



Tool Review

Written by Eric Seber, Waix 0153
May 7, 2013

If I had to choose a specialty must-have tool in my shop for building a metal aircraft, I'd go for my pneumatic right-angle drill motor as one of the first choices. After starting the aft fuselage assembly of my Waix, I quickly learned that I was not going to be able to access all the pilot hole locations with my regular palm drill motor. Having worked extensively in the past with aircraft sheet metal, I'd used various right-angle drill motors with great success.

I started researching different angle drill attachments and drill motors. After a comparison of prices and quality, I decided to purchase a stand-alone pneumatic 90 degree angle drill motor.



Yes, there are many styles, choices and different types of tools available that do the same job as this drill motor. One main reason I didn't go with a slightly cheaper angle drill adapter for my palm drill...I didn't want to chuck it up each time I needed to get into a tight space!

I purchased the drill motor from Northern Tool & Equipment from their online store. I paid \$269 for the drill motor and a set of threaded bits. At the time, this was the best deal I could find that included the specialty threaded drill bits.



It was a convenient way to purchase everything I would need to get me through most of my project.



Tool Review - Continued

For other types of angle drill motor and attachments that you might consider, visit the link below that explains different tools and techniques for drilling sheet metal.

<http://www.mlevel3.com/BCIT/Hole%20prep.htm>

The areas on my Waixex where I've used the angle drill motor the most, (so far) include:

- Lower Longeron RH & LH Aft Fuselage Splice Plates Attach Point to Lower Cross member
- RH & LH Upper Forward Fuselage Motor Mount Fittings
- Aft Fuselage Aft Vertical and Shear Web Attach Points to Skin and Upper Longerons

Compact 90 Degree Drill Motor Manufacturer's Information:

MFG: Air Capital

Model #: 65006

RPM: 0-3200

Required CFM: 3

Included in the kit are the following threaded bits:

(3) 3/32in. bits, (3) 1/8in. bits, (3) 5/32in. bits, (3) 3/16in. bits, (3) 1/4in. bits

http://www.northerntool.com/shop/tools/product_200451730_200451730

