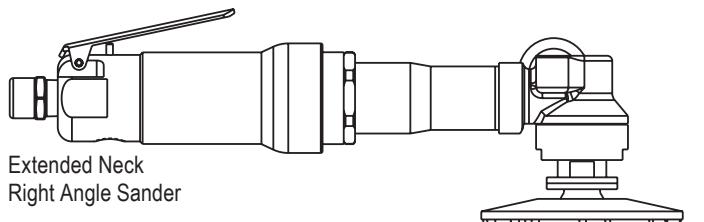
	3/8-24 x 1.0 Inch Spindle	5/8-11 x 1.0 Inch Spindle	1/4-20 X 1/2 Inch Spindle
Output Thread Size & Length			
Popular Sanding Pad Sizes	• 4 Inch	• 5 Inch • 7 Inch	• 2 Inch • 3 Inch
Optional Sanding Pad Sizes	• 5 Inch	• 4 Inch	

Extended Neck vs Standard

Extended neck tools allow the operator to reach further into the work-piece. This extended reach coupled with the small heads found on Top Cat tools can allow fine finishing in the tightest of areas. Furthermore, the extended neck tools can be fitted with larger diameter abrasives allowing for more efficient material removal and better, more consistent surface finishes.

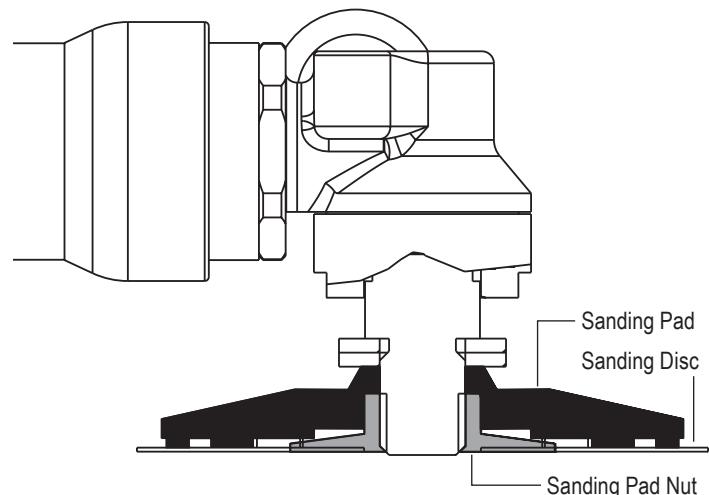


Standard Style Right Angle Sander

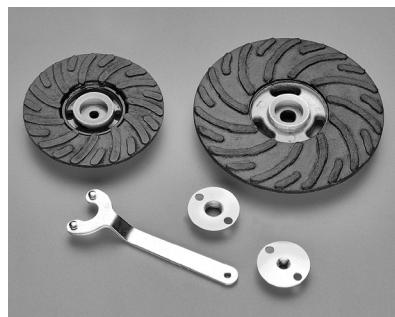


Extended Neck Right Angle Sander

Sanding Disc Mounting for Right Angle Sanders



Sanding Pads Shown on Tools to Illustrate the Sanding Application. Sanding Accessories are Not Supplied as Standard Equipment with Tools.



Spiralcool® Pads

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



Recommended Maximum Backing Pad Size: 3 Inch • 4 Inch • 4 1/2 Inch • 5 Inch
 (75 mm) (100 mm) (115 mm) (125 mm)

Short Right Angle Sanders, Buffers & Polishers for Surface Finishing Abrasives

300RA Series & 307RA Series



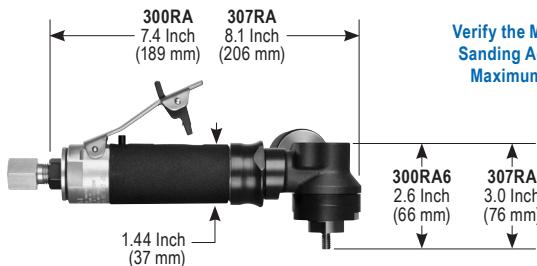
400RA Series & 407RA Series



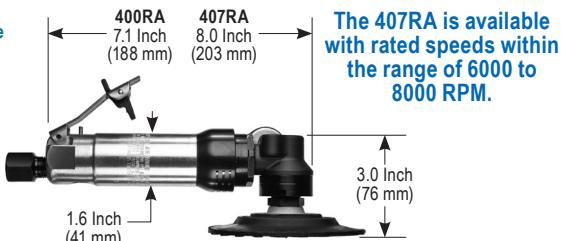
RIGHT ANGLE SANDERS

Recommended Maximum Sanding Pad Size	Exhaust Direction	Spindle Output	Lever Style	Model Number	Recommended Maximum Sanding Pad Size	Exhaust Direction	Spindle Output	Lever Style	Model Number	
3 Inch (75 mm)	Rear	1/4-20	Standard Lever	300RA6;15000	4 Inch (100 mm)	Side	3/8-24	Standard Lever	400RA4;10000;SP	
4 Inch (100 mm)			Safety Lever	300RA6K;15000				Safety Lever	400RA4K;10000;SP	
4 1/2 Inch (115 mm)		3/8-24	Standard Lever	307RA4;10000;SP		Rear		Standard Lever	400RA4R;10000;SP	
5 Inch (125 mm)			Safety Lever	307RA4K;10000;SP				Safety Lever	400RA4KR;10000;SP	
3 Inch (75 mm)		5/8-11	Standard Lever	300RA2;13000;SP		Side		Standard Lever	410RA2;13000;SP	
4 Inch (100 mm)			Safety Lever	300RA2K;13000;SP				Safety Lever	410RA2K;13000;SP	
4 1/2 Inch (115 mm)		5/8-11	Standard Lever	307RA2;10000;SP		Rear		Standard Lever	410RA2R;13000;SP	
5 Inch (125 mm)			Safety Lever	307RA2K;10000;SP				Safety Lever	410RA2KR;10000;SP	

The 307RA is available with rated speeds within the range of 7000 to 10000 RPM.



Verify the Maximum Rated Speed of the Sanding Accessory Is Higher than the Maximum Rated Speed of the Tool.



The 407RA is available with rated speeds within the range of 6000 to 8000 RPM.



0.7 H.P.
(600 W)



300RA: 25 cfm (11.8 L/s) Max
307RA: 15 cfm (7.1 L/s) Free Speed
25 cfm (11.8 L/s) Max



2.6 Lbs. (1.2 Kg) Aluminum
3.0 Lbs. (1.4 Kg) Steel



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



1.2 H.P.
(900 W)



400RA: 35 cfm (16.5 L/s) Max
407RA: 20 cfm (9.4 L/s) Free Speed
35 cfm (16.5 L/s) Max



3.0 Lbs. (1.4 Kg) Aluminum
3.6 Lbs. (1.6 Kg) Steel



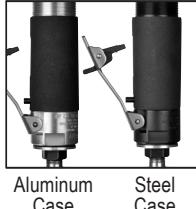
3/8" NPT Inlet
1/2" (13 mm) Hose Size

STANDARD EQUIPMENT

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

300RA & 307RA Alternate Options

Case Material



300-400RA & 307-407RA Alternate Options

Lever Style



400RA & 407RA Alternate Options

Case Material



Surface Conditioning Abrasive Mounting





Recommended Maximum Backing Pad Size: 3 Inch • 4 Inch • 4 1/2 Inch • 5 Inch
 (75 mm) (100 mm) (115 mm) (125 mm)

Extended Right Angle Sanders, Buffers & Polishers for Surface Finishing Abrasives

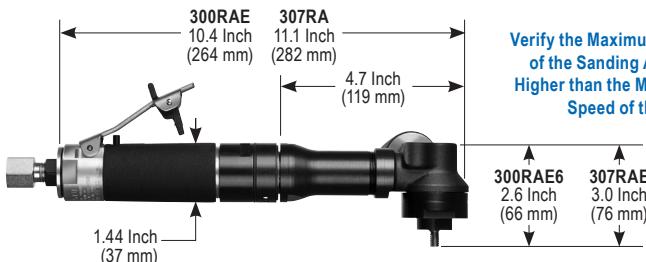
300RAE Series & 307RAE/317RAE Series



Sanding Pads Shown on Tools to Illustrate the Sanding Application.
 Sanding Accessories are Not Supplied as Standard Equipment with Tools.

307RAE2K;10000;SP

Recommended Maximum Sanding Pad Size	Exhaust Direction	Spindle Output	Lever Style	Model Number	Recommended Maximum Sanding Pad Size	Exhaust Direction	Spindle Output	Lever Style	Model Number
3 Inch (75 mm)	Rear	1/4-20	Standard Lever	300RAE6;15000	4 Inch (100 mm)	Side	3/8-24	Standard Lever	400RAE4;10000;SP
4 Inch (100 mm)			Safety Lever	300RAE6K;15000				Safety Lever	400RAE4K;10000;SP
4 1/2 Inch (115 mm)		3/8-24	Standard Lever	317RAE4;12000;SP		Rear	5/8-11	Standard Lever	400RAE4R;10000;SP
5 Inch (125 mm)			Safety Lever	317RAE4K;12000;SP				Safety Lever	400RAE4KR;10000;SP
307RAE2;13000;SP		5/8-11	Standard Lever	300RAE2;13000;SP		4 1/2 Inch (115 mm)	Side	Standard Lever	410RAE2;13000;SP
307RAE2K;10000;SP			Safety Lever	300RAE2K;13000;SP				Safety Lever	410RAE2K;13000;SP
307RAE2;10000;SP		5/8-11	Standard Lever	307RAE2;10000;SP		Rear	5/8-11	Standard Lever	410RAE2R;13000;SP
307RAE2K;10000;SP			Safety Lever	307RAE2K;10000;SP				Safety Lever	410RAE2KR;13000;SP
The 307RAE is available with rated speeds within the range of 7000 to 10000 RPM.			5 Inch (125 mm)	Side		Standard Lever	400RAE2;10000;SP		
						Safety Lever	400RAE2K;10000;SP		



0.7 H.P.
(600 W)



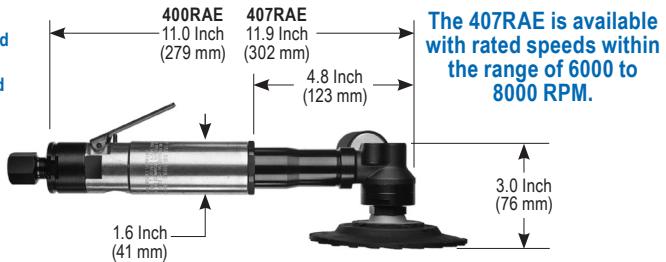
3.1 Lbs. (1.4 Kg) Aluminum
3.5 Lbs. (1.6 Kg) Steel



300RAE: 25 cfm (11.8 L/s) Max
307RAE: 15 cfm (7.1 L/s) Free Speed
25 cfm (11.8 L/s) Max



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



1.2 H.P.
(900 W)



3.6 Lbs. (1.6 Kg) Aluminum
4.2 Lbs. (1.9 Kg) Steel



400RAE: 35 cfm (16.5 L/s) Max
407RAE: 20 cfm (9.4 L/s) Free Speed
35 cfm (16.5 L/s) Max



3/8" NPT Inlet
1/2" (13 mm) Hose Size

STANDARD EQUIPMENT

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

300RAE & 307RAE Alternate Options

Lever Style



300-400RAE & 307-407RAE Alternate Options

Case Material



400RAE & 407RAE Alternate Options

Case Material



Surface Conditioning Abrasive Mounting





Recommended Maximum Backing Pad Size: 2 Inch
(50 mm)

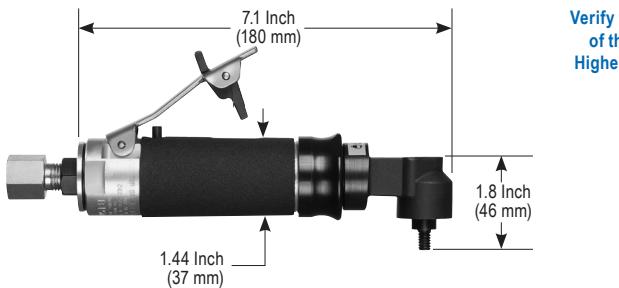
Short Right Angle Sanders, Buffers & Polishers for Surface Finishing Abrasives

347RA/340RA Series



347RA6K;12000

Recommended Maximum Sanding Pad Size	Rated Speed	Exhaust Direction	Lever Style	MODEL NUMBER	
2 Inch (50 mm) 1/4-20 Spindle Output Thread	12000 RPM	Rear	Standard Lever	347RA6;12000	
			Safety Lever	347RA6K;12000	
	20000 RPM		Standard Lever	340RA6;20000	
			Safety Lever	340RA6K;20000	



Verify the Maximum Rated Speed of the Sanding Accessory is Higher than the Maximum Rated Speed of the Tool.



0.7 H.P.
(600 W)



1.5 Lbs. (0.7 Kg) Aluminum
1.9 Lbs. (0.9 Kg) Steel



25 cfm
(11.8 L/s) Max



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

STANDARD EQUIPMENT

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

347RA/340RA Alternate Options



Case Material



Lever Style

Surface Conditioning Abrasive Mounting





Recommended Maximum Backing Pad Size: 2 Inch
(50 mm)

Extended Right Angle Sanders, Buffers & Polishers for Surface Finishing Abrasives

320RA Series



320RA6K;20000

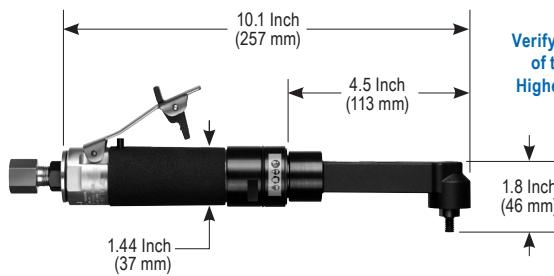
420RA Series



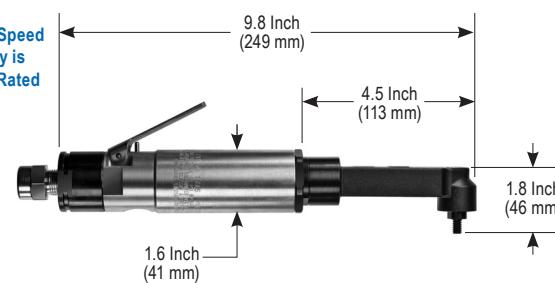
420RA6R;13000

420RA6K;13000

Recommended Maximum Sanding Pad Size	Exhaust Direction	Lever Style	MODEL NUMBER	Recommended Maximum Sanding Pad Size	Exhaust Direction	Lever Style	MODEL NUMBER
2 Inch (50 mm) 1/4-20 Spindle Output Thread	Side	Standard Lever	320RA6;20000	2 Inch (50 mm) 1/4-20 Spindle Output Thread	Side	Standard Lever	420RA6;13000
		Safety Lever	320RA6K;20000			Safety Lever	420RA6K;13000
	Rear	Standard Lever	320RA6R;20000		Rear	Standard Lever	420RA6R;13000
		Safety Lever	320RA6KR;20000			Safety Lever	420RA6KR;13000



Verify the Maximum Rated Speed of the Sanding Accessory is Higher than the Maximum Rated Speed of the Tool.



0.7 H.P.
(600 W)



2.1 Lbs. (1.0 Kg) Aluminum
2.5 Lbs. (1.1 Kg) Steel



25 cfm
(11.8 L/s) Max



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



1.2 H.P.
(900 W)



2.4 Lbs. (1.1 Kg) Aluminum
3.0 Lbs. (1.4 Kg) Steel



35 cfm
(16.5 L/s) Max



3/8" NPT Inlet
1/2" (13 mm) Hose Size

STANDARD EQUIPMENT

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

320RA Alternate Options

Case Material



Aluminum Case
Steel Case

320-420RA Alternate Options

Lever Style



Safety Lever
Standard Lever

420RA Alternate Options

Case Material



Aluminum Case
Steel Case

Surface Conditioning Abrasive Mounting





Recommended Maximum Backing Pad Size: 2 Inch
(50 mm)

Extended Right Angle Sanders, Buffers & Polishers for Surface Finishing Abrasives

3101RA & 3701RA Series



3101RA6K;23000

Recommended Maximum Sanding Pad Size	Rated Speed	Exhaust Direction	Lever Style	MODEL NUMBER
2 Inch (50 mm) 1/4-20 Spindle Output Thread	23000 RPM	Side	Standard Lever	3101RA6;23000
			Safety Lever	3101RA6K;23000
		Rear	Standard Lever	3101RA6R;23000
			Safety Lever	3101RA6KR;23000
	15000 RPM	Side	Standard Lever	3701RA6;15000
			Safety Lever	3701RA6K;15000
		Rear	Standard Lever	3701RA6R;15000
			Safety Lever	3701RA6KR;15000



Verify the Maximum Rated Speed of the Sanding Accessory is Higher than the Maximum Rated Speed of the Tool.



0.7 H.P.
(600 W)



2.0 Lbs. (0.9 Kg) Aluminum
2.4 Lbs. (1.1 Kg) Steel



3101RA: 25 cfm (11.8 L/s) Max
3701RA: 15 cfm (7.1 L/s) Free Speed
25 cfm (11.8 L/s) Max



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

STANDARD EQUIPMENT

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

3101RA & 3701RA Alternate Options

Case Material



Aluminum Case

Steel Case

Lever Style



Safety Lever

Standard Lever

Surface Conditioning Abrasive Mounting





Recommended Maximum Backing Pad Size: 5 Inch • 7 Inch
(125 mm) (180 mm)

Extended Right Angle Sanders, Buffers & Polishers for Surface Finishing Abrasives

4520RA/4620RA Series



4520RAR;6000;SP



4520RAK;6000;SP

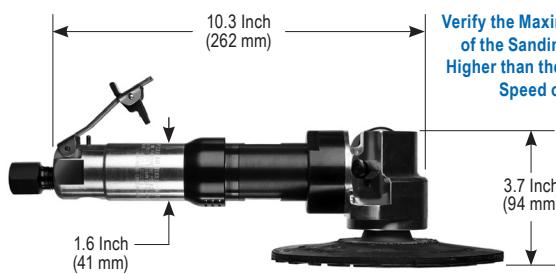
520RA Series



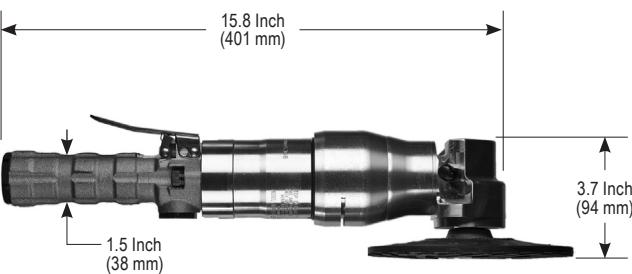
520RAK;8000;SP

Sanding Pads Shown on Tools to Illustrate the Sanding Application.
Sanding Accessories are Not Supplied as Standard Equipment with Tools.

Recommended Maximum Sanding Pad Size	Exhaust Direction	Lever Style	MODEL NUMBER	Recommended Maximum Sanding Pad Size	Lever Style	MODEL NUMBER
5 Inch (125 mm) 5/8-11 Spindle Output Thread	Side	Standard Lever	4620RA;10000;SP	7 Inch (180 mm) 5/8-11 Spindle Output Thread	Standard Lever	520RA;8000;SP
		Safety Lever	4620RAK;10000;SP			
	Rear	Standard Lever	4620RAR;10000;SP			
		Safety Lever	4620RAKR;10000;SP			
7 Inch (180 mm) 5/8-11 Spindle Output Thread	Side	Standard Lever	4520RA;6000;SP			
		Safety Lever	4520RAK;6000;SP			
	Rear	Standard Lever	4520RAR;6000;SP	7 Inch (180 mm) 5/8-11 Spindle Output Thread	Safety Lever	520RAK;8000;SP
		Safety Lever	4520RAKR;6000;SP			



Verify the Maximum Rated Speed of the Sanding Accessory is Higher than the Maximum Rated Speed of the Tool.



1.2 H.P.
(900 W)



35 cfm
(16.5 L/s) Max



5.6 Lbs. (2.5 Kg) Aluminum
6.2 Lbs. (2.8 Kg) Steel



3/8" NPT Inlet
1/2" (13mm) Hose Size



2.0 H.P.
(1.5 kW)



20 cfm (9.4 L/s) Free Speed
40 cfm (18.9 L/s) Max



7.6 Lbs. (3.4 Kg)
3/8" NPT Inlet
1/2" (13 mm) Hose Size

STANDARD EQUIPMENT

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

4520RA/4620RA Alternate Options



Safety Lever Standard Lever



Aluminum Case Steel Case



Rear Exhaust Side Exhaust

Surface Conditioning Abrasive Mounting





Recommended Maximum Backing Pad Size: 5 Inch • 7 Inch
(125 mm) (180 mm)

Geared Right Angle Sanders, Buffers & Polishers for Surface Finishing Abrasives

300/310RA(X)M Series



300RA3M2;4000;SP

Sanding Pads Shown on Tools to Illustrate the Sanding Application.
Sanding Accessories are Not Supplied as Standard Equipment with Tools.

400/410RA(X)M Series



400RA3M2K;4000;SP

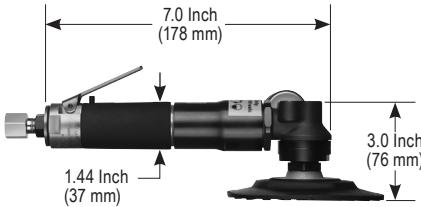
4620RA(X)M Series



4620RA3M2K;4200;SP

RIGHT ANGLE SANDERS

Recommended Maximum Sanding Pad Size	Rated Speed	Lever Style	MODEL NUMBER	Recommended Maximum Sanding Pad Size	Exhaust Direction	Rated Speed	Lever Style	MODEL NUMBER	Recommended Maximum Sanding Pad Size	Exhaust Direction	Rated Speed	Lever Style	MODEL NUMBER					
5 Inch (125 mm) 5/8-11 Spindle Output Thread	5200 RPM	Standard Lever	310RA3M2;5200;SP	5 Inch (125 mm) 5/8-11 Spindle Output Thread	Side	3800 RPM	Standard Lever	410RA3M2;3800;SP	7 Inch (180 mm) 5/8-11 Spindle Output Thread	Side	4200 RPM	Standard Lever	4620RA3M2;4200;SP					
		Safety Lever	310RA3M2K;5200;SP			2900 RPM	Standard Lever	410RA5M2;2900;SP			3100 RPM	Safety Lever	4620RA5M2;3100;SP					
	4000 RPM	Standard Lever	310RA5M2;4000;SP			1800 RPM	Standard Lever	410RA8M2;1800;SP			1900 RPM	Standard Lever	4620RA8M2;1900;SP					
		Safety Lever	310RA5M2K;4000;SP			1300 RPM	Standard Lever	400RA8M2;1300;SP			4200 RPM	Standard Lever	4620RA3M2R;4200;SP					
	2500 RPM	Standard Lever	310RA8M2;2500;SP			3800 RPM	Standard Lever	410RA3MR;3800;SP			3100 RPM	Safety Lever	4620RA5M2R;3100;SP					
		Safety Lever	310RA8M2K;2500;SP			2900 RPM	Standard Lever	410RA5M2R;2900;SP			1900 RPM	Standard Lever	4620RA8M2R;1900;SP					
	1800 RPM	Standard Lever	300RA8M2;1800;SP		Rear	1800 RPM	Standard Lever	410RA8M2R;1800;SP			4000 RPM	Safety Lever	4620RA8M2RK;4000;SP					
		Safety Lever	300RA8M2K;1800;SP			1300 RPM	Standard Lever	400RA8M2R;1300;SP			3800 RPM	Standard Lever	4620RA3M2R;3800;SP					
Note: Other Speeds Available. Contact us for Details																		
Verify the Maximum Rated Speed of the Sanding Accessory is Higher than the Maximum Rated Speed of the Tool.																		



0.7 H.P.
(600 W)



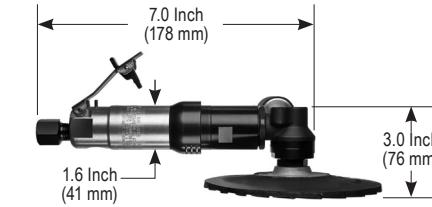
25 cfm
(11.8 L/s) Max



3.6 Lbs (1.6 Kg)
Aluminum
4.0 Lbs (1.8 Kg) Steel



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



1.2 H.P.
(900 W)



35 cfm
(16.5 L/s) Max



4.5 Lbs. (2.0 Kg)
Aluminum
5.1 Lbs. (2.3 Kg) Steel



3/8" NPT Inlet
1/2" (13 mm) Hose Size



1.2 H.P.
(900 W)



35 cfm
(16.5 L/s) Max



6.3 Lbs (2.9 Kg)
Aluminum
6.9 Lbs (3.1 Kg) Steel



3/8" NPT Inlet
1/2" (13 mm) Hose Size

STANDARD EQUIPMENT

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

300/310RA(X)M, 400/410RA(X)M & 4620RA(X)M Alternate Options



Aluminum Case

Steel Case



Safety Lever

Standard Lever



Rear Exhaust

Side Exhaust

Surface Conditioning Abrasive Mounting





Recommended Maximum Backing Pad Size: 5 Inch
(125 mm)

Extended Right Angle Sanders, Buffers & Polishers for Surface Finishing Abrasives

300/310RAE(X)M Series



300RAE3M2K;4000;SP

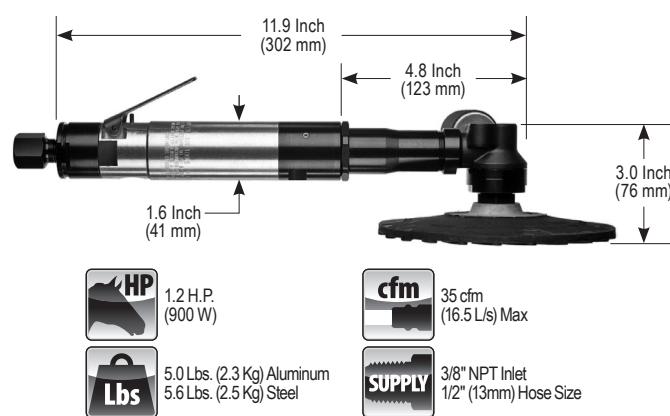
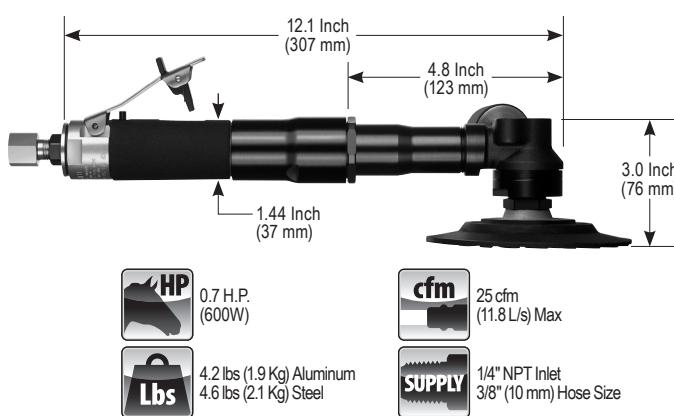
400/410RAE(X)M Series



400RAE3M2R;2900;SP

Sanding Pads Shown on Tools to Illustrate the Sanding Application.
Sanding Accessories are Not Supplied as Standard Equipment with Tools.

Recommended Maximum Sanding Pad Size	Rated Speed	Lever Style	MODEL NUMBER	Recommended Maximum Sanding Pad Size	Exhaust Direction	Rated Speed	Lever Style	MODEL NUMBER			
5 Inch (125 mm) 5/8-11 Spindle Output Thread	5200 RPM	Standard Lever	310RAE3M2;5200;SP	5 Inch (125 mm)	Side	3800 RPM	Standard Lever	410RAE3M2;3800;SP			
		Safety Lever	310RAE3M2K;5200;SP				Safety Lever	410RAE3M2K;3800;SP			
	4000 RPM	Standard Lever	310RAE5M2;4000;SP			2900 RPM	Standard Lever	410RAE5M2;2900;SP			
		Safety Lever	310RAE5M2K;4000;SP				Safety Lever	410RAE5M2K;2900;SP			
	2500 RPM	Standard Lever	310RAE8M2;2500;SP			1800 RPM	Standard Lever	410RAE8M2;1800;SP			
		Safety Lever	310RAE8M2K;2500;SP				Safety Lever	410RAE8M2K;1800;SP			
	1800 RPM	Standard Lever	300RAE8M2;1800;SP		Rear	1300 RPM	Standard Lever	400RAE8M2;1300;SP			
		Safety Lever	300RAE8M2K;1800;SP				Safety Lever	400RAE8M2K;1300;SP			
Note: Other Speeds Available. Contact us for Details						3800 RPM	Standard Lever	410RAE3M2R;3800;SP			
Verify the Maximum Rated Speed of the Sanding Accessory is Higher than the Maximum Rated Speed of the Tool.							Safety Lever	410RAE3M2RK;3800;SP			



STANDARD EQUIPMENT

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

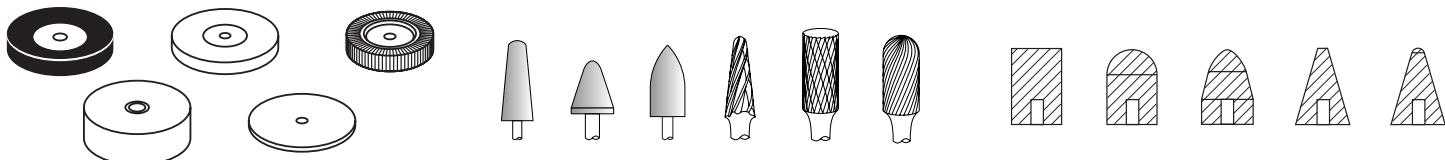
300/310RAE(X)M & 400/410RAE(X)M Alternate Options



Surface Conditioning Abrasive Mounting



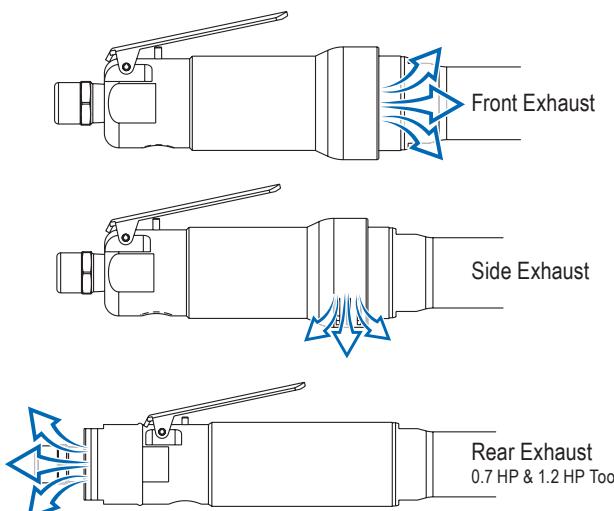
Page Number	Application	Abrasive Type/Size	Model Series	Power Output	Mounting of Abrasives
38		3 Inch (75 mm) to 4 Inch (100 mm) Type 1 Type 1 Cut-off (Type 41) Wheel	400GH4 407GH4	1.2 H.P. (900 W)	
			507H4	1.5 H.P. (1.2 kW)	
39		4 Inch (100 mm), 6 Inch (150 mm) or 8 Inch (200 mm) Type 1 Type 1 Cut-off (Type 41) Wheel	520H	2.0 H.P. (1.5 kW)	
			56H	3.0 H.P. (2.3 kW)	
			65H	4.0 H.P. (3.0 kW)	
40		3/8-24 Threaded Cone Wheels	400GH1	1.2 H.P. (900 W)	
			507H1	1.5 H.P. (1.2 kW)	
41		5/8-11 Threaded Cone Wheels	400GH2 (2 Inch Max. Diameter)	1.2 H.P. (900 W)	
			507H2 (2 Inch Max. Diameter)	1.5 H.P. (1.2 kW)	
			520HCW	2.0 H.P. (1.5 kW)	
42		Collet Mounted Abrasives • Burrs • Mounted Stones • Flap Wheels • Cartridge Rolls • Expander Wheels	300EH	0.7 H.P. (600 W)	
			300GHD		
			400GHD	1.2 H.P. (900 W)	
43		507HD	1.5 H.P. (1.2 kW)		
44		• Flap Wheels • Sanding Abrasives (5/8" or 1" ID Mount)	300GH(X)M	0.7 H.P. (600 W)	See Model Spread
			400GH(X)M	1.2 H.P. (900 W)	
			517H1M	1.5 H.P. (1.2 kW)	



LEVER STYLE



EXHAUST DIRECTION

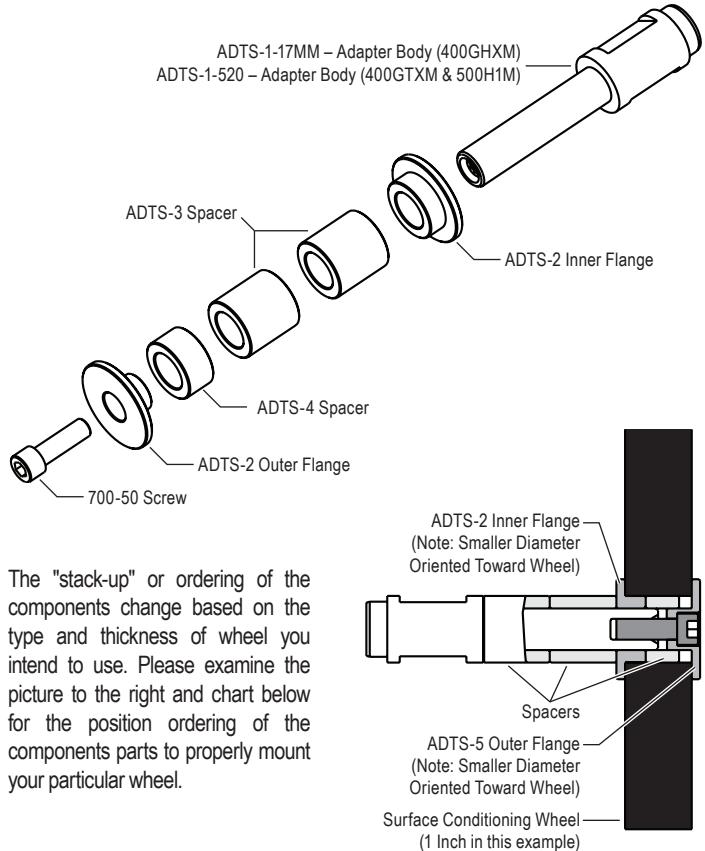


The choice of case material affects the weight and durability of the tool. By its nature, aluminum is lighter in weight than steel. Steel is more durable in aggressive environments.



THE TOP CAT® COMBINATION ARBOR

The combination arbor allows one to mount several different types of surface conditioning wheels onto our geared (low speed) horizontal sanders/polishers.



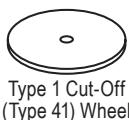
The "stack-up" or ordering of the components change based on the type and thickness of wheel you intend to use. Please examine the picture to the right and chart below for the position ordering of the components parts to properly mount your particular wheel.

POSITION OF MOUNTING ACCESSORY: (A) (B) (C) (D) (E) (F)
(Spacer or Flange Based on Thickness of Wheel)

Wheel Type & Mounting Thickness	Position from Adapter Body					
	(A)	(B)	(C)	(D)	(E)	(F)
1" Thick Flap Wheel w/ Recessed Mounting	ADTS-3 (Thick Spacer)	ADTS-3 (Thick Spacer)	ADTS-4 (Thin Spacer)	ADTS-2 (Inner Flange)	Wheel	ADTS-5 (Outer Flange)
1" Thick Surface Conditioning Wheel	ADTS-3 (Thick Spacer)	ADTS-3 (Thick Spacer)	ADTS-2 (Inner Flange)	ADTS-4 (Thin Spacer)		
2" Thick Flap Wheel w/ Recessed Mounting	ADTS-3 (Thick Spacer)	ADTS-4 (Thin Spacer)	ADTS-2 (Inner Flange)	ADTS-3 (Thick Spacer)		
2" Thick Surface Conditioning Wheel	ADTS-3 (Thick Spacer)	ADTS-2 (Inner Flange)	ADTS-3 (Thick Spacer)	ADTS-4 (Thin Spacer)		
3" Thick Flap Wheel w/ Recessed Mounting	ADTS-4 (Thin Spacer)	ADTS-2 (Inner Flange)	ADTS-3 (Thick Spacer)	ADTS-3 (Thick Spacer)		
3" Thick Surface Conditioning Wheel	ADTS-2 (Inner Flange)	ADTS-3 (Thick Spacer)	ADTS-3 (Thick Spacer)	ADTS-4 (Thin Spacer)		



Type 1
Grinding Wheel



Type 1 Cut-Off
(Type 41) Wheel

Guard Size: 3 Inch • 4 Inch
(75 mm) (100 mm) 1/2 Inch (13 mm) Max. Wheel Thickness

Horizontal Grinders for 3 Inch & 4 Inch Type 1 Wheels

400GH Series & 407GH Series



400GH4SKR;18000;301



407GH4S;15000;401

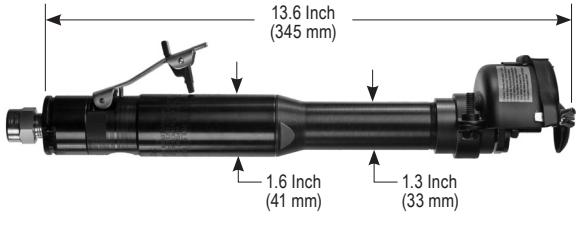
507H Series



507HK4;15000;401

Guard/Wheel Size	Exhaust Direction	Lever Style	MODEL NUMBER	Guard/Wheel Size	Exhaust Direction	Lever Style	MODEL NUMBER
3 Inch (75 mm)	Side	Standard Lever	400GH4S;18000;301	3 Inch (75 mm)	Side	Standard Lever	507HLS4;18000;301
		Safety Lever	400GH4SK;18000;301			Safety Lever	507HKS4;18000;301
	Rear	Standard Lever	400GH4SR;18000;301	4 Inch (100 mm)	Side	Standard Lever	507HLS4;15000;401
		Safety Lever	400GH4SKR;18000;301			Safety Lever	507HKS4;15000;401
4 Inch (100 mm)	Side	Standard Lever	407GH4S;15000;401			Standard Lever	507HLS4;15000;401
		Safety Lever	407GH4SK;15000;401			Safety Lever	507HKS4;15000;401

400GH



407GH



1.2 H.P.
(900 W)



400GH: 35 cfm (16.5 L/s) Max
407GH: 20 cfm (9.4 L/s) Free Speed
35 cfm (16.5 L/s) Max



4.0 Lbs. (1.8 Kg) Aluminum
4.6 Lbs. (2.1 Kg) Steel



3/8" NPT Inlet
1/2" (13 mm) Hose Size



1.5 H.P.
(1.1 kW)



7.4 Lbs. (3.4 Kg) Steel Only



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



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

STANDARD EQUIPMENT

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

400GH & 407GH Series Alternate Options

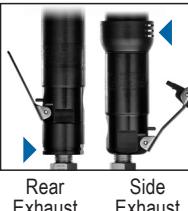
Lever Style



Case Material



Exhaust Direction



Type 1 Wheel Mounting





Guard Size: 4 Inch • 6 Inch • 8 Inch
 (100 mm) (150 mm) (200 mm) 1 Inch (25 mm) Max. Wheel Thickness

Horizontal Grinders for 6 Inch & 8 Inch Type 1 Wheels

520H Series



520HK;8000;601

56H Series

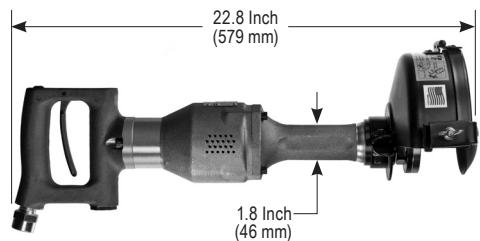
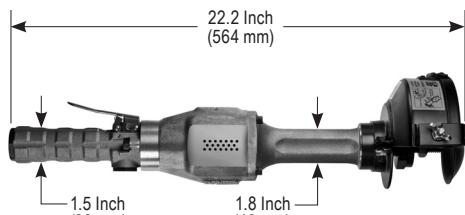
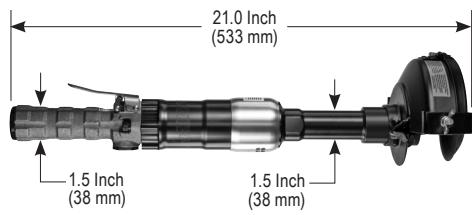


56HK;6000;601

65H Series



Guard/Wheel Size	Lever Style	MODEL NUMBER	Guard/Wheel Size	Rated Speed	Lever Style	MODEL NUMBER	Guard/Wheel Size	Rated Speed	Lever Style	MODEL NUMBER
4 Inch (100 mm)	Standard Lever	520HL;12000;401								
	Safety Lever	520HK;12000;401								
6 Inch (150 mm)	Standard Lever	520HL;8000;601	6 Inch (150 mm)	8000 RPM	Standard Lever	56HL;8000;601	6 Inch (150 mm)	6000 RPM	Standard Lever	65HL;6000;601
	Safety Lever	520HK;8000;601			Safety Lever	56HK;8000;601			Safety Lever	65HK;6000;601
					Standard Lever	56HL;6000;601			Standard Lever	65HL;6000;801
					Safety Lever	56HK;6000;601			Safety Lever	65HK;6000;801
					Standard Lever	56HL;6000;801			Standard Lever	65HL;6000;801
					Safety Lever	56HK;6000;801			Safety Lever	65HK;6000;801



2.0 H.P.
(1.5 kW)



20 cfm (9.4 L/s)
Free Speed
40 cfm (18.9 L/s) Max



10.8 Lbs. (4.9 Kg)
Steel Only



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



3.0 H.P.
(2.2 kW)



25 cfm (11.8 L/s)
Free Speed
60 cfm (28.3 L/s) Max



14.8 Lbs. (6.7 Kg)
Aluminum Only



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

STANDARD EQUIPMENT

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

520H, 56H & 65H Series Alternate Options

Handles





Horizontal Grinders for 3/8-24 Cone Wheels

400GH Series



400GHSK1;18000



400GHSR1;18000

507H Series

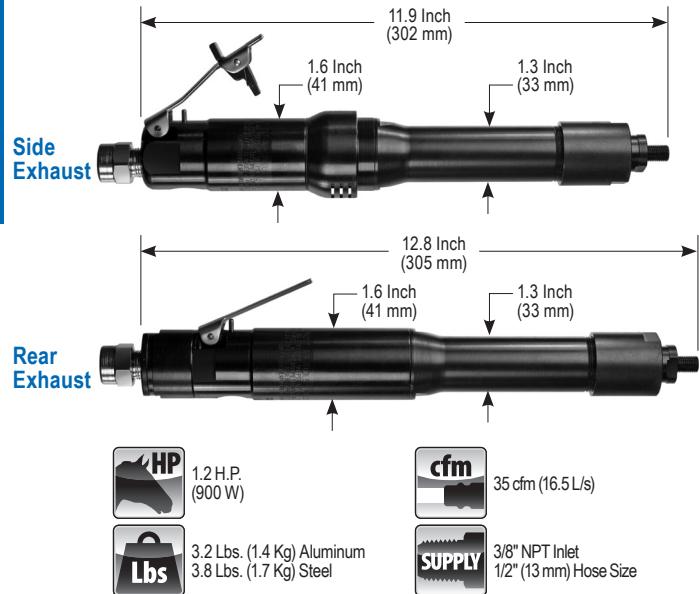


507HKS1;18000

Rated Speed	Exhaust Direction	Lever Style	MODEL NUMBER
20000 RPM	Side	Standard Lever	400GHS1;20000
		Safety Lever	400GHSK1;20000
	Rear	Standard Lever	400GHSR1;20000
		Safety Lever	400GHSKR1;20000
18000 RPM	Side	Standard Lever	400GHS1;18000
		Safety Lever	400GHSK1;18000
	Rear	Standard Lever	400GHSR1;18000
		Safety Lever	400GHSKR1;18000

Rated Speed	Exhaust Direction	Lever Style	MODEL NUMBER
18000 RPM	Side	Standard Lever	507HLS1;18000

HORIZONTAL GRINDERS



1.2 H.P.
(900 W)



3.2 Lbs. (1.4 Kg) Aluminum
3.8 Lbs. (1.7 Kg) Steel



35 cfm (16.5 L/s)



3/8" NPT Inlet
1/2" (13 mm) Hose Size



1.5 H.P.
(1.1 kW)



6.5 Lbs. (3.0 Kg) Steel Only



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

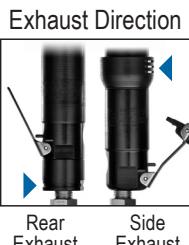
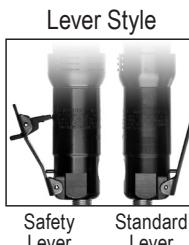


1/2" NPT Inlet
1/2" (13 mm) Hose Size

STANDARD EQUIPMENT

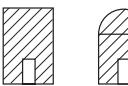
- Tool
- Operating Instructions and Service Manual
- Wrenches (sizes based on options)

400GH Series Series Alternate Options



Cone Wheel Mounting





Horizontal Grinders for 5/8-11 Cone Wheels

400GH Series



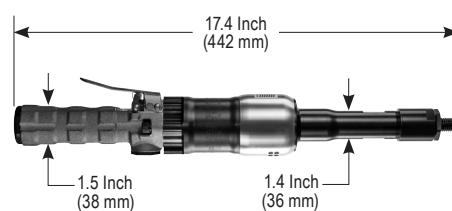
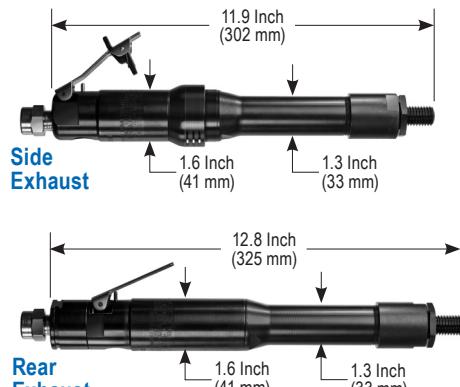
507H Series



520H Series



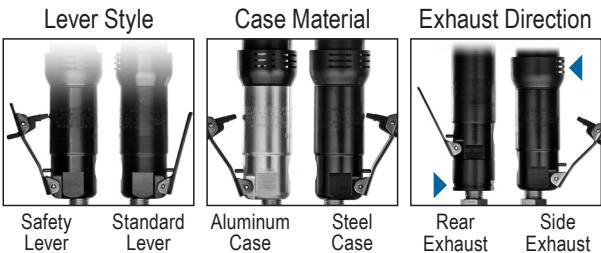
Rated Speed	Exhaust Direction	Lever Style	MODEL NUMBER	Rated Speed	Exhaust Direction	Lever Style	MODEL NUMBER	Rated Speed	Exhaust Direction	Lever Style	MODEL NUMBER
20000 RPM	Side	Standard Lever	400GHS2:20000					12000 RPM	Side	Standard Lever	520HLSCW:12000
		Safety Lever	400GHSK2:20000							Safety Lever	520HKSCW:12000
	Rear	Standard Lever	400GHSR2:20000								
		Safety Lever	400GHSRK2:20000								
18000 RPM	Side	Standard Lever	400GHS2:18000	18000 RPM	Side	Standard Lever	507HLS2:18000				
		Safety Lever	400GHSK2:18000	Safety Lever		507HKS2:18000					
	Rear	Standard Lever	400GHSR2:18000								
		Safety Lever	400GHSRK2:18000								

1.2 H.P.
(900 W)35 cfm
(16.5 L/s)3.2 Lbs. (1.4 Kg) Aluminum
3.8 Lbs. (1.7 Kg) Steel3/8" NPT Inlet
1/2" (13 mm)
Hose Size

STANDARD EQUIPMENT

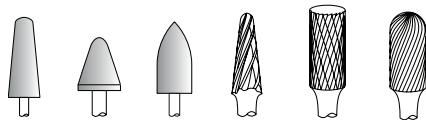
- Tool
- Operating Instructions and Service Manual
- Wrenches (sizes based on options)

400GH Series Alternate Options



507H & 520H Series Alternate Options





Collet Size: 1/4 Inch Collet • 3/8 Inch Collet
(6 mm) (10 mm)

Horizontal Die Grinders (Collet Output)

300EH Series



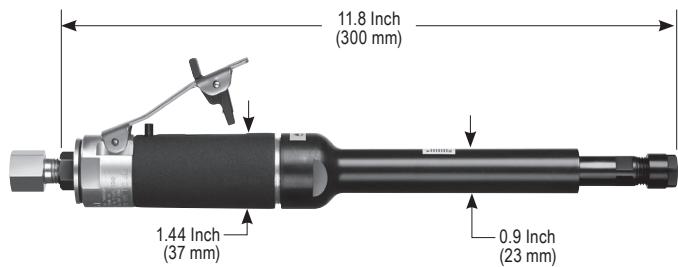
300EHK;25000;1/4

300GH Series



300GHD;25000;1/4

Collet Type/Capacity	Exhaust Direction	Rated Speed	Lever Style	MODEL NUMBER	Collet Type/Capacity	Exhaust Direction	Rated Speed	Lever Style	MODEL NUMBER			
ER Style Insert Collet 1/4 Inch or (7 mm) Maximum	Rear	30000 RPM	Standard Lever	300EH;30000;1/4	1/4 Inch Standard ER Style Insert Collet 3/8 Inch or (10 mm) Maximum	Side	30000 RPM	Standard Lever	300GHD;30000;1/4			
			Safety Lever	300EHK;30000;1/4				Safety Lever	300GHDK;30000;1/4			
		25000 RPM	Standard Lever	300EH;25000;1/4		Rear		Standard Lever	300GHDR;30000;1/4			
			Safety Lever	300EHK;25000;1/4		Side		Safety Lever	300GHDRK;30000;1/4			
						Rear		Standard Lever	300GHD;25000;1/4			
						Side		Safety Lever	300GHDK;25000;1/4			
						Rear		Standard Lever	300GHDR;25000;1/4			
						Side		Safety Lever	300GHDRK;25000;1/4			



Rear Exhaust Only



0.7 H.P.
(600 W)



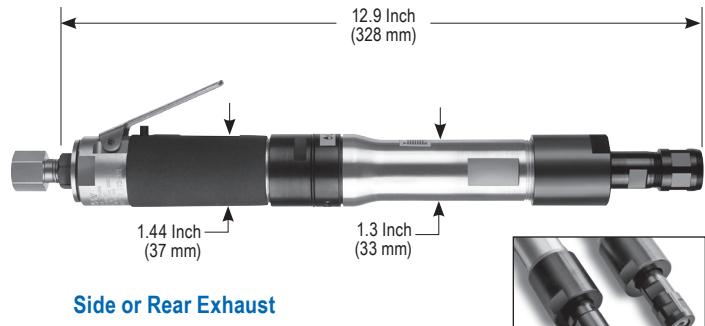
2.0 Lbs. (0.9 Kg) Aluminum
2.4 Lbs. (1.1 Kg) Steel



25 cfm
(11.8 L/s) Max



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



Side or Rear Exhaust



Insert Style or 2 Pcs.
Collets are available.

STANDARD EQUIPMENT

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

300EH & 300GH Series Alternate Options



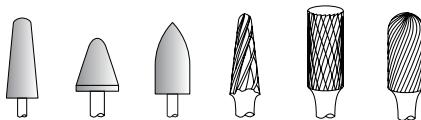
Safety Lever Standard Lever



Aluminum Case Steel Case

Inserted Tool Mounting



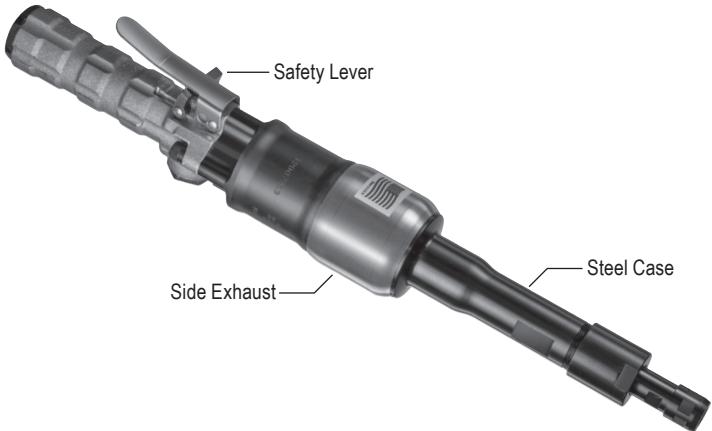


Horizontal Die Grinders (Collet Output)

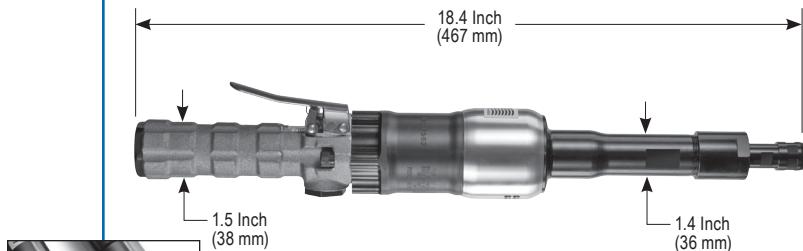
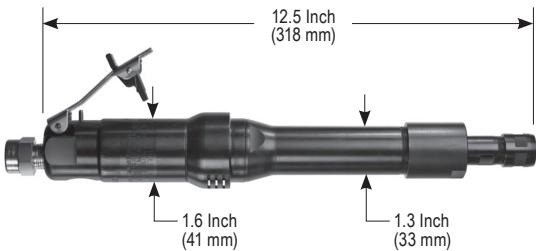
400GH Series


400GHKSD;20000;1/4

507H Series


507HKSD;18000;1/4

Collet Type/Capacity	Exhaust Direction	Rated Speed	Lever Style	MODEL NUMBER	Collet Type/Capacity	Exhaust Direction	Rated Speed	Lever Style	MODEL NUMBER	
1/4 Inch Standard ER Style Insert Collet 3/8 Inch or (10mm) Maximum	Side	20000 RPM	Standard Lever	400GHSD;20000;1/4	1/4 Inch Standard 3/8 Inch or (10 mm) Maximum	Side	18000 RPM	Standard Lever	507HLSD;18000;1/4	
			Safety Lever	400GHKSD;20000;1/4						
			Standard Lever	400GHSRD;20000;1/4						
			Safety Lever	400GHKSRD;20000;1/4						
	Rear		Standard Lever	400GHSD;18000;1/4						
			Safety Lever	400GHKSD;18000;1/4						
	18000 RPM	Standard Lever	400GHSRD;18000;1/4							
		Safety Lever	400GHKSRD;18000;1/4							


 1.2 H.P.
 (900 W)


35 cfm (16.5 L/s)


 3.2 Lbs. (1.4 Kg) Aluminum
 3.8 Lbs. (1.7 Kg) Steel

 3/8" NPT Inlet
 1/2" (13 mm) Hose Size

 Insert Style or 2 Pcs.
 Collets are available.

 1.5 H.P.
 (1.1 kW)


6.5 Lbs. (3.0 Kg) Steel Only


 35 cfm
 (16.5 L/s) Max

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

STANDARD EQUIPMENT

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

400GH Series Alternate Options



507H Series Alternate Options



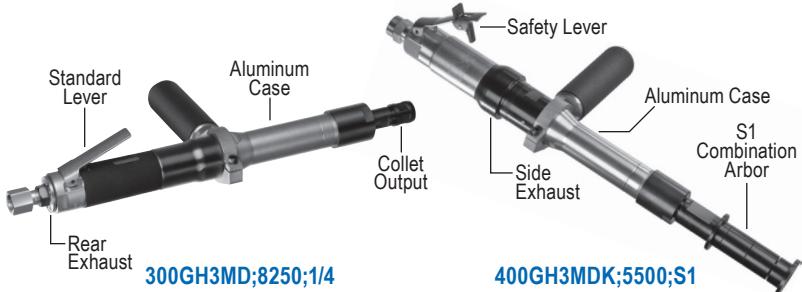
Inserted Tool Mounting





Geared Horizontal Polishers/Sanders

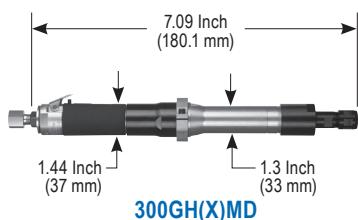
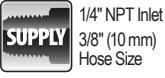
300GH(X)M & 400GH(X)M Series



517H1M Series



Output	Gear Ratio/ Max. Rated Speed	Lever Style	300GH(X)M Series	400GH(X)M Series	Output	Gear Ratio/ Max. Rated Speed	Lever Style	MODEL NUMBER
			MODEL NUMBER	MODEL NUMBER				
1/4 Inch Standard ER Style Insert Collet 3/8 Inch (10 mm) Maximum	3:1 (300GH3M 8250 RPM) (400GH3M 5500 RPM)	Standard Lever	300GH3MD;8250;1/4	400GH3MD;5500;1/4	S1 Combination Arbor 1"-4" Wide Surface Conditioning Abrasives	4:1 (4000 RPM)	Standard Lever	517H1ML;4000;S1
	Safety Lever	300GH3MDK;8250;1/4	400GH3MDK;5500;1/4	517H1MK;4000;S1				
	5:1 (300GH5M 6000 RPM) (400GH5M 4000 RPM)	Standard Lever	300GH5MD;6000;1/4	400GH5MD;4000;1/4				
	Safety Lever	300GH5MDK;6000;1/4	400GH5MDK;4000;1/4					
	8:1 (300GH8M 3750 RPM) (400GH8M 2500 RPM)	Standard Lever	300GH8MD;3750;1/4	400GH8MD;2500;1/4				
	Safety Lever	300GH8MDK;3750;1/4	400GH8MDK;2500;1/4					
	3:1 (300GH3M 8250 RPM) (400GH3M 5500 RPM)	Standard Lever	300GH3M;8250;S1	400GH3M;5500;S1				
	Safety Lever	300GH3MK;8250;S1	400GH3MK;5500;S1					
	5:1 (300GH5M 6000 RPM) (400GH5M 4000 RPM)	Standard Lever	300GH5M;6000;S1	400GH5M;4000;S1				
	Safety Lever	300GH5MK;6000;S1	400GH5MK;4000;S1					
	8:1 (300GH8M 3750 RPM) (400GH8M 2500 RPM)	Standard Lever	300GH8M;3750;S1	400GH8M;2500;S1				
	Safety Lever	300GH8MK;3750;S1	400GH8MK;2500;S1					
T5/8 Mounting Wheels with a 5/8-11 Thread	3:1 (300GH3M 8250 RPM) (400GH3M 5500 RPM)	Standard Lever	300GH3M;8250;T5/8	400GH3M;5500;T5/8	T5/8 Mounting Wheels with a 5/8-11 Thread	4:1 (4000 RPM)	Standard Lever	517H1ML;4000;T5/8
	Safety Lever	300GH3MK;8250;T5/8	400GH3MK;5500;T5/8	Safety Lever			517H1MK;4000;T5/8	
	5:1 (300GH5M 6000 RPM) (400GH5M 4000 RPM)	Standard Lever	300GH5M;6000;T5/8	400GH5M;4000;T5/8				
	Safety Lever	300GH5MK;6000;T5/8	400GH5MK;4000;T5/8					
	8:1 (300GH8M 3750 RPM) (400GH8M 2500 RPM)	Standard Lever	300GH8M;3750;T5/8	400GH8M;2500;T5/8				
	Safety Lever	300GH8MK;3750;T5/8	400GH8MK;2500;T5/8					

0.7 H.P.
(600 kW)25 cfm
(11.8 L/s) Max3.4 Lbs. (1.5 Kg)
Aluminum
3.8 Lbs. (1.7 Kg)
Steel

1/4"

NPT Inlet

3/8" (10 mm)

Hose Size

1.2 H.P.
(900 W)35 cfm
(16.5 L/s)1.5 H.P.
(1.1 kW)35 cfm
(16.5 L/s) Max6.7 Lbs. (3.0 Kg)
1/2" NPT Inlet
1/2" (13 mm) Hose Size

STANDARD EQUIPMENT

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

300GH(X)M, 400GH(X)M Series
Alternate Options

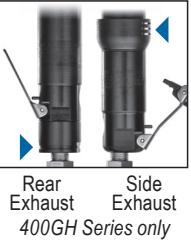
Lever Style



Case Material



Exhaust Direction



Mounting



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

Extended Grinders

Page Number	Tool Configuration	Abrasive Size	Model Series	Power Output	
48		Small Diameter Neck for Narrow Applications	• Cone Wheels (3/8-24) – 2 Inch Max. • Mounted Stones or Burrs	400EH	1.2 H.P. (900 W)
49		Rugged Extension and Front End Design	• Cone Wheels (3/8-24) – 2 Inch Max. • Cone Wheels (5/8-11) – 2 Inch Max. • Mounted Stones or Burrs • 4 Inch Type 1 Wheels	400GEH 407GEH	
50		Heavy Duty Front End Design for Larger Cone or Type 1 Wheels	• Cone Wheels (5/8-11) • 6 Inch Type 1 Wheels	520HGEH	2.0 H.P. (1.5 kW)
51		Extreme Duty Extension Grinder	• Cone Wheels (5/8-11)	65HGEH	4.0 H.P. (3.0 kW)
52		Additionally Extension Grinder	• Cone Wheels (5/8-11)	65NEH	4.0 H.P. (3.0 kW)
53			• Cone Wheels (5/8-11)	520HGEH+ 65HGEH+	2.0 H.P. (1.5 kW) 4.0 H.P. (3.0 kW)



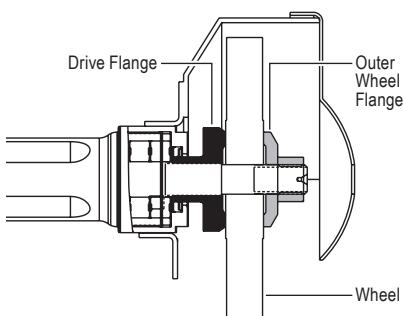
LEVER STYLES FOR 400EH AND
400GEH SERIES TOOLS



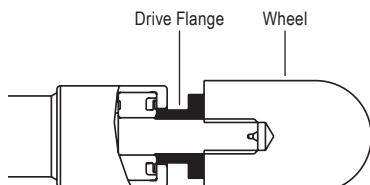
HANDLES FOR 520HGEH, 65HGEH
AND 65NEH SERIES TOOLS

MOUNTING OF WHEELS

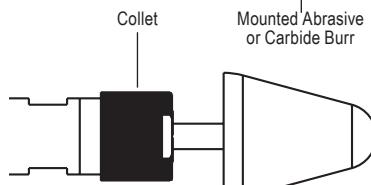
Proper Mounting of
Smaller Type 1 Wheels



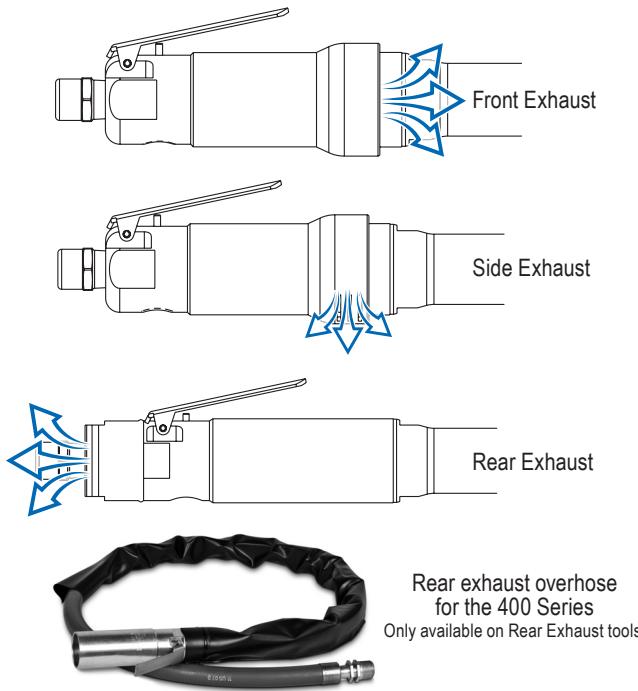
Proper Mounting of
Cone Wheels



Proper Mounting of Inserted Tooling
(Burrs/Mounted Stones)



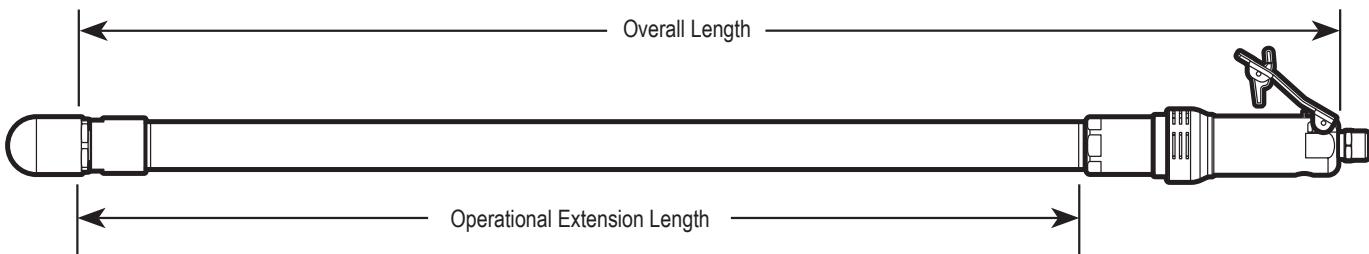
EXHAUST DIRECTION

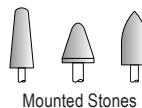


The choice of case material affects the weight and durability of the tool. By its nature, aluminum is lighter in weight than steel. Steel is more durable in aggressive environments.

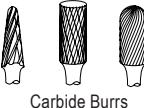
EXTENSION LENGTH

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.





Mounted Stones



Carbide Burrs



Cone Wheels (3/8-24 Only)

Narrow Neck Extended Grinders

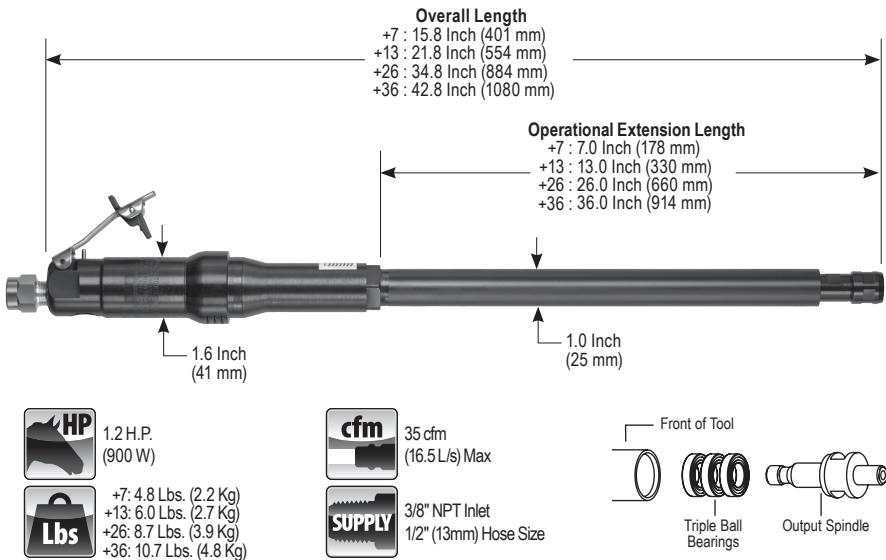
400EH Series



+13 Length Shown - Other Lengths Available

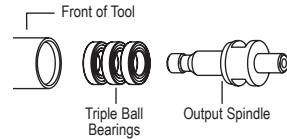
Output	Max. Rated Speed	Lever Style	MODEL NUMBER			
			with 7 Inch Extension	with 13 Inch Extension	with 26 Inch Extension	with 36 Inch Extension
Collet ER Style Insert Collet 3/8 Inch (10 mm) Maximum	20,000 RPM	Standard Lever	400EHS+7;20000;1/4	400EHS+13;20000;1/4	400EHS+26;20000;1/4	400EHS+36;20000;1/4
		Safety Lever	400EHSKD+7;20000;1/4	400EHSKD+13;20000;1/4	400EHSKD+26;20000;1/4	400EHSKD+36;20000;1/4
	18,000 RPM	Standard Lever	400EHS+7;18000;1/4	400EHS+13;18000;1/4	400EHS+26;18000;1/4	400EHS+36;18000;1/4
		Safety Lever	400EHSKD+7;18000;1/4	400EHSKD+13;18000;1/4	400EHSKD+26;18000;1/4	400EHSKD+36;18000;1/4
Cone Wheel 3/8-24 Cone Wheel Spindle	20,000 RPM	Standard Lever	400EHS1+7;20000	400EHS1+13;20000	400EHS1+26;20000	400EHS1+36;20000
		Safety Lever	400EHSK1+7;20000	400EHSK1+13;20000	400EHSK1+26;20000	400EHSK1+36;20000
	18,000 RPM	Standard Lever	400EHS1+7;18000	400EHS1+13;18000	400EHS1+26;18000	400EHS1+36;18000
		Safety Lever	400EHSK1+7;18000	400EHSK1+13;18000	400EHSK1+26;18000	400EHSK1+36;18000

Other Collet Sizes are Available


 1.2 H.P.
 (900 W)

 +7: 4.8 Lbs. (2.2 Kg)
 +13: 6.0 Lbs. (2.7 Kg)
 +26: 8.7 Lbs. (3.9 Kg)
 +36: 10.7 Lbs. (4.8 Kg)

 35 cfm
 (16.5 L/s) Max

 3/8" NPT Inlet
 1/2" (13mm) Hose Size


STANDARD EQUIPMENT

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

400EH Series Alternate Options



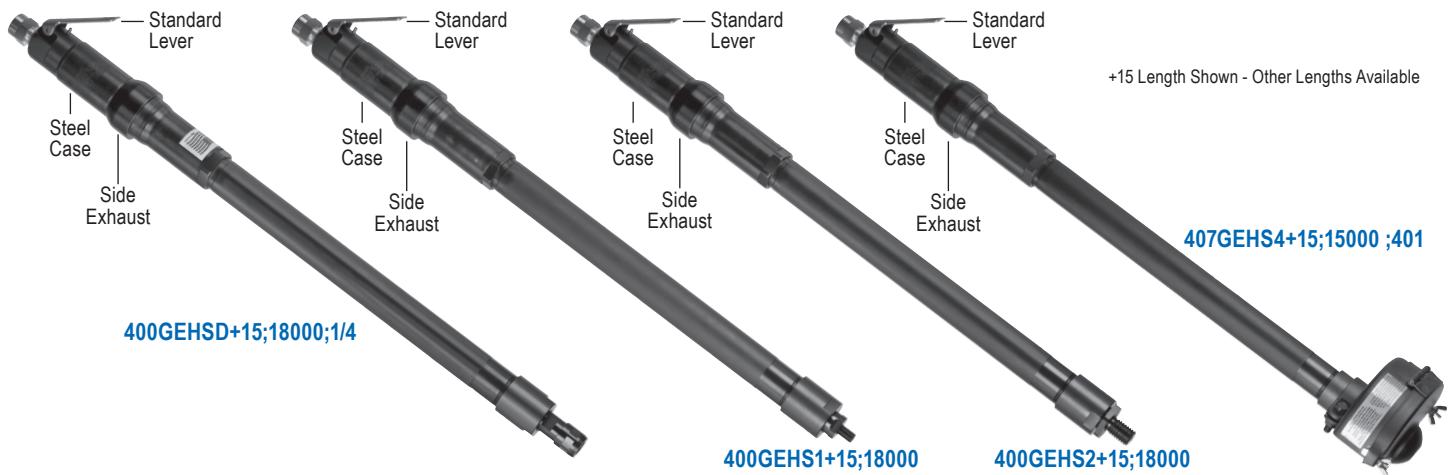
Abrasive Mounting



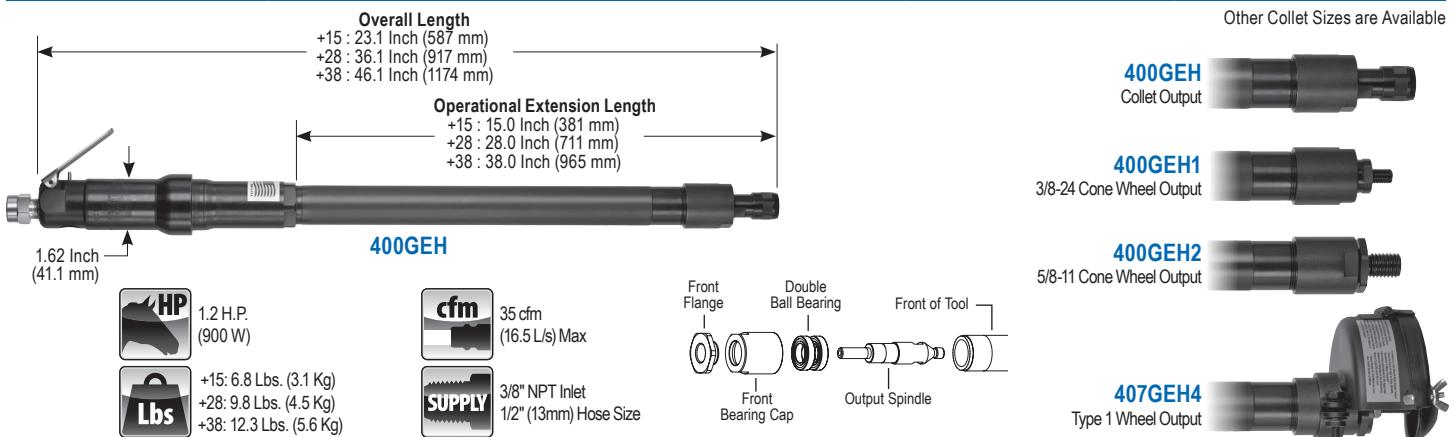


Extended Grinders

400GEH & 407GEH Series



Output	Max. Rated Speed	Lever Style	MODEL NUMBER		
			with 15 Inch Extension	with 28 Inch Extension	with 38 Inch Extension
Collet ER Style Insert Collet 3/8 Inch (10 mm) Maximum	20,000 RPM	Standard Lever	400GEHSD+15;20000;1/4	400GEHSD+28;20000;1/4	400GEHSD+38;20000;1/4
		Safety Lever	400GEHSDKD+15;20000;1/4	400GEHSDKD+28;20000;1/4	400GEHSDKD+38;20000;1/4
	18,000 RPM	Standard Lever	400GEHSD+15;18000;1/4	400GEHSD+28;18000;1/4	400GEHSD+38;18000;1/4
		Safety Lever	400GEHSDKD+15;18000;1/4	400GEHSDKD+28;18000;1/4	400GEHSDKD+38;18000;1/4
Cone Wheel 3/8-24 Cone Wheel Spindle	20,000 RPM	Standard Lever	400GEHS1+15;20000	400GEHS1+28;20000	400GEHS1+38;20000
		Safety Lever	400GEHSDK1+15;20000	400GEHSDK1+28;20000	400GEHSDK1+38;20000
	18,000 RPM	Standard Lever	400GEHS1+15;18000	400GEHS1+28;18000	400GEHS1+38;18000
		Safety Lever	400GEHSDK1+15;18000	400GEHSDK1+28;18000	400GEHSDK1+38;18000
Cone Wheel 5/8-11 Cone Wheel Spindle	20,000 RPM	Standard Lever	400GEHS2+15;20000	400GEHS2+28;20000	400GEHS2+38;20000
		Safety Lever	400GEHSDK2+15;20000	400GEHSDK2+28;20000	400GEHSDK2+38;20000
	18,000 RPM	Standard Lever	400GEHS2+15;18000	400GEHS2+28;18000	400GEHS2+38;18000
		Safety Lever	400GEHSDK2+15;18000	400GEHSDK2+28;18000	400GEHSDK2+38;18000
4" Type 1 Wheel 3/8-24 Type 1 Wheel	15,000 RPM	Standard Lever	407GEHS4+15;15000;401	407GEHS4+28;15000;401	407GEHS4+38;15000;401
		Safety Lever	407GEHSDK4+15;15000;401	407GEHSDK4+28;15000;401	407GEHSDK4+38;15000;401



400GEH & 407GEH Series Alternate Options

STANDARD EQUIPMENT

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

Lever Style



Case Material

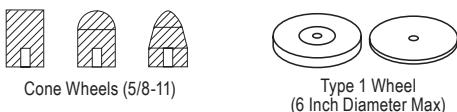


Exhaust Direction



Abrasive Mounting



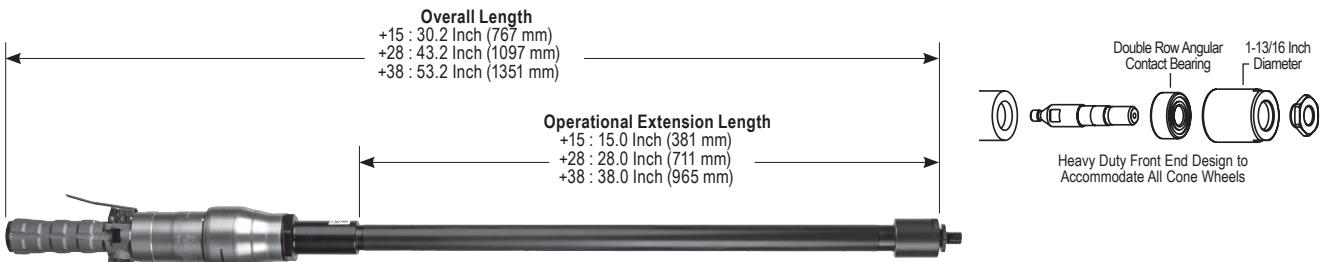


Extended Grinders

520HGEH Series


520HGEHKCW+38;12000
520HGEHK+38;8000;601


Output	Max. Rated Speed	Lever Style	<i>with 15 Inch Extension</i>	MODEL NUMBER <i>with 28 Inch Extension</i>	<i>with 38 Inch Extension</i>
Cone Wheel 5/8-11 Cone Wheel Spindle	12,000 RPM	Standard Lever	520HGEHLCW+15;12000	520HGEHLCW+28;12000	520HGEHLCW+38;12000
		Safety Lever	520HGEHKCW+15;12000	520HGEHKCW+28;12000	520HGEHKCW+38;12000
		Spade Handle	520HGEHGCW+15;12000	520HGEHGCW+28;12000	520HGEHGCW+38;12000
6" Type 1 Wheel 5/8-11 Type 1 Wheel Spindle	8,000 RPM	Standard Lever	520HGEHL+15;8000;601	520HGEHL+28;8000;601	520HGEHL+38;8000;601
		Safety Lever	520HGEHK+15;8000;601	520HGEHK+28;8000;601	520HGEHK+38;8000;601
		Spade Handle	520HGEHG+15;8000;601	520HGEHG+28;8000;601	520HGEHG+38;8000;601


 2.0 H.P.
(1500 W)

 +15: 11.1 Lbs. (5.0 Kg)
+28: 14.2 Lbs. (6.4 Kg)
+38: 16.6 Lbs. (7.5 Kg)

 20 cfm (9.4 L/s) Free Speed
40 cfm (18.9 L/s) Max

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


STANDARD EQUIPMENT

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

520HGEH Series Alternate Options



Standard Lever



Safety Lever



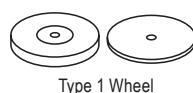
Spade Handle

Abrasive Mounting





Cone Wheels (5/8-11)

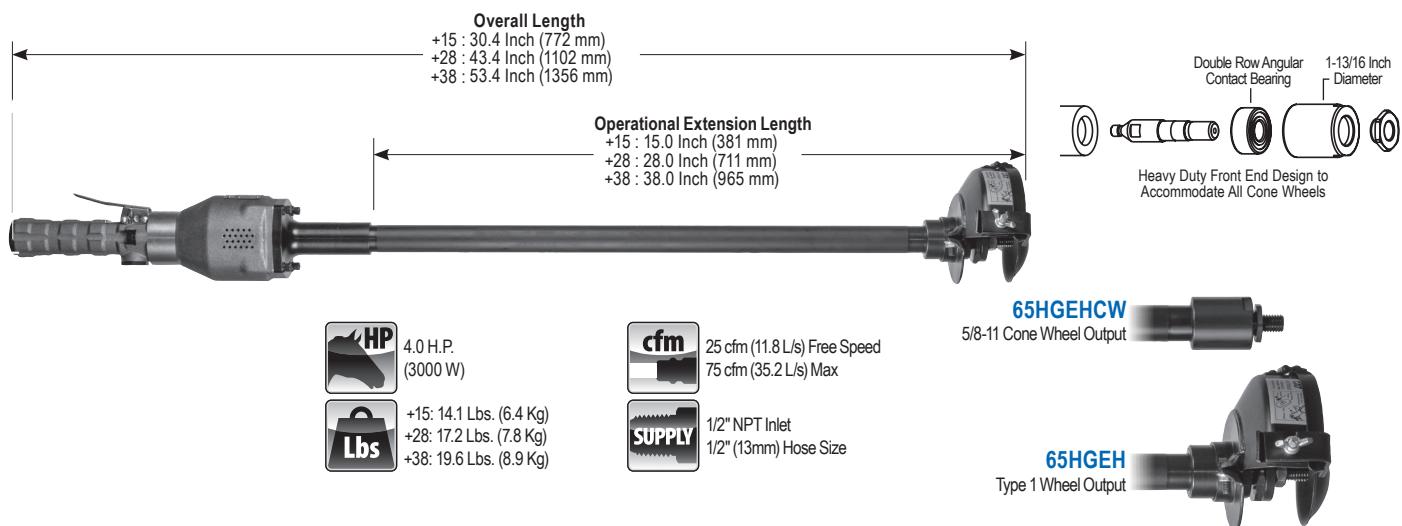
Type 1 Wheel
(6 Inch Diameter Max)

Extended Grinders

65GEH Series



Output	Lever Style	with 15 Inch Extension	MODEL NUMBER with 28 Inch Extension	with 38 Inch Extension
Cone Wheel 5/8-11 Cone Wheel Spindle	Standard Lever	65GEHLCW+15;8000	65GEHLCW+28;8000	65GEHLCW+38;8000
	Safety Lever	65GEHKCW+15;8000	65GEHKCW+28;8000	65GEHKCW+38;8000
	Spade Handle	65GEHGCW+15;8000	65GEHGCW+28;8000	65GEHGCW+38;8000
6" Type 1 Wheel 5/8-11 Type 1 Wheel Spindle	Standard Lever	65GEHL+15;8000;601	65GEHL+28;8000;601	65GEHL+38;8000;601
	Safety Lever	65GEHK+15;8000;601	65GEHK+28;8000;601	65GEHK+38;8000;601
	Spade Handle	65GEHG+15;8000;601	65GEHG+28;8000;601	65GEHG+38;8000;601



STANDARD EQUIPMENT

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

65GEH Series
Alternate Options

Abrasive Mounting





Extended Grinders

65NEH Series

Extreme Duty Extended Grinder



Output	Lever Style	<i>with 28 Inch Extension</i>	<i>with 38 Inch Extension</i>
		65NEHLCW+28;8000	65NEHLCW+38;8000
Cone Wheel 5/8-11 Cone Wheel Spindle	Standard Lever	65NEHKCW+28;8000	65NEHKCW+38;8000
	Safety Lever	65NEHKCW+28;8000	65NEHKCW+38;8000
	Spade Handle	65NEHGCW+28;8000	65NEHGCW+38;8000

4.0 H.P.
(3000 W)+28: 24.3 Lbs. (11.0 Kg)
+38: 28.1 Lbs. (12.7 Kg)25 cfm (11.8 L/s) Free Speed
75 cfm (35.2 L/s) Max1/2" NPT Inlet
1/2" (13mm) Hose Size
65NEHCW
5/8-11 Cone Wheel Output

Abrasive Mounting



STANDARD EQUIPMENT

- Tool
- Operating Instructions and Service Manual
- Wrench
(size based on options)

65NEH Series
Alternate Options

Standard Lever



Safety Lever

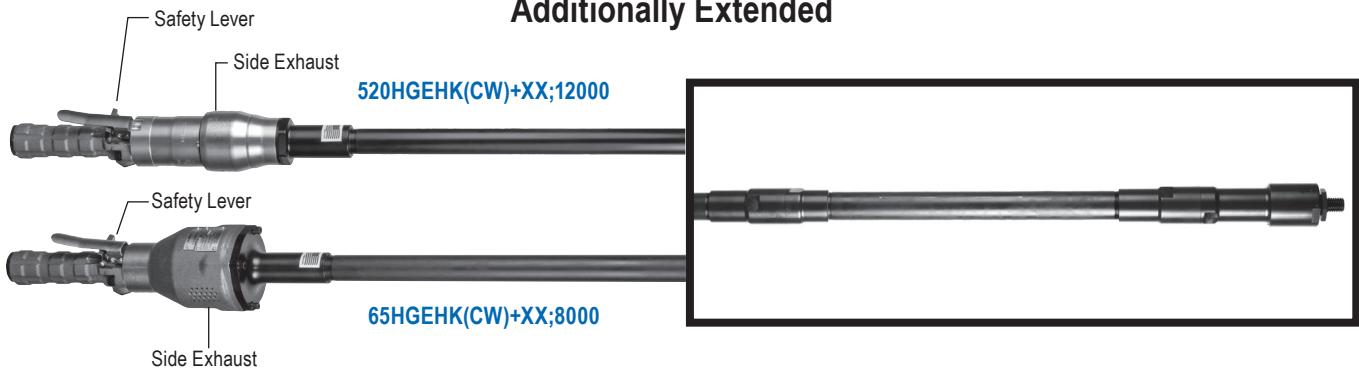


Spade Handle

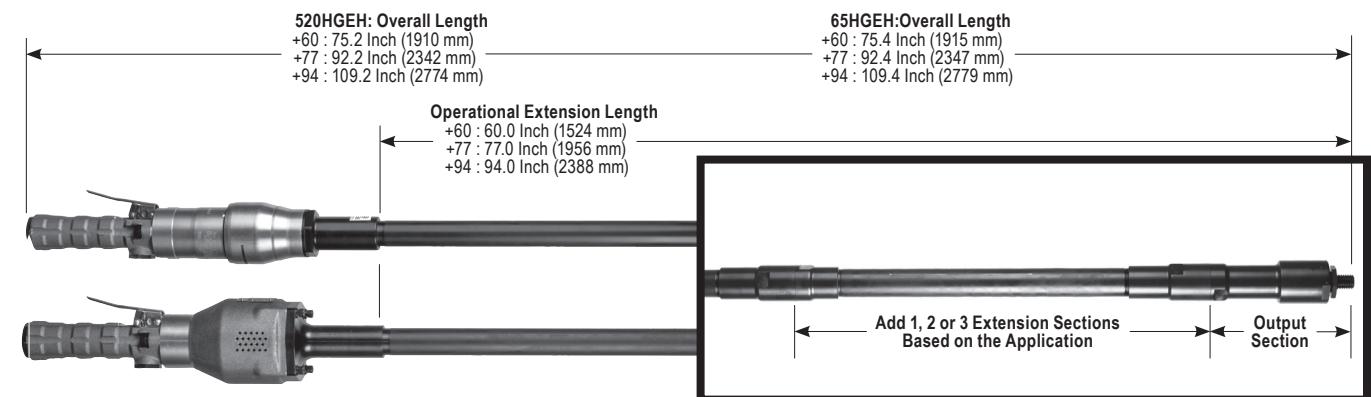
Additionally Extended Grinders

520HGEH/65HGEH Series

Additionally Extended



Base Model Series	Power Output	Max. Rated Speed	Lever Style	MODEL NUMBER		
				with 1 Extension	with 2 Extensions	with 3 Extensions
520HGEH	2.0 H.P. (1.5 kW)	12,000 RPM	Standard Lever	520HGEHLCW+60;12000	520HGEHLCW+77;12000	520HGEHLCW+94;12000
			Safety Lever	520HGEHKCW+60;12000	520HGEHKCW+77;12000	520HGEHKCW+94;12000
			Spade Handle	520HGEHGCW+60;12000	520HGEHGCW+77;12000	520HGEHGCW+94;12000
65HGEH	4.0 H.P. (3.0 kW)	8,000 RPM	Standard Lever	65HGEHLCW+60;8000	65HGEHLCW+77;8000	65HGEHLCW+94;8000
			Safety Lever	65HGEHKCW+60;8000	65HGEHKCW+77;8000	65HGEHKCW+94;8000
			Spade Handle	65HGEHGCW+60;8000	65HGEHGCW+77;8000	65HGEHGCW+94;8000



520HGEH: 2.0 H.P. (1500 W)
65HGEH: 4.0 H.P. (3000 W)

520HGEH: 20 cfm (9.4 L/s) Free Speed
40 cfm (18.9 L/s) Max
65HGEH: 25 cfm (11.8 L/s) Free Speed
75 cfm (35.2 L/s) Max

520HGEH: +60: 23.5 Lbs. (10.6 Kg)
+77: 28.4 Lbs. (12.9 Kg)
+94: 33.3 Lbs. (15.1 Kg)
65HGEH: +60: 26.5 Lbs. (12.0 Kg)
+77: 31.4 Lbs. (14.2 Kg)
+94: 36.3 Lbs. (16.4 Kg)

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



Heavy Duty Front End Design to Accommodate All Cone Wheels

5/8-11 Cone Wheel Output

520HGEH & 65HGEH Series Alternate Options

STANDARD EQUIPMENT

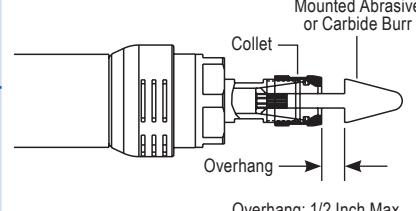
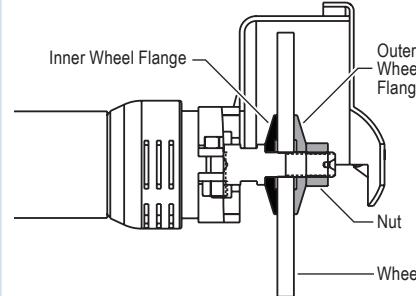
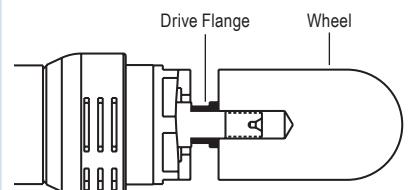
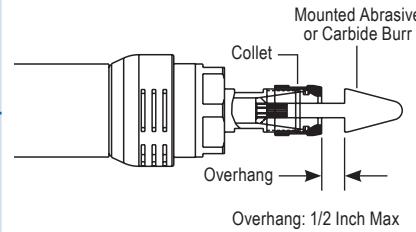
- Tool
- Operating Instructions and Service Manual
- Wrenches
(sizes based on options)

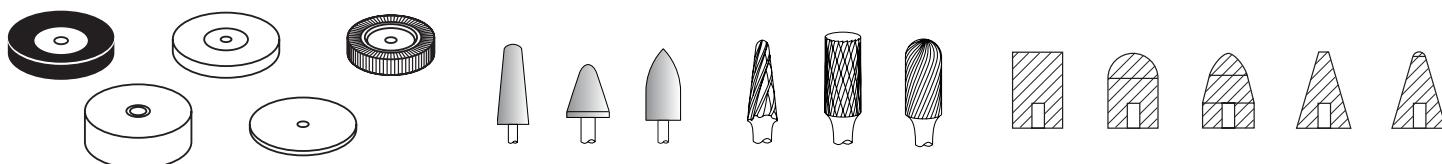


Abrasive Mounting



Horizontal Die Grinders

Page Number	Configuration	Abrasive Type/Size	Model Series	Power Output	Mounting of Abrasives
56		<ul style="list-style-type: none"> • Carbide Burrs • Mounted Stones • Flap Wheels • Sanding Abrasives w/ Shank Mounting 	300GE 307GE 300HGE 307HGE	0.7 H.P. (600 W)	 Collet Overhang Overhang: 1/2 Inch Max Mounted Abrasive or Carbide Burr
57		<ul style="list-style-type: none"> • Carbide Burrs • Mounted Stones • Flap Wheels • Sanding Abrasives w/ Shank Mounting <p>(3/8" Shank Size Max.)</p>	400GE 400HGE 400HGE+3 400HGE+6 400GT (Collet)	1.2 H.P. (900 W)	
58		<ul style="list-style-type: none"> • Type 1 Wheels 	400GT 407GT 400GT+3 400GT+6	1.2 H.P. (900 W)	 Inner Wheel Flange Outer Wheel Flange Nut Wheel
59		<ul style="list-style-type: none"> • Cone Wheels 	400GTCW 407GTCW	1.2 H.P. (900 W)	 Drive Flange Wheel
60		<ul style="list-style-type: none"> • Flap Wheels • Sanding Abrasives w/ Shank Mounting <p>(3/8" Shank Size Max.)</p>	300HGE3M 300HGE5M 300HGE8M 400HGE3M 400HGE5M 400HGE8M	0.7 H.P. (600 W) 1.2 H.P. (900 W)	 Collet Overhang Overhang: 1/2 Inch Max Mounted Abrasive or Carbide Burr
61		<ul style="list-style-type: none"> • Flap Wheels • Sanding Abrasives <p>(5/8" or 1" ID Mount)</p>	300GT3M 300GT5M 300GT8M 400GT3M 400GT5M 400GT8M	0.7 H.P. (600 W) 1.2 H.P. (900 W)	See Model Page for Abrasive Mounting Details.



Sanding Abrasives

Mounted Stones

Carbide Burrs

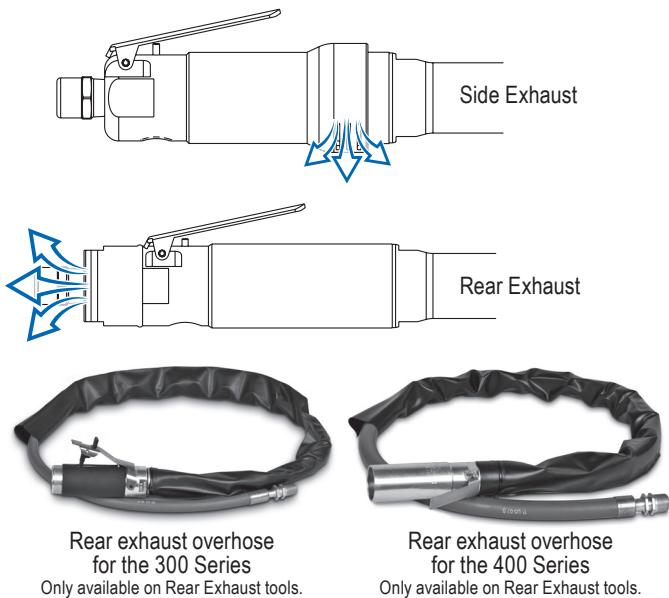
Cone Wheels

LEVER STYLE



Safety Lever Standard Lever

EXHAUST DIRECTION



Rear exhaust overhose
for the 300 Series
Only available on Rear Exhaust tools.

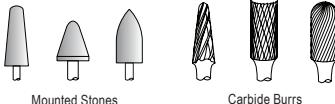
Rear exhaust overhose
for the 400 Series
Only available on Rear Exhaust tools.

CASE MATERIAL



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





1/4 Inch • 3/8 Inch
(6 mm) (10 mm)

Die Grinders (Collet Output)

300GE Series & 307GE Series



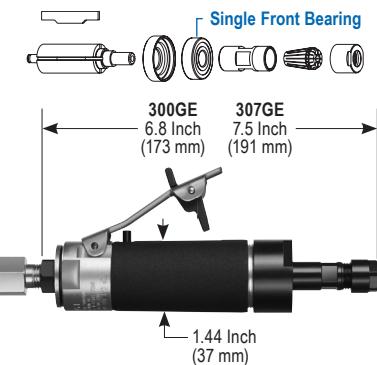
300GEK;30000;1/4

300HGE Series & 307HGE Series



300HGE;30000;1/4

Collet Type/Capacity	Exhaust Direction	Max. Rated Speed	Lever Style	MODEL NUMBER	Collet Type/Capacity	Exhaust Direction	Max. Rated Speed	Lever Style	MODEL NUMBER
ER Style Insert Collet 3/8 Inch (10 mm) Maximum	Rear	30,000 RPM	Standard Lever	300GE;30000;1/4	Double Front Bearing ER Style Insert Collet 3/8 Inch (10 mm) Maximum	Rear	30,000 RPM	Standard Lever	300GER;30000;1/4
		Safety Lever	300GEK;30000;1/4	Safety Lever			300GERK;30000;1/4		
		25,000 RPM	Standard Lever	300GE;25000;1/4			25,000 RPM	Standard Lever	300HGER;25000;1/4
		Safety Lever	300GEK;25000;1/4	Safety Lever			300HGERK;25000;1/4		
		20,000 RPM	Standard Lever	307GE;20000;1/4			20,000 RPM	Standard Lever	307HGER;20000;1/4
		Safety Lever	307GEK;20000;1/4	18,000 RPM			Standard Lever	307HGERK;20000;1/4	
		18,000 RPM	Standard Lever	307GE;18000;1/4		Side	30,000 RPM	Standard Lever	300HGE;30000;1/4
		Safety Lever	307GEK;18000;1/4	Safety Lever			300HGEK;30000;1/4		
		18,000 RPM	Standard Lever	307GE;18000;1/4			25,000 RPM	Standard Lever	300HGE;25000;1/4
		Safety Lever	307GEK;18000;1/4	20,000 RPM			Standard Lever	307HGE;20000;1/4	
		18,000 RPM	Safety Lever	307GEK;18000;1/4			18,000 RPM	Standard Lever	307HGE;18000;1/4



0.7 H.P.
(600 W)



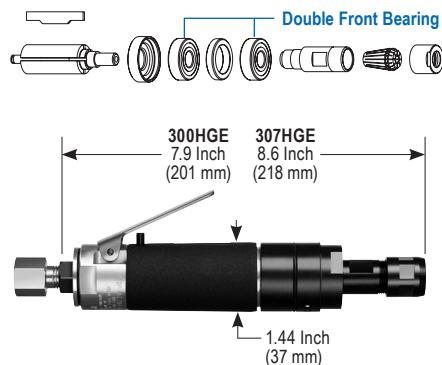
1.2 Lbs. (0.5 Kg) Aluminum
1.6 Lbs. (0.7 Kg) Steel



300GE: 25 cfm (11.8 L/s) Max
307GE: 15 cfm (7.1 L/s) Free Speed
25 cfm (11.8 L/s) Max



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



0.7 H.P.
(600 W)



1.6 Lbs. (0.7 Kg) Aluminum
2.0 Lbs. (0.9 Kg) Steel



300HGE: 25 cfm (11.8 L/s) Max
307HGE: 15 cfm (7.1 L/s) Free Speed
25 cfm (11.8 L/s) Max



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

STANDARD EQUIPMENT

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

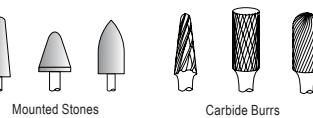
The 300GE is available with a front exhaust.

300GE, 307GE, 300HGE & 307HGE Alternate Options



Inserted Tool Mounting





Die Grinders (Collet Output)

400GE Series


400GESK;20000;1/4

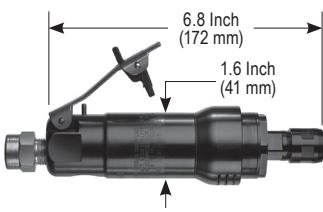
400HGE Series



400GT Series


400GTS4;20000;1/4

Collet Type/ Capacity	Exhaust Direction	Max. Rated Speed	Lever Style	MODEL NUMBER
ER Style Insert Collet 3/8 Inch (10 mm) Maximum	Side	20,000 RPM	Standard	400GES;20000;1/4
		Safety		400GESK;20000;1/4
		18,000 RPM	Standard	400GES;18000;1/4
		Safety		400GESK;18000;1/4
	Rear	20,000 RPM	Standard	400GESR;20000;1/4
		Safety		400GESRK;20000;1/4
		18,000 RPM	Standard	400GESR;18000;1/4
		Safety		400GESRK;18000;1/4

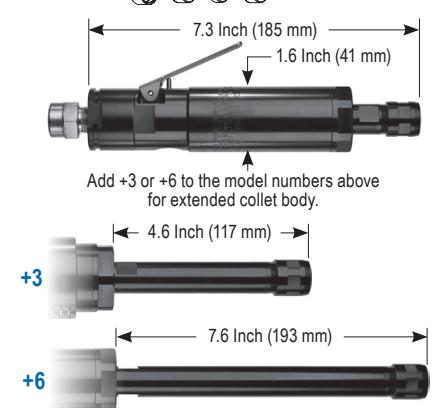
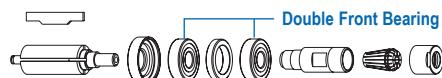

 1.2 H.P.
(900 W)

 35 cfm
(16.5 L/s) Max

 1.8 Lbs. (0.8 Kg)
Aluminum
2.4 Lbs. (1.1 Kg)
Steel

 3/8" NPT Inlet
1/2"(13mm) Hose Size

Collet Type/ Capacity	Exhaust Direction	Max. Rated Speed	Lever Style	MODEL NUMBER
Double Front Bearing ER Style Insert Collet 3/8 Inch (10 mm) Maximum	Side	20,000 RPM	Standard	400HGES;20000;1/4
		Safety		400HGESK;20000;1/4
		18,000 RPM	Standard	400HGES;18000;1/4
		Safety		400HGESK;18000;1/4
	Rear	20,000 RPM	Standard	400HGESR;20000;1/4
		Safety		400HESRK;20000;1/4
		18,000 RPM	Standard	400HGESR;18000;1/4
		Safety		400HESRK;18000;1/4

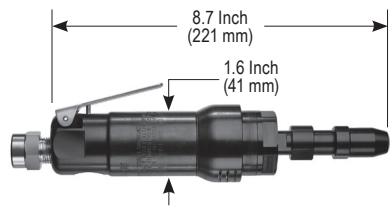

 1.2 H.P.
(900 W)

 1.8 Lbs. (0.8 Kg)
Aluminum
2.4 Lbs. (1.1 Kg)
Steel

 35 cfm
(16.5 L/s) Max

 3/8" NPT Inlet
1/2"(13mm) Hose Size

Collet Type/ Capacity	Exhaust Direction	Max. Rated Speed	Lever Style	MODEL NUMBER
Bullet Shaped TC-1010 Collet 1/4 Inch Only	Side	20,000 RPM	Standard	400GTS;20000;1/4
		Safety		400GTSK;20000;1/4
		18,000 RPM	Standard	400GTS;18000;1/4
		Safety		400GTSK;18000;1/4
	Rear	20,000 RPM	Standard	400GTSR;20000;1/4
		Safety		400GTSRK;20000;1/4
		18,000 RPM	Standard	400GTSR;18000;1/4
		Safety		400GTSRK;18000;1/4


 1.2 H.P.
(900 W)

 2.0 Lbs. (0.9 Kg)
Aluminum
2.6 Lbs. (1.2 Kg)
Steel

 35 cfm
(16.5 L/s) Max

 3/8" NPT Inlet
1/2"(13mm) Hose Size

STANDARD EQUIPMENT

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

400GE, 400GT & 400HGE Alternate Options

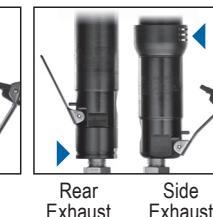
Lever Style



Case Material



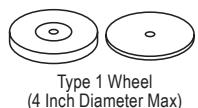
Exhaust Direction



Front Exhaust option is available on all 400 Series Die Grinders.

Inserted Tool Mounting

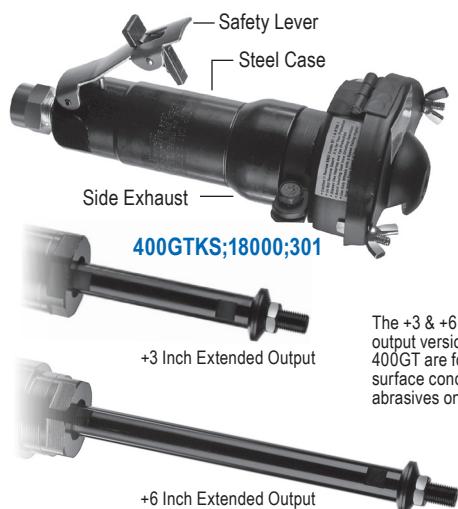




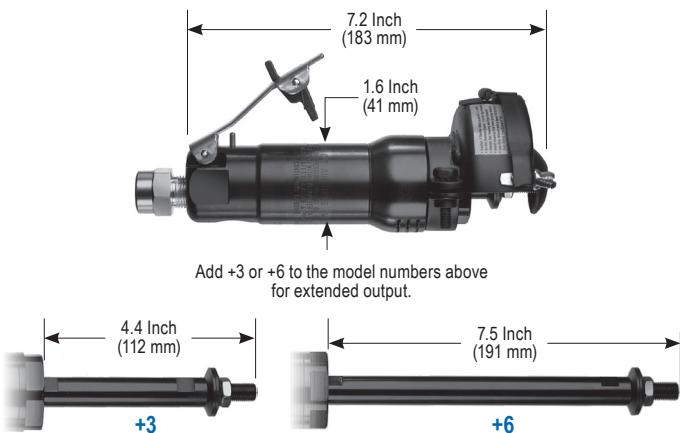
3 Inch - 4 Inch
(75 mm) (100 mm)

Die Grinders (Type 1, Type 1 Cut-Off, Type 41 Wheels)

400GT / 400GT+3 / 400GT+6 Series



Guard/Wheel Size	Max. Rated Speed	Exhaust Direction	Lever Style	MODEL NUMBER
3 Inch (75 mm)	18,000 RPM	Side	Standard Lever	400GTS;18000;301
			Safety Lever	400GTSK;18000;301
		Rear	Standard Lever	400GTSR;18000;301
			Safety Lever	400GTSRK;18000;301



1.2 H.P.
(900 W)



2.4 Lbs. (1.1 Kg) Aluminum
3.0 Lbs. (1.4 Kg) Steel

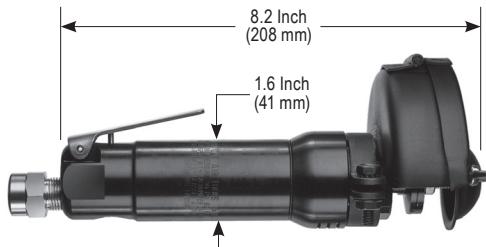


35 cfm
(16.5 L/s) Max



3/8" NPT Inlet
1/2" (13mm) Hose Size

Guard/Wheel Size	Max. Rated Speed	Exhaust Direction	Lever Style	MODEL NUMBER
4 Inch (100 mm)	15,000 RPM	Side	Standard Lever	407GTS;15000;401
			Safety Lever	407GTSK;15000;401



1.2 H.P.
(900 W)



2.8 Lbs. (1.3 Kg) Aluminum
3.4 Lbs. (1.5 Kg) Steel



35 cfm
(16.5 L/s) Max



3/8" NPT Inlet
1/2" (13 mm) Hose Size

STANDARD EQUIPMENT

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

400GT & 407GT Alternate Options



Type 1 Wheel

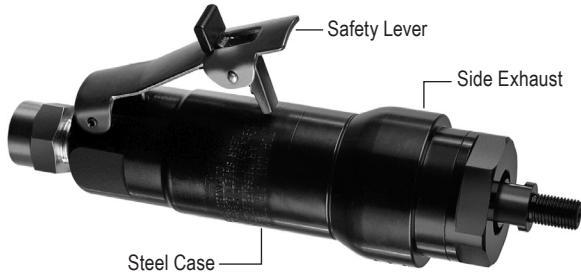




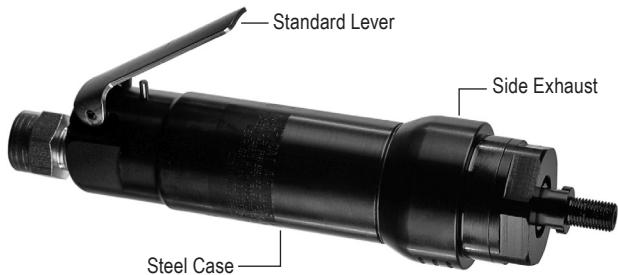
Cone Wheels (3/8-24)

Die Grinders (3/8-24 Cone Wheels)

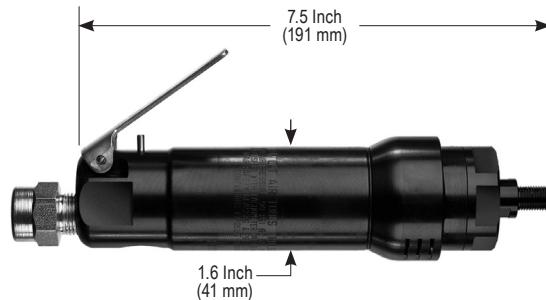
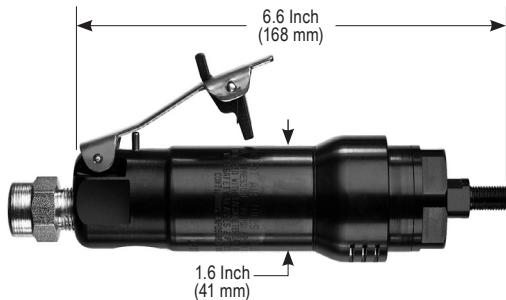
400GTCW Series


400GTSKCW;18000

407GTCW Series


407GTSCW;15000

Max. Rated Speed	Exhaust Direction	Lever Style	MODEL NUMBER	Max. Rated Speed	Exhaust Direction	Lever Style	MODEL NUMBER	
18,000 RPM	Side	Standard Lever	400GTSCW;18000	15,000 RPM	Side	Standard Lever	407GTSCW;15000	
		Safety Lever	400GTSKCW;18000			Safety Lever	407GTSKCW;15000	
	Rear	Standard Lever	400GTSRCW;18000					
		Safety Lever	400GTSRKCW;18000					


 1.2 H.P.
(900 W)

 1.9 Lbs. (0.9 Kg) Aluminum
2.5 Lbs. (1.1 Kg) Steel

 35 cfm
(16.5 L/s) Max

 3/8" NPT Inlet
1/2" (13mm) Hose Size

 1.2 H.P.
(900 W)

 2.0 Lbs. (0.9 Kg) Aluminum
2.6 Lbs. (1.2 Kg) Steel

 35 cfm
(16.5 L/s) Max

 3/8" NPT Inlet
1/2" (13 mm) Hose Size

STANDARD EQUIPMENT

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

400GTCW & 407GTCW Alternate Options

Lever Style



Case Material

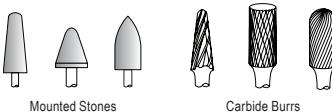


Exhaust Direction



Cone Wheel Mounting





1/4 Inch • 3/8 Inch
(6 mm) (10 mm)

Geared Die Grinders (Collet Output)

300HGE(X)M Series



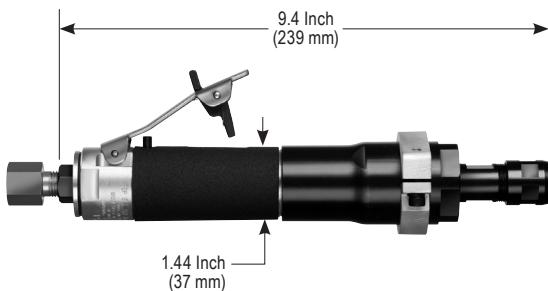
300HGE3MRK;8250;1/4

400HGE(X)M Series



400HGE3M;5500;1/4

Output	Gear Ratio/Rated Speed	Exhaust Direction	Lever Style	300HGE(X)M Series MODEL NUMBER	400HGE(X)M Series MODEL NUMBER
Double Front Bearing ER Style Insert Collet 3/8 Inch (10 mm) Maximum	3:1 300HGE3M - 8250 RPM 400HGE3M - 5500 RPM	Side Exhaust	Standard Lever		400HGE3M;5500;1/4
			Safety Lever		400HGE3MK;5500;1/4
		Rear Exhaust	Standard Lever	300HGE3MR;8250;1/4	400HGE3MR;5500;1/4
			Safety Lever	300HGE3MRK;8250;1/4	400HGE3MRK;5500;1/4
	5:1 300HGE5M - 6000 RPM 400HGE5M - 4000 RPM	Side Exhaust	Standard Lever		400HGE5M;4000;1/4
			Safety Lever		400HGE5MK;4000;1/4
		Rear Exhaust	Standard Lever	300HGE5MR;6000;1/4	400HGE5MR;4000;1/4
			Safety Lever	300HGE5MRK;6000;1/4	400HGE5MRK;4000;1/4
	8:1 300HGE8M - 3750 RPM 400HGE8M - 2500 RPM	Side Exhaust	Standard Lever		400HGE8M;2500;1/4
			Safety Lever		400HGE8MK;2500;1/4
		Rear Exhaust	Standard Lever	300HGE8MR;3750;1/4	400HGE8MR;2500;1/4
			Safety Lever	300HGE8MRK;3750;1/4	400HGE8MRK;2500;1/4



0.7 H.P.
(600 W)



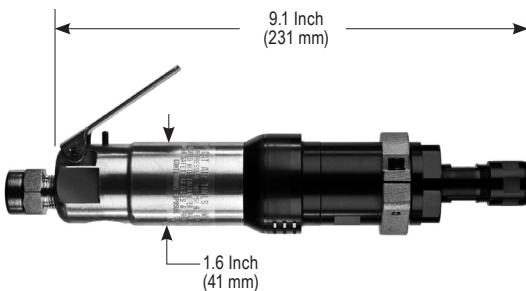
2.4 Lbs. (1.1 Kg) Aluminum
3.0 Lbs. (1.4 Kg) Steel



25 cfm
(11.8 L/s) Max



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



1.2 H.P.
(900 W)



3.1 Lbs. (1.4 Kg) Aluminum
3.7 Lbs. (1.7 Kg) Steel



35 cfm
(16.5 L/s) Max



3/8" NPT Inlet
1/2" (13mm) Hose Size

STANDARD EQUIPMENT

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

300HGE(X)M & 400HGE(X)M Alternate Options



Safety Lever
Standard Lever



Aluminum Case
Steel Case



Rear Exhaust
(400HGE(X)M Only)
Side Exhaust

Inserted Tool Mounting





Surface Conditioning Abrasives

5/8-11 Threaded Mount (T5/8)
5/8 or 1 Inch Shaft Mount (S1)

Geared Die Grinders for Surface Conditioning Abrasives

300GT(X)M Series



300GT3MK;8250;T5/8

400GT(X)M Series



400GT3M;5500;S1

Output	Gear Ratio/Max. Rated Speed	Exhaust Direction	300GT(X)M Series MODEL NUMBER	400GT(X)M Series MODEL NUMBER
S1 Combination Arbor 1" - 4" Wide Surface Conditioning Abrasives	3:1 300GT3M: 8250 RPM 400GT3M: 5500 RPM	Side Exhaust	Standard Lever	400GT3M;5500;S1
			Safety Lever	400GT3MK;5500;S1
			Standard Lever	300GT3MR;8250;S1
			Safety Lever	400GT3MRK;5500;S1
	5:1 300GT5M: 6000 RPM 400GT5M: 4000 RPM	Side Exhaust	Standard Lever	400GT5M;4000;S1
			Safety Lever	400GT5MK;4000;S1
			Standard Lever	300GT5MR;6000;S1
			Safety Lever	400GT5MRK;4000;S1
	8:1 300GT8M: 3750 RPM 400GT8M: 2500 RPM	Side Exhaust	Standard Lever	400GT8M;2500;S1
			Safety Lever	400GT8MR;2500;S1
			Standard Lever	300GT8MR;3750;S1
			Safety Lever	400GT8MRK;3750;S1
T5/8 Mounting Wheels That Have a 5/8-11 Thread	3:1 300GT3M: 8250 RPM 400GT3M: 5500 RPM	Side Exhaust	Standard Lever	400GT3M;5500;T5/8
			Safety Lever	400GT3MK;5500;T5/8
			Standard Lever	300GT3MR;8250;T5/8
			Safety Lever	400GT3MRK;5500;T5/8
	5:1 300GT5M: 6000 RPM 400GT5M: 4000 RPM	Side Exhaust	Standard Lever	400GT5M;4000;T5/8
			Safety Lever	400GT5MK;4000;T5/8
			Standard Lever	300GT5MR;6000;T5/8
			Safety Lever	400GT5MRK;4000;T5/8
	8:1 300GT8M: 3750 RPM 400GT8M: 2500 RPM	Side Exhaust	Standard Lever	400GT8M;2500;T5/8
			Safety Lever	400GT8MK;2500;T5/8
			Standard Lever	300GT8MR;3750;T5/8
			Safety Lever	400GT8MRK;3750;T5/8

0.7 H.P.
(600 W)2.8 Lbs. (1.3 Kg) Aluminum
3.5 Lbs. (1.6 Kg) Steel25 cfm
(11.8 L/s) Max1/4" NPT Inlet
3/8" (10 mm) Hose Size1.2 H.P.
(900 W)3.9 Lbs (1.8 Kg) Aluminum
4.5 Lbs (2.0 Kg) Steel35 cfm
(16.5 L/s) Max3/8" NPT Inlet
1/2" (13 mm) Hose Size

STANDARD EQUIPMENT

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

300GT(X)M & 400GT(X)M Alternate Options

Lever Style	Case Material	Exhaust Direction
Safety Lever	Aluminum Case	Rear Exhaust
Standard Lever	Steel Case	Side Exhaust (400GT(X)M Only)

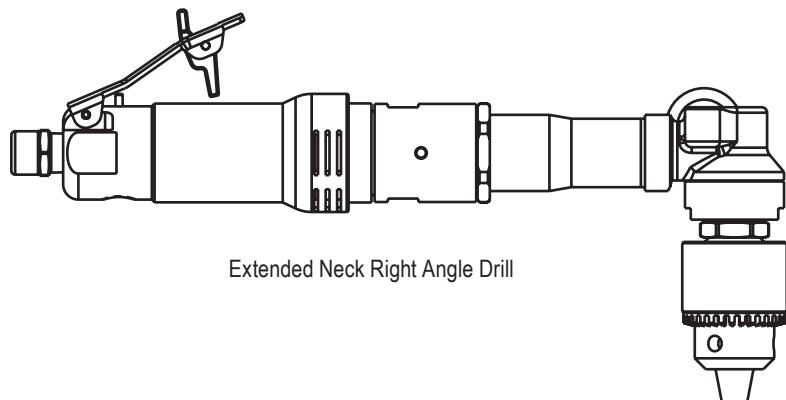
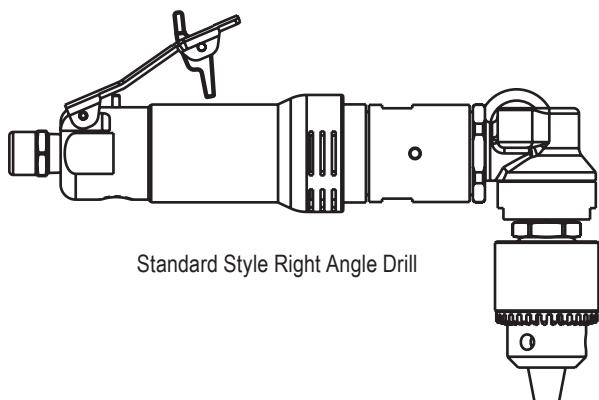
Sanding Abrasive Mounting



Air Drills

Page Number	Model Number	Power	Maximum Operating Speed	Description	
64	300D(X)M 400D(X)M	0.7 HP (600 W) 1.2 HP (900 W)	825-8250 RPM 550-5500 RPM		
65	400D(X)MP	1.2 HP (900 W)	550-5500 RPM	Inline Drills	
	517D2M	1.5 HP (1.1 kW)	1000 RPM		
66	300DRA(X)M 300DRAE(X)M	0.7 HP (600 W)	390-4000 RPM		
	400DRA(X)M 400DRAE(X)M	1.2 HP (900 W)	260-2900 RPM	Right Angle Drills	
67	400FD(X)M	1.2 HP (900 W)	550-5500 RPM		
	517FD1M	1.5 HP (1.1 kW)	4000 RPM	Floor Drills	

EXTENDED NECK VS STANDARD



CASE MATERIAL

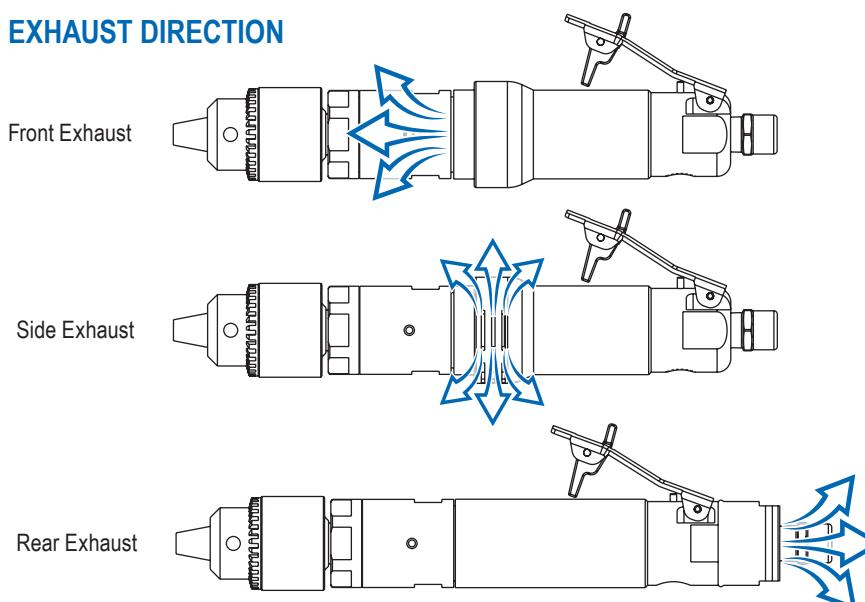
The choice of case material affects the weight and durability of the tool. By its nature, aluminum is lighter in weight than steel. Steel is more durable in aggressive environments.



LEVER STYLE



EXHAUST DIRECTION



Rear exhaust overhose
for the 300 Series
Only available on Rear Exhaust tools.



Rear exhaust overhose
for the 400 Series
Only available on Rear Exhaust tools.

Inline Air Drills

300D(X)M Series


300D3MK;8250;D3/8

400D(X)M Series


400D3MK;5500;D1/2

Output	Gear Ratio/Rated Speed	Lever Style	300 Series MODEL NUMBER	400 Series MODEL NUMBER
300 Series: 3/8" (10 mm) Drill Chuck 400 Series: 1/2" (13 mm) Drill Chuck	3:1 300 Series: 8250 RPM 400 Series: 5500 RPM	Standard Lever	300D3M;8250;D3/8	400D3M;5500;D1/2
	5:1 300 Series: 6000 RPM 400 Series: 4200 RPM	Safety Lever	300D3MK;8250;D3/8	400D3MK;5500;D1/2
	8:1 300 Series: 3750 RPM 400 Series: 2500 RPM	Standard Lever	300D5M;6000;D3/8	400D5M;4200;D1/2
	21:1 300 Series: 1350 RPM 400 Series: 900 RPM	Safety Lever	300D5MK;6000;D3/8	400D5MK;4200;D1/2
	36:1 300 Series: 825 RPM 400 Series: 550 RPM	Standard Lever	300D8M;3750;D3/8	400D8M;2500;D1/2
		Safety Lever	300D8MK;3750;D3/8	400D8MK;2500;D1/2
		Standard Lever	300D21M;1350;D3/8	400D21M;900;D1/2
		Safety Lever	300D21MK;1350;D3/8	400D21MK;900;D1/2
		Standard Lever	300D36M;825;D3/8	400D36M;550;D1/2
		Safety Lever	300D36MK;825;D3/8	400D36MK;550;D1/2


 0.7 H.P.
 (600 kW)

 3/5/8: 3.2 Lbs. (1.4 Kg)
 21/36: 3.4 Lbs (1.5 Kg)

 25 cfm
 (11.8 L/s) Max

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

 1.2 H.P.
 (900 W)

 3/5/8: 4.1 Lbs. (1.9 Kg)
 21/36: 4.3 Lbs (1.9 Kg)

 35 cfm
 (16.5 L/s) Max

 3/8" NPT Inlet
 1/2"(13 mm) Hose Size

STANDARD EQUIPMENT

- Tool
- Operating Instructions and Service Manual

300D(X)M & 400D(X)M Series Alternate Options



Aluminum Case



Steel Case

 Safety Lever
 Regular Lever

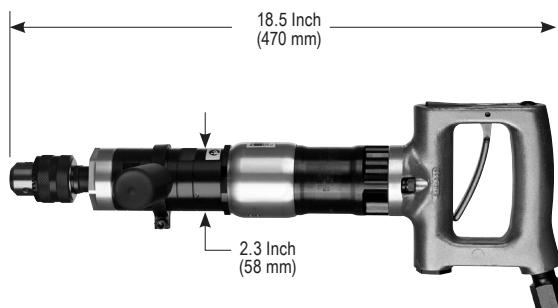
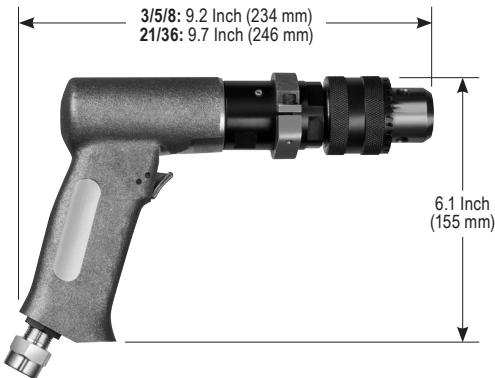
Pistol Grip Air Drills



517D2M Series



Output	Gear Ratio / Rated Speed	MODEL NUMBER	Output	Gear Ratio / Rated Speed	MODEL NUMBER
1/2" (13 mm) Drill Chuck	3:1 / 5500 RPM	400D3MP;5500;D1/2	1/2" (13 mm) Drill Chuck	16:1 / 1000 RPM	517D2M;1000;D1/2
	5:1 / 4200 RPM	400D5MP;4200;D1/2	3/4" (19 mm) Drill Chuck		517D2M;1000;D3/4
	8:1 / 2500 RPM	400D8MP;2500;D1/2			
	21:1 / 900 RPM	400D21MP;900;D1/2			
	36:1 / 550 RPM	400D36MP;550;D1/2			


 1.2 H.P.
(900 W)

 3/8": 4.4 Lbs. (2.0 Kg)
21/36": 4.6 Lbs (2.1 Kg)

 35 cfm
(16.5 L/s) Max

 3/8" NPT Inlet
1/2" (13mm) Hose Size

 1.5 H.P.
(1125 W)


11.0 Lbs. (5.0 Kg)


 35 cfm
(16.5 L/s) Max

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

STANDARD EQUIPMENT

- Tool
- Operating Instructions and Service Manual

Right Angle Drills

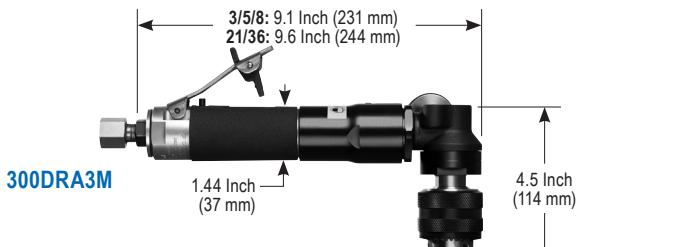
300DRA(X)M & 300DRAE(X)M Series



400DRA(X)M & 400DRAE(X)M Series



Output	Gear Ratio/Rated Speed	Lever Style	300DRA(X)M MODEL NUMBER	300DRAE(X)M MODEL NUMBER	400DRA(X)M MODEL NUMBER	400DRAE(X)M MODEL NUMBER
300 Series 3/8" (10 mm) Drill Chuck	3:1 300 Series: 4000 RPM	Standard Lever	300DRA3M;4000;D3/8	300DRAE3M;4000;D3/8	400DRA3M;2900;D1/2	400DRAE3M;2900;D1/2
	400 Series: 2900 RPM	Safety Lever	300DRA3MK;4000;D3/8	300DRAE3MK;4000;D3/8	400DRA3MK;2900;D1/2	400DRAE3MK;2900;D1/2
	5:1 300 Series: 3000 RPM	Standard Lever	300DRA5M;3000;D3/8	300DRAE5M;3000;D3/8	400DRA5M;2200;D1/2	400DRAE5M;2200;D1/2
	400 Series: 2200 RPM	Safety Lever	300DRA5MK;3000;D3/8	300DRAE5MK;3000;D3/8	400DRA5MK;2200;D1/2	400DRAE5MK;2200;D1/2
	8:1 300 Series: 1800 RPM	Standard Lever	300DRA8M;1800;D3/8	300DRAE8M;1800;D3/8	400DRA8M;1300;D1/2	400DRAE8M;1300;D1/2
	400 Series: 1300 RPM	Safety Lever	300DRA8MK;1800;D3/8	300DRAE8MK;1800;D3/8	400DRA8MK;1300;D1/2	400DRAE8MK;1300;D1/2
	21:1 300 Series: 660 RPM	Standard Lever	300DRA21M;660;D3/8	300DRAE21M;660;D3/8	400DRA21M;440;D1/2	400DRAE21M;440;D1/2
	400 Series: 440 RPM	Safety Lever	300DRA21MK;660;D3/8	300DRAE21MK;660;D3/8	400DRA21MK;440;D1/2	400DRAE21MK;440;D1/2
	36:1 300 Series: 390 RPM	Standard Lever	300DRA36M;390;D3/8	300DRAE36M;390;D3/8	400DRA36M;260;D1/2	400DRAE36M;260;D1/2
	400 Series: 260 RPM	Safety Lever	300DRA36MK;390;D3/8	300DRAE36MK;390;D3/8	400DRA36MK;260;D1/2	400DRAE36MK;260;D1/2



0.7 H.P.
(600 kW)

25 cfm
(11.8 L/s) Max

3/8": 3.7 Lbs. (1.7 Kg): Short
21/36": 3.9 Lbs (1.8 Kg): Short
3/8": 4.3 Lbs. (1.9 Kg): Extended
21/36": 4.5 Lbs (2.0 Kg): Extended

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



1.2 H.P.
(900 W)

35 cfm
(16.5 L/s) Max

3/8": 4.5 Lbs. (2.0 Kg): Short
21/36": 4.7 Lbs (2.1 Kg): Short
3/8": 5.1 Lbs. (2.3 Kg): Extended
21/36": 5.3 Lbs (2.4 Kg): Extended

3/8" NPT Inlet
1/2" (13 mm) Hose Size

STANDARD EQUIPMENT

- Tool
- Operating Instructions and Service Manual

300DRA(X)M, 300DRAE(X)M, 400DRA(X)M, 400DRAE(X)M Series Alternate Options

Case Material



Steel Case

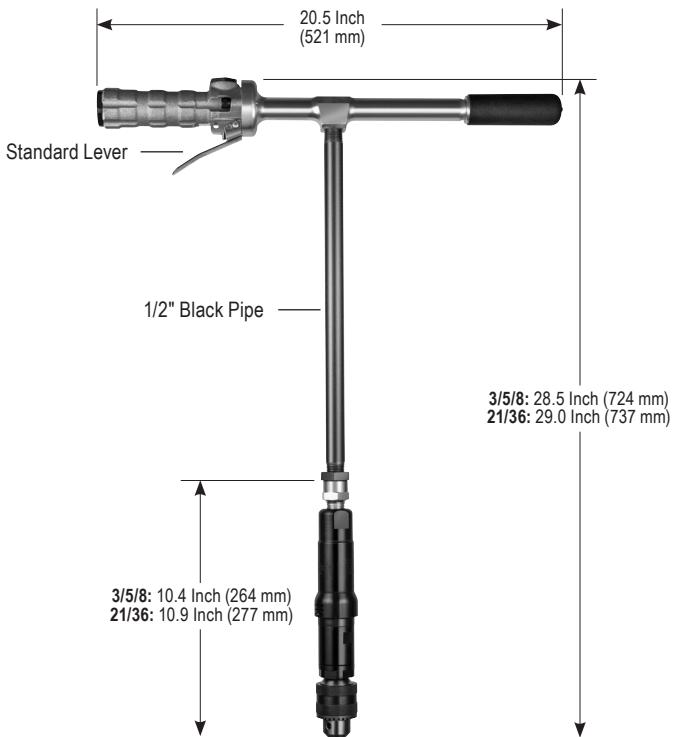
Lever Style



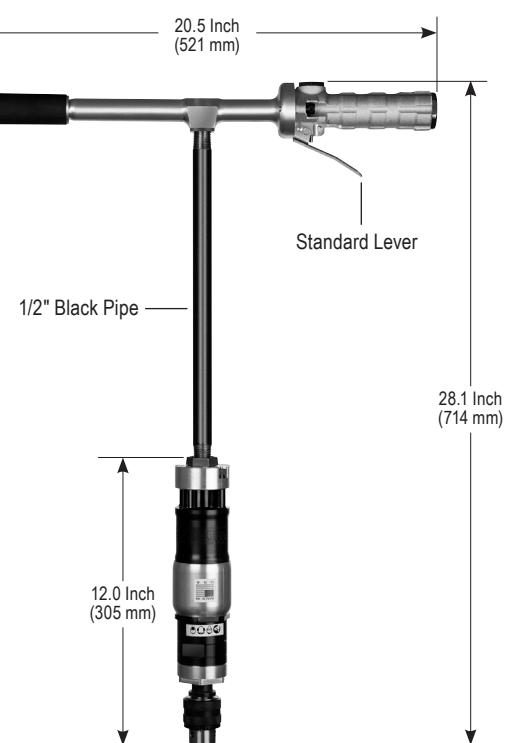
Standard Lever

Floor Drills

400FD(X)M Series


400FD3ML;5500;D1/2;P15

517FD1M Series


517FD1ML;4000;D1/2;P15

Output	Gear Ratio / Rated Speed	Lever Style	MODEL NUMBER	Output	Gear Ratio / Rated Speed	MODEL NUMBER
1/2" (13 mm) Drill Chuck	3:1 / 5500 RPM	Standard Lever	400FD3M;5500;D1/2;P15	1/2" (13 mm) Drill Chuck	4:1 / 4000 RPM	517FD1ML;4000;D1/2;P15
		Safety Lever	400FD3MK;5500;D1/2;P15			
	5:1 / 4000 RPM	Standard Lever	400FD5M;4000;D1/2;P15			
		Safety Lever	400FD5MK;4000;D1/2;P15			
	8:1 / 2500 RPM	Standard Lever	400FD8M;2500;D1/2;P15			
		Safety Lever	400FD8MK;2500;D1/2;P15			
	21:1 / 900 RPM	Standard Lever	400FD21M;900;D1/2;P15			
		Safety Lever	400FD21MK;900;D1/2;P15			
	36:1 / 550 RPM	Standard Lever	400FD36M;550;D1/2;P15			
		Safety Lever	400FD36MK;550;D1/2;P15			


 1.2 H.P.
 (900 W)

 3/8: 8.3 Lbs. (3.8 Kg)
 21/36: 8.5 Lbs (3.8 Kg)

 35 cfm
 (16.5 L/s) Max

 1/2" NPT Inlet
 3/8" (10mm) Hose Size

 1.5 H.P.
 (1125 W)


10.8 Lbs (4.9 Kg)


 35 cfm
 (16.5 L/s) Max

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

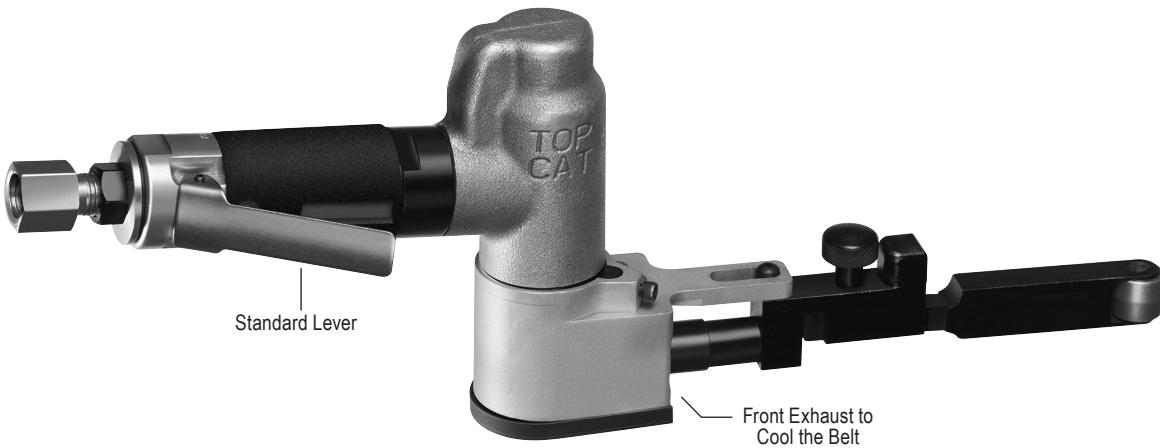
STANDARD EQUIPMENT

- Tool
- Operating Instructions and Service Manual



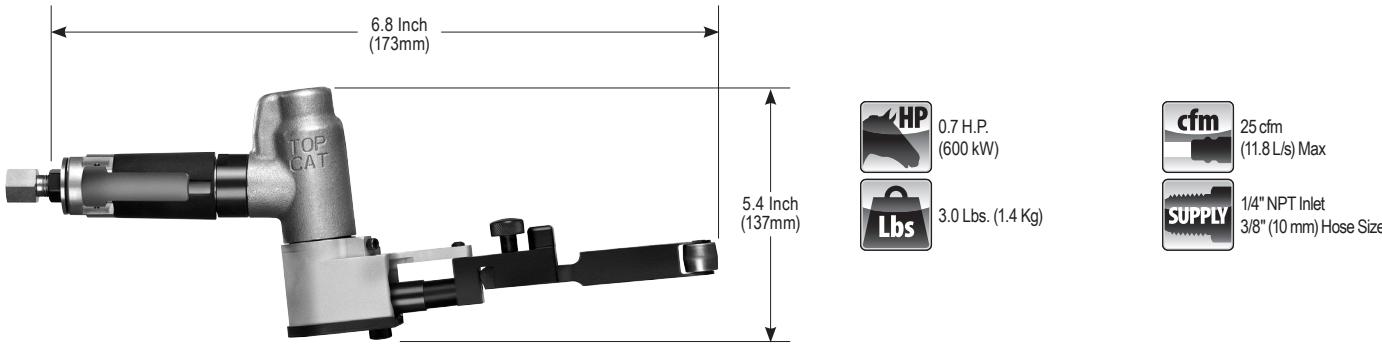
Belt Sander

300BL/K



The 300B Series is offered in a version with 4550 SFPM.

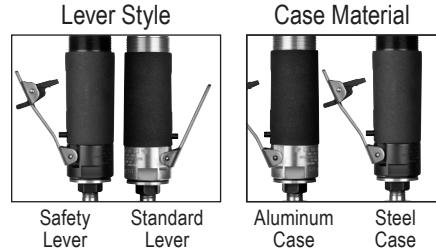
Belt Width	Belt Length	Rated Speed	Lever Style	Model Number
1/2 Inch	18 Inch	25000 RPM (5700 SFPM)	Standard Lever	300BL;25000;S1845
	20 1/2 Inch		Safety Lever	300BK;25000;S1845
	24 Inch		Standard Lever	300BL;25000;S20545
	24 Inch		Safety Lever	300BK;25000;S20545
	18 Inch		Standard Lever	300BL;25000;S2445
	20 1/2 Inch		Safety Lever	300BK;25000;S2445
3/4 Inch	18 Inch		Standard Lever	300BL;25000;S1866
	20 1/2 Inch		Safety Lever	300BK;25000;S1866
	24 Inch		Standard Lever	300BL;25000;S20566
	24 Inch		Safety Lever	300BK;25000;S20566



300B Alternate Options

STANDARD EQUIPMENT

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



Belt Arm Assemblies

Belt Width	Belt Length	Part Number
1/2 Inch	18 Inch	AA-FBCT-S1845
3/4 Inch	18 Inch	AA-FBCT-S1866
1/2 Inch	20 1/2 Inch	AA-FBCT-S20545
3/4 Inch	20 1/2 Inch	AA-FBCT-S20566
1/2 Inch	24 Inch	AA-FBCT-S2445

Bench Grinder

66BVG

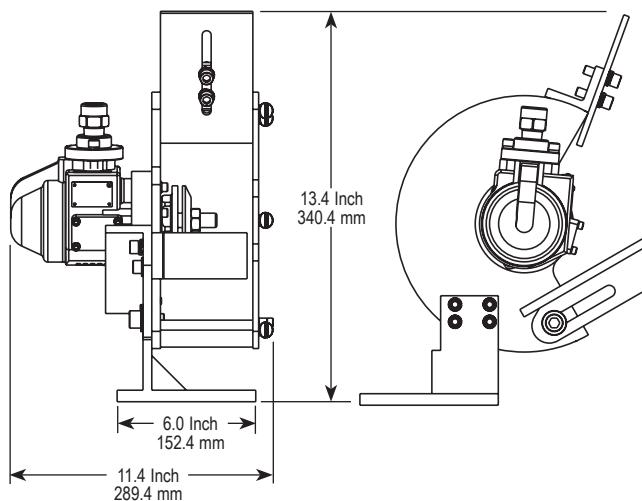


Adjustable Spark Arrestor

Adjustable Work Rest

MODEL NUMBER

66BVG;6000;9



4.0 H.P.
(3000 W)



51.0 Lbs (23.0 Kg)



25 cfm (11.8 L/s) Free
75 cfm (35.4 L/s) Max



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

STANDARD EQUIPMENT

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



Reinforced Type 1 Cut-Off Wheel (Type 41)



Diamond Wheel

Abrasive Cutting Tools



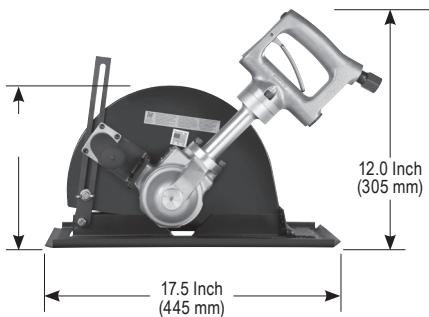
65VBW;5000;12



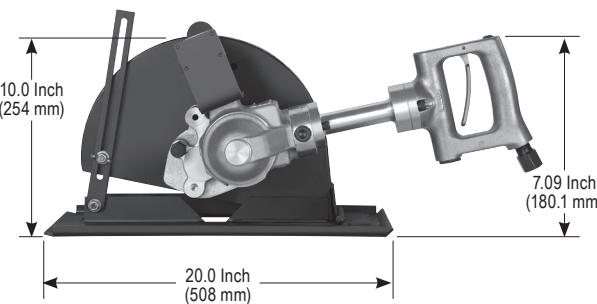
662VBW;3300;14

Guard Size	Spindle Type	Operating Speed	MODEL NUMBER	Guard Size	Spindle Type	Operating Speed	MODEL NUMBER
9 Inch	5/8-11 1" Spline	6000 RPM	65VBW;6000;941	12 Inch	1" Spline	3300 RPM	662VBW;3300;1241
12 Inch		5000 RPM	65VBW;5000;1241				662VBW;3300;1441
14 Inch		4000 RPM	65VBW;4000;1441	14 Inch			

Dimensions shown are for 12" guard. Other guards vary slightly.



Dimensions shown are for 14" guard. Other guards vary slightly.



4.0 H.P.
(3000 W)



65VBW: 23.9 Lbs. (10.8 Kg)
662VBW: 28.3 Lbs. (12.8 Kg)



25 cfm (11.8 L/s) Free
75 cfm (35.4 L/s) Max



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

STANDARD EQUIPMENT

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

Model Number	Depth of Cut		
	9 Inch (230mm)	12 Inch (300mm)	14 inch (360mm)
65VBW	2.5 Inch (64mm)	3.3 Inch (84mm)	4.3 Inch (109mm)
662VBW	N/A		



Wet Cutting Attachment

Scalers & Needle Scalers

SCALERS
Page Number

73



Tool Configuration

- 1/2 Square Style Chisel



TC-1

- 1/4 Octagon Style Chisel



TC-182

NEEDLE SCALERS
Page Number

74



Tool Configuration

- 1/2 Square Style Chisel



TC-1-N

- 1/4 Octagon Style Chisel



TC-182-N

HANDLES



Chipping Hammers

CHIPPING HAMMERS
Page Number

75



Tool Configuration

- 0.401 Round Shank Chisel



80 Series

- 0.371 Hex Shank Chisel



- 0.680 Round Shank Chisel

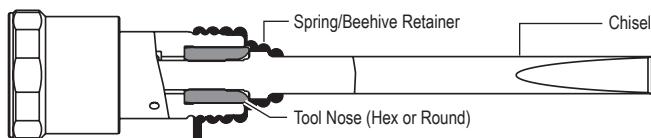


TC-183

METHODS OF CHISEL RETENTION

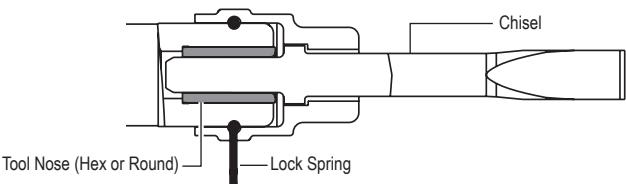
80 Series

Beehive Retainer



TC-183 Series

Chisel Retainer





Scalers

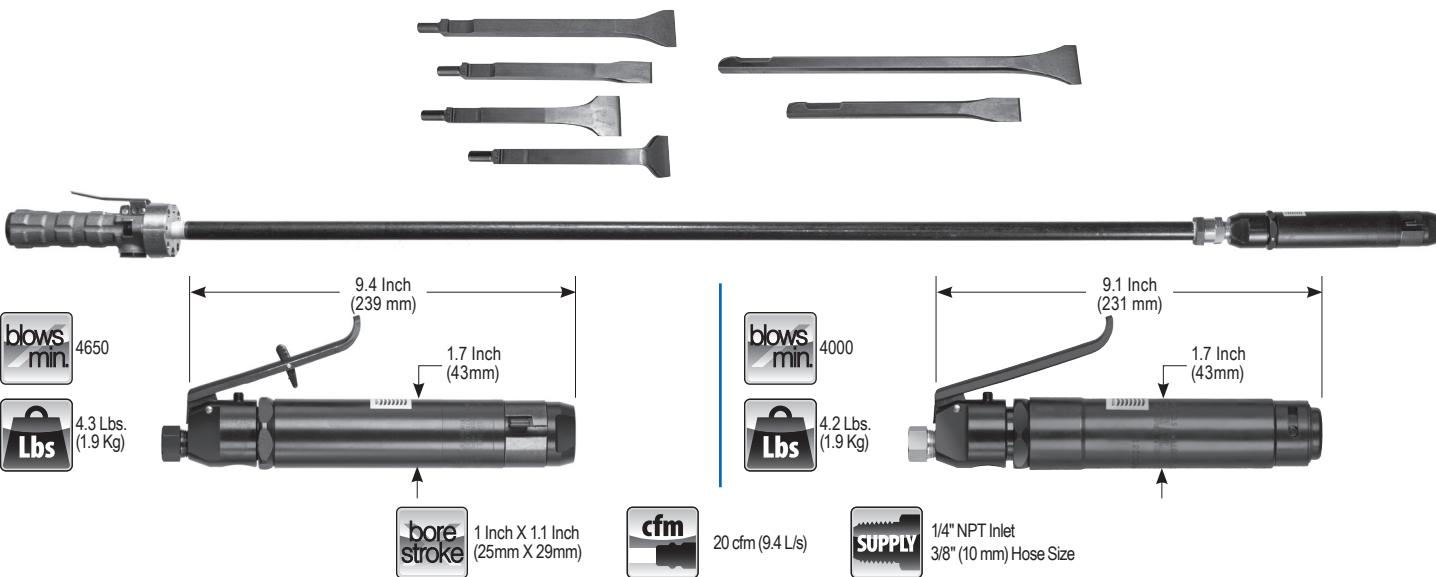
TC-1 Series



TC-182 Series



Chisel Type	Handle Type	MODEL NUMBER	Chisel Type	Handle Type	MODEL NUMBER
1/2" Square	Lever	TC-1-L	1/4" Octagon	Lever	TC-182-L
	Safety Lever	TC-1-K		Safety Lever	TC-182-K
	Pistol	TC-1-W		Pistol	TC-182-W
	Flow Through	TC-1-FT		Flow Through	TC-182-FT
	Pipe-Extended Lever	TC-1-FL;PL48		Pipe-Extended Lever	TC-182-FL;PL48



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

Other Sizes And Styles Available

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

Other Sizes And Styles Available



Needle Scalers

TC-1 Series



TC-1-NL



Standard Lever

Safety Lever

TC-182 Series

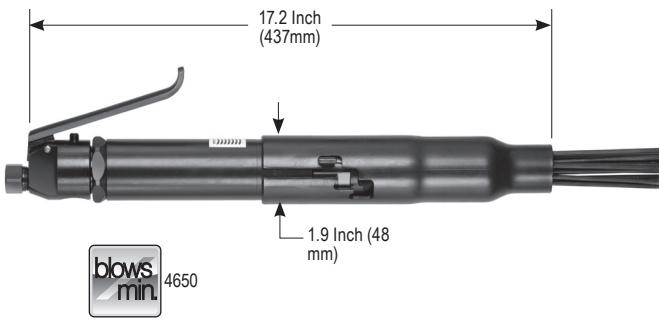


Pistol Handle

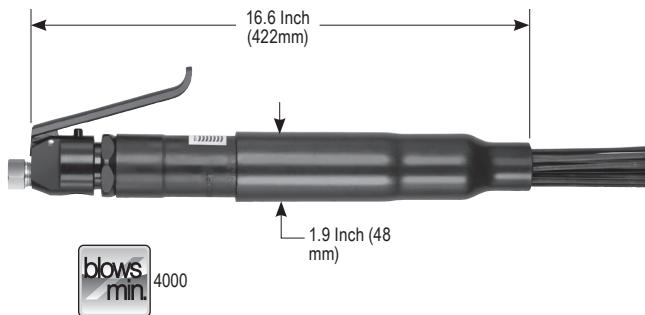


Flow Through Handle

Handle Type	MODEL NUMBER	Handle Type	MODEL NUMBER
Lever	TC-1-NL	Lever	TC-182-NL
Safety Lever	TC-1-NK	Safety Lever	TC-182-NK
Pistol	TC-1-NW	Pistol	TC-182-NW



blows.
min. 4650



blows.
min. 4000

**bore
stroke** 1 Inch X 1.1 Inch
(25mm X 29mm)

Lbs. 6.4 Lbs. (2.9 Kg)

cfm 20 cfm (9.4 L/s)

SUPPLY 1/4" NPT Inlet
3/8"(10 mm) Hose Size

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

Other Sizes And Styles Available

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

Other Sizes And Styles Available



Chipping Hammers

80 Series



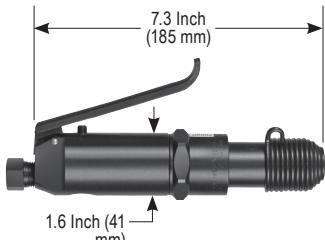
TC-183 Series



Handle Type	Handle Type	MODEL NUMBER	Handle Type	Handle Type	MODEL NUMBER
0.371 Hex Shank	Lever	80L;HEX	0.580 Hex Shank	Lever	TC-183-L;HEX
	Safety Lever	80K;HEX		Safety Lever	TC-183-K;HEX
	Pistol	80W;HEX		Pistol	TC-183-W;HEX
0.401 Round Shank	Lever	80L;RND	0.680 Round Shank	Lever	TC-183-L;RND
	Safety Lever	80K;RND		Safety Lever	TC-183-K;RND
	Pistol	80W;RND		Pistol	TC-183-W;RND

CHIPPING HAMMERS

bore	0.6 Inch X 1.4 Inch (15mm X 36mm)
stroke	
Lbs	2.8 Lbs. (1.3 Kg)
cfm	15 cfm (7.1 L/s)
SUPPLY	1/4" NPT Inlet 3/8" (10 mm) Hose Size



bore	0.9 Inch X 3.0 Inch (23mm X 76mm)
stroke	
Lbs	5.5 Lbs. (2.5 Kg)
cfm	25 cfm (11.8 L/s) Max
SUPPLY	1/4" NPT Inlet 3/8" (10 mm) Hose Size

Handle Types



Chisels – 0.401 Round

Description	Cutting Edge	Overall Length	Part Number
Flat Chisel	1/2" (12.7mm)	7" (178mm)	595002
Blank Chisel		7" (178mm)	595005

Other Sizes And Styles Available

Chisels – 0.580 Hexagon

Description	Cutting Edge	Overall Length	Part Number
Flat Chisel	1" (25.4mm)	9" (229cm)	839008
Flat Chisel	1" (25.4mm)	12" (30.5cm)	839009
Flat Chisel	1" (25.4mm)	18" (457cm)	839010
Moil Point		9" (229cm)	839018
Wide Flat	2" (50.8mm)	12" (30.5cm)	839016

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

Other Sizes And Styles Available

Chisels – 0.680 Round

Description	Cutting Edge	Overall Length	Part Number
Flat Chisel	1" (25.4mm)	9" (229cm)	839014
Flat Chisel	1" (25.4mm)	12" (30.5cm)	839083
Flat Chisel	1" (25.4mm)	18" (457cm)	839045
Moil Point		9" (229cm)	839023
Wide Flat	1.5" (38.1mm)	9" (229cm)	839019
Wide Flat	2" (50.8mm)	9" (229cm)	839017

Other Sizes And Styles Available

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

Motors

Top Cat Air Motors



MOTORS



77

300 SERIES MOTORS

- 0.7 H.P.
- 150-30000 Speed Range



78

400 SERIES MOTORS

- 1.2 H.P.
- 120-20000 Speed Range



79

517 & 527 SERIES MOTORS

- 1.5 and 2.0 H.P.
- 125-4000 Speed Range



80

664 SERIES MOTORS

- 4.0 H.P.
- 85-850 Speed Range



Motors

0.7 H.P. Motors



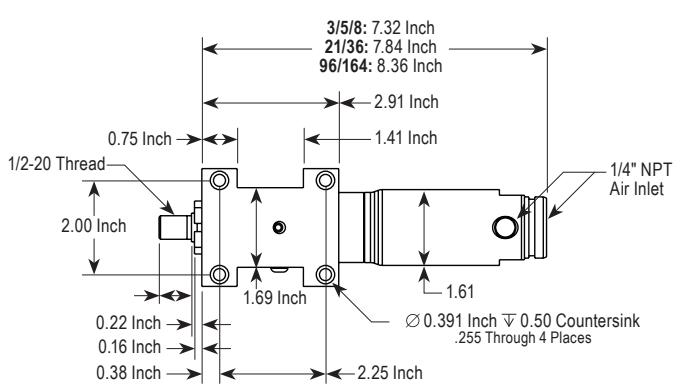
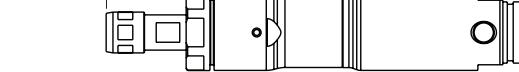
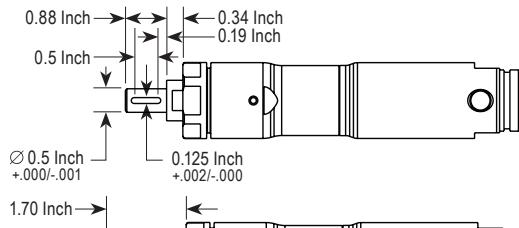
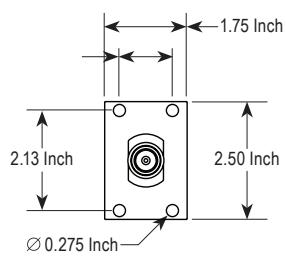
300MR;SPEED;C1/4



300M(X)MR;SPEED;K500



300M(X)MBR;SPEED;T520

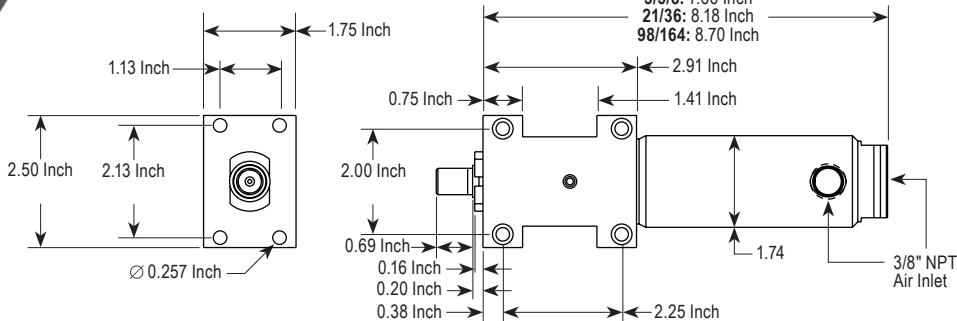
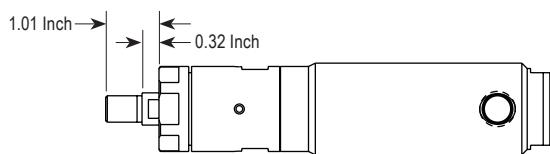
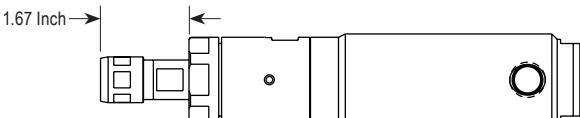
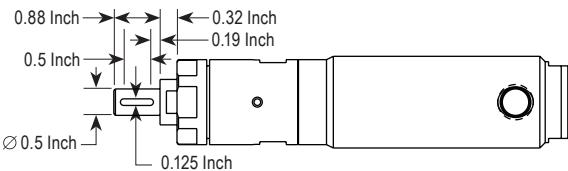


Output	Gear Ratio	RPM		Stall Torque		Weight	Round Housing	Flange and Base Mounting
		at Max H.P.	Free Speed	ft. lbs.	Nm		MODEL NUMBER	MODEL NUMBER
1/2 Inch Keyed	3:1	4125	8250	2.6	3.5	2.50 Lbs. (1.13 Kg)	300M3MR;8250;K500	300M3MBR;8250;K500
	5:1	3000	6000	3.5	4.8		300M5MR;6000;K500	300M5MBR;6000;K500
	8:1	1875	3750	5.8	7.9		300M8MR;3750;K500	300M8MBR;3750;K500
	21:1	650	1300	16.0	21.8	5.00 Lbs. (2.27 Kg)	300M21MR;1300;K500	300M21MBR;1300;K500
	36:1	400	800	26.7	36.3		300M36MR;800;K500	300M36MBR;800;K500
	98:1	150	300	73.7	99.8	7.50 Lbs. (3.39 Kg)	300M98MR;300;K500	300M98MBR;300;K500
	164:1	75	150	123.2	167.0		300M164MR;150;K500	300M164MBR;150;K500
1/2 X 20 Threaded	3:1	4125	8250	2.6	3.5	2.46 Lbs. (1.11 Kg)	300M3MR;8250;T520	300M3MBR;8250;T520
	5:1	3000	6000	3.5	4.8		300M5MR;6000;T520	300M5MBR;6000;T520
	8:1	1875	3750	5.8	7.9		300M8MR;3750;T520	300M8MBR;3750;T520
	21:1	650	1300	16.0	21.8	4.76 Lbs. (2.16 Kg)	300M21MR;1300;T520	300M21MBR;1300;T520
	36:1	400	800	26.7	36.3		300M36MR;800;T520	300M36MBR;800;T520
	98:1	150	300	73.7	99.8	6.69 Lbs. (3.03 Kg)	300M98MR;300;T520	300M98MBR;300;T520
	164:1	75	150	123.2	167.0		300M164MR;150;T520	300M164MBR;150;T520
Collet	1:1	15000	30000	0.8	1.1	1.80 Lbs. (0.82 Kg)	300MR;30000;C1/4	
	1:1	12500	25000	0.8	1.1		300MR;25000;C1/4	
	1:1	9000	18000	0.8	1.1	2.55 Lbs. (1.16 Kg)	307MR;18000;C1/4	
	3:1	4125	8250	2.6	3.5		300M3MR;8250;C1/4	300M3MBR;8250;C1/4
	5:1	3000	6000	3.5	4.8	2.57 Lbs. (1.16 Kg)	300M5MR;6000;C1/4	300M5MBR;6000;C1/4
	8:1	1875	3750	5.8	7.9		300M8MR;3750;C1/4	300M8MBR;3750;C1/4
	21:1	650	1300	16.0	21.8	4.87 Lbs. (2.21 Kg)	300M21MR;1300;C1/4	300M21MBR;1300;C1/4
	36:1	400	800	26.7	36.3		300M36MR;800;C1/4	300M36MBR;800;C1/4
	98:1	150	300	73.7	99.8	7.17 Lbs. (3.24 Kg)	300M98MR;300;C1/4	300M98MBR;300;C1/4
	164:1	75	150	123.2	167.0		300M164MR;150;C1/4	300M164MBR;150;C1/4

Note: The Flange & Base Mounting option adds 1.22 Lbs. (0.55 Kg) to weight

Motors

1.2 H.P. Motors



Output	Gear Ratio	RPM		Stall Torque		Weight	Round Housing	Flange and Base Mounting
		at Max H.P.	Free Speed	ft. lbs.	Nm		MODEL NUMBER	MODEL NUMBER
1/2 Inch Keyed	3:1	2250	5500	4.6	6.3	3.23 Lbs. (1.46 Kg)	400M3MR;5500;K500	400M3MBR;5500;K500
	5:1	2000	4000	6.2	8.4		400M5MR;4000;K500	400M5MBR;4000;K500
	8:1	1250	2500	10.3	14.0		400M8MR;2500;K500	400M8MBR;2500;K500
	21:1	450	900	28.4	38.6	5.53 Lbs. (2.51 Kg)	400M21MR;900;K500	400M21MBR;900;K500
	36:1	275	550	47.5	64.6		400M36MR;550;K500	400M36MBR;550;K500
	98:1	100	200	131.1	177.7	7.83 Lbs. (3.54 Kg)	400M98MR;200;K500	400M98MBR;200;K500
	164:1	60	120	219.1	297.1		400M164MR;120;K500	400M164MBR;120;K500
1/2 X 20 Threaded	3:1	2250	5500	4.6	6.3	3.12 Lbs. (1.41 Kg)	400M3MR;5500;T520	400M3MBR;5500;T520
	5:1	2000	4000	6.2	8.4		400M5MR;4000;T520	400M5MBR;4000;T520
	8:1	1250	2500	10.3	14.0		400M8MR;2500;T520	400M8MBR;2500;T520
	21:1	450	900	28.4	38.6	5.37 Lbs. (2.43 Kg)	400M21MR;900;T520	400M21MBR;900;T520
	36:1	275	550	47.5	64.6		400M36MR;550;T520	400M36MBR;550;T520
	98:1	100	200	131.1	177.7	7.62 Lbs. (3.44 Kg)	400M98MR;200;T520	400M98MBR;200;T520
	164:1	60	120	219.1	297.1		400M164MR;120;T520	400M164MBR;120;T520
Collet	1:1	10000	20000	1.3	1.8	2.53 Lbs. (1.15 Kg)	400MR;20000;C1/4	
	1:1	9000	18000	1.3	1.8		400MR;18000;C1/4	
	1:1	7500	15000	1.3	1.8	2.67 Lbs. (1.21 Kg)	407M;15000;C1/4	
	1:1	6000	12000	1.3	1.8		407M;12000;C1/4	
	3:1	2250	5500	4.6	6.3	3.30 Lbs. (1.49 Kg)	400M3MR;5500;C1/4	400M3MBR;5500;C1/4
	5:1	2000	4000	6.2	8.4		400M5MR;4000;C1/4	400M5MBR;4000;C1/4
	8:1	1250	2500	10.3	14.0		400M8MR;2500;C1/4	400M8MBR;2500;C1/4
	21:1	450	900	28.4	38.6	5.55 Lbs. (2.51 Kg)	400M21MR;900;C1/4	400M21MBR;900;C1/4
	36:1	275	550	47.5	64.6		400M36MR;550;C1/4	400M36MBR;550;C1/4
	98:1	100	200	131.1	177.7		400M98MR;200;C1/4	400M98MBR;200;C1/4
	164:1	60	120	219.1	297.1	7.77 Lbs. (3.52 Kg)	400M164MR;120;C1/4	400M164MBR;120;C1/4



Motors

517 Series Motors

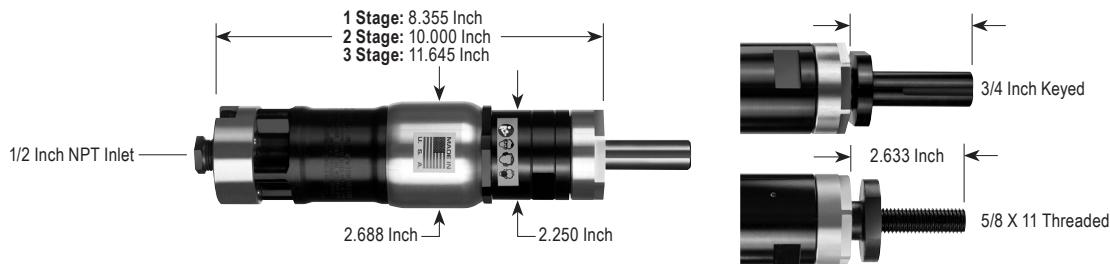


517H1MFT;K750

517H1MFT;T625

517H2MFT;T625

Output	Gear Ratio	RPM		Stall Torque		Weight	MODEL NUMBER
		at Max H.P.	Free Speed	ft. lbs.	Nm		
3/4 Inch Keyed	4:1	2000	4000	7.3	9.9	6.58 Lbs. (2.98 Kg)	517H1MFT;4000;K750
	16:1	500	1000	29.3	39.8	8.18 Lbs. (3.71 Kg)	517H2MFT;1000;K750
	64:1	125	250	117.3	159.9	9.78 Lbs. (4.43 Kg)	517H3MFT;250;K750
5/8 X 11 Threaded	4:1	2000	4000	7.3	9.9	6.15 Lbs. (2.79 Kg)	517H1MFT;4000;T625
	16:1	500	1000	29.3	39.8	7.75 Lbs. (3.51 Kg)	517H2MFT;1000;T625
	64:1	125	250	117.3	159.9	9.35 Lbs. (4.24 Kg)	517H3MFT;250;T625



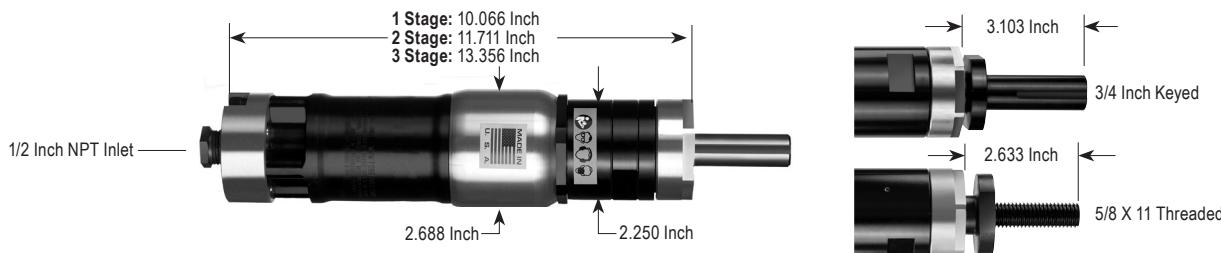
527 Series Motors



527H1MFT;K750

527H2MFT;T750

Output	Gear Ratio	RPM		Stall Torque		Weight	MODEL NUMBER
		at Max H.P.	Free Speed	ft. lbs.	Nm		
3/4 Inch Keyed	4:1	1500	3000	14.7	20.0	8.47 Lbs. (3.84 Kg)	527H1MFT;3000;K750
	16:1	375	750	58.7	79.8	10.07 Lbs. (4.56 Kg)	527H2MFT;750;K750
	64:1	90	180	234.7	319.2	11.67 Lbs. (5.29 Kg)	527H3MFT;180;K750
5/8 X 11 Threaded	4:1	1500	3000	14.7	20.0	8.04 Lbs. (3.64 Kg)	527H1MFT;3000;T625
	16:1	375	750	58.7	79.8	9.64 Lbs. (4.37 Kg)	527H2MFT;750;T625
	64:1	90	180	234.7	319.2	11.24 Lbs. (5.09 Kg)	527H3MFT;180;T625





Motors

664 Series Motors



664H1MFT;850;K1

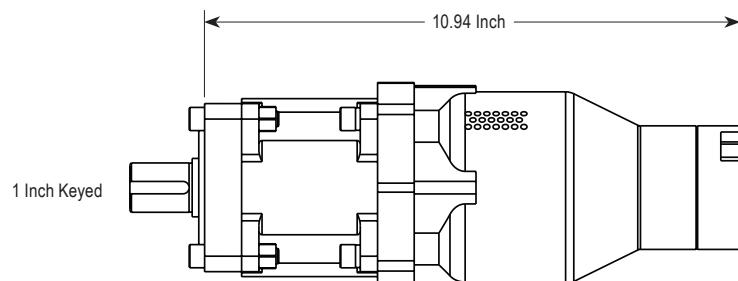


1 Inch Keyed

664H2MFT;85;K1

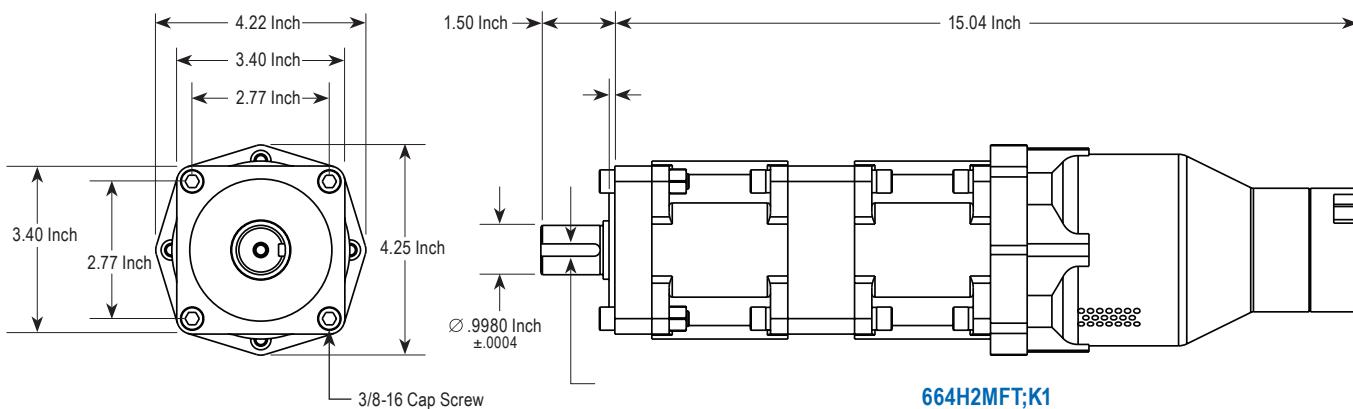
1 Inch Keyed

Output	Gear Ratio	RPM		Stall Torque		Weight	MODEL NUMBER
		at Max H.P.	Free Speed	ft. lbs.	Nm		
1 Inch Keyed	10:1	425	850	73.2	99.2	15.08 Lbs. (6.83 Kg)	664H1MFT;850;K1
	100:1	42	85	720.3	976.6	22.89 Lbs. (10.37 Kg)	664H2MFT;85;K1



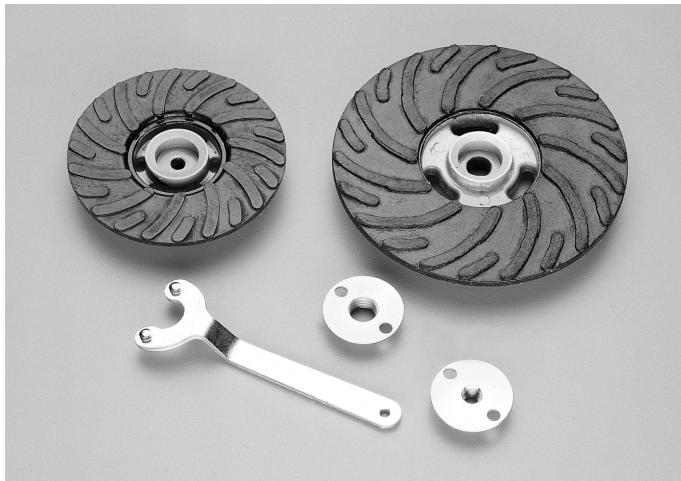
1 Inch Keyed

664H1MFT



664H2MFT;K1

Sanding Pads



SANDING PADS FOR VERTICAL SANDERS

Model	Size	Part Number	Max. Rated Speed
520V	7 Inch	849913	8500 RPM
	9 Inch	849914	6500 RPM
56S	7 Inch	849913	8500 RPM
	9 Inch	849914	6500 RPM

5/8-11 Nut	849259
Pin Wrench	102-SPWR

SANDING PADS FOR RIGHT ANGLE SANDERS

Model	Spindle Output	Size	Part Number	Max. Rated Speed
300RA(E)(X)M	5/8-11 Output Spindle	5 Inch	849848	10000 RPM
400RA(E) & 407RA(E)	3/8-24 Output Spindle	4 Inch	889271-A	12000 RPM
		5 Inch	849848-A	10000 RPM
	5/8-11 Output Spindle	4 Inch	889271	12000 RPM
		5 Inch	849848	10000 RPM
400RA(E)(X)M	5/8-11 Output Spindle	7 Inch	849913	8500 RPM
4520RA	5/8-11 Output Spindle	7 Inch	849913	8500 RPM
4620RA	5/8-11 Output Spindle	5 Inch	849848	10000 RPM
4620RA(X)M	5/8-11 Output Spindle	7 Inch	849913	8500 RPM
520RA	5/8-11 Output Spindle	7 Inch	849913	8500 RPM

3/8-24 Nut	849259-A
5/8-11 Nut	849259
Pin Wrench	102-SPWR

SANDING PAD ASSEMBLIES

Size	Thread	Part Number	Max. Rated Speed
7 Inch	5/8-11	AA_849914	6500 RPM
9 Inch		AA-849913	8500 RPM
5 Inch		AA-849848	10000 RPM
3/8-24	5/8-11	AA-849848-A	
4 Inch		AA-849271	12000 RPM
3/8-24		AA-849271-A	



Other Accessories

SCREEN HANDLE BUSHINGS

Description	Part Number
1/4" NPT Male to 1/4" NPT Female	400-27
3/8" NPT Male to 3/8" NPT Female	841552
3/8" NPT Male to 1/4" NPT Female	841553
1/2" NPT Male to 1/2" NPT Female	841555

COLLETS

Type	Description	Part Number
2 Pc. Collet (Split Style Collet)	3/8-24 Type 1 Spindle to 1/4" Collet	TC-1010
	3/8-24 Type 1 Spindle to 3/8" Collet	TC-1010-3/8
	3/8-24 Cone Spindle to 1/4" Collet	TC-1012A
	5/8-11 Cone Spindle to 1/4" Collet	TC-1104
3 Pc. Collet (Insert Style Collet)	3/8-24 Cone Spindle to XX Collet	AA-H209-XX

Note: The XX in the AA-H209 represents the insert size. (ex.- 1/4, 6MM,3/8, etc.)

CONE WHEEL ADAPTERS

Model	Description	Part Number
400GH4 / 407GH4 / 507H4	3/8-24 Type 1 Spindle to 3/8-24 Cone	400-77
520H 56H/65H	5/8-11 Type 1 Spindle to 5/8-11 Cone	700-4CW

Guards



GUARDS FOR VERTICAL GRINDERS

Type 27 Wheel Guards		
Model	Size	Part Number
520V	7 Inch	NV-G-727
	9 Inch	NV-G-927
54V	7 Inch	700-200
	9 Inch	700-201
64V	7 Inch	700-200
	9 Inch	700-201

Type 28 Wheel Guards		
Model	Size	Part Number
520V	7 Inch	NV-G-728
	9 Inch	NV-G-928
54V	7 Inch	700-200-28
	9 Inch	700-201-28
64V	7 Inch	700-200-28
	9 Inch	700-201-28

GUARDS FOR RIGHT ANGLE GRINDERS

Depressed Center Wheel (Type 27) Guards		
Model	Size	Part Number
300RA	4 Inch	HRGD-427
	4 1/2 Inch	HRGD-4527
300RAE	4 Inch	HRGD-427
	4 1/2 Inch	HRGD-4527
400RA	4 Inch	HRGD-427
	4 1/2 Inch	HRGD-4527
	5 Inch	HRGD-527
400RAE	4 Inch	HRGD-427
	4 1/2 Inch	HRGD-4527
	5 Inch	HRGD-527
410RA	4 Inch	HRGD-427
	4 1/2 Inch	HRGD-4527
410RAE	4 Inch	HRGD-427
	4 1/2 Inch	HRGD-4527
320RA	4 Inch	ERGD-427
420RA	4 Inch	ERGD-427
520RA	7 Inch	NRA-727
	9 Inch	NRA-927

Type 1 Cut-Off Wheel (Type 41) Guards		
Model	Size	Part Number
300RA	4 Inch	HRGD-441
	4 1/2 Inch	HRGD-4541
300RAE	4 Inch	HRGD-441
	4 1/2 Inch	HRGD-4541
400RA	4 Inch	HRGD-441
	4 1/2 Inch	HRGD-4541
	5 Inch	HRGD-541
400RAE	4 Inch	HRGD-441
	4 1/2 Inch	HRGD-4541
	5 Inch	HRGD-541
410RA	4 Inch	HRGD-441
	4 1/2 Inch	HRGD-4541
410RAE	4 Inch	HRGD-441
	4 1/2 Inch	HRGD-4541
320RA	4 Inch	ERGD-441
420RA	4 Inch	ERGD-441
520RA	10 Inch	NRA-1041

CUP WHEEL GUARDS

Type 11 Wheel Guards

Model	Size	Part Number
520V	4 Inch	NV-G-411
	4 Inch	560-46
	5 Inch	560-45
58C	6 Inch	412988
	5 Inch	560-45
	6 Inch	412988
68C	5 Inch	560-45
	6 Inch	412988

GUARDS FOR HORIZONTAL GRINDERS

Type 1 Wheels Guards

Model	Size	Part Number
400GH4	3 Inch	HG3-01
407GH4	4 Inch	HG4-01
507H4	3 Inch	HG3-01
507H4	4 Inch	HG4-01
520H	4 Inch	5204-01
	6 Inch	5206-01
56H	6 Inch	650-HS-56A
	8 Inch	650-HS-58A
65H	6 Inch	650-HS-56A
	8 Inch	650-HS-58A

GUARDS FOR EXTENDED GRINDERS

Type 1 Wheels Guards

Model	Size	Part Number
400GEH4	3 Inch	HG3-01
407GEH4	4 Inch	HG4-01
520HGEH	4 Inch	5204-01
	6 Inch	5206-01
65HGEH	6 Inch	5206-01

GUARDS FOR DIE GRINDERS

Type 1 Wheels Guards

Model	Size	Part Number
400GT4	3 Inch	4503-01
407GT4	4 Inch	4504-01

Maintenance Tools

MAINTENANCE TOOLS Bearing Drivers/Spindle Holders

Vertical Grinders

Model	Description	Bearing	Part Number
54V/58C/64V/68C	Bearing Driver	700-7 (Front)	1100-834
	Bearing Driver	700-9 (Rear)	1100-808
	Spindle Holder		1100-650

Right Angle Grinders/Sanders

Model	Description	Bearing	Part Number
300RA(E)	Bearing Driver	400-9	1100-802
320RA	Bearing Driver	400-9	1100-802
330RA / 340RA	Bearing Driver	400-9	1100-802
3101RA	Bearing Driver	400-9	1100-802
400RA(E)/410RA(E)	Bearing Driver	H9	1100-802
420RA	Bearing Driver	H9	1100-802
4101RA	Bearing Driver	H9	1100-802
4520RA/4620RA	Bearing Driver	H9	1100-802

Horizontal Grinders

Model	Description	Bearing	Part Number
300EH	Bearing Driver	400-9	1100-802
300GH	Bearing Driver	400-9	1100-802
	Coupling Nut Holder		1100-862
400GH	Bearing Driver	H9	1100-802
	Coupling Nut Holder		1100-862
56H/65H	Bearing Driver	550-10H (Middle)	1100-822
	Bearing Driver	700-9 (Rear)	1100-808
	Spindle Holder		1100-650

MAINTENANCE TOOLS Depressed Center Wheel Adapters

Vertical Grinders

Model	Wheel Size	Description	Part Number
54V/64V/520V	7 Inch or 9 Inch	Depressed Center Wheel Adapter	849269

Right Angle Grinders

Model	Wheel Size	Description	Part Number
300RA(E)/400RA(E)/410RA(E)	4"	3/8-24 (Long Spindle) to 3/8 ID Adapter Set	490-K
		3/8-24 (Long Spindle) to 5/8 ID Adapter Set	AA-ADT27-354
320RA/420RA	4 1/2"	3/8-24 (Short Spindle) to 3/8 ID Adapter Set	490-KR
		3/8-24 (Long Spindle) to 7/8 ID Adapter Set	AA-ADT27-375
400RA(E)	5"	5/8-11 to 7/8 ID Adapter Set	AA-ADT27-575
400RAE	6"		
520RA	7 Inch or 9 Inch	Depressed Center Wheel Adapter	849269



Repair Kits

Vertical Grinders/Sanders

Model	Description	Part Number
520V	Repair Kit	510254
54V/56S/58C	Repair Kit	510077
64V/68C	Repair Kit	510088

Horizontal Grinders/Sanders

Model	Description	Part Number
300EH	Repair Kit	510310
300GHD	Repair Kit	510314
300GH3M	Repair Kit	510314
	Gear Train Kit	510344
300GH5M / 300GH8M	Repair Kit	510314
	Gear Train Kit	510346
400GH/407GH	Repair Kit	510286
400GH3M	Repair Kit	510286
	Gear Train Kit	510344
400GH5M / 400GH8M	Repair Kit	510286
	Gear Train Kit	510346
517H1M	Repair Kit	510504
507H	Repair Kit	510492
520H	Repair Kit	510494
56H	Repair Kit	510081
65H	Repair Kit	510082

Extended Grinders

Model	Description	Part Number
400EH	Repair Kit	510250
400GEH	Repair Kit	510252
520HGEH	Repair Kit	510280
65HGEH	Repair Kit	510306
65NEH	Repair Kit	510496

Right Angle Grinders/Sanders

Model	Description	Part Number
300RA	Motor Repair Kit	510312
	Head Repair Kit	510318
300RAE	Motor Repair Kit	510312
	Head Repair Kit	510320
300RA3M	Motor Repair Kit	510312
	Gear Train Kit	510344
	Head Repair Kit	510318
300RA5M / 300RA8M	Motor Repair Kit	510312
	Gear Train Kit	510346
	Head Repair Kit	510318
300RAE3M	Motor Repair Kit	510312
	Gear Train Kit	510344
	Head Repair Kit	510320
300RAE5M / 300RAE8M	Motor Repair Kit	510312
	Gear Train Kit	510346
	Head Repair Kit	510320
300VGE	Repair Kit	510312
320RA (Threaded Output)	Motor Repair Kit	510312
320RA (Collet Output)	Motor Repair Kit	510312
330RAD/340RAD (Collet Output)	Motor Repair Kit	510312
400RA/407RA/410RA	Motor Repair Kit	510284
400RAE/407RAE/410RAE	Head Repair Kit	510318
400RA3M	Motor Repair Kit	510284
	Gear Train Kit	510344
	Head Repair Kit	510318
400RA5M/ 400RA8M	Motor Repair Kit	510284
	Gear Train Kit	510346
	Head Repair Kit	510318
400RAE3M	Motor Repair Kit	510284
	Gear Train Kit	510344
	Head Repair Kit	510510
400RAE5M/ 400RAE8M	Motor Repair Kit	510284
	Gear Train Kit	510346
	Head Repair Kit	510510
420RA (Threaded Output)	Motor Repair Kit	510284
420RAD (Collet Output)	Head Repair Kit	510330
520RA	Motor Repair Kit	510284
3101RA	Motor Repair Kit	510312
4101RA	Head Repair Kit	510338
4520RA	Motor Repair Kit	510284
4620RA	Head Repair Kit	510308
4620RA3M	Motor Repair Kit	510284
	Gear Train Kit	510344
	Head Repair Kit	510308
4620RA5M / 4620RA8M	Motor Repair Kit	510284
	Gear Train Kit	510346
	Head Repair Kit	510308

GENERAL NOTE: Right angle head repair kits do not include the angle gears.



Repair Kits

Die Grinders/Sanders

Model	Description	Part Number
300GE/307GE	Repair Kit	510312
300HGE/307HGE	Repair Kit	510300
300HGE3M/300GT3M	Motor Repair Kit	510486
	Gear Train Kit	510344
300HGE5M/300GT5M 300HGE8M/300GT8M	Motor Repair Kit	510486
	Gear Train Kit	510346
400GE/407GE	Repair Kit	510284
400HGE/407HGE 400GT/407GT	Repair Kit	510282
400HGE3M/400GT3M	Motor Repair Kit	510412
	Gear Train Kit	510344
400HGE5M/400GT5M 400HGE8M/400GT8M	Motor Repair Kit	510412
	Gear Train Kit	510346

Bench Grinder

Model	Description	Part Number
66VBG	Repair Kit	510484

Belt Sander

Model	Description	Part Number
300VBL	Repair Kit	510312

Abrasive Cut Off Tools

Model	Description	Part Number
65VBW	Repair Kit	510088
662VBW	Repair Kit	510498

Drills

Model	Description	Part Number
300D3M	Motor Repair Kit	510312
	Gear Train Kit	510344
300D5M / 300D8M	Motor Repair Kit	510312
	Gear Train Kit	510346
300DRA3M	Motor Repair Kit	510312
	Gear Train Kit	510344
	Head Repair Kit	510318
300DRA5M / 300DRA8M	Motor Repair Kit	510312
	Gear Train Kit	510346
	Head Repair Kit	510318
300DRAE3M	Motor Repair Kit	510312
	Gear Train Kit	510344
	Head Repair Kit	510320
300DRAE5M / 300DRAE8M	Motor Repair Kit	510312
	Gear Train Kit	510346
	Head Repair Kit	510320
400D3M	Motor Repair Kit	510284
	Gear Train Kit	510344
400D5M / 400D8M	Motor Repair Kit	510284
	Gear Train Kit	510346
400DRA3M	Motor Repair Kit	510284
	Gear Train Kit	510344
	Head Repair Kit	510318
400DRA5M / 400DRA8M	Motor Repair Kit	510284
	Gear Train Kit	510346
	Head Repair Kit	510318
400DRAE3M	Motor Repair Kit	510284
	Gear Train Kit	510344
	Head Repair Kit	510320
400DRAE5M / 400DRAE8M	Motor Repair Kit	510284
	Gear Train Kit	510346
	Head Repair Kit	510320
400FD3M	Motor Repair Kit	510284
	Gear Train Kit	510344
400FD5M / 400FD8M	Motor Repair Kit	510284
	Gear Train Kit	510346
517FD1M	Repair Kit	510504

Repair Kit Content Listing

Qty Per	Part ID	Description
510077		56S, 54V & 58C Repair Kit
5	550-6	Blade
1	700-7	Bearing
1	700-9	Bearing
1	1000-5	Wavy Washer
1	200-9	O-Ring

Qty Per	Part ID	Description
510081		56H Repair Kit
5	550-6	Blade
1	550-10H	Bearing
1	700-9	Bearing
1	1000-5	Wavy Washer
1	200-9	O-Ring
1	550-9H	Bearing Pair
1	550-11H	Lock Ring
2	700-7	Bearing

Qty Per	Part ID	Description
510082		65H Repair Kit
4	700-13	Blade
1	550-10H	Bearing
1	700-9	Bearing
1	1000-5	Wavy Washer
1	200-9	O-Ring
1	550-9H	Bearing Pair
1	550-11H	Lock Ring
2	700-7	Bearing

Qty Per	Part ID	Description
510088		64V & 68C Repair Kit
4	700-13	Blade
1	700-7	Bearing
1	700-9	Bearing
1	1000-5	Wavy Washer
1	200-9	O-Ring

Qty Per	Part ID	Description
510250		400EH Repair Kit
1	H11	Front Bearing
5	H60	Blade
1	H9	Rear Bearing
1	592016	Snap Ring
1	H23	O-Ring
1	H24	Bearing Cover
1	H25	Snap Ring
1	H32	O-Ring
1	847528	Rear Spindle Bearing
1	AA-HEA11	Bearing Set

Qty Per	Part ID	Description
510252		400GEH Repair Kit
1	H11	Front Bearing
5	H60	Blade
1	H9	Rear Bearing
1	592016	Snap Ring
1	H25	Snap Ring
1	H24	Bearing Cover
1	H23	O-Ring
1	H32	O-Ring
1	400-G-11	Bearing
1	AA-HG-11	Bearing Pair

Qty Per	Part ID	Description
510254		520V Repair Kit
1	NV9	Bearing
1	NV11	Front Bearing
4	N6	Rotor Blade
1	200-9	O-Ring

Qty Per	Part ID	Description
510260-A		520RA Repair Kit
1	NRA16	Bearing
1	NRA-9	Rear Output Bearing
1	NRA-8	Bearing
1	NV9	Bearing
4	N6	Rotor Blade
1	NRA43	Key
1	594030	O-Ring
1	591164	Screw
1	200-9	O-Ring

Qty Per	Part ID	Description
510280		520HGEH Repair Kit
4	N6	Rotor Blade
1	NV9	Bearing
1	NRA-8	Bearing
1	200-9	O-Ring
1	400-G-11	Bearing
1	864524	Front Spindle Bearing

Qty Per	Part ID	Description
510282		400 HGE/GT Repair Kit
1	H11	Front Bearing
5	H60	Blade
1	H9	Rear Bearing
1	592016	Snap Ring
1	H23	O-Ring
1	H24	Bearing Cover
1	H25	Snap Ring
1	H32	O-Ring
1	HH-11	Bearing

Qty Per	Part ID	Description
510284		400 Series Motor Repair Kit
1	H11	Front Bearing
5	H60	Blade
1	H9	Rear Bearing
1	592016	Snap Ring
1	H23	O-Ring
1	H24	Bearing Cover
1	H25	Snap Ring
1	H32	O-Ring

Qty Per	Part ID	Description
510286		400GH Repair Kit
1	H11	Front Bearing
5	H60	Blade
1	H9	Rear Bearing
1	592016	Snap Ring
1	H23	O-Ring
1	H24	Bearing Cover
1	H25	Snap Ring
1	H32	O-Ring
1	847528	Rear Spindle Bearing
1	AA-HG-11	Bearing Pair
1	592044	Snap Ring

Qty Per	Part ID	Description
510300		300 & 307 HGE Repair Kit
1	592067	Snap Ring
1	320-9W	Wafer
1	320-9R	O-Ring
1	592016	Snap Ring
1	400-9	Rear Bearing
4	F6	Blade
1	FH11	Bearing
1	594106	O-Ring
1	661-16	Bearing

Qty Per	Part ID	Description
510306		65HGEH Repair Kit
4	700-13	Blade
1	700-7	Bearing
1	700-9	Bearing
1	1000-5	Wavy Washer
1	200-9	O-Ring
1	400-G-11	Bearing
1	864524	Front Spindle Bearing

Qty Per	Part ID	Description
510308		4520 & 4620 RA & RA(X)M Head Repair Kit
1	NRA16	Bearing
1	NRA-9	Rear Output Bearing
1	NRA43	Key
1	594030	O-Ring
1	591164	Screw
1	NRA-8	Bearing
1	404-3	Upper Spindle Bearing

Qty Per	Part ID	Description
510310		300EH Repair Kit
1	592016	Snap Ring
1	592067	Snap Ring
1	400-9	Rear Bearing
4	F6	Blade
1	661-16	Bearing
1	320-9W	Wafer
1	320-9R	O-Ring
1	594106	O-Ring
1	AA-FE11	Bearing Pair

GENERAL NOTE: Right Angle Head Repair Kits Do Not Include The Angle Gears.

Repair Kit Content Listing

Qty Per	Part ID	Description
510312 300 & 307 Motor Repair Kit		
1	592067	Snap Ring
1	320-9W	Wafer
1	320-9R	O-Ring
1	400-9	Rear Bearing
1	592016	Snap Ring
1	661-16	Bearing
4	F6	Blade
1	594106	O-Ring
510314 300GH Repair Kit		
4	F6	Blade
1	661-16	Bearing
1	400-9	Rear Bearing
1	592016	Snap Ring
1	320-9R	O-Ring
1	320-9W	Wafer
1	592067	Snap Ring
1	594106	O-Ring
1	847528	Rear Spindle Bearing
1	AA-HG-11	Bearing Pair
1	592044	Snap Ring
510318 400 & 300 RA Head Repair Kit		
1	400-46	Lock Ring
1	661-16	Bearing
1	H11	Front Bearing
510320 300RAE & 310RAE Head Repair Kit		
1	400-46	Lock Ring
1	661-16	Bearing
1	H11	Front Bearing
2	590033	Bearing
510330 320 & 420 RA Head Repair Kit (Spindle)		
1	ERB22	Bearing
1	661-16	Bearing
1	ERB-23	Retaining Ring
1	ERB13	Bearing Shield
1	ERB24	Shield
1	ERB21	Bearing
1	847528	Rear Spindle Bearing
510322 320 & 420 RA Head Repair Kit (Collet & Sander)		
1	ERB22	Bearing
1	661-16	Bearing
1	ERB-23	Retaining Ring
1	ERB13-SA	Bearing Shield
1	ERB24-SA	Shield
1	ERB21	Bearing
1	847528	Rear Spindle Bearing

Qty Per	Part ID	Description
510334 340 & 347 RA Head Repair Kit		
1	ERB22	Bearing
1	661-16	Bearing
1	ERB24-SA	Shield
1	ERB13-SA	Bearing Shield
1	ERB-23	Retaining Ring
510338 3101 & 4101 RA Head Repair Kit		
1	HRD7	Bearing
1	HRDA7	Bearing
1	591206	Screw
1	HRD21	Needle Bearing
1	847528	Rear Spindle Bearing
1	HRD700	Bearing
510344 #3 Gear Train Repair Kit		
3	HMCA62	Caged Needle Bearing
3	HMC28-3	Planet Pin
1	H11	Front Bearing
510346 #5 & #8 Gear Train Repair Kit		
45	HMC60	Needle Bearing
1	HMC26-3	Planet Pin
1	H11	Front Bearing
510412 400 GT(X)M & HGE(X)M Motor Repair Kit		
1	H11	Front Bearing
5	H60	Blade
1	H9	Rear Bearing
1	592016	Snap Ring
1	H23	O-Ring
1	H24	Bearing Cover
1	H25	Snap Ring
1	H32	O-Ring
2	HH-11	Bearing
510484 65VBG Repair Kit		
4	700-13	Blade
2	700-7	Bearing
1	700-9	Bearing
1	1000-5	Wavy Washer
1	662-9A	Sealed Bearing
1	662-11A	Sealed Bearing
1	661-23	Seal
1	592061	Snap Ring
1	200-9	O-Ring
510504 517 FD & D1M Repair Kit		
4	500-6A	Blade
1	400-G-11	Bearing
1	NRA-8	Bearing
8	535-62	Planet Gear Bearing
1	590026	Bearing
1	700-7	Bearing
1	200-9	O-Ring
510510 400RAE & 410RAE Head Repair Kit		
1	400-46	Lock Ring
1	661-16	Bearing
1	H11	Front Bearing
1	590033	Bearing
1	404-3	Upper Spindle Bearing

Qty Per	Part ID	Description
510492 507H Repair Kit		
2	400-G-11	Bearing
4	500-6A	Blade
1	NRA-8	Bearing
1	AA-HG-11	Bearing Pair
1	200-9	O-Ring
1	592044	Snap Ring

Qty Per	Part ID	Description
510494 520H Repair Kit		
1	NV9	Bearing
4	N6	Rotor Blade
1	NRA-8	Bearing
1	200-9	O-Ring
1	864524	Front Spindle Bearing
1	400-G-11	Bearing

Qty Per	Part ID	Description
510496 65NEH Repair Kit		
4	700-13	Blade
1	700-7	Bearing
1	700-9	Bearing
1	1000-5	Wavy Washer
1	200-9	O-Ring
1	590034	Bearing
1	864524	Front Spindle Bearing

Qty Per	Part ID	Description
510498 662VBW Repair Kit		
4	700-13	Blade
1	700-7	Bearing
1	700-9	Bearing
1	1000-5	Wavy Washer
1	662-9A	Sealed Bearing
1	662-11A	Sealed Bearing
1	661-23	Seal
1	592061	Snap Ring
1	200-9	O-Ring

Qty Per	Part ID	Description
510504 517 FD & D1M Repair Kit		
4	500-6A	Blade
1	400-G-11	Bearing
1	NRA-8	Bearing
8	535-62	Planet Gear Bearing
1	590026	Bearing
1	700-7	Bearing
1	200-9	O-Ring

Qty Per	Part ID	Description
510510 400RAE & 410RAE Head Repair Kit		
1	400-46	Lock Ring
1	661-16	Bearing
1	H11	Front Bearing
1	590033	Bearing
1	404-3	Upper Spindle Bearing

GENERAL NOTE: Right Angle Head Repair Kits Do Not Include The Angle Gears.



T.C. Service Co. 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 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.

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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 ergonomic advancements, so that they can make tool selection recommendations.

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