Subject: Since no one asked...PSA: Drill Size Chart
Posted by Bill Epstein on Sun, 08 Jan 2012 13:25:11 GMT
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http://www.wlfuller.com/html/wood_screw_chart.html

Subject: Re: Since no one asked...PSA: Drill Size Chart
Posted by Wayne Parham on Sun, 08 Jan 2012 16:17:15 GMT
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That's helpful, good link, thanks.

Here's a sorta kinda related story:

woofers, but after a few sample woofers I realized there was too much variation in the pole piece for that to be a good way to do it in production. So instead, I opted to hone the pole piece.

What I decided to do was to bore the pole piece to within a few thousandsths of an inch and then hone it to an exact fit, just like engine cylinders. I looked at charts like the one you posted for (both metric and imperial) drill sizes in the 1.230" to 1.250" range. A 31mm drill bit is 1.220", 1-15/64" is 1.234", 31.5mm is 1.240" and 1-1/4 is 1.250". So we use a 1-15/64" or 31.5mm bit to start, then hone to finish for exact dimensions of 1.251" (+0.02"/-0.01") throughout the bore.

The original cooling plugs were 1.235", because the LAB12 woofer pole piece vent has ID of approximately that. We still stock those but we moved to a 1.250" plug a few years back and now machine the pole piece for a precise fit. All new production since 2007 has used the 1.250" plug.

Subject: Re: Since no one asked...PSA: Drill Size Chart
Posted by Bill Epstein on Sun, 08 Jan 2012 21:46:27 GMT
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I'd always meant to get a set of Fuller tapered bits, then 5or 6 years ago I picked up a set of Chinese knock-offs. I knew I should be using tapers for wood-boring but somehow always reached for the twists.

Now I use the tapers and they really are stronger and more precise match to the screws which, of course, are also tapered.

Subject: Re: Since no one asked...PSA: Drill Size Chart

Posted by Wayne Parham on Sun, 08 Jan 2012 21:52:46 GMT
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Absolutely, sure makes sense. Kind of like pipe thread tapers.

Subject: Re: Since no one asked...PSA: Drill Size Chart
Posted by petew on Mon, 09 Jan 2012 14:49:16 GMT
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I read through the Fuller history on their site. It's good to see North American companies still able to compete. Another good one is Carr Lane Manufacturing in St. Louis. They make tools for the aircraft industry.

I buy North American whenever possible.

Subject: Re: Since no one asked...PSA: Drill Size Chart
Posted by skywave-rider on Mon, 16 Jan 2012 15:38:47 GMT
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Hey Bill, stupid question: are the Countersink/Taper Point Drill Combos on the Fuller page you linked to used for drilling pilots with a built-in countersink? May seem obvious, but I don't recall using a bit like that.