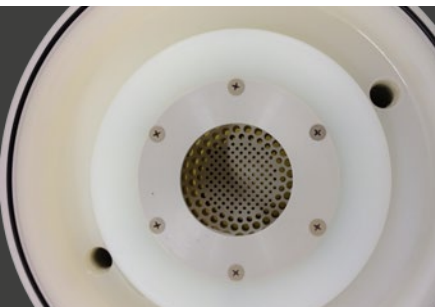


45° flow plating



fountain plating



μGalvPro is a turn-key systems for electroplating, achieving excellent uniformity due to a 45° flow-plating cell design and a rotating wafer holder. Process cells for various metals (Au, Ni, Cu) and alloys (Ni-Fe, Ni-Co, Ni-W, Sn-Pb) as well as additional rinsing cells or quick dump rinsers are available.

The μGalv Pro system is the ideal platform for electroplating applications from intensive R&D to pilot production.



Body	Material: standard PP white, optional PPs white, PVDF (with yellow card), elements CNC machined and welded
Operating Elements, electrical, regulation units, pneumatics	All process operating elements are integrated into the front panel, all electrical and pneumatically components are integrated in an independent compartment in the back side service area, DI-H ₂ O and N ₂ -Spray gun integrated in the workdeck.
Plating Modules	Overflow process consisting of a process cell and reserve tank with overflow/filtration circuit. Electroforming of pure metals like Ni, Cu, Au, Ag, ... Electroplating of alloy like NiFe, NiCo, NiW, SnPb Electro less plating of Ni, Au, SnPb Process cell configuration as rack plater, fountain tower or 45° flow channel (titled Wafer rotating) Depending on electrolyte, pH control (Acid and/or base) or cooling integrated Pulse plating with minimum pulse time of 0.10 msec
Wafer holder	PEEK, with stainless steel 1.4404 contact ring and gold plated wafer contacts, various edge exclusions available, min 3.5 mm edge exclusion
Cleaning Module	Standard Overflow-Rinsler, optional Ultrasonic or Mega-sonic Cell cleaning module, optional QDR-module, optional SRD (Spin-Rinse-Dryer)
Process options	Process Cell with multiple process slots Basket handling in the case of electro less plating Pulse & reverse pulse rectifier with minimum pulse time of 0.1 msec

Standard components	<p>Valves: membrane valves, ball valves, different diameter</p> <p>Pump: centrifugal pump made of PP, optional PVDF</p> <p>Filter housing: PP 20", optional PVDF</p> <p>PP plumbing, optional PVDF or PFA tube 1/2", 3/4", 1" with PFA flaretek fittings</p> <p>Access panel: touch panel display controller</p> <p>Remark: customized solutions available if requested</p>
Other options	<p>Automatic handling (semi auto, dry in – dry out)</p> <p>Integration of pre or post process cells possible</p> <p>Laminar-flow-units</p> <p>Vacuum twizer</p> <p>Quick connector fluid drain</p>