DREMEL®

QUICK START GUIDE

MULTI-TOOL SYSTEM

As the inventor of one of the most valued tools in the world, Dremel has worked hard to increase the value of its tool by making attachments and accessories that will easily adjust and vary its function. The Dremel high speed Multi-Tool is an entire system of functional options that centre around a core tool. This system makes the tool multi-functional, versatile and easy to use.

Dremel accessories are colour coded into usage categories to make it easier for consumers and store personnel to select their application. The Dremel Multi-Tool system consists of the following products:

Tool

A Dremel Multi-Tool combined with the right accessory allows you to reach the perfect result in all applications. Its variable high speed makes it possible to carve, engrave, rout, sharpen, grind, clean, polish, cut and sand all kind of materials. Dremel offers different type of Multi-Tools such as corded and cordless, varying in power and size. This allows you to choose which ever tool meets your needs the best.

Accessories

Dremel offers you a wide variety of high quality accessories for different applications. They are colour-coded and can be easily selected for the right application.

Attachments

The Dremel line has many different attachments which make your Dremel Multi-Tool even more versatile.

MULTI-TOOL DIAGRAM

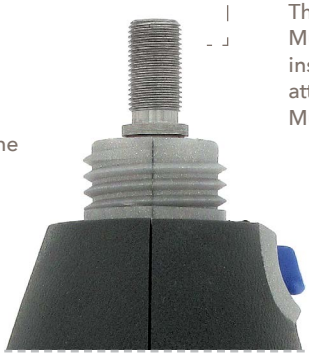
1. Accessory Shank
The part of the Dremel accessory that is inserted into the tool. Accessory shank sizes vary range between 3.2mm - 0.8mm (almost all shanks are 3.2mm).

2. Collet nut
Tightening the collet nut forces the collet's fingers inward, securing accessories for use. Avoid excessive tightening.

4. Multi Chuck
Allows users to change accessories without the use of any collet in the tool. Works with the Dremel Corded and Cordless high speed Multi-Tools, and all attachments except the router, cutting guide, grout removal, chainsaw sharpening and lawnmower sharpening attachments.

3. Collet
The most precise way to hold an accessory in a high speed Multi-Tool. Even at high speeds and maximum pressure, collets stay tight. The collet is located underneath the collet nut inside the tool's shaft.

5. Shaft
The rotating part of the Dremel Multi-Tool where the collet is inserted. The shaft is threaded for attaching the collet nut or the MultiChuck.



6. Wrench
Used to loosen and tighten the collet nut. Also works as a screwdriver for the #402 mandrel.

MULTI-TOOL DIAGRAM

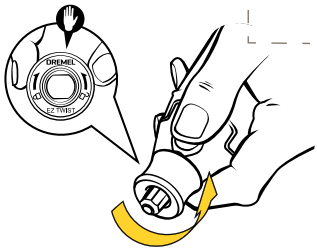
8. Shaft lock button
Keeps the shaft from rotating which aids in the loosening or removal of the collet nut or MultiChuck.

11. Bail
A wire loop for hanging the tool.

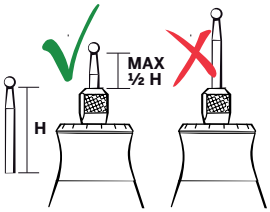
12. Speed Control
Set the speed of the Multi-Tool using the rotating dial ensuring you have full control.

9. On/off switch
Turn the tool on and off using the tool switch which is positioned optimally for maxium safety.

10. Air Vents
Proper airflow is required to keep the motor running cool. When using the tool, do not block the air vents.



7. EZ Twist Nose Cap
Allows for fast acessory changes, no wrench needed. Unscrews from the Multi-Tool to expose the threads to mount Dremel attachments.



Attaching an accessory to the tool using the MultiChuck

1. Your tool comes with a MultiChuck
2. Depress shaft lock button.
3. Loosen and remove the chuck.
4. Begin to thread the chuck onto the tool shaft while keeping shaft lock button depressed.
5. As the jaws begin to close, insert the shank of the accessory into the chuck.
6. Give it an extra twist with the wrench.

Attaching an accessory to the tool using the collet and collet nut

1. Your tool comes with a 3.2mm collet and collet nut.
2. Press the shaft lock button.
3. Twist the collet, so it opens.
4. Insert the shank of the accessory and tighten it.
5. Give it an extra twist with the wrench.
6. Release the shaft lock button.

HINTS AND TIPS

Using Mandrel 401:

Screw accessory on to the mandrel firmly.
The accessories should be used with this mandrel are:
414, 422, 429

Using Mandrel 402*:

Loosen screw.
Replace accessory.
Tighten screw. Do not overtighten
The accessories should be used with this mandrel are:
409, 411, 412, 413, 420, 423, 425, 426, 540, 541, 542, 545 & 456

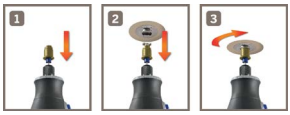
Using Multi Chuck:

It accepts accessories from 0.8mm to 3.2mm shank. Dremel MultiChuck uses a similar system as a conventional driller and dismisses the use of any collet. And you can loosen and tighten it using hands.
The Dremel 4200 and Dremel Micro are only compatible with the 3.2 mm collet.

Using collets:

Dremel accessories have different shank sizes, depending on the accessory you might need to use a different collet. Collets sizes are: 3.2mm / 2.4mm / 1.6mm / 0.8mm. Your Multi-Tool comes with a 3.2mm collet.
Not compatible with Dremel 4200 and Dremel Micro.

DREMEL® EZ SpeedClic



Using Dremel EZ SpeedClic™:

Dremel® EZ SpeedClic, the unique quick accessory change system for Multi-Tool. The EZ SpeedClic system enables quick, easy and keyless accessory changes. At its heart, the unique patented, screw-less mandrel allows a keyless wheel change, with no need for screws, in less than 10 seconds. The Dremel® EZ SpeedClic system makes accessory changes 6X faster than using a standard mandrel. Just PULL – TURN – CLICK.

EZ TWIST

The EZ Twist Nose Cap makes changing accessories quick, easy and keyless, which means less time changing accessories and more time to work on your project for faster completion. These accessories are available for a wide range of applications, from cutting to sanding, and can be used on a wide variety of materials.

*Hint: For loosening and tightening screws use bottom of the wrench.

HINTS AND TIPS

Impregnating polishing wheels with polishing compound:

This is a solid compound. Add a few drops of water to the compound, turn on the tool and touch the polishing wheel to the compound at a lowspeed to impregnate it.

Why does the Multi-Tool have high speeds?

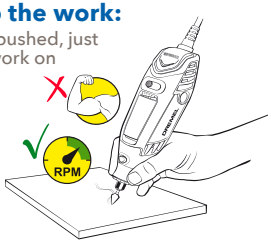
High speed when coupled with the right accessory is what makes the Multi-Tool so useful. The best results generally happen when taking a less aggressive but more frequent pass. Over pressure can damage the accessory and the work piece.

Test first:

To try out new skills, materials or accessories it is advised to work on scrap material first, to gain a little experience before working on your project.

Let the tool do the work:

The tool should be pushed, just let the tool do the work on the material for the best result.



Where to buy?

You can find the nearest dealer online: Go to our Dealer locator at www.dremel.com

Warranty:

All Dremel tools have 2 years guarantee and all attachments come with 1 year guarantee . Register your tool via MyDremel to be eligible for an additional year of guarantee. Visit our website for availability in your country.

Tool gripping:

One-handed grip: Overhand grip on the tool with fingers curved over the top of the tool and the thumb underneath (Tennis style underhand grip). It is useful for drilling horizontally

Two-Handed grips give extra stability. An underhand-overhand combination gives firm support. This grip is particularly useful for grinding, sanding and polishing.

Pencil grip is used mainly for engraving; polishing detailed applications.

One-Handed grip - Two-handed grip - Pencil grip

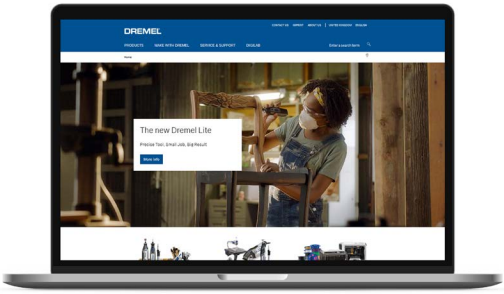
Speed guide (RPM):

Material		Speed Drilling	Speed Routing	Speed Cleaning/ Polishing	Speed Engraving/ Grinding	Speed Shaping/ Carving	Cutting	Speed Sanding	Grout Removal
Plastics	Plastics	5000-11000	NR*	5000-11000	12000-17000	9000-17000	5000-11000	5000-17000	NR*
Wood	Soft wood	25000-35000	25000-35000	9000-11000	4000-35000	25000-35000	12000-35000	5000-35000	NR*
	Hard wood	18000-35000	18000-35000	9000-11000	4000-35000	12000-35000	12000-35000	5000-35000	NR*
Metal	Steel	NR*	NR*	9000-24000	12000-35000	9000-35000	25000-35000	5000-35000	NR*
	Aluminum/ Brass	12000-17000	NR*	5000-24000	9000-17000	12000-35000	25000-35000	5000-35000	NR*
Others	Steel/ Stone	9000-17000	NR*	5000-24000	12000-17000	18000-35000	12000-35000	5000-35000	NR*
	Ceramic	9000-17000	NR*	5000-24000	25000-35000	18000-35000	12000-35000	5000-35000	12000-24000
	Glass	9000-17000	NR*	12000-24000	25000-35000	18000-35000	NR*	NR*	NR*

Speed is part of an operational formula and depends on several variables, including the density of the material; the type of cutter being used; and the depth of cut being applied. These are variables that should be considered with each application, preferably after some trial using waste material. NR*: Not Recommended

INSPIRATION

Find product information, how to's, project inspiration and more on our website and social channels.



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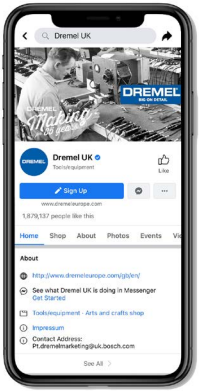

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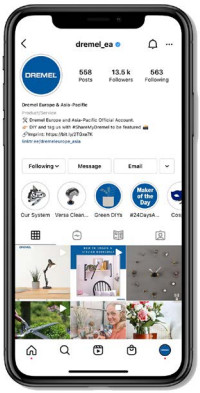

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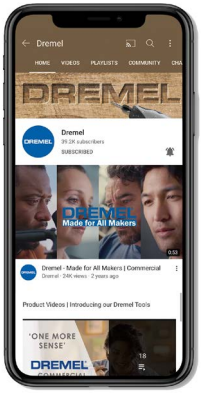

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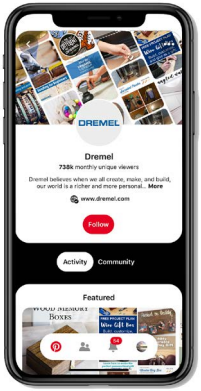

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DREMEL EUROPE
KONIJNENBERG 60
4825 BD - BREDA
THE NETHERLANDS
WWW.DREMEL.COM