

## DecoSliceTech Dry Cut Diamond Wire

DecoSliceTech (DST) is an advanced electroplated diamond wire specifically designed for dry cutting of steel structures in the decommissioning industry. It is recommended to use compressed air, nitrogen, or other non-polluting gases for cooling during the cutting process.

DST offers exceptional cutting performance and durability while minimizing environmental impact.

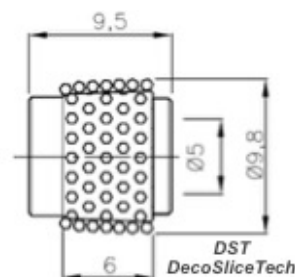
Here are the specific characteristics of DecoSliceTech:

### DecoSliceTech

Bead diameter: 9.8mm

Diamond type: UsMesh 40/50

Features: *DecoSliceTech* is engineered for dry cutting applications, eliminating the need for water. It is designed to deliver high cutting speed, precision, and extended wire life, making it ideal for demanding cutting projects in steel decommissioning.



The wire is assembled with 44 beads per meter (BPM) and features a conical shape. The diamond beads are made using the patented **OrientedCrystal®** technology, which optimally positions the cutting edges for superior cutting performance.



The unique conical shape of the beads in *DecoSliceTech* offers the following benefits:

- **Reduced Contact Area:** The conical shape reduces the contact area between the diamond grains and the material being cut. This results in increased cutting pressure, allowing for faster cutting speeds and improved efficiency.
- **Progressive Diamond Usage:** The diamonds in *DecoSliceTech* are progressively used, starting from the outer diameter towards the inner part of the bead. When a diamond becomes worn out, it is replaced by a fresh diamond located in the inner part. This progressive usage prolongs the wire's lifespan on all materials.

The wire assembly is made with **SHX elastomeric polymer**, which not only increases workplace safety but also provides greater wire flexibility. The pre-compressed springs in the assembly enhance resistance against bead slippage. In the event of accidental wire breakage, the SHX assembly ensures that no beads are ejected, ensuring maximum safety. *DecoSliceTech* is designed to be versatile and adaptable to different cutting scenarios. It can be used with a Backup Wire with a diameter of  $\varnothing 8.8\text{mm}$  for interrupted cuts or situations where adding another wire is not possible.

### Specifications:

**Bead Type:** Electroplated

**Bead Shape:** Tapered 9,8m (8,8mm for the BackUp Wire)

**Material to cut:** Pure Steel, Iron, Stainless Steel, Carbon Steel, and various metal alloys

**Twist:** 3/4 torsion per meter. It can also be supplied in an *endless loop*, this way the customer does not need to twist it.

<b>Material</b>	<b>Average Cutting Speed [dm<sup>2</sup>/h]</b>	<b>Average Lifespan [dm<sup>2</sup>/m]</b>	<b>Suggested Peripheral speed [m/sec]</b>
Steel, Stainless Steel, Carbon Steel (DST-44)	10 - 14	12 – 15	8-10
Cast Iron, Alloys, and Super Alloys (DST-44)	8-10	10 – 14	8-10



Figure 3- DST Assembled Diamond Wire



Figure 4- DST Diamond Beads

### Other related products:

**Manual Hydraulic Press:** HT45 (5 tons)

**Connectors:** Tube connector 9520 - 8524 - Quick Braxx Connector