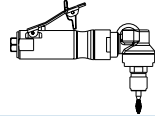
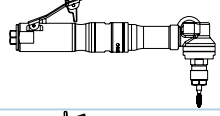
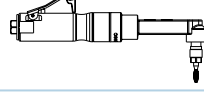
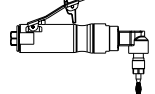


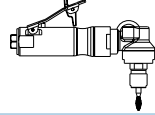
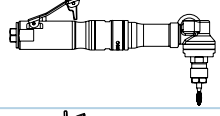
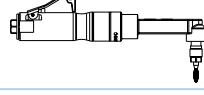
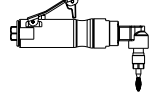

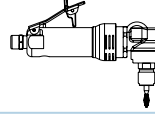
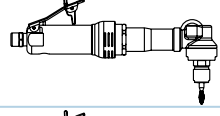
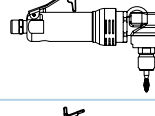
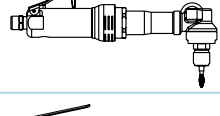
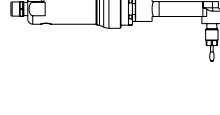





Right Angle Die Grinders

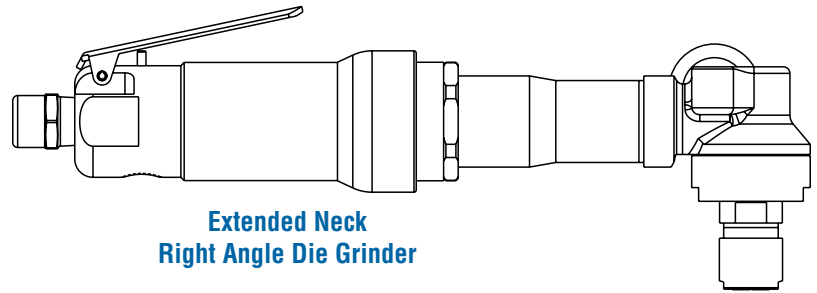
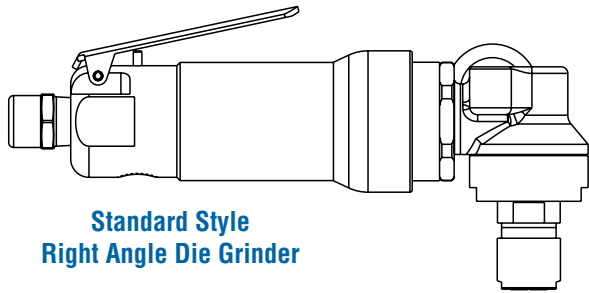
Section Contents

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

RIGHT ANGLE GRINDERS

Extend Neck vs Standard

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



Lever Style

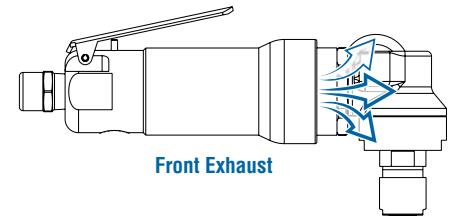
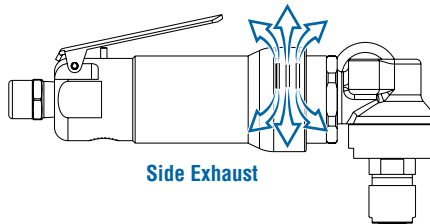
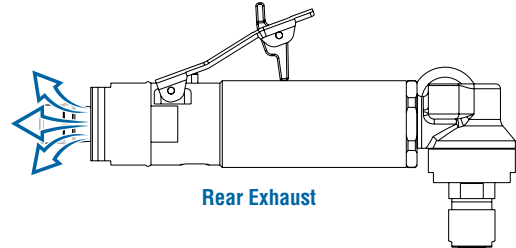


Case Material



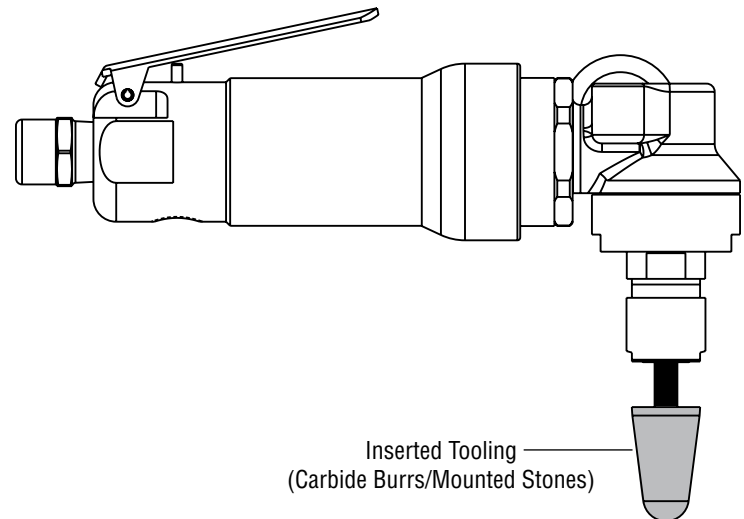
The choice of case material affects the weight and durability of the tool. By its nature, aluminum is lighter in weight than steel. Steel is also more durable in aggressive environments.

Exhaust Direction



Inserted Tool Mounting

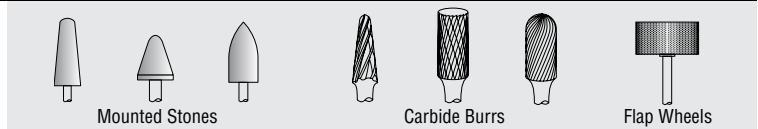
Overhang is the distance between the grinder chuck and the abrasive on the spindle. The larger the overhang, the lower the maximum safe operating speed. Please consult the abrasive manufacturer for proper mounting instructions for the abrasive you are using.



RIGHT ANGLE GRINDERS

Right Angle Collet Grinders

0.4 H.P. – 0.7 H.P. (300 – 525 W)



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

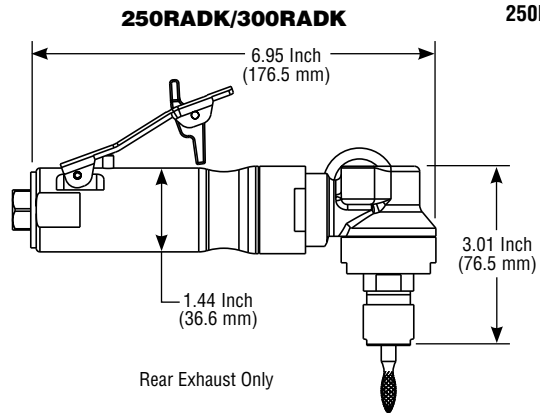
- Safety Lever
- Standard Equipment**
- Tool • Operating Instructions and Service Manual
- 2 Wrenches (sizes based on options)

RIGHT ANGLE GRINDERS

Quick Order Number				
Model Number	Collet Size	Maximum Operating Speed	Case Material	
			Aluminum	Steel
250RAD	1/4 Inch	20000 RPM	250RAD;1/4	250RADSK;1/4
300RAD			300RAD;1/4	300RADSK;1/4

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

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



- Front view of 250RAD/300RAD Series Tools**
- HP** 250RAD - 0.4 H.P. (300 W)
300RAD - 0.7 H.P. (525 W)
 - Lbs** *Aluminum* 250RAD - 2.5 Lbs. (1.1 Kg)
Steel 300RAD - 2.0 Lbs. (0.9 Kg)
 - cfm** 250RAD - 18 cfm (8.5 L/s)
300RAD - 25 cfm (11.8 L/s)

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

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

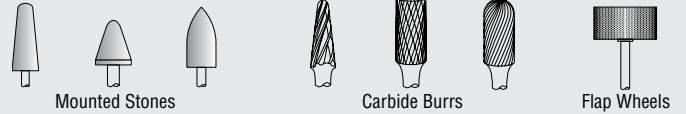
Model Number	Lever Style	Case Material	Operating Speed	Collet Size
250RAD	Please choose one of the following options: No Designation - Standard Lever K - Safety Lever	Please choose one of the following options: No Designation - Aluminum Case S - Steel Case	20000 : 20000 R.P.M.	Please choose one of the following options: 1/8 - 1/8 Inch Collet 1/4 - 1/4 Inch Collet 3/8 - 3/8 Inch Collet 3MM - 3mm Collet 6MM - 6mm Collet 8MM - 8mm Collet
300RAD			15000 : 15000 R.P.M.	



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

Right Angle Collet Grinders

0.4 H.P. – 0.7 H.P. (300 – 525 W)



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

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

Quick Order Number				
Model Number	Collet Size	Maximum Operating Speed	Case Material	
			Aluminum	Steel
250RAED	1/4 Inch	20000 RPM	250RAED;1/4	250RAEDS;1/4
300RAED		15000 RPM	300RAED;1/4	300RAEDS;1/4

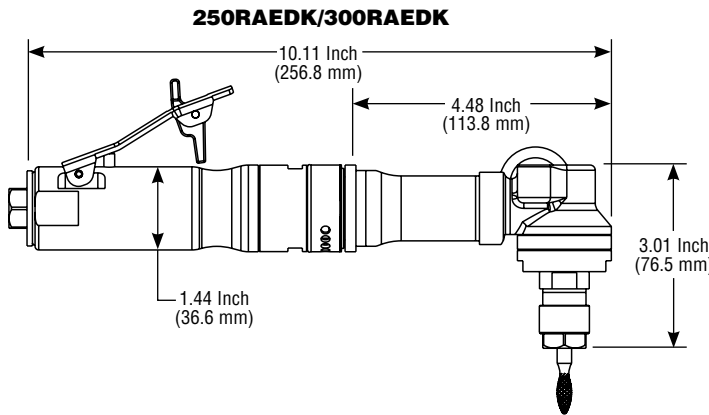
All the versions listed in the table will be supplied with a standard lever throttle (class 1). A safety lever throttle (class 2) is also available.

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



Front view of 250RAED/300RAED Series Tools

RIGHT ANGLE GRINDERS



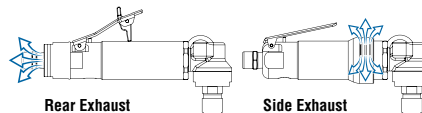
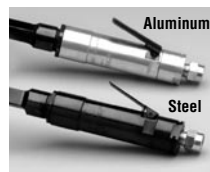
- HP** 250RAED - 0.4 H.P. (300 W)
300RAED - 0.7 H.P. (525 W)
- Lbs** Aluminum 250RAED - 2.9 Lbs. (1.3 Kg)
300RAED - 3.1 Lbs. (1.4 Kg)
Steel 3.4 Lbs. (1.5 Kg)
3.5 Lbs. (1.6 Kg)
- cfm** 250RAED - 18 cfm (8.5 L/s)
300RAED - 25 cfm (11.8 L/s)

Example Model Number: **250RAED K S R ; 20000 ; 1/4**

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

Model Number	Lever Style	Case Material	Exhaust Direction	Operating Speed	Collet Size
250RAED	Please choose one of the following options: No Designation - Standard Lever K - Safety Lever	Please choose one of the following options: No Designation - Aluminum Case S - Steel Case	Please choose one of the following options: No Designation - Side Exhaust R - Rear Exhaust	20000 - 20000 R.P.M.	Please choose one of the following options: 1/8 - 1/8 Inch Collet 1/4 - 1/4 Inch Collet 3MM - 3mm Collet 6MM - 6mm Collet 8MM - 8mm Collet
300RAED				15000 - 15000 R.P.M.	

Geared Tool



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

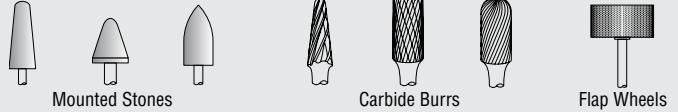
Right Angle Collet Grinders

0.4 H.P. – 0.7 H.P. (300 – 525 W)

280RADS/290RADS/
330RADS/340RADS



280RADK/290RADK/
330RADK/340RADK



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

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

Quick Order Number

Model Number	Collet Size	Maximum Operating Speed	Case Material	
			Aluminum	Steel
280RAD	1/4 Inch	16000 RPM	280RAD;1/4	280RADS;1/4
290RAD		26000 RPM	290RAD;1/4	290RADS;1/4
330RAD		12000 RPM	330RAD;1/4	330RADS;1/4
340RAD		20000 RPM	340RAD;1/4	340RADS;1/4

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

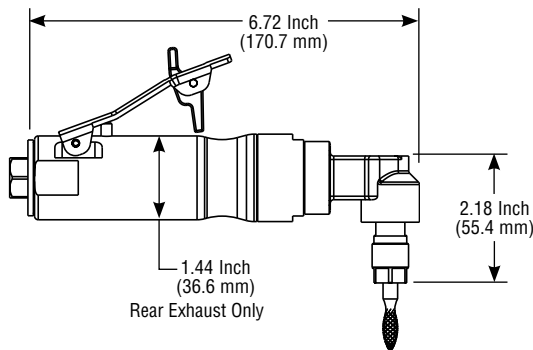
This chart has been provided as a means to quickly identify a particular tool. The ordering numbers listed represent the most common versions of our tools. If more specialized versions are required, please build your model number per the following model number flow chart.



The ER Heavy Duty Collet Is Available On 280RAD/290RAD & 330RAD/340RAD Series

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

280RADK/290RADK/330RADK/340RADK



HP 280RAD/290RAD - 0.4 H.P. (300 W)
330RAD/340RAD - 0.7 H.P. (525 W)

Lbs *Aluminum Steel*
280RAD - 1.3 Lbs. (0.6 Kg) 1.8 Lbs. (0.8 Kg)
290RAD - 1.3 Lbs. (0.6 Kg) 1.8 Lbs. (0.8 Kg)
330RAD - 1.4 Lbs. (0.6 Kg) 2.0 Lbs. (0.9 Kg)
340RAD - 1.4 Lbs. (0.6 Kg) 2.0 Lbs. (0.9 Kg)

cfm 330RAD/340RAD - 18 cfm (8.5 L/s)
330RAD/340RAD - 25 cfm (11.8 L/s)

Example Model Number: **280RAD K S ; 16000 ; 1/4**

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

Model Number	Lever Style	Case Material	Operating Speed	Collet Size
280RAD	Please choose one of the following options: No Designation - Standard Lever K - Safety Lever	Please choose one of the following options: No Designation - Aluminum Case S - Steel Case	16000 - 16000 R.P.M.	Please choose one of the following options: 1/8 - 1/8 Inch Collet 1/4 - 1/4 Inch Collet 3MM - 3mm Collet 6MM - 6mm Collet
290RAD			26000 - 26000 R.P.M.	
330RAD			12000 - 12000 R.P.M.	
340RAD			20000 - 20000 R.P.M.	

Geared Tool

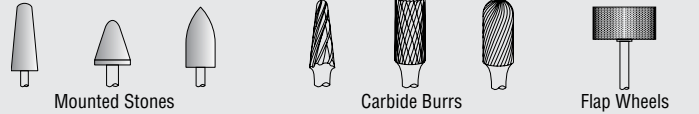


WARNING: Follow all recommendations from component and abrasive manufacturers for speeds and proper usage.

RIGHT ANGLE GRINDERS

Right Angle Collet Grinders

0.4 H.P. – 1.2 H.P. (300 – 900 W)



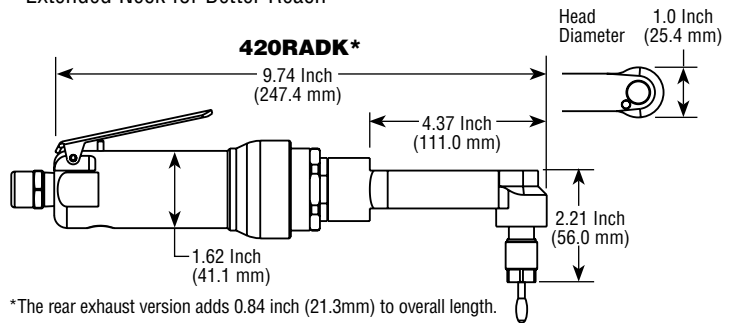
Air Inlet Size:
270RAD/320RAD Series: 1/4" NPT
420RAD Series: 3/8" NPT
Hose Size Recommendations:
270RAD/320RAD Series: 3/8" NPT (10 mm)
420RAD Series: 1/2" NPT (13 mm)
Extra Charge Accessories

- Safety Lever
- Standard Equipment**
- Tool with Wrench • Operating Instructions and Service Manual
- Special Features**
- Small Right Angle Head for Limited Space Grinding
- Extended Neck for Better Reach

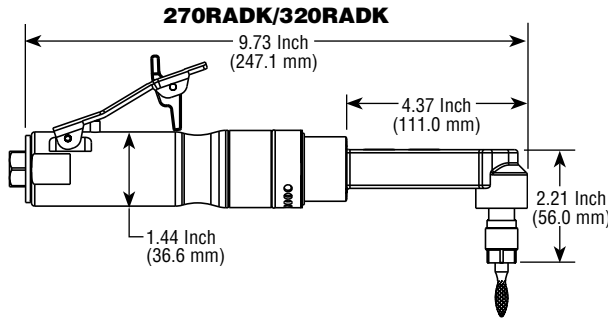
Quick Order Number				
Model Number	Collet Size	Maximum Operating Speed	Case Material	
			Aluminum	Steel
270RAD	1/4 Inch	26000 RPM	270RAD;1/4	270RADS;1/4
320RAD		20000 RPM	320RAD;1/4	320RADS;1/4
420RAD		13000 RPM	420RAD;1/4	420RADS;1/4

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

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



HP 1.2 H.P. (900 W) **Lbs** 2.5 Lb. (1.1 Kg) Aluminum, 3.0 Lb. (1.4 Kg) Steel **cfm** 35 cfm (16.5 L/s) Max



HP 270RAD - 0.4 H.P. (300 W), 320RAD - 0.7 H.P. (525 W)
Lbs 270RAD - 2.0 Lbs. (0.9 Kg), 320RAD - 2.1 Lbs. (1.0 Kg) Aluminum; 2.5 Lbs. (1.1 Kg), 2.6 Lbs. (1.2 Kg) Steel
cfm 270RAD - 18 cfm (8.5 L/s), 320RAD - 25 cfm (11.8 L/s)

Example Model Number: **270RAD K S R ; 26000 ; 1/4**

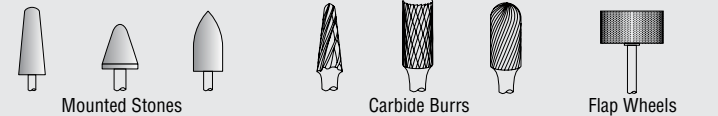
The blue highlighted entries are shown in the Quick Reference Box above.

Model Number	Lever Style	Case Material	Exhaust Direction	Operating Speed	Collet Size
270RAD	Please choose one of the following options: No Designation - Standard Lever K - Safety Lever	Please choose one of the following options: No Designation - Aluminum Case S - Steel Case	Please choose one of the following options: No Designation - Side Exhaust R - Rear Exhaust	26000 - 26000 R.P.M.	Please choose one of the following options: 1/8 - 1/8 Inch Collet 1/4 - 1/4 Inch Collet 3MM - 3mm Collet 6MM - 6mm Collet
320RAD				20000 - 20000 R.P.M.	
420RAD				13000 - 13000 R.P.M.	
Geared Tool	Safety Lever Regular Lever	Aluminum Steel	Rear Exhaust Side Exhaust		

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

Right Angle Collet Grinders

1.2 H.P. (900 W)



Air Inlet Size: 3/8" NPT
Hose Size Recommendations: 1/2" (12.7 mm)
Extra Charge Accessories

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

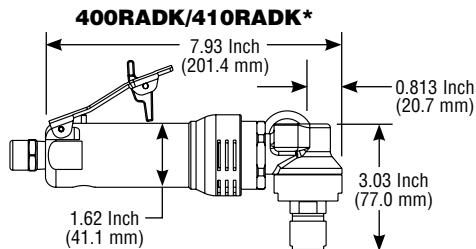
RIGHT ANGLE GRINDERS

Quick Order Number

Model Number	Collet Size	Maximum Operating Speed	Case Material	
			Aluminum	Steel
400RAD	1/4 Inch	10000 RPM	400RAD;1/4	400RADS;1/4
410RAD		13000 RPM	410RAD;1/4	410RADS;1/4

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

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



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



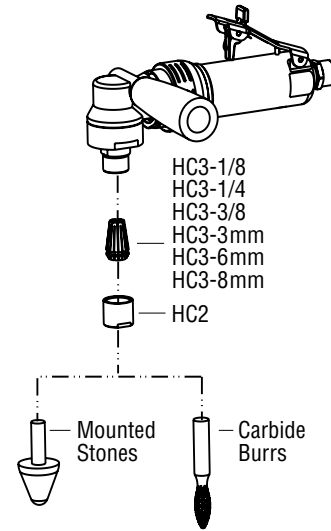
1.2 H.P. (900 W)



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



35 cfm (16.5 L/s) Max

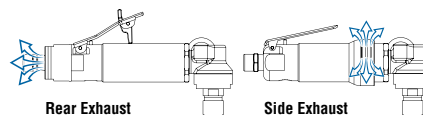


Example Model Number: **400RAD K S R ; 10000 ; 1/4**

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

Model Number	Lever Style	Case Material	Exhaust Direction	Operating Speed	Collet Size
400RAD	Please choose one of the following options: No Designation - Standard Lever K - Safety Lever	Please choose one of the following options: No Designation - Aluminum Case S - Steel Case	Please choose one of the following options: No Designation - Side Exhaust R - Rear Exhaust	10000 - 10000 R.P.M.	Please choose one of the following options: 1/8 - 1/8 Inch Collet 1/4 - 1/4 Inch Collet 3MM - 3mm Collet 6MM - 6mm Collet 8MM - 8mm Collet
410RAD				13000 - 13000 R.P.M.	

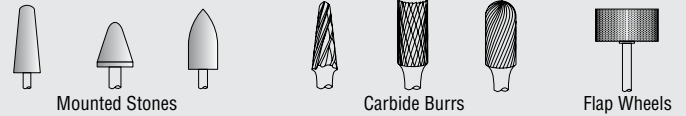
⚙️ Geared Tool



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

Right Angle Collet Grinders

1.2 H.P. (900 W)



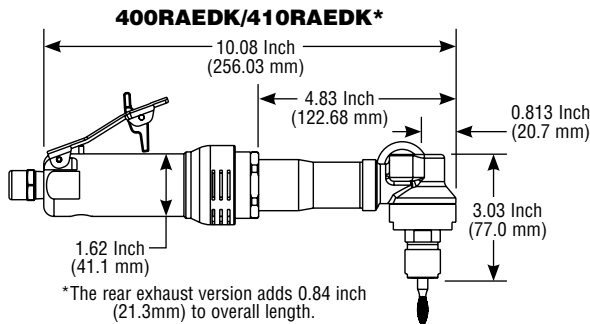
Air Inlet Size: 3/8" NPT
Hose Size Recommendations: 1/2" (12.7 mm)
Extra Charge Accessories

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

Quick Order Number				
Model Number	Collet Size	Maximum Operating Speed	Case Material	
			Aluminum	Steel
400RAED	1/4 Inch	10000 RPM	400RAED;1/4	400RAEDS;1/4
410RAED		13000 RPM	410RAED;1/4	410RAEDS;1/4

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

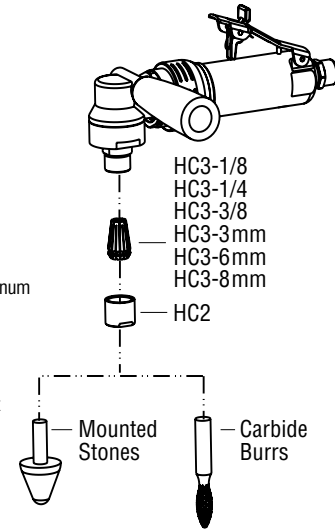
This chart has been provided as a means to quickly identify a particular tool. The ordering numbers listed represent the most common versions of our tools. If more specialized versions are required, please build your model number per the following model number flow chart.



HP 1.2 H.P. (900 W)

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

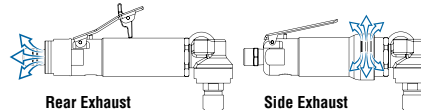
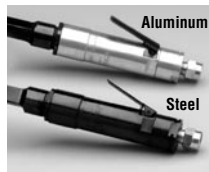
cfm 35 cfm (16.5 L/s) Max



Example Model Number: **400RAED K S R ; 10000 ; 1/4**

Model Number	Lever Style	Case Material	Exhaust Direction	Operating Speed	Collet Size
400RAED	Please choose one of the following options: No Designation - Standard Lever K - Safety Lever	Please choose one of the following options: No Designation - Aluminum Case S - Steel Case	Please choose one of the following options: No Designation - Side Exhaust R - Rear Exhaust	10000 - 10000 R.P.M.	Please choose one of the following options: 1/8 - 1/8 Inch Collet 1/4 - 1/4 Inch Collet 3/8 - 3/8 Inch Collet 3MM - 3mm Collet 6MM - 6mm Collet 8MM - 8mm Collet
410RAED				13000 - 13000 R.P.M.	

Geared Tool



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