

WATERJET CUTTING FOR FIBER CEMENT BOARDS (FCB)



KMT
WATERJET

WHAT IS FCB?

Fiber Cement Boards - Cement Products Comprised of Various Compositions Depending on END PRODUCT Requirements:

- Partition Boards / Walls
- Skirtings / House Borders
- Decorative Boards / Planks
- Wall Cladding / Facades
- Flooring with Inlay
- Wood Alternative for Building Wall Panels & Exteriors





THE CASE FOR CUTTING FCB WITH WATERJET VS. CARBIDE SAWS

CARBIDE BLADE CUTTING CHALLENGES

- **Labor Intensive** | Blade performance must be monitored and replaced often
- **Increased Down Time** | Production line must stop for trimming board length
- **Hazardous Work Environment** | Rotary blade cutting creates excessive dust in the air
- **Limited Application** | Blades only cut linear with limited material thicknesses
- **Poor Quality** | Rotating blades cause material to "buckle" and leave unfinished, ragged edges

WATERJET CUTTING ADVANTAGES

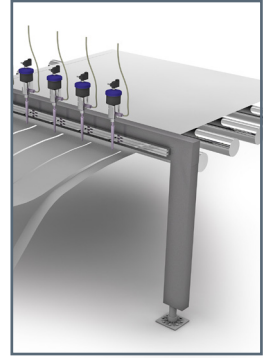
- **Substantial Cost Savings** | No tooling, blade sharpening or changing blades--no production line down time
- **Better Product Quality** | Uniform surface and cleaner, sharper edge quality--no material distortion
- **Higher Efficiency** | Bridge mounted cutting heads slit material instead of moving material under blades
- **Greater Flexibility** | Cuts all standard & custom thicknesses and can create intricate decorative designs
- **Environmentally Friendly** | Clean water cutting with no dust expelled
- **Increased Production** | Waterjet cuts faster with multiple head slitting and cross-cutting capabilities
- **Fast Integration** | Easy retrofit to existing blade cutting production lines

-  **INCREASE PRODUCTION TIME**
-  **REDUCE LABOR COSTS**
-  **IMPROVE PRODUCT QUALITY**
-  **SAVE MONEY & TIME**

- ✓ Fast, Easy Integration Performed by a KMT Certified Technician
- ✓ Patented Technology: Most Reliable Pumps in the Industry
- ✓ Proven Technology for Over 50 Years
- ✓ Global Leader in Waterjet Installations
- ✓ Industry Best Support and Service Network

Requirements to retrofit an existing FCB line with Waterjet Cutters:

- One 50 HP pump running at 3.200 bar or 45,000 psi
- Five pure water cutting heads including piping and installation materials
- Orifices can either be 0.17mm/0.007" or 0.15mm/0.006" in size depending on board thickness
- For a single line, the number of cutting heads running concurrently is 3x



Recommended KMT Products

- NEO™ 50 60,000psi/4.100 bar 50HP Pump

The KMT Waterjet NEO Pump incorporates over 50 years of experience offering unparalleled waterjet cutting technological achievements.

- STREAMLINE® SL-VI 60,000 psi/4.100 bar 50HP Pump

The Industry Workhorse! Configurable Design - from Basic to Fully Loaded. Proven Technology for over 50 years.

- AQUALINE® Water-Only Cutting Heads

The AQUALINE® teamed up with STREAMLINE pumps, will substantially increase cutting speeds while retaining durability and precision during long production runs.

