


Hitachi TM Series User-Sample Preparation Kit

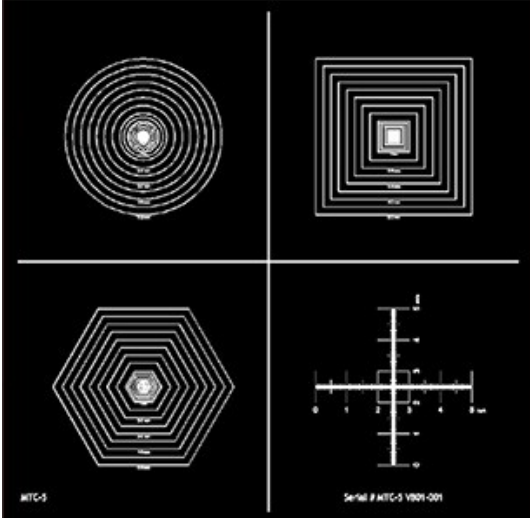
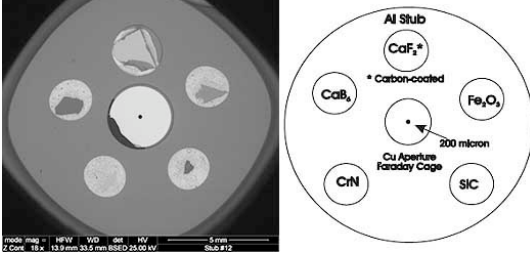
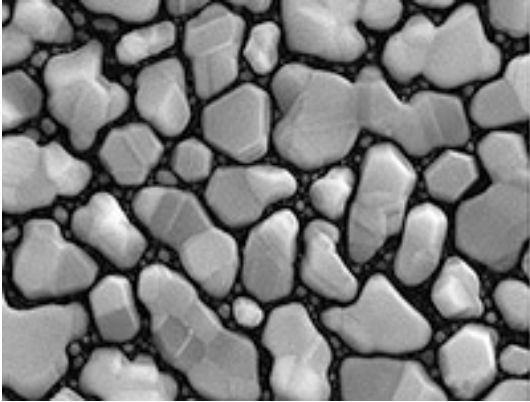
The Rave Scientific Hitachi TM Series user kit provides a flexible and easy way to purchase a comprehensive kit of the required basic sample preparation consumables and calibration standards. Standards are required for checking magnification, EDS and resolution in the electron microscope. All sample holders and standards are fully compatible with the Hitachi TM3030plus, TM3030, TM3000 & TM1000 tabletop SEM's. This kit also includes a set of 5 sample preparation tweezers, the Hitachi stage adapter assembly stage adapter, allowing any M4 designed sample holder to be compatible, 5 versatile sample holders, including the variable 0-90° angle tilt holder, valuable when there is no tilt option on your Hitachi system. The kit is also configured to be compatible with both pin stubs and Hitachi M4 stubs.

Item	
<p>Hitachi TM30 stage adapter kit assembly</p> <p>The EM-Tec TM30 stage adapter is fully compatible with all the Hitachi TM table top SEMs: TM3030plus, TM3030, TM3000 and TM1000. It is intended as a replacement or as an additional stage adapter; this is useful if special sample holders are used and the stage adapter is mounted on the holder. It consists of three parts:</p> <ul style="list-style-type: none"> • Stage adapter insert with female M6 thread • Stage adapter pillar with male M6 threaded (adjustable height) aluminum M6 locking ring. 	

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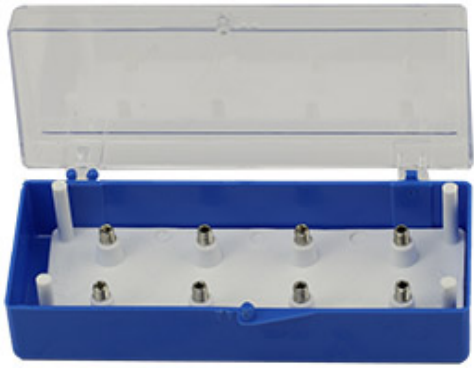


Item	
<p data-bbox="289 363 618 394">Mag calibration sample</p> <p data-bbox="253 436 716 751">The Micro-Tec MTC-5 bright field multiple target calibration standard comprises accurately deposited bright chromium lines on a conductive ultra-flat silicon substrate. The MTC-5 has been designed for calibrating reflective light microscopes, stereo microscopes, optical quality control systems and low magnification SEM imaging. The Micro-Tec MTC-5 incorporates four distinct patterns:</p>	
<p data-bbox="289 909 654 940">EDS Calibration Standard</p> <p data-bbox="253 982 716 1297">The EM-Tec CXS-5LE calibration standard includes 5 reference materials and a 200µm aperture copper Faraday cup. All mounted in a compact Ø12.7mm standard aluminum pin stub. The copper Faraday cup and aluminum pin stub can serve as a Cu/Al reference for detector gain/zero calibration. Intended for: light element performance test and EDS detector setup; includes: B, C, N, O and F in stable compounds.</p>	 <p data-bbox="753 1213 1279 1276">Reference materials: CaB₆, SiC, CrN, Fe₂O₃ and CaF₂. 200µm copper Faraday cup.</p>
<p data-bbox="289 1360 613 1392">Au Resolution Sample</p> <p data-bbox="253 1402 716 1728">Used for general resolution testing and imaging performance. This Gold on carbon resolution test standard has larger gold particles on a carbon substrate. The gold particles size ranges from 30-300nm. The carbon substrate is 6mm diameter with 2mm height. The larger gold particles provide excellent SE signal whereas the dark carbon background separates the individual gold particles.</p>	

<p>12.7 mm Pin Stubs</p> <p>Package of 50</p>	
<p>Hitachi Ø15x10mm M4 cylinder SEM sample stub, aluminum</p> <p>Package of 50</p>	
<p>Hitachi Ø25x6mm M4 cylinder SEM sample stub, aluminum</p> <p>Package of 50</p>	

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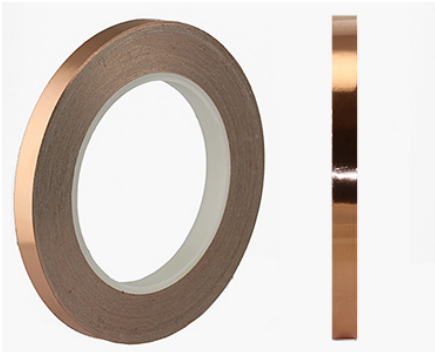

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<p style="text-align: center;">Sample Storage</p> <p>EM-Tec SH8 small size clear/blue styrene box for 8 x 15mm Hitachi M4 stubs</p>	 <p>The image shows a blue and white plastic storage box with its lid open. Inside, there are eight circular slots, each containing a small metal stub. The box is designed to hold and protect these samples.</p>
<p style="text-align: center;">Conductive Carbon Cement</p> <p>EM-Tec C39 is a strong conductive carbon cement based on fine graphite flakes with an acrylic binder. EM-Tec C39 exhibits excellent bonding properties on a large variety of materials such as metals, plastics, ceramics, epoxies, rubber, glass, wood and textiles. Ideally suited for making grounding paths and to bond SEM samples on sample stubs.</p>	 <p>The image displays a small glass vial with a black cap and a black applicator tip. The vial has a white label that reads "Micro Tec" and "C39-001139". The applicator is a thin glass rod with a black tip, used for applying the cement.</p>
<p style="text-align: center;">5 Value Tech Tweezers</p> <p>Value-Tec set of 5 general purpose tweezers for material manipulation-preparation includes style 3, 5, 5A, 7 and SS (slim long) non-magnetic stainless steel, Set/5</p>	 <p>The image shows five different styles of tweezers laid out horizontally. They vary in tip shape and length, including standard, curved, and long-slim designs.</p>

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<p style="text-align: center;">12mm & 25mm Carbon Tabs</p> <p>The high purity double sided conductive adhesive carbon tabs and tapes are especially developed for SEM / EDS applications.</p>	
<p style="text-align: center;">Copper Tape</p> <p>The tape is made with soft copper foil which is easily molded to follow the shape of the sample. Highly electrically conductive tape with conductive pressure sensitive acrylic adhesive. The resistance through adhesive is < 1 Ohm and this tape has a high initial tack to provide good conductivity. Available in the practical widths of 3, 6, 10, 12 and 20mm with a length of 30m.</p>	
<p style="text-align: center;">Hand Duster</p> <p>The Value-Tec DB2 fine tip air blower / hand duster ensures that dust is blown away and not sucked back in the bulb. The manually operated air blower is and economical and ecological alternative for pressurized duster cans.</p>	

<p><u>Multi Pin Stub Holder</u></p> <p>EM-Tec P4 multi pin stub holder for 4 pin stubs, Ø31.5x10.5mm, M4</p>	
<p><u>S-Clip 45/90 Sample Holder</u></p> <p>EM-Tec S-Clip sample holder with 2xS-Clips 45°/90° on Ø25 stub M4</p>	
<p><u>S-clip 3X Holder</u></p> <p>EM-Tec S-Clip sample holder with 3x S-Clips on Ø32x10mm stub, M4</p>	 <p>12-004930-1 12-004930-2 12-004930-3</p>

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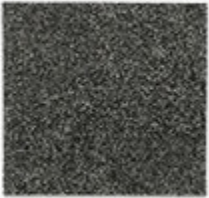

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<p><u>Compact Vise Holder</u></p> <p>EM-Tec V22 compact vise type sample holder for up to 22mm, M4, Neoscope</p>	
<p><u>Bulk Sample Holder</u></p> <p>EM-Tec R32 bulk sample holder for up to Ø32mm, aluminum, M4</p>	
<p><u>Variable Tilt Holders</u></p> <p>EM-Tec TV25 variable 0-90° angle tilt holder for stubs up Ø38mm, M4, Neoscope</p>	

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<p>12.7 mm Gripper Tweezers</p>	
<p>25.0 mm Cylinder Gripper Tweezers</p>	
<p>Polished Granite Sample Prep Tile</p>	
<p>EM-Tec H15P M4 adapter for pin stub, Ø15x16mm, M4 for Hitachi</p>	

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EM-Tec multi stub preparation stand for
28 Hitachi Ø15mm stubs



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