BM FASTCUT

MARBLE GANGSAW 80

80-BLADE FRAME SAW

80 BLADES

4,400 mm BLADE LENGTH

800 mm STROKE

110 kW MAIN MOTOR



Precision cutting. Industrial performance.

PRODUCT OVERVIEW

A robust multi-blade platform for marble block processing

The BM FASTCUT Gangsaw 80 is configured for cutting marble blocks into slabs using a bank of parallel diamond blades. The blade-holder frame performs a reciprocating movement while the block trolley advances vertically into the cutting zone.

MACHINE AT A GLANCE

80	4,400 mm	800 mm	110 kW
BLADES	BLADE LENGTH	FRAME STROKE	MAIN MOTOR

APPLICATION

Designed for industrial marble processing operations requiring multiple parallel cuts from a single stone block. The 80-blade configuration combines a 3,200 mm block length capacity with a 2,000 mm maximum block width and height.

MACHINE DESIGN & CONSTRUCTION

The frame-saw system combines a reciprocating blade-holder assembly with a powered block trolley lifting system.

MAIN MECHANICAL SYSTEMS

• **Double-crank and double-connecting-rod drive:** paired drive components transmit the reciprocating movement to the blade-holder frame.

• **Articulated linear guides:** guide arrangement supports aligned movement of the blade-holder frame.

• **Block trolley lifting:** powered vertical movement positions the stone block in the cutting zone.

• **Blade tensioning:** hydraulic blade tensioning is included as a machine-system feature in the referenced configuration.

• **Water supply:** cutting water is delivered to the blade area for cooling and flushing.

CONTROL SYSTEM

The machine uses PLC-based electrical control and inverter-controlled block lifting. Touchscreen operation and automatic sawing-feed programming are listed as control configuration features.

CUTTING PROCESS

The gangsaw produces multiple slabs through the coordinated movement of the blade frame and block trolley.

01

BLOCK POSITIONING

The marble block is secured on the trolley and aligned with the blade frame.

02

BLADE FRAME MOVEMENT

The blade-holder frame moves in a reciprocating cycle, driving the parallel blades through the stone.

03

CONTROLLED FEED

The block trolley advances vertically into the cutting zone as the sawing process progresses.

04

MULTIPLE SLAB OUTPUT

The parallel blade arrangement produces multiple slabs from one block in a single processing cycle.

CONFIGURATION HIGHLIGHTS

- 80 parallel blade positions
- 800 mm reciprocating stroke
- 3,200 mm block length capacity
- Inverter-controlled trolley lifting

TECHNICAL SPECIFICATIONS

BM FASTCUT Gangsaw 80 · 800 mm stroke configuration

PARAMETER	SPECIFICATION
Number of blades	80 pcs
Blade length	4,400 mm
Blade stroke	800 mm
Main motor power	110 kW
Maximum block size (L × W × H)	3,200 × 2,000 × 2,000 mm
Minimum slab thickness	16 mm
Block trolley size (L × W)	3,200 × 2,050 mm
Machine dimensions (L × W × H)	11,900 × 5,060 × 4,960 mm
Machine weight	55 tonnes
Water consumption	10 L/min per blade

INSTALLATION & CONFIGURATION

Machine dimensions

DIMENSION	VALUE
Overall length	11,900 mm
Overall width	5,060 mm
Overall height	4,960 mm
Machine weight	55 tonnes

PROJECT REQUIREMENTS

- Prepare the foundation and installation area according to the machine layout.
- Provide the electrical supply and water connections required by the selected configuration.
- Coordinate block handling, trolley access and blade installation clearance.
- Confirm the final machine arrangement and accessory package before installation.

BM FASTCUT

Marble & stone cutting machinery
Precision cutting. Industrial performance.

DIAMOND SUPER – COMPLETE MODEL RANGE

Blade quantity, blade length, frame stroke, motor power and cutting capacity by configuration

MODEL	BLADES	BLADE LENGTH (mm)	STROKE (mm)	MOTOR (kW)	MAX. CUTTING BLOCK (L×W×H mm)	MIN. CUT (mm)
60/S600	60	3,600	600	55	2,500×1,500×1,500	16
60/S600+H10	100	3,600	600	75	2,500×1,500×1,500	10
80/S800	80	4,400	800	110	3,200×2,000×2,000	16
80/S1000	80	4,400	1,000	110	3,200×2,000×2,000	16
80/S800+H10	140	4,400	800	110	3,200×2,000×2,000	10
80/S1000+H10	140	4,400	1,000	110	3,200×2,000×2,000	10
80/S800+H12	120	4,400	800	110	3,200×2,000×2,000	12
80/S1000+H12	120	4,400	1,000	110	3,200×2,000×2,000	12
90/S800	90	4,400	800	110	3,200×2,250×2,000	16
90/S1000	90	4,400	1,000	110	3,200×2,250×2,000	16
100/S800	100	4,400	800	132	3,200×2,500×2,000	16
100/S1000	100	4,400	1,000	132	3,200×2,500×2,000	16
120/S800	120	4,400	800	160	3,200×3,000×2,000	16
120/S1000	120	4,600	1,000	160	3,200×3,000×2,000	16

Water consumption stated in the supplied reference: 10 litres per minute per blade.

MACHINE DIMENSIONS & WEIGHT

Reference envelope dimensions (A–D) and detailed dimensions for each model configuration

MODEL	A (mm)	B (mm)	C (mm)	D (mm)
DIAMOND 60	11,080	2,000	3,370	4,300
DIAMOND 80	14,000	3,800	4,960	6,000
DIAMOND 90	14,000	3,800	4,960	6,250
DIAMOND 100	14,000	3,800	4,960	6,500
DIAMOND 120	14,000	3,800	5,100	7,000

MODEL DIMENSIONS, TROLLEY SIZE & WEIGHT

MODEL	TROLLEY (L×W mm)	OVERALL DIMENSIONS (L×W×H mm)	WEIGHT (t)
60/S600	2,600×1,650	11,000×4,125×4,650	35
60/S600+H10	2,600×1,650	11,000×4,125×4,650	40
80/S800	3,200×2,050	11,900×5,060×4,960	55
80/S1000	3,200×2,050	12,510×5,490×5,500	57.5
80/S800+H10	3,200×2,050	12,210×5,060×4,960	60
80/S1000+H10	3,200×2,050	12,800×5,490×5,500	62.5
80/S800+H12	3,200×2,050	12,210×5,060×4,960	60
80/S1000+H12	3,200×2,050	12,800×5,490×5,500	62.5
90/S800	3,200×2,300	11,900×5,310×4,960	60
90/S1000	3,200×2,300	12,510×5,740×5,500	62.5
100/S800	3,200×2,550	11,900×5,560×4,960	62
100/S1000	3,200×2,550	12,510×5,990×5,500	67.5
120/S800	3,200×3,050	12,100×6,270×5,100	70
120/S1000	3,200×3,050	12,510×6,700×5,500	72.5

All dimensions are in millimetres. A–D correspond to the dimensional diagram in the supplied reference image.