



ASCS Nano

ADVANCED SOLUTION CONTROL SYSTEM

Discover the SIFCO ASC Advanced Solution Control System Nano – a portable, all-in-one plating system with dripless technology. This innovative piece of equipment features two advanced flow systems, each equipped with 5m hoses and non-drip tooling.

These extendable hoses and SMART, non-drip tools are dedicated to each solution used, allowing all deposits to be plated directly on the work area and recycled back into their tanks – providing the technician with a clean work environment without the need for catch trays.

Additionally, the ASCS Nano is a manual unit which utilizes the TechnoPlate[®] with its removable controller, allowing the technician to continuously monitor the amps and volts without ever having to turn around.

SPECIFICATIONS AND TYPICAL APPLICATIONS

Measuring 1650x960x960 mm (65x37.8x37.8 in) and weighing in at 245 kgs (540 lbs) when fully stocked, makes the ASCS Nano the perfect portable system for basic plating operations of one to two process steps.

With the ASCS Nano applications such as anodizing, zinc-nickel, cadmium, and passivation can be completed quickly and efficiently.

800 765 4131



ADVANTAGES OF THE SIFCO PROCESS[®]

- Portable process
- Minimal masking and disassembly
- ▶60x faster than tank plating
- Increase service life
- Superior technical expertise
- Quality plating results





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SMART TOOLING

As with any plating application, selection of the proper preparatory and plating tools effect the efficiency of the plating operation. The ASCS Nano is equipped with two of our HT3XS dripless tools - allowing for unlimited flexibility in your application. What's more, The HT3XS anodes were developed to be plated in any orientation – horizontally, vertically, or upside down. Depending on the processing ranges applied, DLT tools will be equipped with platinum Ti, Ti MMO, SS 316L electrodes. In the case of chemical conversion (passivation) a DLT tool without electrode is also available.

COATINGS AND PERFORMANCE

After rigorous testing, the samples plated have proven that the repeatability and reproducibility of the deposit are improved by the dripless plating tools. Numerous samples passed ASTM B117 salt spray method and ASTM B571 bend tests. In addition, the ASCS Nano bears the CE mark. The CE mark states that the ASCS meets EU health, safety, and environmental requirements, which ensure consumer safety.

As the global leader in selective plating technology, we've provided practical, cost-effective brush plating solutions for both OEM components and parts requiring refurbishment in the aerospace, oil and gas, general industry and power generation sectors for over 50 years. It remains our mission to provide safer, cleaner work environments when using the SIFCO Process[®] of selective plating. From custom anodes to automated auxiliary equipment to fully robotic plating cells, SIFCO ASC's dedicated team of mechanical and design engineers - based in the US and France – are capable of meeting all your plating requirements.

ADHESION OF THE DEPOSIT

ASTM C633-79 is the standard test method for adhesion or cohesive strength of flame sprayed coatings. Utilizing this standard, SIFCO Process[®] deposits have been shown to exceed the cohesive strength of the bonding cement. For example, the minimum tensile strength value established (at the point of cement failure during testing) for Nickel High Speed is 22,803 kPa (11,200psi) on a SAE 4130 steel base material.

Additional qualitative tests, as described in AMS-QQ-N-290 were conducted in which the plated areas were subjected to high stresses and strains. These tests consisted of compressive and tensile bend tests as well as chisel tests into the deposit. The results showed excellent adhesion to the base material.







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REV 04/23

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