PILE CUTTERS
FOR CONCRETE PILES

- Safety first!
- High quality cuts
- High production rate
It’s time to replace manual disc cutters and hydraulic croppers for cutting concrete or steel piles.

MotoCut’s new products replace traditional manual work and improve job safety: MotoCut pile cutter for concrete piles is a hydraulically-driven pile cutter featuring a pair of diamond cutting blades. MotoCut pile cutter for steel piles or pipes uses a plasma cutting device and torches.

Compared to manual cutting, MotoCut cutters offer even five times higher productivity.

**SAFETY COMES FIRST**

MotoCut cutters can be attached to an excavator and operated from the cabin. So, there are no risks of falling piles, dust or HAVS issues. Increased safety is appreciated especially in the Scandinavian markets, where work site safety is a top priority. In Scandinavia, MotoCut cutters are typically mounted to the excavator on a tiltrotator.

**CUSTOMERS LOVE IT**

Finnish entrepreneur Toni Arvila has a long experience of earth moving and landscaping projects. He knows the related challenges and risks at the piling job sites.

When he got to test the safer working method on a real work site, Toni was positively surprised how easy it was to handle the whole cutting process from the excavator cabin without standing in the risk zone. Also, his productivity increased from the very first pile that he cut.
MOTOCUT BENEFITS IN PILE CUTTING

SAFETY FIRST!

- Operator isolated from the danger zone
- No risk of cut piles falling on operators
- No HAVS issues (Hand-Arm Vibration Syndrome)
- No Silica dust issues
- Up to 5x higher production capacity compared to traditional methods
- High quality and predictable cutting result
- Easy to transport to the work site and attach to an excavator
- Speeds up the site schedules

PILE SIZE RANGES FOR MOTOCUT PILE CUTTERS
CUT & BREAK PILE CUTTERS

The pile cutter is fully self-contained and works with any 7-30 ton hydraulic excavator with a hammer line and tiltrotator or the MotoCut free hanging chain set. With 2 blades cutting simultaneously, the cutting speed is typically up to 5x faster than in manual cutting.

EASY TO OPERATE:

- Grab the pile, press Start and wait until the rebars are cut
- Retract the grapples and grab the pile from a higher point
- Break the pile and place the off-cut to a desired location

<table>
<thead>
<tr>
<th>MOTOCUT PILE CUTTER</th>
<th>Q-350</th>
<th>Q-400</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Concrete pile sizes (square)</strong></td>
<td>180–350 mm (7”–14”’)</td>
<td>200–400 mm (8”–16”)</td>
</tr>
<tr>
<td><strong>Dimensions (WxLxH)</strong></td>
<td>1450 x 1400 x 783 mm</td>
<td>57” x 55” x31”</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>550 kg (1,215 lbs)</td>
<td>570 kg (1,260 lbs)</td>
</tr>
<tr>
<td><strong>Blade diameter</strong></td>
<td>ø400 mm (ø16”)</td>
<td></td>
</tr>
<tr>
<td><strong>Blade center hole</strong></td>
<td>ø25,4 mm (ø1”)</td>
<td></td>
</tr>
<tr>
<td><strong>Carrier weight</strong></td>
<td>7–30 tn (15,000–66,000 lbs)</td>
<td></td>
</tr>
<tr>
<td><strong>Working pressure, cutting</strong></td>
<td>100–180 bar (1450–2610 psi)</td>
<td></td>
</tr>
<tr>
<td><strong>Working pressure, grapple</strong></td>
<td>160–200 bar (2320–2900 psi)</td>
<td></td>
</tr>
<tr>
<td><strong>Required flow rate min</strong></td>
<td>60 l/min (16 gl/min US)</td>
<td></td>
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</tbody>
</table>
The pile cutter is fully self-contained and works with any 15–30 ton hydraulic excavator with a hammer line and tiltrotator. It can do full cuts or partial cuts (Cut & Break). Cut quality is excellent due to grabs below and above the blades.

**EASY TO OPERATE:**
- Grab the pile and press Start
- Cut through the pile
- Release lower grabs
- Place the off-cut to a desired location

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**MOTOCUT PILE CUTTER**

<table>
<thead>
<tr>
<th></th>
<th>Q-350S</th>
<th>Q-500S</th>
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</thead>
<tbody>
<tr>
<td><strong>Pile sizes (square, full cut)</strong></td>
<td>180–350 mm (7”–14”)</td>
<td>300–500 mm (12”–20”)</td>
</tr>
<tr>
<td><strong>Dimensions (WxLxH)</strong></td>
<td>1500 x 1400 x 783 mm 59” x 55” x 31”</td>
<td>2260 x 1504 x 1008 mm 89” x 59” x 40”</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>750 kg (1650 lbs)</td>
<td>1200 kg (2650 lbs)</td>
</tr>
<tr>
<td><strong>Blade diameter</strong></td>
<td>ø500 mm (ø20”)</td>
<td>ø700 mm (ø28”)</td>
</tr>
<tr>
<td><strong>Blade center hole</strong></td>
<td>ø25,4 mm (ø1”)</td>
<td>ø60 mm (ø2,4”)</td>
</tr>
<tr>
<td><strong>Carrier weight</strong></td>
<td>7–30 tn (15,500–66,000 lbs)</td>
<td>15–30 tn (33,000–66,000 lbs)</td>
</tr>
<tr>
<td><strong>Working pressure, cutting</strong></td>
<td>100–180 bar (1450–2610 psi)</td>
<td>180 bar (2610 psi)</td>
</tr>
<tr>
<td><strong>Working pressure, grapple</strong></td>
<td>160–200 bar (2320–2900 psi)</td>
<td>200 bar (2900 psi)</td>
</tr>
<tr>
<td><strong>Required flow rate min</strong></td>
<td>60 l/min (16 gl/min US)</td>
<td>120 l/min (32 gl/min US)</td>
</tr>
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</table>
ACCESSORIES FOR MOTOCUT Q-SERIES

- Tiltrotator for rotating and tilting the pile cutter
- Remote diagnostics to detect faults and monitor selected parameters
- Level for aligning the pile cutter
- Video assisted pile alignment
- Water heating system for pile cutting during winter
- 2D or 3D measuring system for automatic detection of pile cutting height
- Concrete cutting blades and metal cutting blades
- Customized MotoCut pile cutters

EXCAVATOR REQUIREMENTS

- Tiltrotator or MotoCut Free Hanging chain set
- 24V (or 12V + converter)
- Free auxiliary hydraulic circuit (Hammer line)
- Hoses for the grapples (extra lines from Tiltrotator)

MOTOCUT

The New Era of Pile Cutting

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