

Clausing Precision ASDII Automatic Surface Grinders



Model CSG-1640ASDII shown with optional paper/coolant system



ASDII Series Control Panel Features...

- Quick digital output feedback by encoder
- Simple touch control panel with digital display
- Use digital display for setting start points, rough grinding volume, finish grinding volume, down feed volume for finish grinding, target point, rise up point, intermittent spark-out, and spark-out

ASDII Series Precision Automatic Surface Grinder Features...

- Vertical feed powered by dual motors, AC motor for rapid up / down and stepping motor for micro downfeed positioning, slow auto downfeed and slow up / down
- Cross transverse travel powered by DC servo motor, allows step feed and continuous infeed grinding
- Wide, deep base and honeycomb ribbed column on 10, 12, & 16 series, designed for heavy-duty grinding
- High quality, ribbed, cast iron table, saddle and base
- All slideways and screws are fully oiled by an automatic continuous lubrication system to minimize wear on slideways & screws
- High Grade Anti-Wear Slideways... The saddle rides on precision, hand-scraped double V ways, and the table rides on precision hand-scraped V and flat ways coated with "TURCITE-B".
- Precision spindle cartridge, supported by preloaded precision angular contact ball bearings and one NN type roller bearing on 618 & 818 models
- Presettable hydraulic table speed control allows operator to pre-set speed rate, so you can have the same speed rate every time the hydraulic table is engaged (10, 12, 16 series)
- Ballscrew for cross travel, powered by DC servo motor

Specifications

Model	CSG618ASDII	CSG818ASDII	CSG1020ASDII	CSG1224ASDII	CSG1228ASDII	CSG1236ASDII	CSG1632ASDII	CSG1640ASDII
Table Size	6" x 18" (152 x 460mm)	8" x 18" (203 x 460mm)	10" x 20" (254 x 508mm)	11.81" x 23.62" (300 x 600mm)	12" x 28" (305 x 712mm)	12" x 36" (305 x 915mm)	16" x 32" (406 x 813mm)	16" x 40" (406 x 1020mm)
Max. grinding length (longitudinal)	19" (480mm)	19" (480mm)	20.47" (520mm)	23.62" (520mm)	28" (712mm)	36" (915mm)	32" (813mm)	40" (1020mm)
Max. grinding width (crosswise)	661" (168mm)	9" (228mm)	11" (280mm)	11.81" (300mm)	13" (330mm)	13" (330mm)	16" (410mm)	16" (410mm)
Max. distance from table surface to spindle centerline: standard optional	18" (460mm) -	18" (460mm) -	19.68" (500mm) 23.62" (600mm)	23" (585mm) -	24.8" (630mm) 28.35" (720mm)	24.8" (630mm) 28.35" (720mm)	24.8" (630mm) 28.35" (720mm)	24.8" (630mm) 28.35" (720mm)
Standard magnetic chuck size	6" x 18" (150 x 450mm)	8" x 18" (200 x 450mm)	10" x 20" (250 x 500mm)	11.81" x 23.63" (300 x 600mm)	11.81" x 27.56" (300 x 700mm)	11.81" x 35.43" (300 x 900mm)	15.75" x 31.5" (400 x 800mm)	15.75" x 39.37" (400 x 1000mm)
Longitudinal movement of table								
Max. travel (hydraulic)	19" (480mm)	19" (480mm)	22.83" (580mm)	25.59" (650mm)	30" (760mm)	37.8" (960mm)	35" (890mm)	41.73" (1060mm)
Max. travel (manual)	20" (510mm)	20" (510mm)	24.41" (620mm)	28.74" (730mm)	32.68" (830mm)	39.37" (1000mm)	36.61" (930mm)	43.31" (1100mm)
Table speed infinitely variable	196"-984"/min. (5-25m/min.)	196"-984"/min. (5-25m/min.)	196"-984"/min. (5-25m/min.)	196"-984"/min. (5-25m/min.)	196"-984"/min. (5-25m/min.)	196"-984"/min. (5-25m/min.)	196"-984"/min. (5-25m/min.)	196"-984"/min. (5-25m/min.)
Crossfeed transverse travel								
Auto transverse increment	.04" - .4" (1-10mm)	.04" - .4" (1-10mm)	.04" - .5" (1-13mm)	.04" - .75" (1-19mm)	.04" - 1" (1-25mm)	.04" - 1" (1-25mm)	.04" - 1" (1-25mm)	.04" - 1" (1-25mm)
Auto constant feeding speed	.79"-12.6" (20-320mm)/min.	.79"-12.6" (20-320mm)/min.	.79"-12.6" (20-320mm)/min.	.79"-12.6" (20-320mm)/min.	.79"-12.6" (20-320mm)/min.	.79"-12.6" (20-320mm)/min.	.79"-12.6" (20-320mm)/min.	.79"-12.6" (20-320mm)/min.
Max. auto transverse travel	7" (180mm)	9.25" (235mm)	10.63" (270mm)	12.2" (310mm)	13.78" (350mm)	13.78" (350mm)	17" (430mm)	17" (430mm)
Max. manual transverse travel	7.68" (195mm)	9.84" (250mm)	11.81" (300mm)	13.39" (300mm)	15" (380mm)	15" (380mm)	18" (460mm)	18" (460mm)
Handwheel per revolution	0.2" (5mm)	0.2" (5mm)	0.2" (5mm)	0.2" (5mm)	0.2" (5mm)	0.2" (5mm)	0.2" (5mm)	0.2" (5mm)
Handwheel per graduation	0.0008" (0.02mm)	0.0008" (0.02mm)	0.0008" (0.02mm)	0.0008" (0.02mm)	0.0008" (0.02mm)	0.0008" (0.02mm)	0.0008" (0.02mm)	0.0008" (0.02mm)
Wheelhead vertical downfeed								
Automatic infeed	.00005"-.0025" (0.001 - 0.05mm)	.00005"-.0025" (0.001 - 0.05mm)	.00005"-.0025" (0.001 - 0.05mm)	.00005"-.0025" (0.001 - 0.05mm)	.00005"-.0025" (0.001 - 0.05mm)	.00005"-.0025" (0.001 - 0.05mm)	.00005"-.0025" (0.001 - 0.05mm)	.00005"-.0025" (0.001 - 0.05mm)
Step feed (JOG)	.00005" (0.001mm)	.00005" (0.001mm)	.00005" (0.001mm)	.00005" (0.001mm)	.00005" (0.001mm)	.00005" (0.001mm)	.00005" (0.001mm)	.00005" (0.001mm)
Rapid travel approx.	10"(250mm)/min	10"(250mm)/min	6"(150mm)/min	6"(150mm)/min	6"(150mm)/min	6"(150mm)/min	6"(150mm)/min	6"(150mm)/min
Slow travel, approx.	.236"(6mm)/min	.236"(6mm)/min	.236"(6mm)/min	.236"(6mm)/min	.236"(6mm)/min	.236"(6mm)/min	.236"(6mm)/min	.236"(6mm)/min
*Minimum display value	.00004" (.001mm)	.00004" (.001mm)	.00004" (.001mm)	.00004" (.001mm)	.00004" (.001mm)	.00004" (.001mm)	.00004" (.001mm)	.00004" (.001mm)
Grinding spindle drive								
Speed (rpm)	3450	3450	3450	1750	1750	1750	1750	1750
Power rating	2 Hp (1.5kw)	2 Hp (1.5kw)	3 Hp (2.2kw)	5 Hp (3.7kw)	7.5 Hp (5.5kw)	7.5 Hp (5.5kw)	7.5 Hp (5.5kw)	7.5 Hp (5.5kw)
Standard grinding wheel								
Diameter	8" (203mm)	8" (203mm)	8" (203mm)	12" (304mm)	14" (355mm)	14" (355mm)	14" (355mm)	14" (355mm)
Width	.5"(12.7mm) max .75"(19mm)	.5"(12.7mm) max .75"(19mm)	.75"(19mm) max 1"(25mm)	1.25" (31.75mm)	2" (50mm)	2" (50mm)	2" (50mm)	2" (50mm)
Bore	1.25" (31.75mm)	1.25" (31.75mm)	1.25" (31.75mm)	3" (76mm)	5" (127mm)	5" (127mm)	5" (127mm)	5" (127mm)
Hydraulic motor (power rating)	1 Hp (.75kw)	1 Hp (.75kw)	2 Hp (1.5kw)	2 Hp (1.5kw)	3 Hp (2.2kw)	3 Hp (2.2kw)	3 Hp (2.2kw)	3 Hp (2.2kw)
Crossfeed motor (power rating)	40W	40W	80W	80W	80W	80W	80W	80W
Elevating motor (power rating)	40W	40W	80W	80W	1/4 Hp (.2kw)	1/4 Hp (.2kw)	1/4 Hp (.2kw)	1/4 Hp (.2kw)
Total space required (LxWxH)	71"x45"x65" (1810x1130x1660mm)	71"x50.6"x66" (1810x1285x1680mm)	94.5"x57.5"x68.9" (2400x1450x1750mm)	106.3"x63"x73" (2700x1600x1850mm)	116"x78"x81" (2950x1970x2050mm)	140"x78"x81" (3550x1970x2050mm)	130"x87"x81" (3290x2200x2050mm)	158"x87"x81" (4020x2200x2050mm)
Weight								
Net weight	1,874 lbs (850kg)	2,657 lbs (1205kg)	3,990 lbs (1810kg)	4,387 lbs (1990kg)	6,659 lbs (3020kg)	7,341 lbs (3330kg)	7,496 lbs (3400kg)	8,818 lbs (4000kg)
Gross weight (lbs)	2,204 lbs (1000kg)	3,031 lbs (1375kg)	4,762 lbs (2160kg)	5,038 lbs (2290kg)	7,760 lbs (3520kg)	8,157 lbs (3700kg)	8,818 lbs (4000kg)	9,920 lbs (4500kg)
Rated power, approx.	3 Hp (2.3kw)	3 Hp (2.3kw)	5.2 Hp (3.9kw)	8.25 Hp (6kw)	11 Hp (8.2kw)	11 Hp (8.2kw)	11 Hp (8.2kw)	11 Hp (8.2kw)
Packing dimensions	71"x52"x76" (1800x1320x1930mm)	75"x56"x76" (1890x1430x1930mm)	91"x84"x83" (2290x2130x2100mm)	98"x84"x83" (2480x2140x2100mm)	98"x90"x87" (2500x2290x2220mm)	109"x90"x87" (2780x2290x2220mm)	109"x90"x87" (2780x2290x2220mm)	128"x90"x87" (3250x2290x2220mm)

*ADSII models have no elevating handwheel but jog buttons per revolution or graduations. Machine design, control, and specifications are subject to change without notice.