

“GET A GRIP ON IT”

Vincent Homer

EAA 292

Often I have tightened one of my keyless drill chucks as tight as I could only to have the drill bit catch and spin in the chuck. Without the hand grip strength of Charles Atlas, especially with cheap battery powered models, you can't get enough torque into the small two piece chucks. I have even resorted to using two pairs of Chanel Locks to do the job (photo).

What one needs is a better gripping surface on the chuck pieces. 3M Wing Walk tape strip applied to each chuck section will provide a surface that you will never slip your grip on. (Tape photo)

I had a remnant roll of 1" wide 3M non-slip tape with adhesive backing in my miscellaneous tape box and I cut strips 1/2" longer than the circumference of each of my keyless chucks. For two piece chucks the tape was cut longwise into two strips.(Strips and chuck photo) A strip was applied to each chuck section with the overlap in right hand rotation direction. (Taped two piece chuck photo) For one piece chucks the whole strip was used. Add a drop of thick CA under the tail of each strip to insure it doesn't come loose.(taped one piece chuck photo)

If needed, I can now tighten all my keyless chucks to the limit of my grip strength whereas before I was limited by the low friction of the chuck surface. (All my hand drills photo)

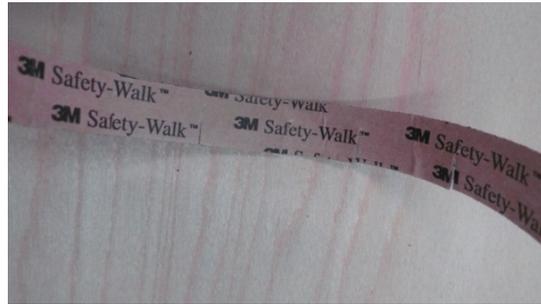
Whenever you are using a drill fitted with this tape near a surface that you don't want marred by the 3M tape grit surface I recommend putting a few turns of masking tape over the grit. (Chuck w/protective tape photo)

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Effective, But Bad Shop Practice



3M Safety Walk Tape (Wing Walk)

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Grit Tape Strips



Strips in Place On Two Piece Chuck

A strip was applied to each chuck section with the overlap in right hand rotation direction. (Taped two piece chuck photo)

For one piece chucks the whole strip was used. (taped one piece chuck photo)



Taped One Piece Chuck

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My Hand Drill Collection with Grip Tape Applied

Whenever you are using a drill fitted with this tape near a surface that you don't want marred by the 3M tape grit surface I recommend putting a few turns of masking tape over the grit or a section of bicycle inner tube can be used. (Chuck w/protective tape photo)



Inner Tube and Masking Tape Protection