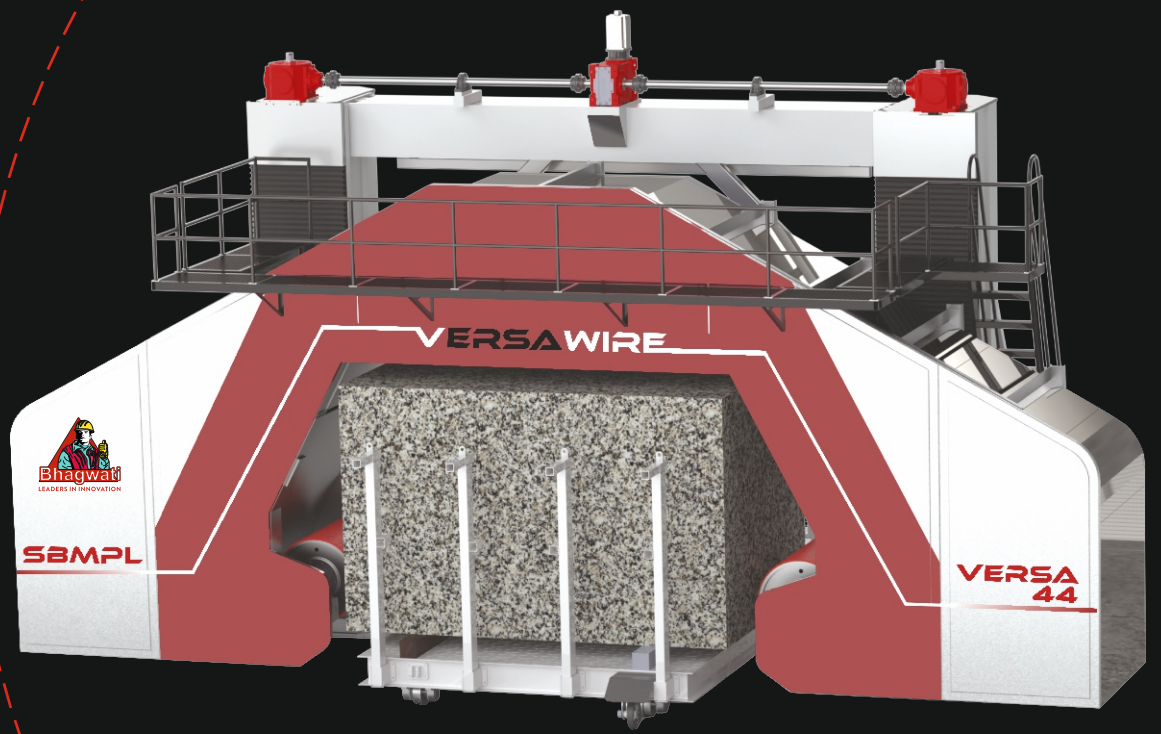
Bhagwati

LEADERS IN INNOVATION

MULTI WIRE

WIRE MACHINE FOR SLAB CUTTING

VERSA WIRE



MULTI WIRE FEATURES

1. Innovative triangular geometry: minimizes circuit bends and reduces wire vibrations.
2. Individual tensioning system: ensures stability, prevents breakage, and extends wire life.
3. Hydraulic control unit: adjusts pressure for optimal cutting.
4. Advanced bearings: durable and corrosion-resistant.
5. Quick-change liners: reduce downtime, no disassembly needed.
6. Efficient lubrication and cooling system: nine cleaning points extend wire life.
7. Stainless steel fairings: ensure durability and protect against dust and water during cutting.
8. Safe and ergonomic design: features walkways, safety sensors, and inspection points for easy maintenance.
9. Greater durability and power: robust structure and high-quality materials ensure reliable performance.
10. Braking resistor: enables quick emergency stops to prevent accidents and losses.
11. Automatic lubrication: ensures proper machine conditioning withautomatic lubrication.
12. Lock system: automated servo motor enables rapid rise in up to five minutes.
13. Guide rollers: larger diameter with fitted rubbers for enhanced durability and precision.
14. Models available by capacity: available in 4.3 mm, 5.3 mm, 6.3 mm, and 7.3 mm wires to meet plant needs.
15. Heat treatment: heat-treated shafts enhance resistance and reduce downtime.
16. Linear guides: control up-and-down movements with precision.
17. Nearby technical assistance: skilled and professional team.

TRIANGLE GEOMETRY AND TENSIONING

The Versa wire system features an innovative triangular geometry that minimizes circuit bends, reduces vibrations, and increases the durability of diamond wires. This design results in high-quality cuts and extends the equipment's lifespan.

The same focus on durability is applied to its tension structure. To ensure each wire operates at the ideal tension and to prevent breakages, the Versa wire is equipped with an individual tensioning system featuring shielded bearing wheels and sensitive hydraulic cylinders, ensuring cutting stability.

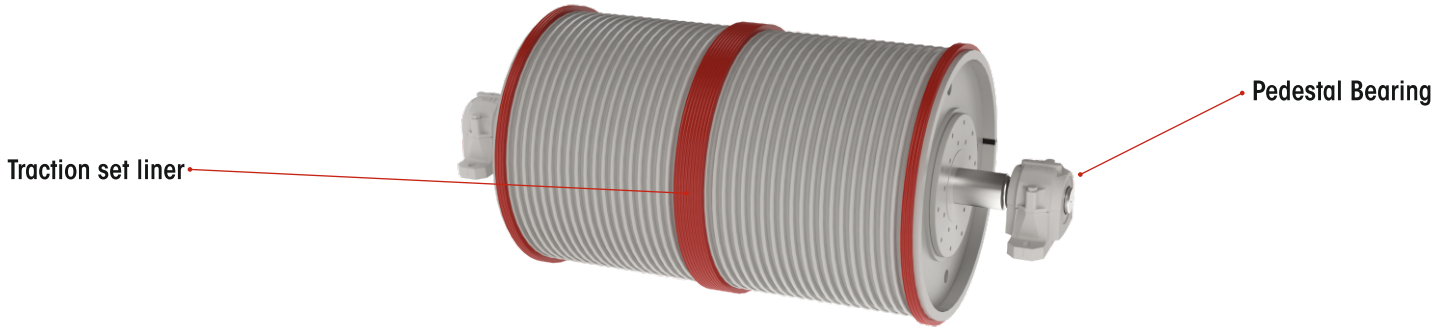
Additionally, the hydraulic system adjusts pressure as needed, allowing the wires to retract when encountering harder rocks or in situations of improper cutting.

UP AND DOWN MOTION

The two columns are made of steel sheets on a box-shaped welded frame. The slide guides are coated with special, interchangeable steel surfaces on which the sliders move. The movement is achieved through a trapezoidal nut-spindle and spindle-nut mechanism. In machines with more than 44 wires, the upward and downward loads are assisted by two hydraulic cylinders. The entire guide system, including the nut-thread and trapezoidal thread spindle, is lubricated using a grease system and protected from environmental contamination by bellows. For machine models with more than 44 wires, we developed a fast lifting system equipped with a special servomotor, enabling the machine structure to be lifted in under or up to 5 minutes. This innovation increases productivity and reduces idle time between load changes.

DRIVE UNIT, DRIVEN UNIT, AXLES AND RUBBER INTERCHANGEABILITY

Versa Wire incorporates several technical advancements to ensure high quality. Its drive unit features a 1,260 mm diameter drum made of carbon steel, driven by a motor that initiates the translation movement of the diamond wires. The unit is equipped with individual wheels, also 1,260 mm in diameter, made of machined and individually balanced aluminum alloys. This design compensates for cable length differences, reduces wear on polyurethane liners, and enhances equipment durability.



Resistance and ease—two fundamental principles applied here. To minimize machine downtime and facilitate ongoing maintenance, Versa Wire features a system for the quick replacement of polyurethane liners on the pulleys. This design enables individual liner replacement without disassembling the drums, allowing the operator to perform the task efficiently.

WIRE 6,3 MM

MODEL	UNIT OF MEASUREMENT	BM 8-6W	BM 20-6W	BM 44-6W	BM 76-6W
Cutting width	Meters	3,5	3,5	3,5	3,5
Cutting height	Meters	2,2	2,2	2,2	2,2
2 cm cuts	Cuts	8	20	44	76
3 cm cuts	Cuts	6	15	33	57
Drum width	mm	230	570	1260	2150
Wire tensioning	Kilograms	180	180	180	180
Peripheral wire	m/s	23~36	23~36	23~36	23~36
Wire length	Meters	20	20	20	20
Motor	Hp	30	75	180	335
Machine length	Meters	3,4	3,4	3,4	3,4
Width	Meters	10	10	10	10
Height	Meters	7.1	7.1	7.1	7.1
Weight	Tons	15	23	36	60
Water	Liters/minute	225	400	700	1200

WIRE 5,3 MM

MODEL	UNIT OF MEASUREMENT	BM 8-5W	BM 20-5W	BM 44-5W	BM 76-5W
Cutting width	Meters	3,5	3,5	3,5	3,5
Cutting height	Meters	2,2	2,2	2,2	2,2
2 cm cuts	Cuts	8	20	44	76
3 cm cuts	Cuts	6	15	33	57
Drum width	mm	230	560	1210	2100
Wire tensioning	Kilograms	170	170	170	170
Peripheral wire	m/s	23~33	23~33	23~33	23~33
Wire length	Meters	20	20	20	20
Motor	Hp	30	75	180	335
Machine length	Meters	3,4	3,4	3,4	3,4
Width	Meters	10	10	10	10
Height	Meters	7.1	7.1	7.1	7.1
Weight	Tons	15	23	36	60
Water	Liters/minute	225	400	700	1200

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