

# Hutton Precision Engineering

## Bicester Plant List 2025



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## CNC Turning/CNC Milling

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Equipment	Capabilities	Work Envelope
<b>Puma SMX2100SB</b> 2x Units	<ul style="list-style-type: none"><li>• The <b>Puma SMX2100SB</b> is a high-performance, multi-axis mill-turn CNC centre from DN Solutions (formerly Doosan), designed for complex, high-precision, single-setup machining. It excels in industries requiring tight tolerances—such as aerospace, medical implants, and automotive—thanks to its powerful, flexible configuration</li><li>• Multi-tasking Turning /Milling Centre with Rotary Pro.</li><li>• 80x Tools</li><li>• Sub Spindle</li><li>• 1x Unit with Lower Turret with Bar Feed</li></ul>	<ul style="list-style-type: none"><li>• Max. Turning Diameter 600mm</li><li>• Max. Turning Length 1040mm</li><li>• Max. Left Spindle Speed 4000rpm</li><li>• Max. Right Spindle Speed 5000rpm</li></ul>

## CNC Turning

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Equipment	Capabilities	Work Envelope
<b>Puma 2600SY</b>	<ul style="list-style-type: none"><li>• The <b>Puma 2600SY</b> from DN Solutions (formerly Doosan) is a robust, Y-axis-enabled, sub-spindle CNC turning centre designed for single-setup machining of complex parts with high precision and throughput. Here's a quick overview:</li><li>• High-precision, multi-feature parts in <b>automotive, aerospace, and hydraulics</b></li><li>• Complex shafts requiring turning + Y-axis milling/drilling/contouring</li><li>• Automated, unattended production with bar feeding or robot loading</li></ul>	<ul style="list-style-type: none"><li>• Max. Turning Diameter 376mm</li><li>• Max. Turning Length 1040mm</li><li>• Max. Spindle Speed 4000rpm</li></ul>
<b>ECOCA EL 10012i</b>	<ul style="list-style-type: none"><li>• CNC Turning Lathe with Overhead Lifting</li></ul>	<ul style="list-style-type: none"><li>• Diameter 1000mm</li><li>• Distance Between Centres 900mm</li></ul>

## Turning (Centre Lathe)

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Equipment	Capabilities	Work Envelope
<b>Harrison Alpha 330</b>	<ul style="list-style-type: none"><li>• FANUC Control</li><li>• Ideal for <b>toolroom turning</b>, one-offs, and small-batch precision work across industries like aerospace and general engineering</li><li>• <b>Fanuc control</b> offers familiar G-code support and electronic handwheel threading</li></ul>	<ul style="list-style-type: none"><li>• Swing Over Bed: 330mm</li><li>• Swing over Cross-Slide 210mm</li><li>• Turning Length 1000mm</li></ul>

## CNC Milling

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Equipment	Capabilities	Work Envelope
<b>Doosan DNM650</b>	<ul style="list-style-type: none"><li>• The Doosan DNM 650 is designed for high-precision milling, drilling, and tapping of medium-to-large components across industries such as aerospace, automotive, and general manufacturing.</li><li>• Its generous travels and 1,000 kg table capacity make it ideal for machining complex parts in both prototype and high-volume production environments.</li></ul>	<ul style="list-style-type: none"><li>• X axis 1250mm</li><li>• Y axis 650mm</li><li>• Z axis 650mm</li></ul>



Equipment	Capabilities	Work Envelope
<b>Doosan DNM6700</b>  <b>3x Units</b>	<ul style="list-style-type: none"> <li>• The Doosan DNM 6700 handles precision milling, drilling, and tapping of large, complex workpieces with ease.</li> <li>• Its expanded travels and high-rigidity build make it ideal for demanding production in industries from heavy equipment to aerospace.</li> </ul>	<ul style="list-style-type: none"> <li>• X axis 1250mm</li> <li>• Y axis 650mm</li> <li>• Z axis 650mm</li> </ul>



Equipment	Capabilities	Work Envelope
<b>Doosan DNM5700</b>  <b>2x Units</b>	<ul style="list-style-type: none"> <li>• The Doosan DNM 5700 excels at precision machining of medium to large parts with speed and accuracy.</li> <li>• Its versatile work envelope and rigid construction suit applications from general manufacturing to high-performance component production.</li> </ul>	<ul style="list-style-type: none"> <li>• X axis 1050mm</li> <li>• Y axis 570mm</li> <li>• Z axis 510mm</li> </ul>





Equipment	Capabilities	Work Envelope
<b>Doosan DNM4700</b>  <b>2x Units</b>	<ul style="list-style-type: none"> <li>• The Doosan DNM 4700 is built for high-speed, high-precision machining of small to medium-sized components.</li> <li>• Its compact footprint and versatile capabilities make it ideal for automotive, aerospace, and general manufacturing work.</li> </ul>	<ul style="list-style-type: none"> <li>• X axis 800mm</li> <li>• Y axis 450mm</li> <li>• Z axis 510mm</li> </ul>



Equipment	Capabilities	Work Envelope
<b>Doosan MYNX 550</b>	<ul style="list-style-type: none"> <li>• The Doosan MYNX 550 is engineered for heavy-duty cutting and high-rigidity machining of medium to large workpieces.</li> <li>• Its robust box guideways and powerful spindle make it ideal for industries requiring sustained accuracy in tough materials like steel and cast iron.</li> </ul>	<ul style="list-style-type: none"> <li>• X axis 1020mm</li> <li>• Y axis 510mm</li> <li>• Z axis 575mm</li> </ul>



Equipment	Capabilities	Work Envelope
<b>Doosan DVF 5000</b>	<ul style="list-style-type: none"> <li>• 5 axis machining centre with AWC</li> <li>• The Doosan DVF 500 is designed for full 5-axis simultaneous machining of complex, high-precision parts in a single setup.</li> <li>• Its compact yet versatile design makes it ideal for aerospace, medical, and precision engineering applications requiring intricate geometries and tight tolerances.</li> </ul>	<ul style="list-style-type: none"> <li>• X axis 625mm</li> <li>• Y axis 450mm</li> <li>• Z axis 400mm</li> <li>• B axis 140 degrees (-30 ~ +110)</li> <li>• C axis (table rotation) 360 Degrees</li> <li>• Spindle nose to tabletop 150 to 550mm</li> </ul>

## Inspection Equipment

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Equipment	Capabilities
<b>Quantum 4 CNC CMM</b>	<ul style="list-style-type: none"><li>• <b>BX303 3 Axis Co-ordinate Measuring Machine with computer read out</b></li><li>• <b>BX231 3 Axis Co-ordinate Measuring Machine with computer read out</b></li><li>• Recently added new software on our CMM (inspection machine), Enabling us to import cad models for inspection and advanced machining techniques.</li></ul>
<b>Other</b>	<ul style="list-style-type: none"><li>• <b>Shadowgraph</b></li><li>• <b>All standard measuring equipment &amp; gauges calibrated to British Standards.</b></li><li>• <b>Off-line programming of CNC Machines</b></li><li>• <b>Alphacam</b></li><li>• <b>NX,</b></li><li>• <b>Featurecam</b></li></ul>

## Other Plant Equipment

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Equipment
<ul style="list-style-type: none"><li>• <b>Cut Off Saw</b></li><li>• <b>Vertical Bandsaw</b></li><li>• <b>Dedicated Assembly Area,</b> (for large/small sub-assemblies)</li></ul>