

Die Grinders

Page Number	Model Number	Power	Motor Style	Description		
66	20G	0.1 H.P.	Non-Governed	Die Grinders with Fixed Size Collet Output		
70	250GE/250HGE	Non-Governed Die Grinders	Die Grinders			
70	300GE/300HGE		Non-governed	with Insert Style Collet Output		
70	400GE/400HGE	40115	Non-Governed			
70	400SH/400SH+6	1.2 H.P.	Governed			
68	400GT	400GT 1.2 H.P.	Non-Governed	Type 1 Wheel Grinders for Material Removal or Surface Conditioning		
68	407GT	1.2 11.1	Governed			
67	400GTCW	1.2 H.P.	Non-Governed	Cone Wheel Grinders for Material Removal		

Mounting of Wheels Proper Mounting of Proper Mounting of Proper Mounting of Smaller Type 1 Wheels 3/8-24 Cone Wheels **Inserted Tooling** (Burrs/Mounted Stones) Drive Flange Collet Mounted Abrasive or Carbide Burr Drive Flange Outer Wheel Flange Nut Overhang -The flange diameter must be at least 1/3 the wheel diameter for all Type 1 Wheel Wheel The drive flange diameter must be at least 1/3 the wheel diameter for all cone wheels. Overhang is the distance between the grinder chuck and the abrasive on the spindle. The larger the overhang, the lower the maximum safe operating speed. grinding wheels. The flange diameter must be at least 1/4 the wheel diameter for all Type 1 cut-off (Type 41) wheels.

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

Lever Style



Case Material

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



Speed/Guard Size Selection

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

Governed vs. Non-Governed Tools

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

	Speeds Normally Deemed for Surface Finishing Abrasives			4 Inch Type 1 Wheels	Speeds Normally Deemed for Burrs/Mounted Stones & Small Cut-off Wheels				
R.P.M.	12000	13000	14000	15000	16000	17000	18000	19000	20000
1.2 H.P.		407GH					400GH		
	Governed To	ool .	Governor Rear E	ndplate	Non-Gove	erned Tool	Rear Endplate		

20GM



Die Grinders 0.1 H.P. (75 W) • 60000 R.P.M.



Quick Order Number Model Exhaust Collet Maximum Ordering Number Direction Size Operating Speed Number 20G Side 20G

60000 RPM

20GM

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

1/8

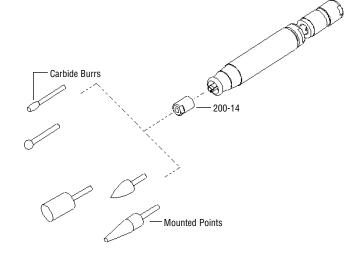
Front

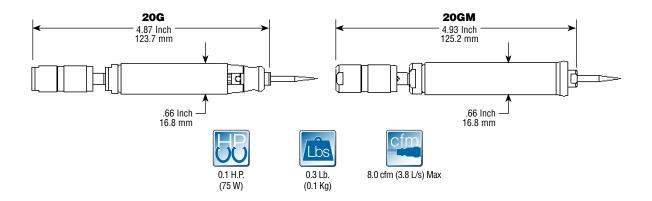
Air Inlet Size: 1/8" NPT Hose Size Recommendations: 1/4" (6 mm) Extra Charge Accessories

· Accessory Kit

Standard Equipment

- Tool
- . Operating Instructions and Service Manual
- 9/32" Wrench
- Lock Pin
- 3 Foot Length of Hose







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





Die Grinders for 3/8" Cone Wheels

1.2 H.P. (900 W)











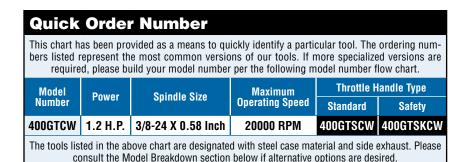


Air Inlet Size: 3/8" NPT Hose Size Recommendations: 1/2" Extra Charge Accessories

Safety Lever

Standard Equipment

• Tool • Wrench • Operating Instructions and Service Manual







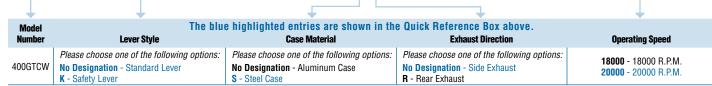




1.5 Lb. (0.7 Kg) Aluminum 1.7 Lb. (0.8 Kg) Steel

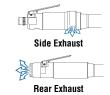


Example Model Number: 400GT K S R; 20000











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













Air Inlet Size: 3/8" NPT

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

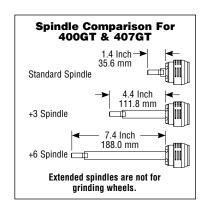
- Cone Wheel Adapters Heavy-Duty 2-pc. Collets Safety Lever **Standard Equipment**
- Tool Operating Instructions and Service Manual
- 2 Wrenches (sizes based on options)

Quick Order Number This chart has been provided as a means to

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

Model Number	Power	Guard Size	Maximum Operating Speed	Throttle Handle Type Standard Safety	
400GT	1.2 H.P.	3 Inch	18000 RPM	400GTS4;301	400GTS4K;301
407GT		4 Inch	15000 RPM	407GTS4;401	407GTS4K;401

The tools listed in the chart to the left are designated with steel case material and side exhaust. Please consult the Model Breakdown section below if alternative options are desired.





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

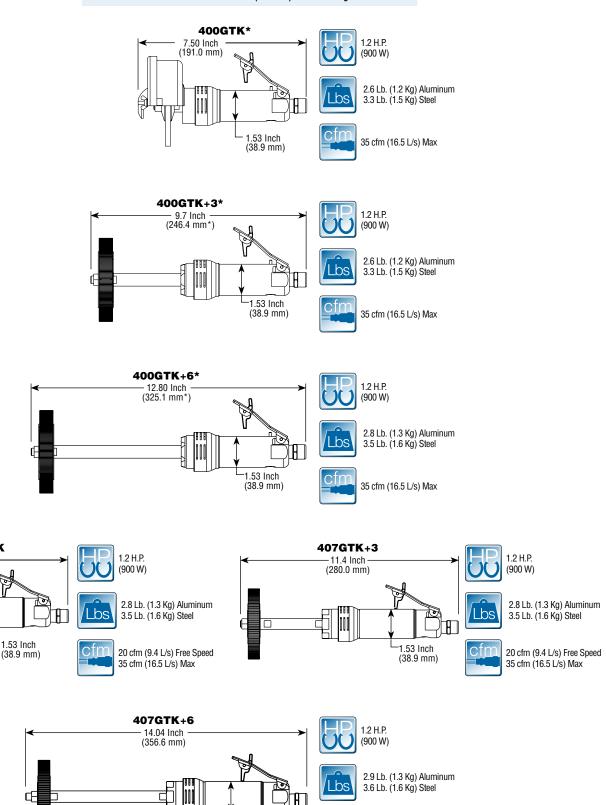






Governor Controlled Tool

400GT(+3)(+6) for use with flap wheel or internal use only.
*Rear exhaust adds 0.82 Inch (20.8mm) to overall length.



1.53 Inch (38.9 mm)

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

407GTK

9.20 Inch

(233.7 mm)



Insert Style Die Grinders For Carbide Burrs & Mounted Stones



Air Inlet Size:

250GE/250HGE/300GE/300HGE: 1/4" NPT

400GE/400HGE: 3/8" NPT

Hose Size Recommendations:

250GE/250HGE/300GE/300HGE: 3/8" (10mm)

400GE/400HGE: 1/2" (13mm)

Extra Charge Accessories

· Safety Lever

Standard Equipment

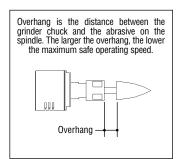
- Tool Operating Instructions and Service Manual
- 2 Wrenches (sizes based on options)

Quick Order Number

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

the following model number now chart.							
Model	Power	Collet Size	Maximum Operating Speed	Throttle Handle Type			
Number				Standard	Safety		
The tools listed below are designated with aluminum case material and rear exhaust. Please consult the Model Breakdown section below if alternative options are desired.							
250GE	0.4 H.P.	1/4	40000 RPM 30000 RPM	250GE;1/4	250GEK;1/4		
250HGE				250HGE;1/4	250HGEK;1/4		
300GE	0.7 H.P.			300GE;1/4	300GEK;1/4		
300HGE	U./ H.P.			300HGE;1/4	300HGEK;1/4		
The tools listed below are designated with steel case material and side exhaust. Please consult the Model Breakdown section below if alternative options are desired.							
400GE	4.0 0.11 0.14		20000 DDM	400GES;1/4	400GESK;1/4		
400HGE	1.2 H.P.	1/4	20000 RPM	400HGES;1/4	400HGESK;1/4		





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

The blue highlighted entries are shown in the Quick Reference Box above. Model **Lever Style Case Material Exhaust Direction Collet Size** Number **Operating Speed** 250GE Please choose one of the 40000: 40000 R.P.M 250HGE following options Please choose one of the No Designation -Rear Exhaust 300GE following options: F - Front Exhaust 30000: 30000 R.P.M 1/8 - 1/8 Inch Collet Please choose one of the Please choose one of the 300HGE following options: following options: 1/4 - 1/4 Inch Collet No Designation - Aluminum Case No Designation - Standard Lever 3/8 - 3/8 Inch Collet 400GE Please choose one of the K - Safety Lever S - Steel Case 3MM - 3mm Collet following options: 400HGE 6MM - 6mm Collet 18000: 18000 R.P.M No Designation - Side Exhaust 8MM - 8mm Collet 20000: 20000 R.P.M 400SH R - Rear Exhaust F - Front Exhaust 400SH+6



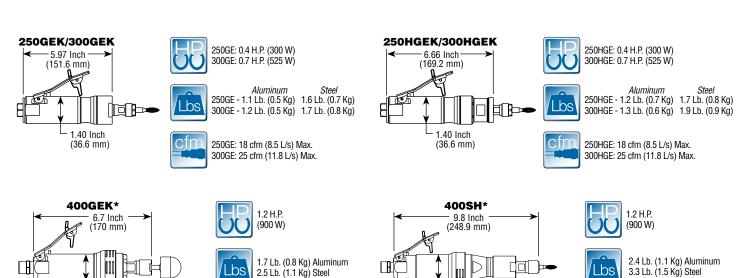




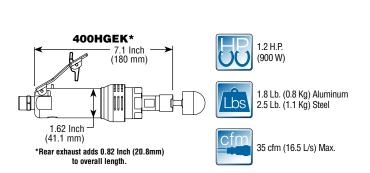




WARNING: Follow all recommendations from component and abrasive manufacturers for speeds and proper usage.



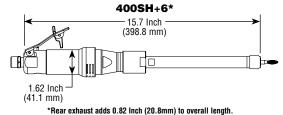
35 cfm (16.5 L/s) Max.

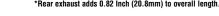


1.62 Inch (41.1 mm)

*Rear exhaust adds 0.82 Inch (20.8mm)

to overall length.







(41.1 mm)

Lbs

*Rear exhaust adds 0.82 Inch (20.8mm)

to overall length.

3.2 Lb. (1.4 Kg) Aluminum 4.1 Lb. (1.9 Kg) Steel



35 cfm (16.5 L/s) Max.

35 cfm (16.5 L/s) Max.

