

5/04 PLC vacuum casting system

From prototypes through to low volume production, Renishaw vacuum casting systems are proven solutions – high quality, repeatable, cost effective components in a wide range of materials.

System description

Featuring:

- Fully automatic or manual operation
- PLC control
- Touch-screen control panel
- Simple to navigate menu system
- Small system footprint

With the capability to cast:

- Polyurethane resins
- Nylon PA6 and glass or fibre filled polymer – using the Nylon Plus option
- Wax for investment casting masters and low melt alloys – with the heated cup option
- Vario-Vac™ differential pressure system for casting high viscosity resins



System specification

Dimensions without accessories (H × W × D)	1930 mm × 1510 mm × 900 mm (add 380 mm (15 in) to height, for nylon module) (76 in × 60 in × 36 in)
Maximum recommended mould size (H × W × D)	550 mm × 800 mm × 600 mm (21.6 in × 31.5 in × 23.6 in)
Casting capacity	2 L, 5.5 L or 11 L with twin robot (122 cu/in, 335.6 cu/in or 671.2 cu/in with twin robot)
Power supply	3 phase 400 V NPE, 50 Hz, 3.5 kW – other power supply configurations are available
Pump capacity	65 m ³ /hr (2295.5 cu/ft)
Ultimate vacuum	0.5 mbar (7.25 psi)
Gross machine weight	1150 kg (2535 lb)
Features	PLC control and automation – to ensure consistent casting Vario-Vac™ differential pressure system for casting high viscosity resins
Options	Nylon Plus – for casting high performance glass or fibre filled PA6 nylon Heated cup – suitable for casting high quality wax masters and low melt alloy Twin robot – for increased casting capacity
Ancillaries	Extension chamber – for projects larger than the capacity of the standard system
Support	Maintenance packages Training programmes – tailored to suit your requirements Consumables – including PU resins and silicone rubbers



Renishaw Quarryman® with handle and side panels vacuum cast using Renishaw 8263 resin

- Good impact strength
- Flame retardant – certified fire retardant to UL94 V=0
- Pigmentable
- Suitable for electrical enclosures
- FAR part 25 certified aerospace grade

Renishaw's engineering grade polyurethane resins include:

- FDA grade wet and dry food use
- PE/PE types
- Flexible 20 A to 90 A shore rubber
- UL94 V=0 FAR part 25 certified aerospace grade
- Cast nylon PA6

For worldwide contact details, visit www.renishaw.com/contact

