

J-2R Series IV

Resistance Casting Machine



Purchasing new equipment requires making difficult decisions. How is the need for increased production capacity and improved quality met without tying up resources? How are today's investments paid back quickly and yet kept solid enough to meet future business goals?

The Neutec/USA® J-2R Series IV is designed to meet these needs. For a fraction of the cost of comparable machines, the J-2R gives you superior castings and greater production capacity. This exceptional machine combines advanced technology with a practical design to give you the increased casting capacity you need.

The J-2R is a good example of Neutec/USA's commitment to continuous improvement. The current model is the fourth in this engineering series and includes the many improvements made over the years. The J-2R is a mature design, proven to be reliable, easy to use and an excellent performer. The latest improvement is a new temperature control program that enhances speed and accuracy.

Performance Oxide-free metal and accurate casting temperatures produce exceptionally high-quality pieces every time you cast with the J-2R. Its fast cycle times and large capacities ensure a highly versatile production capability that will help you satisfy the quality needs of your most demanding customers.

Economy A low purchase price and inexpensive consumables make professional-quality casting for the small shop an affordable reality. You save time and money with the J-2R—not only in the actual casting process, but also by reducing casting rejects. The J-2R pays for itself in less time than you might think!

Reliability Heavy-duty, best-available components and solid engineering give you a machine that stands up to your most critical production needs for many years to come. The J-2R offers the best return on investment you will find in a resistance-heated casting machine!



Castings made with the J-2R have better surface quality and detail than castings made with traditional machines.



Because every cast counts

J-2R Series IV

Closed System The J-2R provides closed-system, oxygen-free atmosphere to help eliminate oxidation of the metal during melting and pouring. The large-volume graphite crucible also removes oxygen that may previously have been dissolved in the metal for fewer defects and lower reject rates.

Temperature Control An essential part of the equation for successful casting is accurate temperature control. Metal reaches the set-point temperature quickly and is held with more stability. In the event that the cast-point is missed, the temperature overshoot is reduced. The metal temperature in the J-2R is measured at the center of the metal pool for the most accurate readings possible. The bottom-pour crucible design allows little drop in the metal temperature from crucible to flask. This allows you to cast at the optimum temperature for any design without over-heating the metal.

Fast Cycles After initial warm-up, the casting cycle time of the J-2R is a fast 6 to 8 minutes, depending on the size of the load. The large-volume crucible holds 902 grams (580dwt) of 14K gold or 722 grams (464dwt) of sterling. Flask sizes for the machine can range from 2½" (63.5mm) to 4" (101.6mm) in diameter and up to 9" (228mm) high. The J-2R is as well-suited for casting one-of-a-kind custom jewelry as it is for large trees.

Easy Operation The J-2R is simple to install and operate, and no other resistance-heated machine will perform as well in such a small area—only three square feet of bench space. Operating the J-2R is as simple as setting the temperature controller for the desired casting temperature, adding the casting grain to the crucible, inserting the flask and, at set temperature, stirring the metal and pushing the casting lever.

Service & Support The J-2R is an exceptional machine combining advanced technology with practical design to give you the casting capability you need now. Heavy-duty construction and the best components available offer outstanding reliability. As a Neutec owner, you can depend on superb technical support and quick shipment of consumables to nearly anywhere in the world.

J-2R Series IV Specifications:

Dimensions:	77cmH x 46cmW x 46cmD (30"H x 18"W x 18"D)
Weight:	54kg (119 lbs.)
Power:	208 to 240 volts AC single-phase, 1.5kw (15amp breaker required)
Crucible Capacity:	154cc (902g 14k, 722g sterling)
Max. Flask Size:	102mm diameter x 229mm high (4" x 9")
Melting Time:	6 to 8 minutes (after a preheat of 40 minutes)
Inert Gas:	5 liters/minute @ 0.7 bar (10 psi), technical-grade nitrogen or argon
Vacuum:	142 liters/minute (5cfm), 1bar (29.9" Hg) at sea level Quality-made in the USA



The J-2R gives you accurate temperature control and oxygen-free casting like our larger casting machines, but heats metal using electrical resistance. It's the perfect machine for small jewelry manufacturing operations.

Put a J-2R IV to work in your shop —

Leasing is a popular way to finance equipment. In many cases, leasing allows you to deduct these costs as operating expenses. This way, you pay for the equipment with pre-tax earnings rather than after-tax profits. We can help you find a leasing company and payment options that meet your needs. Call us for more information.

