

AUTOMATION SOLUTIONS

SYNEO draws on its standard machine platforms, robust technical resources and machine design history to provide advanced solutions for medical device manufacturing applications. Whether it's an isolated manufacturing process or an integration of multiple, automated manufacturing processes, SYNEO has the capabilities to bring enhanced efficiency, productivity and quality to catheter and guidewire manufacturing processes.

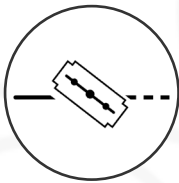
SYNEO Standard Machine Portfolio - SYNEO's processing portfolio targets applications such as cutting, feeding, punching, drilling, coring, slitting, flaring, grinding and marking extruded tubing, guidewires and hypotubes. SYNEO's automation solutions target reducing operational requirements for highly-skilled production labor and enhancing unit volume scalability and improving quality requirements.

SYNEO Custom Automation and Integration Solutions - SYNEO offers manufacturing cell design and integration services to help device manufacturers consolidate stand-alone machine functions. Leveraging SYNEO's standard machine portfolio and SYNEO's custom automation design capabilities, SYNEO can develop and implement integrated, automation platforms configured to meet your unique, specific strategic goals and objectives.

ACCU-CUT

AUTOMATED TUBE & WIRE CUTTING SYSTEMS

SYNEO Accu-Cut solutions provide tight-tolerance length repeatability with clean, square cuts for catheter and guidewire-based applications. Tight-tolerance flexible tubing and wire cutting application include soft, brittle and braided and non-braided materials such as silicone, PEEK, nylon, polytetrafluoroethylene (PTFE) and Pebax®, stainless steel and nitinol wire.



	AUTOMATIC NON-BRAIDED TUBE CUTTING	<ul style="list-style-type: none"> • 202L • CT • 700L • 700M • 202W
	LARGE DIAMETER NON-BRAIDED TUBE CUTTING	
	AUTOMATIC BRAIDED TUBE CUTTING	
	SEMI-AUTOMATED BRAIDED TUBE CUTTING	
	AUTOMATIC WIRE CUTTING	

ACCU-DRILL & ACCU-PUNCH

MANUAL & AUTOMATED HOLE DRILLING / PUNCHING SYSTEMS

SYNEO's Accu-Drill & Accu-Punch solutions provide precise, flash-free holes, plug collection, lumen location, and 360 degree hole pattern capabilities on the most challenging single and multi-lumen tubing applications. Combined with cutting tools featuring **SYNEO's Hollow Core Sharpening Technology**, precision hole dimensions as small as .005" are achievable.

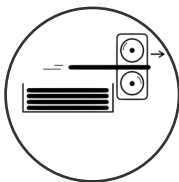


	AUTOMATIC SERVO DRILLING	<ul style="list-style-type: none"> • SD Series • MD Series • SP Series • MP Series
	MANUAL DRILLING	
	AUTOMATIC SERVO PUNCHING	
	MANUAL PUNCHING	

ACCU-FEED

AUTOMATED TUBING AND WIRE FEEDING SYSTEMS

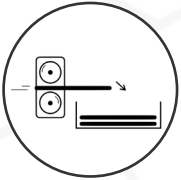
SYNEO Accu-Feed products provide operator-free automation of various downstream catheter and guidewire manufacturing processes. Whether automating a SYNEO system or enhancing an existing manual process with 3rd party equipment, SYNEO Accu-Feed systems generate opportunities for increased throughput and operational cost savings.



	AUTOMATIC GUIDEWIRE FEEDING	<ul style="list-style-type: none"> • AGF • MTF • GJS • HPD
	MODULAR AUTOMATIC TUBE FEEDING	
	AUTOMATIC GUIDEWIRE JACKETING	
	AUTOMATIC SPOOL DEREELER	

ACCU-BIN

AUTOMATED TUBING AND WIRE BINNING SYSTEMS



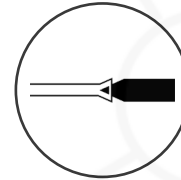
SYNEO's Accu-Bin products provide post-processing positioning capabilities for wires & tubing across a range of materials and output conditions. Accu-Bin solutions enhance downstream product positioning capabilities, allowing for integrations such as pass/fail inspection diverting systems, collaborative robot relationships, and injection molding pin mounting applications.



	+		MODULAR BINNING SYSTEM	<ul style="list-style-type: none"> • MBS • PSS • PFS
	+		PULL & STACKING SYSTEM	
	+		PASS & FAIL BINNING SYSTEM	

ACCU-TIP

AUTOMATED THERMAL AND ABRASED TIP FORMING SYSTEMS



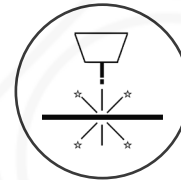
SYNEO's Accu-Tip tipping and flaring equipment provides a variety of tip and flare styles, including tapered shafts, closed bullet or squared-tip ends for tubing applications. SYNEO's Accu-Tip automated tip grinding and profiling equipment is suited for extruded mandrel, Nitinol and stainless-steel wire processing applications.



	AUTOMATIC TIP GRINDING	<ul style="list-style-type: none"> • ATG • FCS • RF
	THERMAL TIP FLARING	
	RF TIP FORMING AND BONDING	

ACCU-LASE & ACCU-BLAST

AUTOMATED LASER PROCESSING SYSTEMS & MICROBLASTING SYSTEMS



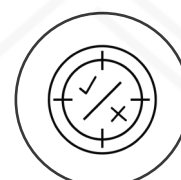
SYNEO's Accu-Lase or Accu-Blast systems are well suited for material surface modification applications. Whether roughening the surface to promote adhesion, creating depth marks on the exterior of a device, cutting to a specified length, annealing an alloy, or removing layers of material - SYNEO has a solution.



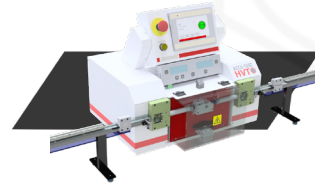
	AUTOMATIC LASER HOLE DRILLING & SURFACE MODIFICATION	<ul style="list-style-type: none"> • ACCU-LASE V Series • ACCU-BLAST CRS100
	AUTOMATIC MICROBLASTING	

ACCU-TEST

AUTOMATED TUBING AND WIRE INSPECTION SYSTEMS



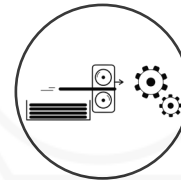
SYNEO's Accu-Test inspection options reduce dependencies on human factors while verifying qualities of an end product. A range of options and inspection techniques are available, whether applications require quantitative or qualitative defect measurement. SYNEO's Accu-Test line includes visual, mechanical and electrical testing methods.



	AUTOMATIC VISION INSPECTION	<ul style="list-style-type: none"> • VIS (Vision) • MIS (Mechanical) • HVT (Electrical)
	AUTOMATIC MECHANICAL INSPECTION	
	AUTOMATIC HIGH VOLTAGE TESTING	

COMBINATION AND CUSTOM AUTOMATION

CUSTOM MACHINE DESIGN AND 3RD PARTY EQUIPMENT INTEGRATIONS



SYNEO offers multi-process integration services to create consolidated processing cells. Leveraging SYNEO's standard machine solutions and SYNEO's custom automation expertise, SYNEO can develop and implement customized, integrated, manufacturing platforms configured to meet your unique, specific strategic goals and objectives. Feeder bowls, automated pick and place solutions, and pad printer integrations are a few examples of past SYNEO automation integrations with 3rd party equipment.