Since its establishment in 1985, Oscar E.D.M. Co. Ltd. continues to launch new generations of Electric Discharge Machines based on its business philosophy - endless innovations and breakthroughs, combined with powerful R&D capabilities for meeting customer requirements. With the exclusive and self-owned brand OSCARMAX, Oscar EDM has been marketing to more than 30 countries in the world. All staff members work together as a team, single-mindedly insisting on precision and challenging existing technologies time and again with abundant manufacturing knowhow and experiences accumulated that are highly acknowledged by the industry.

R&D is fundamental for a thriving enterprise. Oscar has long engaged in a policy of continuous R&D activities. Our EDM machines of the Moving Column Series, which is currently the leading model in Taiwan, have reached a travel of 2000mm in the X-axis, 1000mm in the Y-axis, and an unprecedented 10000mm in the Z-axis as well. It is not only providing more optimal model selections but also offering more versatile electric control systems, ranging from a traditional electrical controlling system to a more advanced CMAX menu control system that is capable of all-directional 3D process applications. Combined with a fourth axis or even a fifth axis, an EDM machine can be further enhanced to deliver state-of-the-art performance. All models of the series have attained the CE certification of the SGS system. Combining internal R&D talent with top research centers aiming for fully autonomous control of key technologies, Oscar has become the top EDM manufacturer in Taiwan by establishing an EDM product line that provides the widest range of professional machines with fully covered specifications.

Oscar fulfills perfection with a series of innovative products. The OSCARMAX brand has entered a new era of precision and excellence resulting from precision manufacturing. With high-precision production lines, we perform standardized production via high-efficiency processes integrated for the entire plant. From material prior preparation to the process of final product assembly, strict quality standards are specified over each and every step including warehousing, transporting, assembling, and QC, with utmost attention paid to every detail of each production process. In order to secure the highest processing precision, each machine is subjected to multiple inspections and tests before its delivery, for achieving persistent reliability in long-term operations.

OSCARMAX continuously strives to promptly fulfill customer requirements. We never stop diving into brand new EDM technologies. Under leadership of the CEO and president, OSCARMAX will continuously refine themselves to reach an even better realm of EDM technologies that can assist customers in quickly entering the markets to ensure their competitiveness within.

**Contents**

- CMAX Series:
  - 3D Mode Motion Machining.
- CNC Series:
  - 2.5D Mode Motion Machining.
- NC Series:
- ZNCS Series:
  - Automatic Positioning for X,Y,Z-axes.
- ZNC Series:
- PNC Series:

**Product series**

- ATC 16/20T are optional for EDM model above 8500.
- Z-axis Travel 450MM is optional for 8500 EDM.
- Z-axis Travel 1000MM is optional for 81510/20/3010/1510-2H/2210-2H/3010-2H EDM.
FEATURES OF CMAX SERIES MACHINE:

- Highly rigid structure.
- Tough cast iron with quenched treatment to ensure machine bench's precision and steadiness.
- Heat treated work bench surface featuring high hardness and wear resistance.
- Three axes with optical scale of 0.001 mm resolution.
- Software, hardware and mechanical limit for multiple protection and high mechanical safety.
- Feedback servo absorption system for reduced inertia and improved servo machining steadiness. Together with high rigidity bench this machine features more stable large mold surface machining servo and more uniform machining surface.
- High speed machining circuit capable of fast and super fine machining for workpieces of different substances including metal molds (HRAB or above), titanium, aluminum, and steel molds.
- Micro-computer coke detector to monitor and rapidly block abnormal s/c wave during machining as well as to ensure machining safety and mold quality.
- Machining is 1R95MM, 320L, CF card, 132MM and 3D motion modes.
- Multi-stage machining up to 999 stages.
- Features multiple comprehensive functions including: multi-level chip removal height, tool based machining completion setup, completion percentage setup, original track reverse trip, coke activated mold return, error message and log during machining for troubleshooting and maintenance.
- Offline machining file editing function.
- Electronic hand wheel assisted mold calibration and shift for easy and fast operation.
- Up to 100 coordinates groups (A01-A100).
- Up to 999 machining parameters & codes (001-999).

S430S
X:400MM
Y:300MM
Z:300MM

S500
X:500MM
Y:400MM
Z:300MM

S645
X:600MM
Y:450MM
Z:400MM

S860
X:800MM
Y:600MM
Z:500MM

EROWA C-axis + Eccentricity Adjustor (Option)

Conversational programming for easy learning and operation. Clear concise and well organized display.

3R C-axis (Option)

16-20 tools automatic changer (Option) (Only for CMAX & Column Movable series)

Easy operation on X,Y,Z and C-axis movement via remote controller. Humanistic electronic handwheel (FPC) & remote control box for quick & simple mold alignment. Minimum setting unit of movement: 0.001mm.
FEATURES OF CMAX SERIES MACHINE:

- Auto P code editing in accordance with substance including: copper VS, steel, graphite VS, steel, graphite VS, aluminum, graphite VS, titanium, copper VS, copper, steel VS, graphite VS, tungsten steel, copper VS, tungsten steel, and copper VS, aluminum.

- Multiple axis machining including: XY Z, XY Z, YZ X, YZ X, ZX Y, ZX Y, and ZX Y. This enables full dimension machining together with E code (and optional C and A/B axis accessory).

- The E code feature 3D, 3D, straight line shift positioning, mold calibration, compensation, tool replacement, linear spiral, equal gap dome, cylindrical track, circle track gradient spiral circle, diagonal loop, index, and extra circle sphere machining, square/round taper, 2C Star reaming, multi-round holes, incremental displacement, multi square holes, multi linear holes, and bottom inclination machining.

- The E code graphsheet preview function displays machining path.

- Features track machining function (GM CODE).

- CB machining mode:
  XYZXVYXZXYZXVYXZXYZVXVZVYX
  or XYZVYXZXYZXVYXZXYVZVXVZVXVZV

- Pre-tension CS class high accuracy double nuts ball screws, 3 supports & taper type high precision bearings to ensure free backlash & smooth movement.

- Grease lubricator ensure smooth movement & longer life.

- Applied highest accurate roller type linear guides to ensure most rigidity, fast & smooth movement. (for 1470,1475,1480,2010,2210)

S1270
- X: 1200MM
- Y: 7000MM
- Z: 500MM

S2210
- X: 2200MM
- Y: 10000MM
- Z: 800–10000MM (Option)

S3010-2H
- (SM)
  X: 2650MM
  Y: 10000MM
  Z: 800–10000MM (Option)
- (DM)
  X: 4000MM
  Y: 10000MM
  Z: 800–10000MM (Option)

STEM DESIGN

- 2 heads with twin high precision ground double-nut ball screw design ensure extremely machining accuracy and excellent rigidity & stability.

Y Axis travel reach 1000MM with highest accuracy.
<table>
<thead>
<tr>
<th>Description</th>
<th>Image</th>
</tr>
</thead>
<tbody>
<tr>
<td>Square Hole Enlargement 3D</td>
<td><img src="image1" alt="Image" /></td>
</tr>
<tr>
<td>Circle Cycle</td>
<td><img src="image2" alt="Image" /></td>
</tr>
<tr>
<td>Square Cycle</td>
<td><img src="image3" alt="Image" /></td>
</tr>
<tr>
<td>Edge Cycle</td>
<td><img src="image4" alt="Image" /></td>
</tr>
<tr>
<td>Diagonal Cycle</td>
<td><img src="image5" alt="Image" /></td>
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<tr>
<td>Square Line Cycle</td>
<td><img src="image6" alt="Image" /></td>
</tr>
<tr>
<td>Circular Line Cycle</td>
<td><img src="image7" alt="Image" /></td>
</tr>
<tr>
<td>4 Edge Work</td>
<td><img src="image8" alt="Image" /></td>
</tr>
<tr>
<td>Spiral Cylinder</td>
<td><img src="image9" alt="Image" /></td>
</tr>
<tr>
<td>Spiral circle 2</td>
<td><img src="image10" alt="Image" /></td>
</tr>
<tr>
<td>Cylinder 2</td>
<td><img src="image11" alt="Image" /></td>
</tr>
<tr>
<td>TC Hole Enlargement</td>
<td><img src="image12" alt="Image" /></td>
</tr>
<tr>
<td>Outer Circle OUT_CIR</td>
<td><img src="image13" alt="Image" /></td>
</tr>
<tr>
<td>Offset Movement</td>
<td><img src="image14" alt="Image" /></td>
</tr>
<tr>
<td>Line Multi-HOLE HOLE (LINE)</td>
<td><img src="image15" alt="Image" /></td>
</tr>
<tr>
<td>Grid multi-hole 1 (MULT 1)</td>
<td><img src="image16" alt="Image" /></td>
</tr>
<tr>
<td>Grid Multi-hole 2 (MULT 2)</td>
<td><img src="image17" alt="Image" /></td>
</tr>
<tr>
<td>Grid Multi-hole 3 (MULT 3)</td>
<td><img src="image18" alt="Image" /></td>
</tr>
<tr>
<td>Grid Multi-hole 4 (MULT 4)</td>
<td><img src="image19" alt="Image" /></td>
</tr>
<tr>
<td>Circle Multi-hole HOLE(CIR)</td>
<td><img src="image20" alt="Image" /></td>
</tr>
<tr>
<td>C Axis Function (Option)</td>
<td><img src="image21" alt="Image" /></td>
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<tr>
<td>Rotation</td>
<td><img src="image22" alt="Image" /></td>
</tr>
<tr>
<td>Indexing</td>
<td><img src="image23" alt="Image" /></td>
</tr>
<tr>
<td>Helical</td>
<td><img src="image24" alt="Image" /></td>
</tr>
</tbody>
</table>
FEATURES OF CNC SERIES MACHINE:

- Highly rigid structure.
- Tough cast iron with quenching treatment to ensure machine bench’s precision and steadiness.
- Heat treated work bench surface featuring high hardness and wear resistance.
- Three axes with optical scale of 0.001 mm resolution.
- Software, hardware and mechanical limit for multiple protection and high mechanical safety.
- Feedback servo absorption system for reduced inertial and improved servo machining steadiness. Together with high rigidity bench this machine features more stable large mold surface machining, and more uniform machining surface.
- High-speed machining circuit capable of fast and super fine machining for workpieces of different substances including steel molds (HT150 or above), titanium, aluminum, and steel molds.
- Three-axis motion mode machining, multi-holes machining, horizontal multi-OB modes reaming, and three axes 45°/90° reaming.
- Nine home points setup and 100 machining coordinates setup.
- Memory for up to 100 job files. Each file may contain 5 preset machining groups for horizontal placement, reaming, and ATC auto electrode replacement (special accessories required).
- 10-stage Z-axis and horizontal OBI machining. Complete machining in one setup.
- Auto edge finding, mold center and hole center finding, mechanical reset, auto reset, manual edge finding with electronic handwheel edge finding, auto intra- and extra-hole mold center finding.
- Single and full stage machining, machining simulation for machining initial hole, coordinates compensation, hole replacement height, nose height, tip speed, Chinese and English screens (metric/imperial), and chip removal positioning function.
- New-generation FUZZY and intelligence editing function. Input machining substance, machining depth, and maximum and minimum machining current and the FUZZY system comes up with machining parameters at each machining depth stage for every operation.

S430 CNC
X:400MM
Y:300MM
Z:300MM

S1060 CNC
X:1000MM
Y:600MM
Z:500MM

S1880 CNC
X:1800MM
Y:800MM
Z:600MM

S550 CNC
X:500MM
Y:400MM
Z:300MM
- ATC included (Option)

- Humanistic electronic handwheel (M.F.D.) with remote control box for convenient and fast tool alignment.
- Minimum setting unit of movement 0.001 mm: STANDARD.
- Pre-tension C5 class high accuracy double nuts ballcrews, 3 supports & taper type high precision bearings to ensure free backlash & smooth movement.
- Grease lubricator ensure smooth movement & longer life.

- Conversational programming for easy learning and operation.
- Clear concise and well organized display.
FEATURES OF NC SERIES MACHINE:

- Highly rigid structure.
- Tough cast iron with quenched treatment to ensure machine bench precision and steadiness.
- Heat treated work bench surface featuring high hardness and wear resistance.
- Three axes with optical scale of 0.001 mm resolution.
- Software, hardware and mechanical limit for multiple protection and high mechanical safety.
- Feedback servo absorption system for reduced inertia and improved servo machining steadiness. Together with high rigidity bench this machine features more stable large mold surface machining servo and more uniform machining surface.
- High speed machining circuit capable of fast and super fine machining for workpieces of different substances including tough molds (H13M or above), titanium, aluminum, and steel molds. Micro-computer code detector to monitor and rapidly block abnormal air wave during machining as well as to ensure machining safety and mold quality.
- 32 bit CF198MB (128MB Flash memory) IPC three axes motion control mode machining, multi-holes machining, and horizontal placement machining.
- Up to 100 job files with up to 1000 positioning holes in each job file.
- Ordered, random and auto hole change machining with 108 mold combination.
- Each direction contains up to 10 stages (1-10) of auto machining parameter conversion.
- Mechanical reset, auto positioning, honing, 3-axes mold calibration, mold centering, intra-hole centering, auto edge finding, three-axes positioning, and discharge mold calibration.
- Nine home points setup and 100 machining coordinates setup.
- New generation FUZZY and intelligence editing function. Input machining substance, machining depth, and maximum and minimum machining current and the FUZZY system comes up with machining parameters at each machining depth stage for easy operation.
- Electronic hand wheel assisted mold calibration and shift for easy and fast operation.

- X, Y axes CSS CLASS double nuts ball screws.
- Humanistic electronic handwheel (M.P.S.) with remote control box for convenient and fast mold alignment. Minimum setting unit of movement 0.001 mm: STANDARD.

External side machining
Auto internal center finder
Multi cavities machining
Auto center finder
Internal side machining
FEATURES OF ZNC SERIES MACHINE:

- Highly rigid structure.
- Tough cast iron with quenched treatment to ensure machine bench's precision and steadiness.
- Heat treated work bench surface featuring high hardness and wear resistance.
- Three axes with optical scale of 0.001mm resolution.
- Software, hardware and mechanical limit for multi-axis protection and high mechanical safety.
- Feedback servo absorption system for reduced inertia and improved servo machining steadiness. Together with high-rigidity bench, this machine features more stable large mold surface machining servo and more uniform machining surface.
- High-speed machining circuit capable of fast and super fine machining for workpieces of different substances including nut molds (HRMAB or above), titanium, aluminum, and steel molds.
- Micro-computer coke detector to monitor and rapidly block abnormal arc wave during machining as well as to ensure machining safety and mold quality.
- Universal 5-axis design with clear code editor planning and reliable services.
- 15" LCD monitor.
- Universal 5-axis design with clear code editor planning and reliable services.
- Editing of 100 job files concurrently.
- 90 groups of guiding machining parameter storage.
- 10 stage auto machining parameter changes for Z axes.
- Z axis auto homing and positioning.
- Optional With- and Without-spark Z axis mold calibration.
- Scores of safety functions including fire proof, auto fire extinguishing, liquid level, and coke detection.
- The CDC-260 ORBIT-CUT system may be connected with ZNC controller for direct ZNC menu operation and 10-stage auto reaming (OB) size changes.
- New generation FUZZY and intelligence editing function. Input machining substance, machining depth, and maximum and minimum machining current and the FUZZY system comes up with machining parameters at each machining depth stage for easy operation.
**FEATURES OF PNC SERIES MACHINE:**

- Highly rigid structure.
- Tough cast iron with quenched treatment to ensure machine bench's precision and steadiness.
- Heat treated work bench surface featuring high hardness and wear resistance.
- Three axes with optical scale of 0.001 mm resolution.
- Software, hardware and mechanical limit for multiple protection and high mechanical safety.
- Feedback servo absorption system for reduced inertia and improved servo machining steadiness. Together with high rigidly bench this machine features more stable large mold surface machining servo and more uniform machining surface.
- High speed machining circuit capable of fast and super fine machining for workpieces of different substances including nut molds (HRMA6 or above), titanium, aluminium, and steel molds.
- Multi-computer code detector to monitor and rapidly block abnormal error wave during machining as well as to ensure machining safely and mold quality.
- Score of safety function including fire proof, auto fire extinguishing, liquid level, and code detection.
- Universal card-based design with clear code solution planning and reliable services.
- 90 groups of guiding machining parameter storage.
- Optional With- and Without-z axis mold calibration.
- 5 stage auto machining parameter changes for Z axis.

---

**OPTION:**

- Can be on-link with COC-390 ORBIT-CUT SYSTEM.
- Orbiting function may work with Z-axis 10 steps auto machining.

- Remote control box: STANDARD
- Orbiting modes: (XYZ, XY)
- X, Y axes high precision ball screws.
### Power Supply Unit:

<table>
<thead>
<tr>
<th>ITEM</th>
<th>UNIT</th>
<th>60A</th>
<th>90A</th>
<th>120A</th>
<th>180A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. Machining Current</td>
<td>A</td>
<td>60</td>
<td>90</td>
<td>120</td>
<td>180</td>
</tr>
<tr>
<td>Max. Power Input</td>
<td>kW</td>
<td>4.5</td>
<td>8</td>
<td>12</td>
<td>18</td>
</tr>
<tr>
<td>Max. Removal Rate</td>
<td>mm/min</td>
<td>430</td>
<td>700</td>
<td>900</td>
<td>1,500</td>
</tr>
<tr>
<td>Min. Electrode Wear Rate</td>
<td>%</td>
<td>0.15</td>
<td>0.15</td>
<td>0.15</td>
<td>0.15</td>
</tr>
<tr>
<td>Best Surface Roughness</td>
<td>μm</td>
<td>0.2</td>
<td>0.2</td>
<td>0.2</td>
<td>0.2</td>
</tr>
<tr>
<td>Outside Dimensions</td>
<td>mm (inch)</td>
<td>820 x 620 x 1700 (32 x 24 x 67)</td>
<td>820 x 620 x 1700 (32 x 24 x 67)</td>
<td>820 x 620 x 1700 (32 x 24 x 67)</td>
<td>820 x 620 x 1700 (32 x 24 x 67)</td>
</tr>
<tr>
<td>Weight</td>
<td>kgs</td>
<td>320</td>
<td>350</td>
<td>380</td>
<td>680</td>
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</table>

### Dielectric Unit:

<table>
<thead>
<tr>
<th>ITEM</th>
<th>MODEL</th>
<th>UNIT</th>
<th>S325</th>
<th>S430</th>
<th>S430</th>
<th>S550</th>
<th>S550</th>
<th>S755</th>
<th>S645</th>
<th>S680</th>
<th>S1060</th>
<th>S1270</th>
</tr>
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<tbody>
<tr>
<td>Capacity</td>
<td>L</td>
<td>350</td>
<td>380</td>
<td>357</td>
<td>520</td>
<td>850</td>
<td>1120</td>
<td>964</td>
<td>1430</td>
<td>1610</td>
<td>1675</td>
<td></td>
</tr>
<tr>
<td>Weight</td>
<td>kg</td>
<td>200</td>
<td>200</td>
<td>300</td>
<td>400</td>
<td>350</td>
<td>450</td>
<td>500</td>
<td>550</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Outside Dimensions (L x W x H)</td>
<td>mm</td>
<td>1010 x 40 x 500 (40 x 20)</td>
<td>1200 x 47 x 500 (47 x 20)</td>
<td>1200 x 33 x 500 (33 x 20)</td>
<td>1300 x 83 x 500 (83 x 20)</td>
<td>2100 x 60 x 500 (60 x 21)</td>
<td>1300 x 83 x 500 (83 x 21)</td>
<td>1100 x 43 x 500 (43 x 21)</td>
<td>1400 x 55 x 500 (55 x 30)</td>
<td>1500 x 59 x 500 (59 x 30)</td>
<td>1500 x 59 x 500 (59 x 30)</td>
<td>1600 x 60 x 500 (60 x 30)</td>
</tr>
</tbody>
</table>

### E.D.M Standard Accessories:

<table>
<thead>
<tr>
<th>ITEM</th>
<th>CMAX</th>
<th>CNC</th>
<th>NC</th>
<th>ZNCS</th>
<th>ZNC</th>
<th>PNC</th>
</tr>
</thead>
<tbody>
<tr>
<td>X, Y, Z-axes Double Nuts Ball Screws</td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>X, Y-axes Ball Screws</td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>X, Y, Z-axes Linear Guides</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>X, Y, Z-axes Digital Readout in 0.01mm</td>
<td></td>
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</tr>
<tr>
<td>X, Y, Z-axes Digital Readout in 0.005mm</td>
<td></td>
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<td></td>
<td></td>
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<tr>
<td>X, Y, Z-axes DC Servo Motors</td>
<td></td>
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</tr>
<tr>
<td>15” LCD Monitor</td>
<td></td>
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</tr>
<tr>
<td>Auto Fire Extinguisher</td>
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<tr>
<td>Halogen Work Lamp</td>
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<tr>
<td>Clamping Plate</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Leveling Pad</td>
<td></td>
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</tr>
<tr>
<td>Flushing Nozzle</td>
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<tr>
<td>Patented Electrode Holder</td>
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<tr>
<td>Paper Filter</td>
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<tr>
<td>Drill Chuck</td>
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<tr>
<td>Tool Box</td>
<td></td>
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</tr>
<tr>
<td>CMAX Remote Controller (with M.P.G.)</td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Remote Controller</td>
<td></td>
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<tr>
<td>M.P.G.</td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Signal tower light</td>
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</tbody>
</table>

### E.D.M Optional Accessories:

<table>
<thead>
<tr>
<th>ITEM</th>
<th>CMAX</th>
<th>CNC</th>
<th>NC</th>
<th>ZNCS</th>
<th>ZNC</th>
<th>PNC</th>
</tr>
</thead>
<tbody>
<tr>
<td>3R / EROWA ATC4 / 6 / 18 / 20T</td>
<td></td>
<td></td>
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<tr>
<td>3R / EROWA ATC4 / 6T</td>
<td></td>
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</tr>
<tr>
<td>3R / EROWA C-axis</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>3R / EROWA Manual Chuck</td>
<td></td>
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</tr>
<tr>
<td>3R / EROWA Eccentricity Adjustor</td>
<td></td>
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<tr>
<td>3R / EROWA Adapter Plate / Chucking</td>
<td></td>
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<tr>
<td>COC 200 ORBIT-CUT System (Non-connection)</td>
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</tr>
<tr>
<td>COC 280 ORBIT-CUT System (Online-connection)</td>
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<td>EZ-Spark For Hardened Workpiece</td>
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