



# Accu-Drill SD

## AUTOMATED HOLE DRILLERS

The Accu-Drill SD Automated Hole Driller is a powerful, safe solution for catheter hole drilling and skiving patterns requiring one to four axes of control. The automatic hole-plug ejector pin system and coordinated hole-plug blow off and vacuum collection system **cleanly remove scrap material**. With full-color LCD touchscreen HMI, pattern memory, and adjustable feed and speed controls, achieve **total control** and **uncompromising precision**. Paired with our powerful SYNEO cutting tools, realize **unmatched hole quality**.



### KEY FEATURES

- Industry's fastest and most reliable machines for quality catheter holes and skives
- Full-color LCD touchscreen HMI with pattern memory systems
- Easy cutting tool and catheter guide changes
- Efficient control and collection of hole plugs and skive debris
- Configurable for any type of catheter requirement

### UNIVERSAL SPECIFICATIONS

**Spindle speed:** 0 - 4,000rpm  
**Drill depth setting resolution:** .001" (.025mm)  
**Drill Chuck Run-out:** .002" (0.05mm) TIR  
**Drill chuck:** .125" (3.17mm) diameter  
**Power:** 110VAC at 50/60Hz  
**Air:** 30-120psi

### COMMONLY PROCESSED MATERIALS

- Teflon® PTFE
- Polyimide
- Polyurethane
- PET
- Polyethylene
- Nylon 6 and small diameter nylon 12
- Teflon® FAP
- Pebax®
- PVC (vinyl)
- Polycarbonate
- Latex and natural rubber
- Silicone
- PEEK
- TPE
- Acrylic

### AVAILABLE MODELS

#### Accu-Drill SD102C

One Axis (Z-axis)

**Orientation:** Vertical  
**Operating speed:** Average 1.3 seconds per hole  
**Memory:** Single program

#### Accu-Drill SD202C

Two Axes (R- and Z-axis)

**Orientation:** Vertical  
**Operating speed:** Average 1.3 seconds per hole  
**Memory:** 16 patterns containing up to 8 holes per pattern  
**Graspers:** 3fr -9fr, 10fr - 18fr, 19fr - 28fr

#### Accu-Drill SD302C

Three Axes (X-, R-, and Z-axis)

**302C Orientation:** Vertical  
**Operating speed:** Average 1.3 seconds per hole  
**Memory:** 16 patterns containing up to 30 holes per pattern  
**X-axis travel:** 6" (15.2cm)  
**Graspers:** 3fr -9fr, 10fr - 18fr, 19fr - 28fr

#### Accu-Drill SD402C

Four Axes (X-, Y-, R-, and Z-axis)

**402C Orientation:** Custom, Vertical  
**Operating speed:** Average 1.2 seconds per hole  
**Memory:** 80 patterns containing up to 80 holes per pattern  
**X-axis travel:** 9.25" (23.5cm)  
**Y-axis travel:** 1.75" (4.4cm)  
**Graspers:** 3fr -9fr, 10fr - 18fr, 19fr - 28fr

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OPTIONS	SD102C	SD202C	SD302C	SD402C
Manually adjustable X and/or Y positioning stages	•	•		
Digital microscope and LCD monitor	•	•	•	•
.156" (3.99mm) diameter capacity drill chuck	•	•	•	•
.062" (1.57mm) diameter capacity micro drill chuck	•	•	•	•
220VAC conversion	•	•	•	•
Vacuum hole-plug collection	•	<i>Standard feature</i>	<i>Standard feature</i>	<i>Standard feature</i>
Hole-plug detection systems	•	•	•	•
Machine vision system	•	•	•	•
Longer X-Axis travel				
Catheter drilling and skiving guides	•	•	•	•
Mechanical catheter graspers	•			
Manual catheter positioning (rotational and linear)	•			
Keyed lumen positioning fixtures	•	•	•	•
Custom part nests	•	•	•	•
R-axis motor tooling		•	•	•
Micro-adjustable bridge and pier assembly		•		
Adjustable R-axis motor mount		•		
Rotating drilling head mount	•	•		
Ultra-precision collet spindle with Levin WW collet	•	•	•	•
Lumen locating sensor package			•	•
Pneumatic skiving stabilizer	•	•	•	•
Recipe standard				
Recipe extended			•	•



An MMT Company

SYNEO is proud to be an MMT company – the sole source for automated, process-driven medical manufacturing.

Medical Manufacturing Technologies (MMT) brings together applications expertise, technical solutions, and aftermarket support to revolutionize medical device manufacturing. [Learn more at mmt-inc.com](http://mmt-inc.com).