

# FSG-1224ADIII

HIGH-PRECISION GRINDER, TOUCH SCREEN CONTROL  
3-AXES, FULLY AUTOMATIC

**CHEVALIER**  
Grinding / Turning / Milling  
We shape your ideas.

## Chevalier's Column Type, High-Precision, 3-Axes, Automatic Surface Grinder Has a New Look



A new feature of the highly rigid construction and stability of the FSG-1224ADIII increases cutting capability. The series features a new PLC controller that includes a grind cycle with rough and fine grinding, spark-out passes and an automatic over-wheel dresser with compensation that can be added to a fully automatic grinding process. After the cycle is finished, the table will “park” either left or right of the saddle and at the front to facilitate unloading and loading.

**The spindle can be set to “stop running” or “continue running.” The wheel head can also be set to return to the start position or to park at a reference point. Once the cycle is started, the wheel head will move rapidly to the start point and repeat the grind cycle. If material is required to be removed from both sides, “flip over” can be selected so that the wheel head position is at the finish grind height and will start grinding immediately without touching off.**

The fully automatic grinding feature consists of rough- and fine-grinding cycles, switching from rough-grinding down-feed increments to fine-grinding down-feed increments at preset points during the cycle. This crossfeed also switches from a rough to fine cross-feed increment, which results in a finer surface finish and finer accuracy.

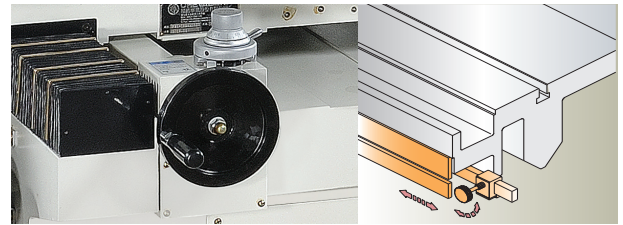
Once the total preset depth is reached, which is displayed on the elevating digital read-out, the machine performs the preset spark-out passes. The control will automatically dress the grinding wheel and compensate the dress amount during the grind cycle, enabling the machine to run unattended if the optional automatic parallel over the wheel dresser is purchased.

The FSG-1224ADIII's new user-friendly touch-screen control has standard surface grinding programs and a plunge grinding cycle. There are also optional crisscross or zigzag cycles and a CBN dressing cycle. So simple and user-friendly, all skill levels can operate this series of ADIII controllers.



### Touch-Screen Control

The FSG-1224ADIII's new user-friendly, touch-screen control has standard surface grinding programs and a plunge grinding cycle. There are also optional crisscross or zigzag cycles, as well as a CBN dressing cycle. So simple and user-friendly, all skill levels can operate this series of ADIII controllers.



**Longitudinal Stroke Adjustment Device** Table reversal is controlled by proximity switches that never make contact. It's simple for the operator to adjust table reversal to the minimum required stroke, grinding less air and reducing grinding time. The stroke adjustment protection plate is designed for table stroke to be adjusted safely.

Description	FSG-1224ADIII	FSG-1632ADIII	FSG-1640ADIII
<b>CAPACITY</b>			
Max. Grinding Length-Longitudinal	24"	32"	40"
Max. Grinding Width-Crosswise	12"	16"	16"
Distance Between Table To Spindle Centerline		24 7/16"	
<b>TABLE (X)</b>			
Table Working Size	11 3/4" x 23 5/8"	15 3/4" x 31 1/2"	15 3/4" x 39 3/8"
Rapid Travel		16~82fpm	
Max. Table Stroke (Manual)	27 1/2"	35 3/8"	43 1/4"
<b>CROSS MOVEMENT (Z)</b>			
Rapid Travel		12 fpm (60Hz), 10 fpm (50Hz)	
Max. Automatic Travel	12"	16"	16"
Max. Manual Travel	13 3/4"	18"	18"
Hand Wheel Per Revolution		0.25"	
Hand Wheel Per Graduation		0.0025"	
<b>WHEEL HEAD MOVEMENT (Y)</b>			
Automatic Infeed		0.00005" ~0.002"	
Rapid Travel		25ipm	
<b>SPINDLE</b>			
Spindle Speed		1,750rpm / 60Hz, 1,450rpm / 50Hz	
Spindle motor		5HP/4P	
Standard Grinding Wheel (OD x W x BORE)		Ø14" x Ø2" x Ø5"	
<b>POWER CONSUMPTION</b>			
	7kVA		8kVA
<b>MACHINE DIMENSIONS</b>			
Floor Space (W x L x H)	116" x 59" x 81 7/8"	139 3/8" x 68" x 81 7/8"	168 1/2" x 68" x 81 7/8"
Machine Net Weight	4,849 lbs.	6,394 lbs.	7,710 lbs.

U.S.A. Headquarters

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