

RTK-MASTR

# ROTARY THREAD<sup>®</sup> MASTER RESTORE KIT



# The Ultimate 15-Piece Restoration Master Kit

Restore threads,  
grooves, glands, keyways,  
gears and more!



- ① RT5
- ② RT5S1
- ③ RT4
- ④ RT5A
- ⑤ RT5S2
- ⑥ RT4S1
- ⑦ RT5B
- ⑧ RT3S1
- ⑨ RT2
- ⑩ RT1
- ⑪ RT2L
- ⑫ RTM5
- ⑬ RTM3
- ⑭ RTC1
- ⑮ RTM5







# RT1



## Specifications

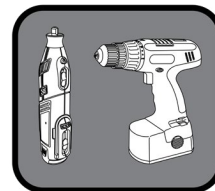
<b>Model Number</b> .....	RT1
<b>Thread Types</b> .....	Inch, Metric, Pipe, SAE, National
<b>Threads</b> .....	Male (Bolt), Female (Nut)
<b>Works With</b> .....	Dremel, Drill, Die Grinder (when used with RTC1)
<b>Shank Size</b> .....	1/8 inch (3.2 mm)
<b>Head Diameter</b> .....	3/8 inch (9 mm)
<b>Overall Length</b> .....	2 inch (50 mm)
<b>Minimum Working ID</b> .....	7/16 inch (11.1 mm)
<b>Maximum Working OD</b> .....	No Limit
<b>Minimum Pitch</b> .....	28 TPI (0.8 metric)
<b>Thread Angle</b> .....	60 degrees
<b>RPM</b> .....	Recommended 12,000 (Max 15,000)
<b>Lube Recommend</b> .....	Dry, Light Oil, or Mineral Spirits
<b>PPE</b> .....	Safety Glasses, Goggles, or Shield
<b>Accessories</b> .....	RTC1

ID = Inner Diameter • OD = Outer Diameter • RPM = Revolutions Per Minute • Metric measurements are the most actual sizes, inch measurements shown are rounded with the exception of arbor diameter • Lube will help flush area and prolong tool life • Non-flammable lubes are recommended. • PPE = Personal Protective Equipment

For safety, usage instructions, tips, videos, demos, and warranty details see additional resources online.

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# RT2



## Specifications

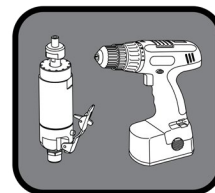
<b>Model Number</b> .....	RT2
<b>Thread Types</b> .....	Inch, Metric, Pipe, SAE, National
<b>Threads</b> .....	Male (Bolt), Female (Nut)
<b>Works With</b> .....	Drill, Die Grinder
<b>Shank Size</b> .....	1/4 inch (6.4 mm)
<b>Head Diameter</b> .....	3/4 inch (19 mm)
<b>Overall Length</b> .....	2 inch (50 mm)
<b>Minimum Working ID</b> .....	5/8 inch (15.9 mm)
<b>Maximum Working OD</b> .....	No Limit
<b>Minimum Pitch</b> .....	28 TPI (0.8 metric)
<b>Thread Angle</b> .....	60 degrees
<b>RPM</b> .....	Recommended 12,000 (Max 15,000)
<b>Lube Recommend</b> .....	Dry, Light Oil, or Mineral Spirits
<b>PPE</b> .....	Safety Glasses, Goggles, or Shield

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# RT2L



## Specifications

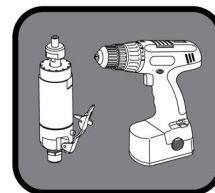
<b>Model Number</b> .....	RT2L
<b>Thread Types</b> .....	Inch, Metric, Pipe, SAE, National
<b>Threads</b> .....	Male (Bolt), Female (Nut)
<b>Works With</b> .....	Drill, Die Grinder
<b>Shank Size</b> .....	1/4 inch (6.4 mm)
<b>Head Diameter</b> .....	3/4 inch (19 mm)
<b>Overall Length</b> .....	4 inch (100 mm)
<b>Minimum Working ID</b> .....	5/8 inch (15.9 mm)
<b>Maximum Working OD</b> .....	No Limit
<b>Minimum Pitch</b> .....	28 TPI (0.8 metric)
<b>Thread Angle</b> .....	60 degrees
<b>RPM</b> .....	Recommended 12,000 (Max 15,000)
<b>Lube Recommend</b> .....	Dry, Light Oil, or Mineral Spirits
<b>PPE</b> .....	Safety Glasses, Goggles, or Shield

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# RT3S1



## Specifications

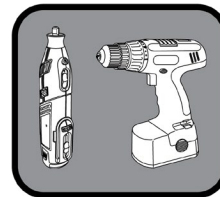
<b>Model Number</b> .....	RT3S1
<b>Profile Types</b> .....	Cylinder Glands & Grooves
<b>Works With</b> .....	Dremel, Drill, Die Grinder (when used with RTC1)
<b>Shank Size</b> .....	1/8 inch (3.2 mm)
<b>Head Diameter</b> .....	0.984 inch (25 mm)
<b>Mandrel Used</b> .....	RTM3
<b>Minimum Working ID</b> .....	1 inch (25.4 mm)
<b>Maximum Working OD</b> .....	No Limit
<b>Thickness of Disc</b> .....	0.040 inch (1 mm)
<b>Profile</b> .....	Square
<b>RPM</b> .....	Recommended 12,000 (Max 15,000)
<b>Lube Recommend</b> .....	Dry, Light Oil, or Mineral Spirits
<b>PPE</b> .....	Safety Glasses, Goggles, or Shield
<b>Accessories</b> .....	RTC1

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# RT4



## Specifications

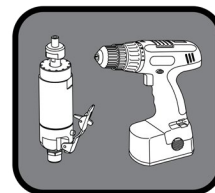
<b>Model Number</b> .....	RT4
<b>Thread Types</b> .....	Inch, Metric, Pipe, SAE, National
<b>Threads</b> .....	Male (Bolt), Female (Nut)
<b>Works With</b> .....	Drill, Die Grinder
<b>Shank Size</b> .....	1/4 inch (6.4 mm)
<b>Head Diameter</b> .....	1-5/8 inch (40 mm)
<b>Mandrel Used</b> .....	RTM5
<b>Thickness</b> .....	0.118 inch (3 mm)
<b>Minimum Working ID</b> .....	1-3/4 inch (42 mm)
<b>Maximum Working OD</b> .....	No Limit
<b>Minimum Pitch</b> .....	28 TPI (0.8 metric)
<b>Thread Angle</b> .....	60 degrees
<b>RPM</b> .....	Recommended 12,000 (Max 15,000)
<b>Lube Recommend</b> .....	Dry, Light Oil, or Mineral Spirits
<b>PPE</b> .....	Safety Glasses, Goggles, or Shield
<b>Accessories</b> .....	RTC1

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# RT4S1



## Specifications

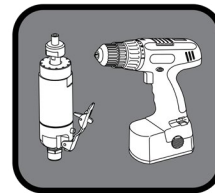
<b>Model Number</b> .....	RT4S1
<b>Profile Types</b> .....	Glands, Grooves, Snap-Ring
<b>Works With</b> .....	Drill, Die Grinder
<b>Shank Size</b> .....	1/4 inch (6.4 mm)
<b>Head Diameter</b> .....	1-5/8 inch (40 mm)
<b>Mandrel Used</b> .....	RTM5
<b>Minimum Working ID</b> .....	1-3/4 inch (42 mm)
<b>Maximum Working OD</b> .....	No Limit
<b>Thickness of Disc</b> .....	0.040 inch (1 mm)
<b>Profile</b> .....	Square
<b>RPM</b> .....	Recommended 12,000 (Max 15,000)
<b>Lube Recommend</b> .....	Dry, Light Oil, or Mineral Spirits
<b>PPE</b> .....	Safety Glasses, Goggles, or Shield
<b>Accessories</b> .....	RTC1

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# RT5



## Specifications

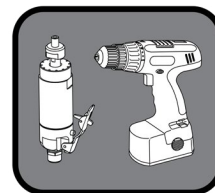
<b>Model Number</b> .....	RT5
<b>Thread Types</b> .....	Inch, Metric, Pipe, SAE, National
<b>Threads</b> .....	Male (Bolt), Female (Nut)
<b>Works With</b> .....	Drill, Die Grinder
<b>Shank Size</b> .....	1/4 inch (6.4 mm)
<b>Head Diameter</b> .....	2 inch (50 mm)
<b>Mandrel Used</b> .....	RTM5
<b>Thickness</b> .....	0.315 inch (4 mm)
<b>Minimum Working ID</b> .....	2-1/8 inch (54 mm)
<b>Maximum Working OD</b> .....	No Limit
<b>Minimum Pitch</b> .....	20 TPI (0.8 metric)
<b>Thread Angle</b> .....	60 degrees
<b>RPM</b> .....	Recommended 12,000 (Max 15,000)
<b>Lube Recommend</b> .....	Dry, Light Oil, or Mineral Spirits
<b>PPE</b> .....	Safety Glasses, Goggles, or Shield

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# RT5A



## Specifications

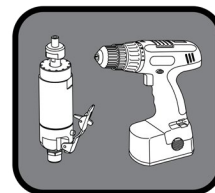
<b>Model Number</b> .....	RT5A
<b>Thread Types</b> .....	ACME Threads
<b>Threads</b> .....	Male (Bolt), Female (Nut)
<b>Works With</b> .....	Drill, Die Grinder
<b>Shank Size</b> .....	1/4 inch (6.4 mm)
<b>Head Diameter</b> .....	2 inch (50 mm)
<b>Mandrel Used</b> .....	RTM5
<b>Thickness</b> .....	0.315 inch (4 mm)
<b>Minimum Working ID</b> .....	2-1/8 inch (54 mm)
<b>Maximum Working OD</b> .....	No Limit
<b>Minimum Pitch</b> .....	16
<b>Thread Angle</b> .....	29 degrees
<b>RPM</b> .....	Recommended 12,000 (Max 15,000)
<b>Lube Recommend</b> .....	Dry, Light Oil, or Mineral Spirits
<b>PPE</b> .....	Safety Glasses, Goggles, or Shield

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# RT5B



## Specifications

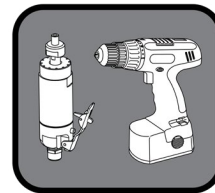
<b>Model Number</b> .....	RT5B
<b>Thread Types</b> .....	BUTTRESS Threads
<b>Threads</b> .....	Male (Bolt), Female (Nut)
<b>Works With</b> .....	Drill, Die Grinder
<b>Shank Size</b> .....	1/4 inch (6.4 mm)
<b>Head Diameter</b> .....	2 inch (50 mm)
<b>Mandrel Used</b> .....	RTM5
<b>Thickness</b> .....	0.315 inch (4 mm)
<b>Minimum Working ID</b> .....	2-1/8 inch (54 mm)
<b>Maximum Working OD</b> .....	No Limit
<b>Minimum Pitch</b> .....	NA
<b>Thread Angle</b> .....	7 x 45 degrees
<b>RPM</b> .....	Recommended 12,000 (Max 15,000)
<b>Lube Recommend</b> .....	Dry, Light Oil, or Mineral Spirits
<b>PPE</b> .....	Safety Glasses, Goggles, or Shield

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# RT5S1



## Specifications

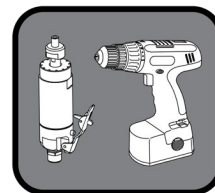
<b>Model Number</b> .....	RT5S1
<b>Profile Types</b> .....	Glands, Grooves, Snap-Ring
<b>Works With</b> .....	Drill, Die Grinder
<b>Shank Size</b> .....	1/4 inch (6.4 mm)
<b>Head Diameter</b> .....	2 inch (50 mm)
<b>Mandrel Used</b> .....	RTM5
<b>Minimum Working ID</b> .....	2-1/8 inch (54 mm)
<b>Maximum Working OD</b> .....	No Limit
<b>Thickness of Disc</b> .....	0.040 inch (1 mm)
<b>Profile</b> .....	Square
<b>RPM</b> .....	Recommended 12,000 (Max 15,000)
<b>Lube Recommend</b> .....	Dry, Light Oil, or Mineral Spirits
<b>PPE</b> .....	Safety Glasses, Goggles, or Shield

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# RT5S2



## Specifications

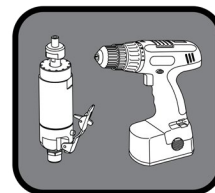
<b>Model Number</b> .....	RT5S2
<b>Profile Types</b> .....	Glands, Grooves, Snap-Ring
<b>Works With</b> .....	Drill, Die Grinder
<b>Shank Size</b> .....	1/4 inch (6.4 mm)
<b>Head Diameter</b> .....	2 inch (50 mm)
<b>Mandrel Used</b> .....	RTM5
<b>Minimum Working ID</b> .....	2-1/8 inch (54 mm)
<b>Maximum Working OD</b> .....	No Limit
<b>Thickness of Disc</b> .....	0.080 inch (2 mm)
<b>Profile</b> .....	Square
<b>RPM</b> .....	Recommended 12,000 (Max 15,000)
<b>Lube Recommend</b> .....	Dry, Light Oil, or Mineral Spirits
<b>PPE</b> .....	Safety Glasses, Goggles, or Shield

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## Accessories

### Mandrels:

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#### **RTM3**

0.236 inch (6 mm) Body Diameter x 2 inches (51 mm) Long  
1/8 inch (3.18 mm) Arbor Diameter

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#### **RTM5**

0.472 inch (12 mm) Body Diameter x 2 inches (51 mm) Long  
1/4 inch (6.35 mm) Arbor Diameter



### Collets:

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#### **RTC1**

1/8 inch to 1/4 inch collet  
5/8 inch length



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