



# For optimal results, trust Optima Diamond Tools.

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OPTIMA. ENGINEERED TO OUTPERFORM.



## ABOUT US

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**Optima's range of products come with state-of-the-art technology and international quality. As one of the largest manufacturers in India, our products are trusted by some of the biggest marble & granite mining and stone & concrete processing companies in India as well as globally.**



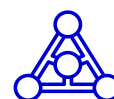
### Values & Purpose

We believe that every problem is an opportunity. By continuous innovation we deliver products and services that meet the expectations of the quarrying and stone processing industry. Keeping in mind the needs our customers, we use innovation and cutting edge technology to help them achieve increase production.



### Research & Development

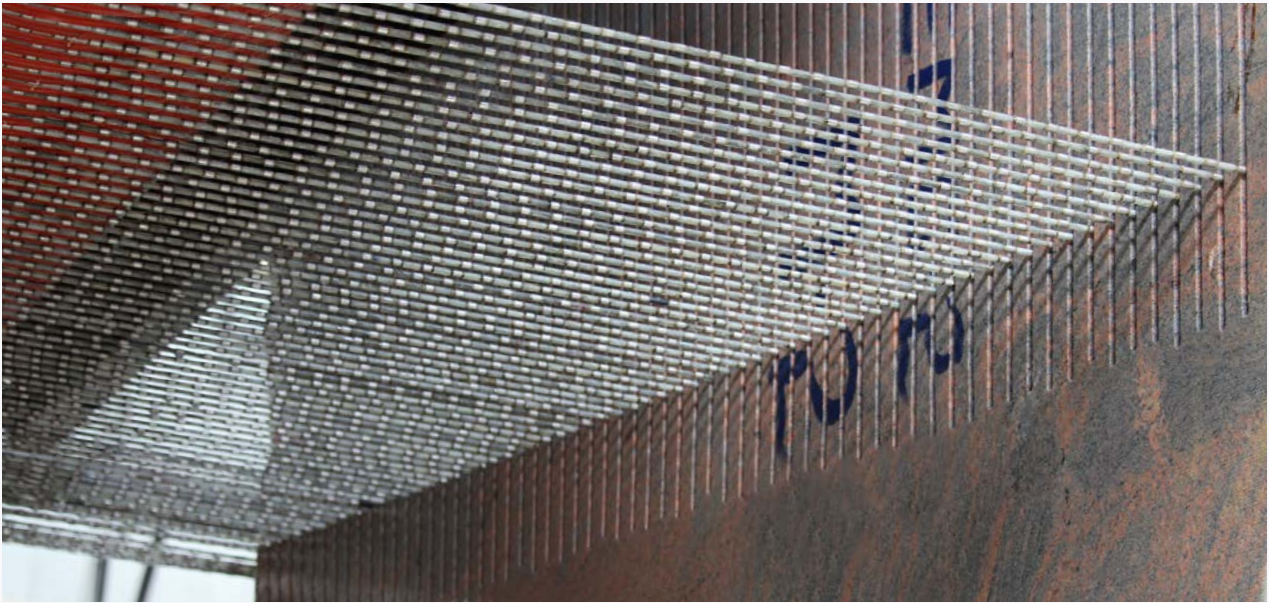
A goal-oriented research in the quarry and stone processing industry has been one of the cornerstones of Optima's fast growth and success in achieving a leading position in India. We value customer's feedback as a major contributor to our R&D efforts in further improving our product performance.



### Business Model

Our business model is based on high efficiency and productivity. In today's scenario, high-speed cutting wires give significant advantages in overall cost and we always endeavour to deliver the same. Along with efficiency, the durability of our products come as an added advantage to our clients.

# Diamond wires that cut all competition



Our bonds are optimized to achieve the optimal balance between cutting speed and longevity, which are based on the machine conditions and stones being processed.



We offer wires in endless lengths as per machine specifications in 6.3 mm, 7.3 mm, 10.5 mm, 11.5 mm and 12 mm bead diameters. However, these can be customised to practically any bead diameter that suit your needs.



To ensure quick cutting, we offer pre-sharpened, ready-to-use wires.



We customise our wires to suit your machine conditions and the stone being cut.



## Wire Saw Beads For Marble Quarries

Optima uses the optimum combination of the best performing diamonds and the most suitable metallic bonds for any material type. This provides our customers with an optimum balance of cutting speed and life with reduced energy and operation costs. We have produced millions of wire saw beads for practically all types of marbles in India & overseas, ranging from soft and non-abrasive, to very hard and high quartz marble. We can offer wire saw beads in 12 mm, 11.5 mm, 11 mm or 10.5 mm diameter having inner bead diameter of 5.2 mm – suitable for 4.8/ 4.9 mm inner wires.



## Wire For Multi-Wire Machine

At Optima, our multi wires are optimised to give a balance between high-cutting speed and life while ensuring good cutting quality without any marks or variation in thicknesses. All thanks to the state-of-the-art machinery and raw materials like diamonds, metal powders, steel wire rope and plastic, which are sourced from the best manufacturers across the world.

We can offer our wires in endless lengths as per machine specifications in 6.3 mm & 7.3 mm bead diameters. To ensure quick start of cutting, we offer pre-sharpened ready-to-use wires.



## Wires for Quarries And Concrete Cutting

Our wires have normally 43, 40, 37, or 32 beads per metre length depending upon the stone application with springs between the beads for better shock absorption. We can offer wires in 12 mm, 11.5 mm, 11 mm or 10.5 mm diameter depending on customer preferences.



## Wires For Stationary Machines

Diamond Wire is now the most used method at granite processing units for block squaring purposes. The wire saw in width is thin and is the most precise tool for cutting, with deviation less than 2 mm.

We can offer mono wires for stationary machines in 11 mm, 10.5 mm or 7.3 mm in endless or open lengths as per customer needs.

# Why Optima's Wire Saw Machines



*We can proudly say that some of our machines have achieved a life of over 15 years!*



Robust design



Rugged in make, especially for Indian conditions



Extra safety features



Extra weight ensures sturdiness and accurate cut



Water pump controlled from panel



User-friendly operation and control mechanism

# Compare Wire Saw Machine Variants

|                    | SS20  | SS40  | SS60   | SS75   |
|--------------------|---|---|--|--|
| <b>Description</b> | SS20 is designed to work on smaller cuts up to 25 sq.m., such as in block dressing of stones. It also complements SS60 and has a similar installation and services package. | We recommend it for cutting marble and smaller cuts in granite. | A completely user-friendly design, the machine has a bolstered weight of 1800 kg. This provides better stability and accuracy in quarrying. SS60 is our most popular model, and is recommended for most quarry applications. | We recommended it for cutting very big cuts in granite and hard marbles. |

## Dimensions & Weight

|        |         |         |         |         |
|--------|---------|---------|---------|---------|
| Height | 1000 mm | 1000 mm | 1100 mm | 1200 mm |
| Length | 1600 mm | 2600 mm | 2600 mm | 2700 mm |
| Width  | 700 mm  | 1300 mm | 1300 mm | 1300 mm |
| Weight | 1100 kg | 1600 kg | 1800 kg | 1900 kg |

## Specifications

|   |  |   |   |   |
|---|--|---|---|---|
| <b>Electric motor</b>   | 20HP/ 15 KW, 960 RPM, 3 Phase A.C. motor     | 40HP/ 30 KW, 415 V 3 Phase A.C. motor               | 60HP/ 45 KW, 415 V 3 Phase A.C. motor               | 75HP/ 55 KW, 415 V 3 Phase A.C. motor               |
| <b>Motor for traveling movement</b>                           | 1HP DC Motor coupled with gearbox            | 1HP DC Motor coupled with gearbox                   | 1HP DC Motor coupled with gearbox                   | 1HP DC Motor coupled with gearbox                   |
| <b>Electrical control panel with 10 meters controls cable</b> | ✓  | ✓   | ✓   | ✓   |
| <b>Traveling track</b>  | 2 m x 3 numbers (6 meters total)             | 3 m x 1 number and 2 m x 2 numbers (7 meters total) | 3 m x 1 number and 2 m x 2 numbers (7 meters total) | 3 m x 1 number and 2 m x 2 numbers (7 meters total) |
| <b>Main pulley</b>  | 600 mm main pulley coupled directly on motor | 800 mm main pulley giving wire speed of 27 m/sec    | 800 mm main pulley giving wire speed of 27 m/second | 800 mm main pulley giving wire speed of 27 m/sec    |
| <b>Guide pulley</b>   | -  | 2   | 2   | 2   |
| <b>Stand for guide pulley</b>                                 | ✓  | ✓   | ✓   | ✓   |
| <b>Pulley guard and spline shaft cover guard</b>              | -  | ✓   | ✓   | ✓   |
| <b>Swivel arrangement for 20 HP motor</b>                     | ✓  | -   | -   | -   |
| <b>Wire cutter</b>  | ✓  | ✓   | ✓   | ✓   |
| <b>Crimping tool</b>  | ✓  | ✓   | ✓   | ✓   |

# Customer Testimonials



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We are the largest marble mining company in the world and hold an award from the Guinness Book of World Records for producing the highest volume of marble blocks in a year. Optima Diamond Tools is one of our major suppliers of diamond beads. They are supplying us diamond beads for the past 15 years. We procure 50% to 65% of our requirement from them. We also procure segments for our Vietnam marble project from Optima. They are continuously pursuing change in their products to meet our speed and higher cutting targets in relation to the changing condition of the rock.

They have the initiative, resource, transparency and are easily approachable. Their delivery of the diamond beads is time bound and they always meet their commitments. We consider them as one of the most dependable suppliers in this segment.

***R. K. Marble Pvt. Ltd.***

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I am delighted to place on record that we are more than satisfied with the quality of your materials such as diamond wires for our quarry operations and also the wire saw machine we have purchased from you. The quality of your products are so good, we took a policy decision of using them as an import substitution for next two decades and stopped imports several years back.

Because of the good quality of your products in general and the Diamond wires in particular, I always feel proud to recommend you to a number of other granite quarries. I'm sure in the days to come, your products will be the most sought after ones in the Indian granite Industry. Please ensure always in your mind, quality, quality and quality, should be your only mantra.

***Veerabhadra Minerals Pvt. Ltd.***



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It's been a progressive association with Optima Diamond Tools Pvt. Ltd. since 10 years!!

Optima provides us with outstanding diamond wire ropes that deliver fantastic results for us. The quality of the product is absolutely top-class. Our team has learnt to depend on the flexibility of your system, the ease of set-up and transport as well as your dedication to Pokarna as a client. The key factors for choosing to work with Optima are your in-depth product knowledge, dedication to our needs, as well as your ability to supply goods on time and the high level of service you repeatedly provide.

***Pokarna Limited***

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Ninety Degree Stone is a unit of world renowned R.K. Group. Since its inception, it has grown from strength to strength, becoming a global model in natural stone industry both by innovation and products, well equipped with state-of-the-art machinery.

Optima is the first Indian company supplying us diamond wires for our multi wire machine. The performance of diamond beads supplied by them is remarkably satisfactory when compared with European beads. We procure 70% to 80% of our requirement from them. Optima's approach towards R&D and innovation is worth mentioning. They also provide technical support and their analytical approach is excellent.

***Ninety Degree Stone Pvt.Ltd.***

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Optima Wires have the fastest cutting speed on the multi-wire machine compared to other existing suppliers in the market.

We are procuring 100% of our diamond wires for our multi-wire machines from Optima for the last three consecutive years and they are undoubtedly one of our most important partners in meeting our production schedule. They help us keep our commitments to international clients.

***Paradigm Granite Pvt. Ltd.***

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We choose Optima Diamond Tools simply because they are the only Indian Multiwire suppliers on whom you can rely on for quality products. We have been consistently procuring Diamond Wires from them for the last 3 years. Optima Diamond Wires cutting speed is excellent and one can process any grade of granite with them, be it the hardest or the softest.

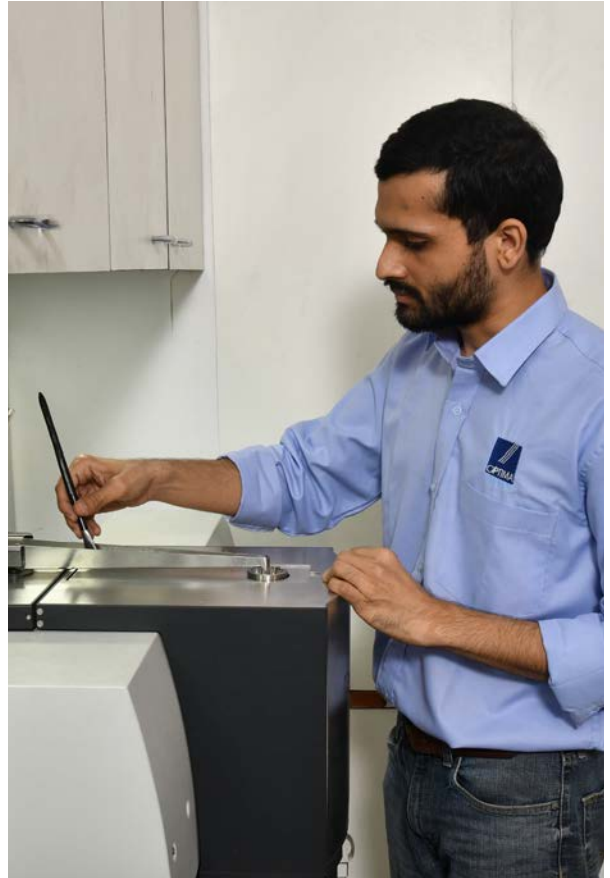
Our experience with Mr. Rajesh Sampat has been refreshingly great. He is extremely clear, so there was never any confusion or unmet expectations.

***Pundrikaksh Granites Pvt. Ltd.***

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Their promptness in delivery is the highlight in their service. Any company can rely on their punctuality. They never compromise on it. We appreciate your efforts. Having tried various companies for Diamond Wires from various parts of the world, Optima has stood out alone with its superior performance.

***Imperial Granites Pvt. Ltd.***








AN ISO 9001:  
2008 COMPANY

### **Optima Diamond Tools Pvt. Ltd**

Plot 956, G.I.D.C., Waghodia,  
Vadodara, Gujarat, India – 391760

Tel: +91 9898844544, +91 9227866881

 WhatsApp: +919898844544

[www.optimaindia.com](http://www.optimaindia.com) | [nrsampat@optimaindia.com](mailto:nrsampat@optimaindia.com)

### **Cutting Edge Technologies**

Juddi Kalan Village, Baddi Barotiwala Link Road,  
Baddi, Himachal Pradesh, India – 173205