

Jet Edge offers a full range of Abrasive Waterjet cutting Nozzles that balance your needs for price, performance and life.



Standard Life, Carbide Nozzle

This C4 tungsten carbide nozzle is considered a low-cost, entry level tool. This is the preferred tool for price sensitive shops that use their cutting equipment infrequently or for low volume test cuts. Most production operations will move to a Long or Extended Life for improved accuracy and nozzle cutting life.



Medium Life, Extruded Nozzle

This extruded nozzle seeks to balance price with performance. With more than 5 times the expected life of a Standard Life Carbide Nozzle, you have greater production uptime due to fewer nozzle changes per job. While there are many loyal users of the Medium Life Nozzle, the price differential to upgrade to the Long Life Nozzle likely warrants that move.



ROCTEC™ 100, Long Life Nozzle

This nozzle is a tungsten carbide-based material made by the patented Rapid Omnidirectional Compaction (ROC) process and is considered by many to be the industry workhorse. Advanced ceramic materials are combined without using a soft metal binder, minimizing the enlargement of ceramic particles. The extra-fine grain size means better nozzle performance and slower wear.



ROCTEC™ 500, Extended Life Nozzle

Using the Rapid Omnidirectional Compaction (ROC) process, but with even finer grain size and less binder than the ROCTEC™ 100, this nozzle provides higher accuracy and up to 30% longer life than the ROCTEC™ 100, Long Life Nozzle. High performance shops that demand the highest accuracy and cutting life from each nozzle prefer this choice.

Selecting your Jet Edge Permalign Waterjet Nozzle

1. **Choose your Performance Standard:** Consider your application and performance requirement and choose your nozzle type.
2. **Choose your nozzle I.D.:** After you have selected the appropriate nozzle performance required, choose the inside diameter (I.D.) you require relative to the orifice size and type you are using. Smaller I.D.'s provide greater precision, reduced taper on your cuts and a higher cut finish quality. A larger I.D. allows for greater water and abrasive flow and provides for a faster cut. A general rule of thumb is to start with a nozzle I.D. that is three times larger than the orifice being used.
3. **Choose your Nozzle Length:** The 4" nozzle has become the industry standard due to the accuracy and extended life realized over shorter nozzle lengths. The clearance distance between the cutting head and material being cut may dictate optimum nozzle length.



Permalign Waterjet Nozzles

Standard Life, Carbide Nozzle

Price Breaks (For Quantities of 50 plus - call for deal!)

Part Number	Description I.D. x Length x O.D.	Qty 1 - 5	Qty 6 - 11	Qty 12 - 23	Qty 24 - 49
36419	Std Life Nozzle .035 X 2 X .250	\$50.00	\$50.00	\$50.00	\$50.00
36384	Std Life Nozzle .045 X 2 X .250	\$75.00	\$75.00	\$75.00	\$75.00
37281	Std Life Nozzle .045 X 4 X .250	\$115.00	\$115.00	\$115.00	\$115.00
36504	Std Life Nozzle .065 X 3 X .250	\$80.00	\$80.00	\$80.00	\$80.00

Medium Life, Extruded Nozzle

Price Breaks (For Quantities of 50 plus - call for deal!)

Part Number	Description I.D. x Length x O.D.	Qty 1 - 5	Qty 6 - 11	Qty 12 - 23	Qty 24 - 49
104102	Medium Life Nozzle .020 X 3 X .250	\$85.00	\$85.00	\$85.00	\$85.00
30647	Medium Life Nozzle .030 X 3 X .250	\$85.00	\$85.00	\$85.00	\$85.00
30648	Medium Life Nozzle .040 X 3 X .250	\$85.00	\$85.00	\$85.00	\$85.00
30649	Medium Life Nozzle .045 X 3 X .250	\$85.00	\$85.00	\$85.00	\$85.00

ROCTEC™ 100, Long Life Nozzle

Price Breaks (For Quantities of 50 plus - call for deal!)

Part Number	Description I.D. x Length x O.D.	Qty 1 - 5	Qty 6 - 11	Qty 12 - 23	Qty 24 - 49
36780	ROCTEC™ 100 Nozzle .020 X 1.5 X .250	\$85.00	\$85.00	\$85.00	\$85.00
104724	ROCTEC™ 100 Nozzle .020 X 3 X .250	\$85.00	\$85.00	\$85.00	\$85.00
107317	ROCTEC™ 100 Nozzle .025 X 3 X .250	\$85.00	\$85.00	\$85.00	\$85.00
109818	ROCTEC™ 100 Nozzle .025 X 4 X .250	\$85.00	\$85.00	\$85.00	\$85.00
36781	ROCTEC™ 100 Nozzle .030 X 2 X .250	\$85.00	\$85.00	\$85.00	\$85.00
36937	ROCTEC™ 100 Nozzle .030 X 3 X .250	\$85.00	\$83.75	\$82.50	\$81.25
104522	ROCTEC™ 100 Nozzle .030 X 4 X .250	\$125.00	\$120.00	\$115.00	\$110.00
104519	ROCTEC™ 100 Nozzle .035 X 3 X .250	\$85.00	\$83.75	\$82.50	\$81.25
104520	ROCTEC™ 100 Nozzle .035 X 4 X .250	\$125.00	\$120.00	\$115.00	\$110.00
101159	ROCTEC™ 100 Nozzle .040 X 3 X .250	\$85.00	\$83.75	\$82.50	\$81.25
104518	ROCTEC™ 100 Nozzle .040 X 4 X .250	\$125.00	\$120.00	\$115.00	\$110.00
36769	ROCTEC™ 100 Nozzle .045 X 3 X .250	\$85.00	\$83.75	\$82.50	\$81.25
37261	ROCTEC™ 100 Nozzle .045 X 4 X .250	\$125.00	\$120.00	\$115.00	\$110.00
37566	ROCTEC™ 100 Nozzle .045 X 5 X .250	\$225.00	\$225.00	\$225.00	\$225.00
110241	ROCTEC™ 100 Nozzle .055 X 4 X .250	\$125.00	\$120.00	\$115.00	\$110.00
36782	ROCTEC™ 100 Nozzle .065 X 3 X .250	\$85.00	\$83.75	\$82.50	\$81.25
37592	ROCTEC™ 100 Nozzle .065 X 4 X .250	\$125.00	\$120.00	\$115.00	\$110.00

ROCTEC™ 500, Extended Life Nozzle

Price Breaks (For Quantities of 50 plus - call for deal!)

Part Number	Description I.D. x Length x O.D.	Qty 1 - 5	Qty 6 - 11	Qty 12 - 23	Qty 24 - 49
104502	ROCTEC™ 500 .030 X 3 X .250	\$175.00	\$170.00	\$165.00	\$160.00
104503	ROCTEC™ 500 .030 X 4 X .250	\$195.00	\$190.00	\$185.00	\$180.00
104500	ROCTEC™ 500 .035 X 3 X .250	\$175.00	\$170.00	\$165.00	\$160.00
104501	ROCTEC™ 500 .035 X 4 X .250	\$195.00	\$190.00	\$185.00	\$180.00
104498	ROCTEC™ 500 .040 X 3 X .250	\$175.00	\$170.00	\$165.00	\$160.00
104499	ROCTEC™ 500 .040 X 4 X .250	\$195.00	\$190.00	\$185.00	\$180.00
103813	ROCTEC™ 500 .045 X 3 X .250	\$175.00	\$170.00	\$165.00	\$160.00
103915	ROCTEC™ 500 .045 X 4 X .250	\$195.00	\$190.00	\$185.00	\$180.00
110518	ROCTEC™ 500 .065 X 4 X .250	\$195.00	\$190.00	\$185.00	\$180.00