

ResinMax™ System

High-efficiency Deionization
for Your Wire-cut EDM Machine



Intech Knows EDM Resins

INTECH EDM® 

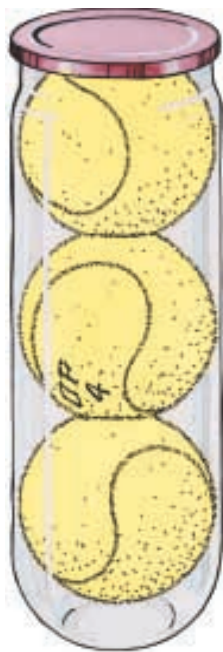
The high-efficiency gets the most out of you

Almost every wire-cut EDM machine uses water as a dielectric fluid. This water must be treated by special ion exchange resins in a deionization (D.I.) container to remove minerals and make it nonconductive, thus fulfilling its insulation function in the wire-cut EDM process.

A very common but little known problem with these systems, is that when they can no longer produce deionized water, they still haven't fully exhausted their resins. When you change the resin, you're throwing away a significant portion of the resin bed that could still be effective.

The Channel Effect

One reason for this phenomenon is channeling. Much like a winding stream, the fastest water flow is in the main channel. When water flows through your D.I. container, it tends to form channels, leaving resin beads outside the channels (most commonly at the outer edges of the resin bed) in a slower moving stream, and thus underutilized.



Contact & Compression

Another reason is compressive contact. Due to water pressure, the resin bed is in a state of compression. If you envision a barrel of tennis balls under pressure, you can imagine how much of each ball's surface is tightly pressed against its neighbors. Resin beads are balls, and the surfaces not exposed to water flow don't get fully used.

The ResinMax™ High-efficiency Solution

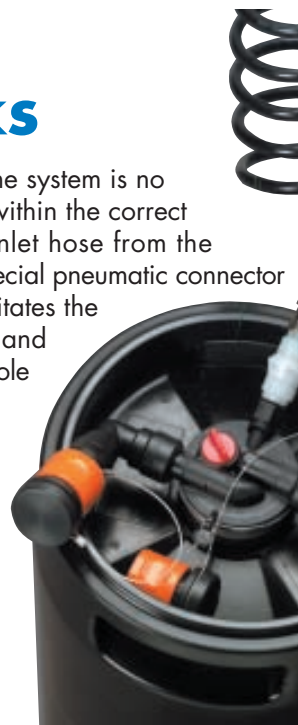
The solution to under-performing D.I. systems is quite simple. When the system stops working, if you could only agitate and stir the resin bed, you could break up the channels and expose fresh resin bead surfaces. That's exactly what the ResinMax System does.

Proven at hundreds of users throughout Europe and North America, the system has a unique internal design and pneumatic agitator (patents applied for), which extends the life of the resin charge by at least 15–30%. Most users are reporting significantly higher gains, and for high utilization machines, your savings in resin purchases can be very significant.



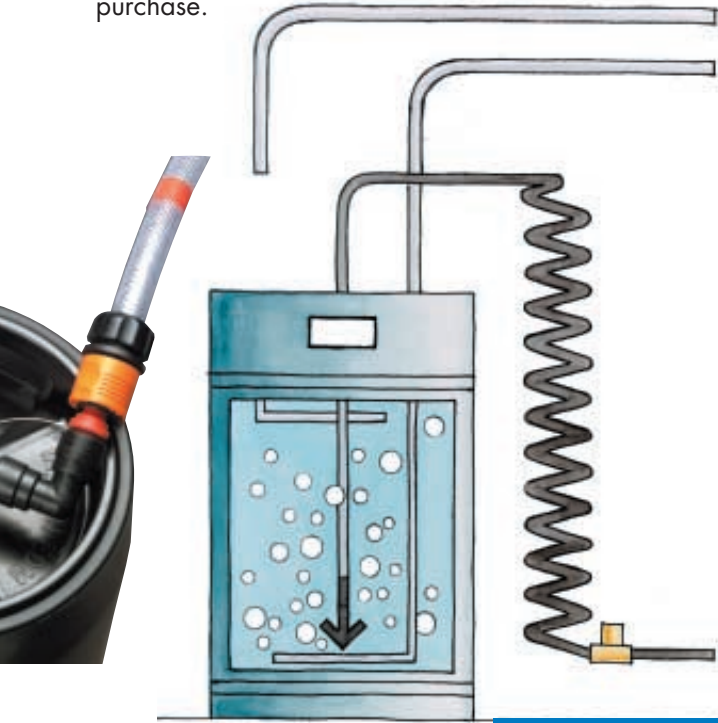
How It Works

When your machine indicates that the system is no longer keeping your dielectric fluid within the correct range, you simply disconnect the inlet hose from the ResinMax System and connect the special pneumatic connector to the ResinMax main valve. This agitates the resin bed, breaking up the channels and exposing new bead surfaces. The whole process is completed in minutes.



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Typically, you can repeat this agitation process several times, until it's no longer effective. At that point, you know that you've fully utilized the system, and you've gotten your money's worth from your resin purchase.



A Complete Service

ResinMax is available in 20 Liter and 50 Liter sizes, and includes the hoses, fittings and adapters you will need to attach it to almost any wire-cut machine.

It is shipped with a full charge of 100% virgin Golden Resin. Once the resin is completely exhausted, you simply ship the *complete ResinMax tank* to an Intech EDM authorized

service center for refilling service (service centers are strategically located throughout North America). *You don't have to handle the resin at all.* They properly dispose of the used resin, inspect the system, perform any maintenance required, refill it with 100% virgin Golden Resin, reseal the system, and return it to you; all with a one day turnaround at the source.



If you're ready to start saving money on your D.I. resins, call us; ResinMax Systems are in stock. See back cover for ordering information.

INTECH EDM® 



Specifications

Operating Pressure	Maximum 30 psi; tested to 180 psi; rupture disk rated at 580 psi
Operating Temperature	Maximum 80° C (176° F). Do not store resin at less than 0° C (32° F).
Flow	Maximum flow rate through system – 7 gpm (maximum pressure drop of 2.5 – 7 psi)
Approvals	TÜV, GS
Materials	Tank, main valve, and all internal tubes and parts – stainless steel; seals – Viton®; tank jacketed with CFC-free polyurethane.
Dimensions	Size 50L – 370 mm dia., 615 mm high; Size 20L – 240 mm dia., 560 mm high.
Net Capacity	Size 50L – 45 liters; Size 20L – 18 liters
Weight	Size 50L – 106 lbs.; Size 20L – 48 lbs. (Approximate shipping weight of ResinMax tank only, with resin and without dielectric water.)
Resin	100% virgin, high-quality deionization resin

Specifications and description subject to change without notice or prior obligation. U.S. and world-wide patents applied for.

Ordering Information

Catalog No.	Description
R01243	20 Liter Size (filled with 18 liters of resin)
R01244	50 Liter Size (filled with 45 liters of resin)
R01242	Process Water Connection Kit - all hoses, fittings and adapters required for typical installation (except R01261 below).
R01261	Agitator Air Hose with Regulator - required for resin agitation



A free video is available on CD-ROM disk (in three video formats), which graphically illustrates the operation of the ResinMax System. To get your free copy, simply call Customer Service or ask your Sales Representative.

LIMITED WARRANTY

Subject to the conditions below, Intech Technology Corporation ("Intech") warrants to the end user (the "User") that the ResinMax™ System (the "System") is free from defects in material and workmanship.

Intech will either repair or replace a defective System, at its option, including transportation costs but not including installation or any other similar charges, provided that (1) the User notifies Intech in writing of the claimed defect within one year from shipment from an Intech facility, (2) the User provides a complete explanation of the defect and such other information concerning the use of the System as Intech may request, (3) the User returns the System to Intech in accordance with Intech's specific written instructions and authorization obtained from Intech prior to return of the product, and (4) Intech's inspection confirms that the System is defective.

This Limited Warranty applies only if the System was used and applied correctly under normal operating conditions and good engineering practice; was installed, operated and maintained in STRICT ACCORDANCE with all instructions issued or published by Intech; was used within the stated pressure

limitations as published by Intech; was not tampered with or subject to abuse, misuse or UNAUTHORIZED MODIFICATION; and is only emptied, maintained and refilled with new virgin resin by Intech or Intech's authorized representative.

This Limited Warranty is IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, notwithstanding any disclosure to Intech of the use to which the product is to be put. The User's SOLE AND EXCLUSIVE REMEDY on any claim of any kind for any loss or damage arising out of the use of the System shall be for the repair or replacement of defects as provided herein.

IN NO EVENT SHALL INTECH BE LIABLE FOR ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES. There are no warranties, express or implied, made by Intech other than the warranty against defects in material and workmanship set forth above, and Intech neither assumes nor authorizes any other person or firm to assume for it any other obligations or liability.

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