



KDN Tool & Automation Engineering Co. LLC
34 Church Street
West Warwick, RI 02893
401-615-0267
www.kdntool.com
sales@kdntool.com
kdntool@cox.net

X2-IB/E High Speed Spindle Mount



A simple and effective enhancement to the X2 mini mill that allows the attachment of a Proxxon IB/E professional grinder for use as a high speed spindle. This product extends the capabilities of the X2 by allowing small diameter cutters to be used at their recommended rotational speed for maximum material removal and life. Example uses are:

Fine Engraving Work
Mechanical Circuit Board Etching
Jewelry Wax Machining
Highly Detailed Wood Carving

Why Choose the Proxxon IB/E?

- Proxxon's noted reputation for quality tools
- 100 watts of cutting power in an extremely compact size
- 5000-20,000 RPM variable spindle speed
- Continuous duty rating with forced air-cooling
- Die-cast aluminum mounting surface and nose bearing seat
- Super quiet operation even at 20,000 RPM
- Excellent run-out characteristics
- Compact size allowed a mere 2.7" offset from stock spindle centerline
- 6 collet sizes and a variety of included bits






This enhancement lends itself to both manually operated and CNC controlled machines with either a MT3 or R-8 spindle.



KDN Tool & Automation Engineering Co. LLC
34 Church Street
West Warwick, RI 02893
401-615-0267
www.kdntool.com
sales@kdntool.com
kdntool@cox.net



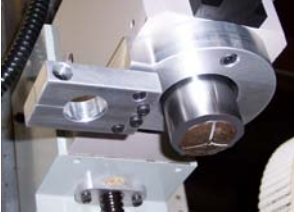


X2 IB/E MOUNT

GENERAL INSTALLATION:

<p>1. Gather all necessary components and tools for the installation. You will need the following hex keys (allen wrenches) to complete the installation: 4mm, 9/64", and 3/16".</p>	
<p>2. Raise the head-stock to allow access to the under-side of the spindle box.</p>	
<p>3. Locate and remove the three 5mm socket head cap screws that retain the lower spindle bearing cover. You will need the 4mm allen wrench</p>	
<p>4. Remove the bearing cover.</p>	
<p>5. Position the bearing cover onto and inline with, the base-plate mounting holes and install one of the supplied M5 X 30mm socket head cap screws.</p>	
<p>6. Position the base-plate and cover together onto the underside of the spindle box and finger tighten the M5 X 30mm socket head cap screw.</p>	



KDN Tool & Automation Engineering Co. LLC
 34 Church Street
 West Warwick, RI 02893
 401-615-0267
www.kdntool.com
sales@kdntool.com
kdntool@cox.net

<p>7. Install the two remaining M5 X 30mm socket head cap screws.</p>		
<p>8. Tighten all three M5 X 30mm socket head cap screws with a 4mm allen wrench.</p>		
<p>9. Position the clamp bracket with the counter-bores facing down towards the machine table and align it with the corresponding mounting holes in the base-plate.</p>		
<p>10. Install four #8-32 X 3/4" socket head cap screws and tighten fully with a 9/64" allen wrench.</p>		
<p>11. Insert the Proxxon IB/E professional grinder into the 20mm bore in the clamp bracket and tighten the 1/4-20 clamp socket head cap screw with a 3/16" allen wrench.</p>		
<p>12. If necessary, shim between the base-plate and the spindle box to align the IB/E spindle with the mill spindle.</p>		