



SURFACE GRINDERS PRODUCT CATALOG

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SURFACE GRINDERS

A Line of Precision Low-cost, High Performance Surface Grinders

- Precision Manual Surface Grinders
- Precision Hydraulic Surface Grinders
- Precision Automatic Surface Grinders

CLAUSING PRECISION 618 & 818 SERIES

Manual Surface Grinders (H Models)

Longitudinal Hydraulics and Motorized Crossfeed Surface Grinders (2A Models)

Longitudinal Hydraulics, Motorized Crossfeed and Motorized Rapid Up/Down Surface Grinders (3A Models)



Model CSG3A818 shown with optional dresser and coolant/dust system

Features

High Precision Cartridge Spindle

- High precision cartridge type spindle is supported by 2 preloaded precision angular contact ball bearings & one NN type roller bearing and driven by V3 class motor that allows high accuracy grinding performance.

Anti-wear Guide Ways

- The saddle rests on precision hand-scraped double V ways & the table rests on precision hand-scraped V & flat ways which are coated with 'TURCITE-B'. These guide ways are equipped with auto lubrication to resist wear for lasting accuracy and dampening.

CSG618/818 hand feed grinders have ballways between table and saddle.

Rigid Cast Construction

- Machines are constructed of high grade cast iron with heavy walls & reinforced ribs to provide excellent rigidity and dampening.

Enlarged Column & Base

- Enlarged column & base create high stability & rigidity. The maximum height is 18" (460mm) from table surface to the center line of spindle.

Auto Lube System

- Automatic lubrication system is supplied as standard to ensure sufficient lubrication to lead-screws & guideways for greater longevity.

Timing Belt Table Drive

- Handfeed models (**CSG618/818 only**) use a timing belt for the table drive which has enclosed high tensile steel cores that ensure more smooth table movement and longevity. The table handwheel can be indexed to 9 different positions, without backlash, for more convenient operation.

Longitudinal & Cross Drive

- On **2A and 3A** the longitudinal movement is driven by a hydraulic system. The cross movement is driven by servo motor for more accurate increment feeding.

MODE	CSG618H	CSG2A618	CSG3A618	CSG818H	CSG2A818	CSG3A818
Table Size	6" x 18" (152 x 457 mm)	6" x 18" (152 x 457 mm)	6" x 18" (152 x 457 mm)	8" x 18" (203 x 457 mm)	8" x 18" (203 x 457 mm)	8" x 18" (203 x 457 mm)
Max. grinding length (longitudinal)	19" (482 mm)	19" (482 mm)	19" (482 mm)	19" (482 mm)	19" (482 mm)	19" (482 mm)
Max. grinding width (crosswise)	7" (178 mm)	7" (178 mm)	7" (178 mm)	9" (228 mm)	9" (228 mm)	9" (228 mm)
Max. distance from table surface to spindle centerline (standard column)	18" (457 mm)	18" (457 mm)	18" (457 mm)	18" (457 mm)	18" (457 mm)	18" (457 mm)
Standard magnetic chuck size	6" x 18" (152 x 457 mm)	6" x 18" (152 x 457 mm)	6" x 18" (152 x 457 mm)	8" x 18" (203 x 457 mm)	8" x 18" (203 x 457 mm)	8" x 18" (203 x 457 mm)
LONGITUDINAL MOVEMENT OF TABLE						
Max. travel (hydraulic)		19" (482 mm)	19" (482 mm)		19" (482 mm)	19" (482 mm)
Max. travel (manual)	20" (508 mm)	20" (508 mm)	20" (508 mm)	20" (508 mm)	20" (508 mm)	20" (508 mm)
Table speed infinitely variable		0.196"–0.984" in/min. (5–25 mm/min.)	0.196"–0.984" in/min. (5–25 mm/min.)		0.196"–0.984" in/min. (5–25 mm/min.)	0.196"–0.984" in/min. (5–25 mm/min.)
CROSSFEED TRANSVERSE TRAVEL						
Auto transverse increment		0.04" – 0.4" (1–10 mm)	0.04" – 0.4" (1–10 mm)		0.04" – 0.4" (1–10 mm)	0.04" – 0.4" (1–10 mm)
Max. auto transverse travel		7" (180 mm)	7" (178 mm)		9.25" (235 mm)	9.25" (235 mm)
Max. manual transverse travel	7.75" (196 mm)	7.68" (195 mm)	7.68" (195 mm)	9.75" (248 mm)	9.84" (250 mm)	9.84" (250 mm)
Handwheel per revolution	0.2" (5 mm)	0.2" (5 mm)	0.2" (5 mm)	0.2" (5 mm)	0.2" (5 mm)	0.2" (5 mm)
Handwheel per graduation	0.0005" (0.0127 mm)	0.0005" (0.0127 mm)	0.0005" (0.0127 mm)	0.0005" (0.0127 mm)	0.0005" (0.0127 mm)	0.0005" (0.0127 mm)
WHEELHEAD VERTICAL DOWNFEED						
Rapid Travel Approx.			10" (250 mm)/min			10" (250 mm)/min
Handwheel per revolution	0.05" (1 mm)	0.05" (1 mm)	0.05" (1 mm)	0.05" (1 mm)	0.05" (1 mm)	0.05" (1 mm)
Handwheel per graduation	0.0002" (.005 mm)	0.0001" (.0025 mm)	0.0001" (.0025 mm)	0.0002" (.005 mm)	0.0001" (.0025 mm)	0.0001" (.0025 mm)
GRINDING SPINDLE DRIVE						
Speed (rpm)	3450	3450	3450	3450	3450	3450
Power rating	2 HP (1.5kw)	2 HP (1.5kw)	2 HP (1.5kw)	2 HP (1.5kw)	2 HP (1.5kw)	2 HP (1.5kw)
STANDARD GRINDING WHEEL						
Diameter	8" (203 mm)	8" (203 mm)	8" (203 mm)	8" (203 mm)	8" (203 mm)	8" (203 mm)
Width	0.5"–0.75" (13–19 mm)	0.5"–0.75" (13–19 mm)	0.5"–0.75" (13–19 mm)	0.5"–0.75" (13–19 mm)	0.5"–0.75" (13–19 mm)	0.5"–0.75" (13–19 mm)
Bore	1.25" (31.75 mm)	1.25" (31.75 mm)	1.25" (31.75 mm)	1.25" (31.75 mm)	1.25" (31.75 mm)	1.25" (31.75 mm)
MOTORS						
Hydraulic motor (power rating)		1 HP x 6P	1 HP x 6P		1 HP x 6P	1 HP x 6P
Crossfeed motor (power rating)		40W x 6P	40W x 6P		40W x 6P	40W x 6P
Elevating motor (power rating)			40W x 4P			40W x 4P
WEIGHT						
Net Weight	1,584 lbs (720kg)	1,808 lbs (820kg)	1,870 lbs (848kg)	2,332 lbs (1,058kg)	2,574 lbs (1,168kg)	2,651 lbs (1,203kg)
Gross Weight	1,870 lbs (850kg)	2,138 lbs (970kg)	2,200 lbs (998kg)	2,662 lbs (1,208kg)	2,948 lbs (1,338kg)	3,205 lbs (1,454kg)
ADDITIONAL SPECS						
Total rated power requirements (approx.)	2 HP (1.5kw)	3 HP (2.3kw)	3 HP (2.3kw)	2 HP (1.5kw)	3 HP (2.3kw)	3 HP (2.3kw)
Total floor space required (LxWxH)	71" x 45" x 65" (1803x1143x1651 mm)	71" x 45" x 65" (1803x1143x1651 mm)	71" x 45" x 65" (1803x1143x1651 mm)	71" x 50.5" x 66" (1803x1283x1677 mm)	71" x 50.5" x 66" (1803x1283x1677 mm)	71" x 50.5" x 66" (1803x1283x1677 mm)
Shipping dimensions (L x W x H)	45" x 51" x 76" (1143x1295x1930 mm)	65" x 45" x 76" (1651x1143x1930 mm)	78" x 56" x 76" (1981x1422x1930 mm)	60" x 45" x 76" (1524x1143x1930 mm)	67" x 53" x 76" (1702x1346x1930 mm)	75" x 56" x 76" (1905x1422x1930 mm)

All specifications subject to change without notice or obligation.

CLAUSING PRECISION 10-12-16 SERIES

Longitudinal Hydraulics and Motorized Crossfeed Surface Grinders (2A) Longitudinal Hydraulics, Motorized Crossfeed and Motorized Rapid Up/Down Surface Grinders (3A)



Model CSG3A1020 shown with optional dresser and coolant/dust system



Model CSG3A1228 shown with optional paper/coolant system

Features

High Precision Cartridge Spindle

- High precision cartridge type spindle is supported by 2 preloaded precision angular contact ball bearings & one NN type roller bearing and driven by V3 class motor that allows high accuracy grinding performance.

Anti-wear Guide Ways

- The saddle rests on precision hand-scraped double V ways & the table rests on precision hand-scraped V & flat ways which are coated with 'TURCITE-B'. These guide ways are equipped with auto lubrication to resist wear for lasting accuracy and dampening.

Rigid Cast Construction

- Machines are constructed of high grade cast iron with heavy walls & reinforced ribs to provide excellent rigidity and dampening.

Cross Feed

- Ball screw for cross travel, powered by AC motor.

Proximity

- Has a built-in type (hidden) proximity switch for easy operation.

Enlarged Column & Base

- Enlarged column & base create high stability & rigidity. The maximum height is 18" (460mm) from table surface to the center line of spindle.

Auto Lube System

- Automatic lubrication system is supplied as standard to ensure sufficient lubrication to lead-screws & guideways for greater longevity.

Longitudinal & Cross Drive

- The longitudinal movement is driven by a hydraulic system. The cross movement is driven by servo motor for more accurate increment feeding.

Table Speed Control

- Presetttable hydraulic table speed control allows operator to pre-set speed rate, enables you to have same speed rate when engaging hydraulic table every time. 12 and 16 models have a dual throttle valve for 25mm to 25M Longitudinal speeds.

SPECIFICATIONS

MODE	CSG2A1020	CSG3A1020	CSG2A1224	CSG3A1224	CSG3A1228	CSG3A1236	CSG3A1632	CSG3A1640
Table Size	10" x 20" (254 x 508mm)	10" x 20" (254 x 508 mm)	11.81" x 23.83" (300 x 605 mm)	11.81" x 23.83" (300 x 605 mm)	12" x 28" (305 x 712 mm)	12" x 36" (305 x 915 mm)	16" x 32" (406 x 813 mm)	16" x 40" (406 x 1016 mm)
Max. grinding length (longitudinal)	20.5" (520 mm)	20.5" (520 mm)	23.6" (600 mm)	23.6" (600 mm)	28" (712 mm)	36" (915 mm)	32" (813 mm)	40" (1016 mm)
Max. grinding width (crosswise)	11" (280 mm)	11" (280 mm)	11.81" (300 mm)	11.81" (300 mm)	13" (330 mm)	13" (330 mm)	16" (406 mm)	16" (406 mm)
Max. distance from table surface to spindle centerline (standard column) (optional column)	19.62" (498 mm) 23.62" (600 mm)	19.68" (500 mm) 23.62" (600 mm)	23" (585 mm)	23" (585 mm)	24.75" (630 mm) 28.35" (720 mm)	24.75" (630 mm) 28.35" (720 mm)	24.75" (630 mm) 28.35" (720 mm)	24.75" (630 mm) 28.35" (720 mm)
Standard magnetic chuck size	10" x 20" (254 x 508 mm)	10" x 20" (254 x 508 mm)	11.81" x 23.6" (300 x 600 mm)	11.81" x 23.6" (300 x 600 mm)	11.75" x 27.50" (298 x 698 mm)	11.75" x 35.37" (298 x 898 mm)	15.68" x 31.5" (398 x 800 mm)	15.68" x 39.25" (398 x 996 mm)
LONGITUDINAL MOVEMENT OF TABLE								
Max. travel (hydraulic)	22.75" (577 mm)	22.75" (578 mm)	25.56" (650 mm)	25.56" (650mm)	30" (760 mm)	37.75" (958 mm)	35" (889 mm)	41.68" (1058 mm)
Max. travel (manual)	24.37" (619 mm)	22.37" (568 mm)	28.75" (730 mm)	28.75" (730 mm)	32.56" (827 mm)	39.37" (999 mm)	36.50" (927 mm)	43.25" (1098 mm)
Table speed infinitely variable	0.196"-0.984" in/min. (5-25 mm/min.)	0.196"-0.984" in/min. (5-25 mm/min.)	0.196"-0.984" in/min. (5-25 mm/min.)	0.196"-0.984" in/min. (5-25 mm/min.)	0.196"-0.984" in/min. (5-25 mm/min.)	0.196"-0.984" in/min. (5-25 mm/min.)	0.196"-0.984" in/min. (5-25 mm/min.)	0.196"-0.984" in/min. (5-25 mm/min.)
CROSSFEED TRANSVERSE TRAVEL								
Auto transverse increment	0.04"-1" (1-25 mm)	0.04"-1" (1-25 mm)	0.04"-1" (1-25 mm)	0.04"-1" (1-25 mm)	0.04"-1" (1-25 mm)	0.04"-1" (1-25 mm)	0.04"-1" (1-25 mm)	0.04"-1" (1-25 mm)
Max. auto transverse travel	10.63" (270 mm)	10.63" (270 mm)	12.2" (310 mm)	12.2" (310 mm)	13.75" (350 mm)	13.75" (350 mm)	17" (430 mm)	17" (430 mm)
Max. manual transverse travel	11.81" (300 mm)	11.81" (300 mm)	13.39" (340 mm)	13.39" (340 mm)	15" (380 mm)	15" (380 mm)	18" (460 mm)	18" (460 mm)
Handwheel per revolution	0.2" (5 mm)	0.2" (5 mm)	0.2" (5 mm)	0.2" (5 mm)	0.2" (5 mm)	0.2" (5 mm)	0.2" (5 mm)	0.2" (5 mm)
Handwheel per graduation	0.001" (0.025 mm)	0.001" (0.025 mm)	0.001" (0.025 mm)	0.001" (0.025 mm)	0.001" (0.025 mm)	0.001" (0.025 mm)	0.001" (0.025 mm)	0.001" (0.025 mm)
WHEELHEAD VERTICAL DOWNFEED								
Rapid Travel Approx.		6" (150 mm)/min		6" (150 mm)/min	6" (150 mm)/min	6" (150 mm)/min	6" (150 mm)/min	6" (150 mm)/min
Handwheel per revolution	0.04" (1 mm)	0.04" (1 mm)	0.04" (1 mm)	0.04" (1 mm)	0.04" (1 mm)	0.04" (1 mm)	0.04" (1 mm)	0.04" (1 mm)
Handwheel per graduation	0.0005" (0.0127 mm)	0.0005" (0.0127 mm)	0.0005" (0.0127 mm)	0.0005" (0.0127 mm)	0.0005" (0.0127 mm)	0.0005" (0.0127 mm)	0.0005" (0.0127 mm)	0.0005" (0.0127 mm)
GRINDING SPINDLE DRIVE								
Speed (rpm)	3450	3450	1750	1750	1750	1750	1750	1750
Power rating	3 HP	3 HP	5 HP	5 HP	7.5 HP	7.5 HP	7.5 HP	7.5 HP
STANDARD GRINDING WHEEL								
Diameter	8" (203 mm)	8" (203 mm)	12" (304 mm)	12" (304 mm)	14" (355 mm)	14" (355 mm)	14" (355 mm)	14" (355 mm)
Width	0.75"-1" (19-25 mm)	0.75"-1" (19-25 mm)	1.25" (31.75 mm)	1.25" (31.75 mm)	2" (50 mm)	2" (50 mm)	2" (50 mm)	2" (50 mm)
Bore	1.25" (31.75 mm)	1.25" (31.75 mm)	3" (76.2 mm)	3" (76.2 mm)	5" (127 mm)	5" (127 mm)	5" (127 mm)	5" (127 mm)
MOTORS								
Hydraulic motor (power rating)	2 HPx 6P	2 HPx 6P	2 HPx 6P	2 HPx 6P	3 HPx 6P	3 HPx 6P	3 HPx 6P	3 HPx 6P
Crossfeed motor (power rating)	80W x 6P	80W x 6P	80W x 6P	80W x 6P	80W x 6P	80W x 6P	80W x 6P	80W x 6P
Elevating motor (power rating)		80W x 6P		80W x 6P	1/4 HPx 6P	1/4 HPx 6P	1/4 HPx 6P 1/4	HPx 6P
WEIGHT								
Net Weight	3,916 lbs (1,780kg)	3,990 lbs (1,810kg)	4,299 lbs (1,950kg)	4,378 lbs (1,985kg)	6,644 lbs (3,013kg)	7,326 lbs (3,323kg)	7,480 lbs (3,392kg)	8,800 lbs (3,991kg)
Gross Weight	4,686 lbs (2,130kg)	4,762 lbs (2,160kg)	4,960 lbs (2,250kg)	5,038 lbs (2,285kg)	7,744 lbs (3,512kg)	8,140 lbs (3,692kg)	8,818 lbs (3,999kg)	9,900 lbs (4,490kg)
ADDITIONAL SPECS								
Total rated power requirements (approx.)	5 HP (3.7kw)	5.5 HP (4kw)	7.5 HP (5.6kw)	8.25 HP (6.1kw)	11 HP (8.2kw)	11 HP (8.2kw)	11 HP (8.2kw)	11 HP (8.2kw)
Total floor space required (LxWxH)	94.5" x 57" x 68.5" (2400 x 1447 x 1740mm)	94.5" x 57" x 68.5" (2400 x 1447 x 1740mm)	106.25" x 63" x 73" (2699 x 1600 x 1854mm)	106.3" x 63" x 73" (2700 x 1600 x 1854mm)	116" x 78" x 81" (2946 x 1981 x 2057mm)	140"x78"x81" (3556 x 1981 x 2057mm)	130"x87"x81" (3302 x 2209 x 2057mm)	158"x87"x81" (4020 x 2200 x 2050mm)
Shipping dimensions (L x W x H)	91"x84"x83" (2311x2133x2108 mm)	91"x84"x83" (2311x2133x2108 mm)	90"x84"x83" (2286x2133x2108 mm)	90"x84"x83" (2489x2133x2108 mm)	98"x90"x87" (2489x2286x2209 mm)	118"x90"x87" (2997x2286x2209 mm)	109"x90"x88" (2769x2286x2235 mm)	128"x90"x88" (3250x2290x2235 mm)

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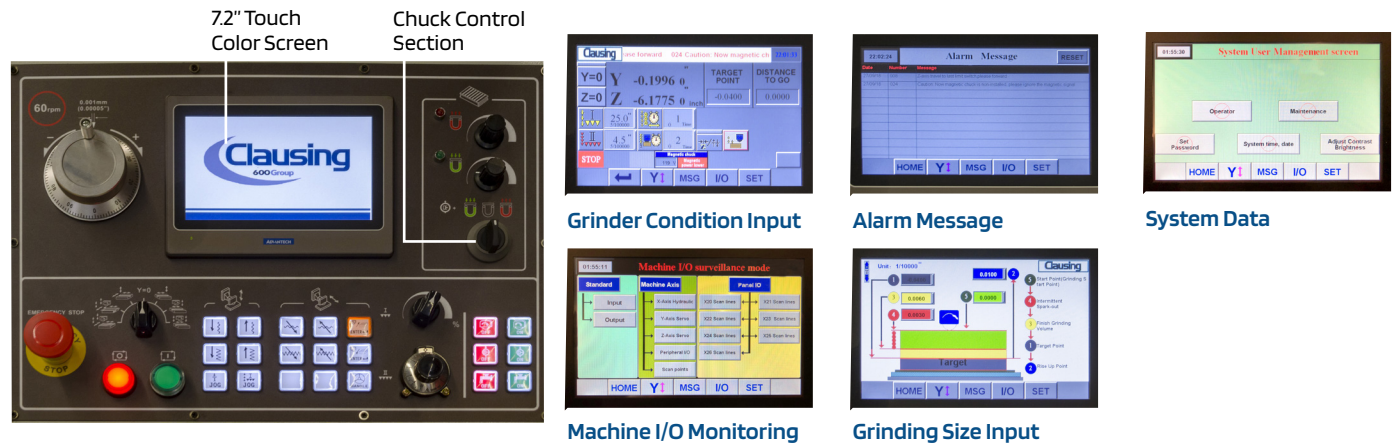
CLAUSING PRECISION ASDIII AUTOMATIC SURFACE GRINDERS



Model CSG1640ASDIII shown
with optional paper/coolant system

ASDIII SERIES OPERATION PANEL

Delta PLC Digital Control features a 7.2" color touch screen and is equipped with the exclusive EQUIPTOP Conversational mode working system, easy to learn and operate.



Features

- On ASDIII models, you can set the vertical zero point, start point, finish grinding volume, target point and the grinding wheel rise-up point.
- The machine features a simple and clear digital display & touch control panel for easy learning and operation.
- Vertical feed powered by dual motors, AC motor for rapid up / down and stepping motor for microdownfeed positioning, slow auto downfeed and slow up/down.
- Vertical positioning is displayed on the screen showing present spindle and setting the start point, rough grinding volume, finish grinding volume, downfeed volume for finish grinding, target point, rise up point, intermittent spark-out.
- Cross transverse travel powered by DC servo motor, allows step feed and continuous infeed grinding.
- The speed of wheel dressing can be adjusted on the control panel.
- Wide, deep base and honeycomb ribbed column on 10, 12, 16 & 20 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 NU type roller bearing. 618 and 818 have one NN type roller bearing instead of NU.
- Presetttable 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 thru 20 series).
- Ballscrew for cross travel, powered by DC servo motor.

SPECIFICATIONS

MODE	CSG818ASDIII	CSG1020ASDIII	CSG1224ASDIII	CSG1228ASDIII	CSG1236ASDIII	CSG1632ASDIII	CSG1640ASDIII	CSG2040ASDIII
Table Size	8" x 18" (203 x 457 mm)	10" x 20" (254 x 508 mm)	12" x 24" (300 x 610 mm)	12" x 28" (305 x 711 mm)	12" x 36" (305 x 914 mm)	16" x 36" (406 x 914 mm)	16" x 40" (406 x 1016 mm)	20" x 40" (508 x 1016 mm)
Max. grinding length (longitudinal)	19" (483 mm)	20.47" (520 mm)	23.62" (600 mm)	28" (711 mm)	36" (915 mm)	32" (813 mm)	40" (1016 mm)	40" (1016 mm)
Max. grinding width (crosswise)	9" (229 mm)	11" (280 mm)	11.81" (300 mm)	13" (330 mm)	13" (330 mm)	16" (406 mm)	16" (406 mm)	20" (508 mm)
Max. distance from table surface to spindle centerline (standard column) (optional column)	18" (457 mm)	19.68" (500 mm) 23.62" (600 mm)	23" (584 mm) 28.35" (720 mm)	24.8" (630 mm) 28.35" (720 mm)	24.8" (630 mm) 28.35" (720 mm)	24.8" (630 mm) 28.35" (720 mm)	24.8" (630 mm) 28.35" (720 mm)	24.8" (630 mm) 28.35" (720 mm)
Standard magnetic chuck size	8" x 18" (203 x 457 mm)	10" x 20" (254 x 508 mm)	11.81" x 23.63" (300 x 600 mm)	11.81" x 27.56" (300 x 700 mm)	11.81" x 35.43" (300 x 900 mm)	15.75" x 31.5" (400 x 800 mm)	15.75" x 39.37" (400 x 1000 mm)	19.68" x 39.37" (500 x 1000 mm)
LONGITUDINAL MOVEMENT OF TABLE								
Max. travel (hydraulic)	19" (483 mm)	22.83" (580 mm)	25.59" (650 mm)	30" (760 mm)	37.8" (960 mm)	35" (889 mm)	41.73" (1060 mm)	41.73" (1060 mm)
Max. travel (manual)	20" (508 mm)	24.41" (620 mm)	28.74" (730 mm)	32.68" (830 mm)	39.37" (1000 mm)	36.61" (930 mm)	43.31" (1100 mm)	43.31" (1100 mm)
Table speed infinitely variable	0.19" - 0.98" /min. (5-25 m/min.)	0.19" - 0.98" /min. (5-25 m/min.)	0.19" - 0.98" /min. (5-25 m/min.)	0.19" - 0.98" /min. (5-25 m/min.)	0.19" - 0.98" /min. (5-25 m/min.)	0.19" - 0.98" /min. (5-25 m/min.)	0.19" - 0.98" /min. (5-25 m/min.)	0.19" - 0.98" /min. (5-25 m/min.)
CROSSFEED TRANSVERSE TRAVEL								
Auto transverse increment	0.04"-0.4" (1-10 mm)	0.04"-0.5" (1-13 mm)	0.04"-0.75" (1-19 mm)	0.04"-1" (1-25 mm)	0.04"-1" (1-25 mm)	0.04"-1" (1-25 mm)	0.04"-1" (1-25 mm)	0.04"-1" (1-25 mm)
Auto constant feeding speed	0.79"-12.6" (20-320 mm)/min.	0.79"-12.6" (20-320 mm)/min.	0.79"-12.6" (20-320 mm)/min.	0.79"-12.6" (20-320 mm)/min.	0.79"-12.6" (20-320 mm)/min.	0.79"-12.6" (20-320 mm)/min.	0.79"-12.6" (20-320 mm)/min.	0.79"-12.6" (20-320 mm)/min.
Max. auto transverse travel	9.25" (235 mm)	10.63" (270 mm)	12.2" (310 mm)	13.78" (350 mm)	13.78" (350 mm)	17" (431 mm)	17" (431 mm)	20" (510 mm)
Max. manual transverse travel	9.84" (250 mm)	11.81" (300 mm)	13.39" (340 mm)	15" (380 mm)	15" (380 mm)	18" (457 mm)	18" (457 mm)	20.47" (520 mm)
Handwheel per revolution	0.2" (5 mm)	0.2" (5 mm)	0.2" (5 mm)	0.2" (5 mm)	0.2" (5 mm)	0.2" (5 mm)	0.2" (5 mm)	0.2" (5 mm)
Handwheel per graduation	0.0008" (.0203 mm)	0.0008" (.0203 mm)	0.0008" (.0203 mm)	0.0008" (.0203 mm)	0.0008" (.0203 mm)	0.0008" (.0203 mm)	0.0005" (.0127 mm)	0.0008" (.0203 mm)
WHEELHEAD VERTICAL DOWNFEED								
Automatic infeed	0.00005"-0.0025" (0.001-0.05 mm)	0.00005"-0.0025" (0.001-0.05 mm)	0.00005"-0.0025" (0.001-0.05 mm)	0.00005"-0.0025" (0.001-0.05 mm)	0.00005"-0.0025" (0.001-0.05 mm)	0.00005"-0.0025" (0.001-0.05 mm)	0.00005"-0.0025" (0.001-0.05 mm)	0.00005"-0.0025" (0.001-0.05 mm)
Step Feed (JOG)	0.00004" (0.001 mm)	0.00004" (0.001 mm)	0.00004" (0.001 mm)	0.00004" (0.001 mm)	0.00004" (0.001 mm)	0.00004" (0.001 mm)	0.00004" (0.001 mm)	0.00004" (0.001 mm)
Rapid Travel Approx.	10" (254 mm)/min	6" (150 mm)/min	6" (150 mm)/min	6" (150 mm)/min	6" (150 mm)/min	6" (150 mm)/min	6" (150 mm)/min	6" (150 mm)/min
Slow travel, approx.	0.236" (6 mm)/min	0.236" (6 mm)/min	0.236" (6 mm)/min	0.236" (6 mm)/min	0.236" (6 mm)/min	0.236" (6 mm)/min	0.236" (6 mm)/min	0.236" (6 mm)/min
*Minimum display value	0.0004" (0.0101 mm)	0.0004" (0.0101 mm)	0.0004" (0.0101 mm)	0.0004" (0.0101 mm)	0.0004" (0.0101 mm)	0.0004" (0.0101 mm)	0.0004" (0.0101 mm)	0.0004" (0.0101 mm)
GRINDING SPINDLE DRIVE								
Speed (rpm)	3450	3450	1750	1750	1750	1750	1750	1750
Power rating	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)	7.5 HP (5.5kw)
STANDARD GRINDING WHEEL								
Diameter	8" (203 mm)	8" (203 mm)	12" (304 mm)	14" (355 mm)	14" (355 mm)	14" (355 mm)	14" (355 mm)	14" (355 mm)
Width	0.5"-0.75" (12.7-19 mm)	0.75"-1" (19-25 mm)	1.25" (31.75 mm)	2" (50 mm)	2" (50 mm)	2" (50 mm)	2" (50 mm)	2" (50 mm)
Bore	1.25" (31.75 mm)	1.25" (31.75 mm)	3" (76.2 mm)	5" (127 mm)	5" (127mm)	5" (127 mm)	5" (127 mm)	5" (127 mm)
MOTORS								
Hydraulic motor (power rating)	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)	3 HP (2.2kw)
Crossfeed motor (power rating)	1/2 HP 350W	1 HP 750W	1 HP 750W	1 HP 750W	1 HP 750W	1 HP 750W	1 HP 750W	1 HP 750W
Elevating motor (power rating)	40W x 4P	1/4 HP (.2kw)	1/4 HP (.2kw)	1/4 HP (.2kw)	1/4 HP (.2kw)	1/4 HP (.2kw)	1/4 HP (.2kw)	1/4 HP (.2kw)
WEIGHT								
Net Weight	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)	10,582 lbs (4800kg)
Gross Weight	3,031 lbs (1375kg)	4,762 lbs (2160kg)	5,038 lbs (2285kg)	7,760 lbs (3520kg)	8,157 lbs (3700kg)	8,818 lbs (4000kg)	9,920 lbs (4500kg)	11,464 lbs (5200kg)
ADDITIONAL SPECS								
Total rated power requirements (approx.)	3 HP (2.2kw)	5.2 HP (3.8kw)	8.25 HP (6kw)	11 HP (8.2kw)	12 HP (8.9kw)	12 HP (8.9kw)	12 HP (8.9kw)	12 HP (8.9kw)
Total floor space required (LxWxH)	71" x 50.6" x 66" (1803x1285x1676 mm)	94.5"x57.5"x68.9" (2400x1460x1750 mm)	106.3"x63"x73" (2700x1600x1854 mm)	116"x78"x81" (2946x1981x2057 mm)	140"x78"x81" (3556x1981x2057 mm)	130"x87"x81" (3302x2210x2057 mm)	158"x87"x81" (4013x2209x2057 mm)	177"x87"x83" (4496x2209x2108 mm)
Shipping dimensions (L x W x H)	75"x56"x66" (1905x1422x1676 mm)	91"x84"x83" (2311x2134x2108 mm)	98"x84"x83" (2489x2134x2108 mm)	98"x90"x87" (2489x2286x2209 mm)	109"x90"x87" (2768x2286x2209 mm)	111"x91"x88" (2819x2311x2235 mm)	128"x90"x87" (3251x2286x2209 mm)	138"x90"x87" (3505x2286x2209 mm)

*ASDIII models have no elevating handwheel but jog buttons per revolution or graduations. All specifications subject to change without notice or obligation.

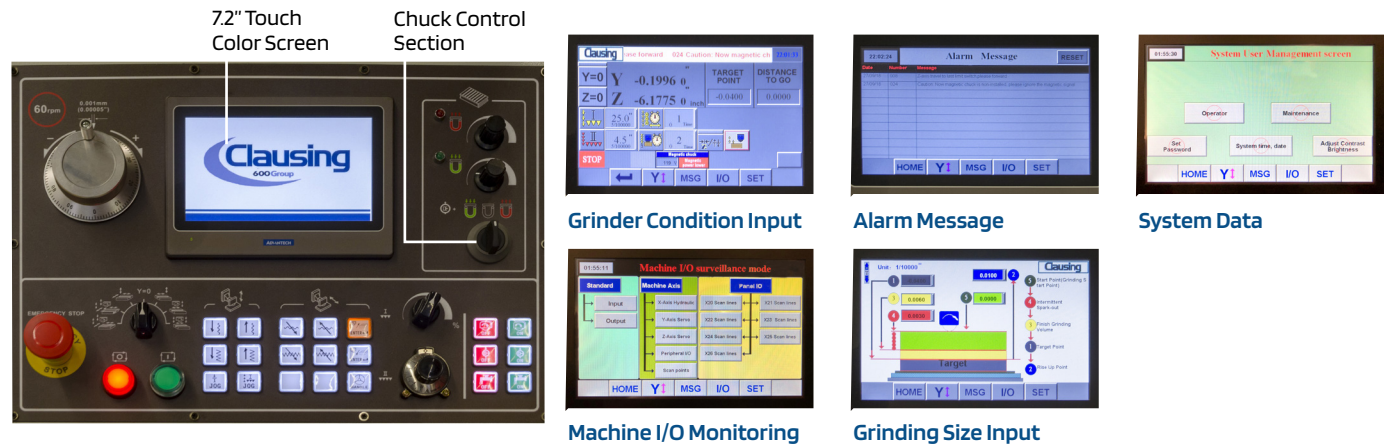
CLAUSING LARGE CAPACITY PRECISION ASDIII AUTOMATIC SURFACE GRINDERS



Shown with optional MPG, Dynamic Balancer, Coolant System with Auto Paper Feeding Device and Magnetic Separator

ASDIII SERIES OPERATION PANEL

Delta PLC Digital Control features a 7.2" color touch screen and is equipped with the exclusive EQUIPTOP Conversational mode working system, easy to learn and operate.



Features

- Large capacity up to 32" x 120" (810 x 3050mm) Table
- Enlarged extra strong ribbed column, ideal for heavy-duty grinding.
- Table, saddle and base are constructed of high grade cast iron and ribbed for maximum strength.
- Spindle is supported by 4 front and 2 rear precision angular contact ball bearings.
- All slideways and ballscrews fully oiled by an automatic continuous lubrication system to minimize wear on slideways and ballscrews.
- Longitudinal hydraulic transverse with constant speed function or

- manual speed handle. Table rides on double V slideways coated with "TURCITE-B" for maximum stability.
- Cross traverse travel powered by DC servo motor and ballscrew, allows step feed and continuous infeed grinding.
- Vertical positioning by precision ballscrew.
- Pre-set hydraulic table speed control allows operator to pre-set table speed rate and maintain the same speed rate every time the hydraulic table is engaged.

CSG24 and 32 are column type construction

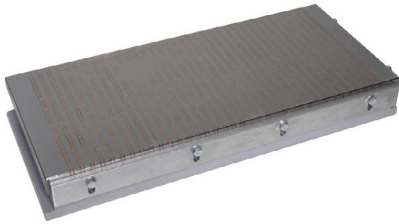
MODE	CSG2448ASDIII	CSG2460ASDIII	CSG2480ASDIII	CSG3260ASDIII	CSG3280ASDIII	CSG32120ASDIII
Table Size	24" x 48" (610 x 1219 mm)	24" x 60" (610 x 1524 mm)	24" x 80" (610 x 2032 mm)	32" x 60" (813 x 1524 mm)	32" x 80" (813x 2032 mm)	32" x 120" (813x 3048 mm)
Max. grinding length (longitudinal)	49.6" (1260 mm)	61.5" (1562 mm)	81" (2057 mm)	60" (1524 mm)	80" (2032 mm)	120" (3048 mm)
Max. grinding width (crosswise)	24" (610 mm)	24" (610 mm)	24" (610 mm)	32" (813 mm)	32" (813 mm)	32" (813 mm)
Max. distance from table surface to spindle centerline						
Standard Column	28.3" (719 mm)	28.3" (719 mm)	28.3" (724 mm)	28.3" (724 mm)	28.3" (720 mm)	28.3" (720 mm)
Optional Column	33.5" (851 mm)	33.5" (850 mm)	33.5" (850 mm)	33.5" (850 mm)	33.5" (850 mm)	33.5" (850 mm)
Standard magnetic chuck size	23.6" x 47.2" (599 x 1199 mm)	23.6" x 59" ea 2pcs (600 x 1499 mm) ea 2pcs	23.6" x 39.37" ea 2pcs (600 x 1000 mm) ea 2pcs	31.5" x 29.5" ea 2pcs (800 x 750 mm) ea 2pcs	31.5" x 39.37" ea 2pcs (800 x 1000 mm) ea 2pcs	31.5" x 39.37" ea 3pcs (800 x 1000 mm) ea 3pcs
LONGITUDINAL MOVEMENT OF TABLE						
Max. travel (hydraulic)	51.18" (1300 mm)	63" (1600 mm)	82.7" (2100 mm)	64" (1626 mm)	84" (2134 mm)	124" (3150 mm)
Max. travel (manual)	53" (1346 mm)	64.9" (1648 mm)	84.6" (2149 mm)	66" (1676 mm)	86" (2184 mm)	126" (3200 mm)
Table speed infinitely variable	0.196"–0.984"/min. (5–25mm/min)	0.196"–0.984"/min. (5–25mm/min)	0.196"–0.1181"/min. (5–3mm/min)	0.196"–0.984"/min. (5–25mm/min)	0.196"–0.984"/min. (5–25mm/min)	0.196"–0.984"/min. (5–25mm/min)
COLUMN CROSSFEED TRANSVERSE TRAVEL						
Auto transverse increment (JOG)	0.04"–1" (1–25 mm)	0.04"–1" (1–25 mm)	0.04"–1" (1–25 mm)	0.04"–1" (1–25 mm)	0.04"–1" (1–25 mm)	0.04"–1" (1–25 mm)
Auto constant feeding speed	1.25"–11"/min. (32–280 mm/min)	1.25"–11"/min. (32–280 mm/min)	1.25"–11"/min. (32–280 mm/min)	0.78"–18"/min. (20–457 mm/min)	0.78"–18"/min. (20–457 mm/min)	0.78"–18"/min. (20–457 mm/min)
Max. auto transverse travel	26" (660 mm)	26" (660 mm)	26" (660 mm)	34.84" (885 mm)	34.84" (885 mm)	34.84" (885 mm)
Max. manual transverse travel	27" (686 mm)	27" (686 mm)	27" (686 mm)	35" (889 mm)	35" (889 mm)	35" (889 mm)
Handwheel per revolution	0.2" (6 mm)	0.2" (6 mm)	0.2" (6 mm)	0.0005" (0.012 mm)	0.0005" (0.012 mm)	0.0005" (0.012 mm)
Handwheel per graduation	0.001" (.025 mm)	0.001" (.025 mm)	0.001" (.025 mm)	0.00005" (0.001 mm)	0.0005" (0.012 mm)	0.0005" (0.012 mm)
WHEELHEAD VERTICAL INFEEED						
Automatic infeed						
Step feed (JOG)						
Manual pulse generator (per graduation)	0.00005" (0.001 mm)	0.00005" (0.001 mm)	0.00005" (0.001 mm)	0.00005" (0.001 mm)	0.00005" (0.001 mm)	0.00005" (0.001 mm)
Rapid travel, approx.	6" (152 mm)/min.	18" (457 mm)/min.	6" (152 mm)/min.	18" (457 mm)/min.	18" (457 mm)/min.	18" (457 mm)/min.
Slow travel, approx.	0.25" (6 mm)/min.	0.25" (6 mm)/min.	0.25" (6 mm)/min.	0.24" (6 mm)/min.	0.24" (6 mm)/min.	0.24" (6 mm)/min.
Handwheel per revolution	1/10000" (.002 mm)	1/10000" (.002 mm)	1/10000" (.002 mm)	0.0005" (0.012 mm)	0.0005" (0.012 mm)	0.0005" (0.012 mm)
Handwheel per graduation				0.00005" (0.001 mm)	0.00005" (0.001 mm)	0.00005" (0.001 mm)
GRINDING SPINDLE DRIVE						
Speed (rpm)	1750	1750	1750	1750	1750	1750
Power rating	10 HP (7.5kw)	10 HP (7.5kw)	10 HP (7.5kw)	15 HP (11kw)	15 HP (11kw)	15 HP (11kw)
STANDARD GRINDING WHEEL						
Diameter	16" (406 mm)	16" (406 mm)	16" (406 mm)	16" (406 mm)	16" (405 mm)	16" (405 mm)
Width	2" (50 mm)	2" (50 mm)	2" (50 mm)	2.55" (65 mm)	2.55" (65 mm)	2.55" (65 mm)
Bore	5" (127 mm)	5" (127 mm)	5" (127 mm)	5" (127 mm)	5" (127 mm)	5" (127 mm)
MOTORS						
Hydraulic motor (power rating)	5 HP/6P	5 HP/6P	5 HP/6P	5 HP/6P	5 HP/6P	7.5 HP/6P
Crossfeed motor (power rating)	DC750W	DC750W	DC750W	2.6 HP (2kw)	2.6 HP (2kw)	2.6 HP (2kw)
Elevating motor (power rating)	DC750W	DC750W	DC750W	1.3 HP (1kw)	1.3 HP (1kw)	1.3 HP (1kw)
WEIGHT						
Net Weight	14,330 (6,486kg)	16,500 (7,480kg)	18,700 (8,482kg)	18,700 (8,482kg)	23,870 (10,827kg)	29,700 (13,472kg)
Gross Weight	16,500 (7,484kg)	18,700 (8,482kg)	20,944 (9,500kg)	22,682 (10,288kg)	27,434 (12,444kg)	33,660 (15,241kg)
ADDITIONAL SPECS						
Total rated power requirements (approx.)	22.7 HP	22.7 HP	22.7 HP	30.2 HP	30.2 HP	30.2 HP
Total floor space required (LxWxH)	200"x118"x 93" (5080x2997x2362 mm)	211"x118"x 93" (5360x2997x2362 mm)	250"x118"x 93" (6350x2997x2362 mm)	228.7"x198.8"x 110.3" (5809x5050x2802 mm)	268.1"x198.8"x 110.3" (6810x5050x2802 mm)	345.8"x198.8"x 110.3" (8809x5050x2802 mm)

All specifications subject to change without notice or obligation.

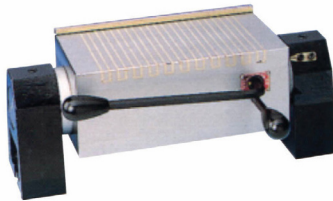
PERMANENT MAGNETIC CHUCK



ELECTRO MAGNETIC CHUCK



INCLINABLE PERMANENT MAGNETIC CHUCK



CHUCK CONTROL

with Demagnetizer
(unit sizes changes with model)



COOLANT SYSTEM



COOLANT SYSTEM

with Magnetic Separator



DUST COLLECTOR



COOLANT AND DUST UNIT

Note: Both systems can not operate at the same time.



COOLANT SYSTEM

with Manual Paper Feeding



AUTO PAPER FEEDING DEVICE

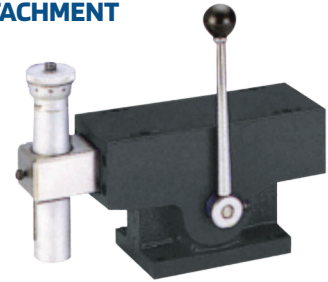
with Magnetic Separator



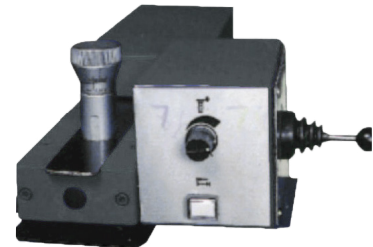
FULL GUARDING SPLASH GUARD



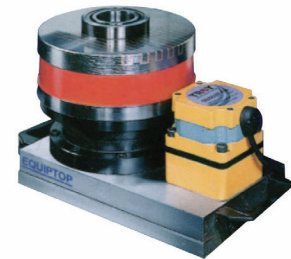
MANUAL PARALLEL DRESSING ATTACHMENT



ELECTRIC PARALLEL DRESSING ATTACHMENT



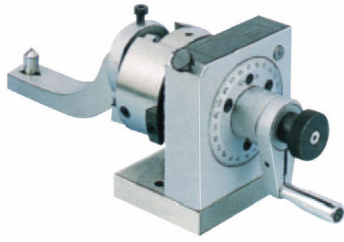
ADJUSTABLE SPEED ROTARY MAGNETIC CHUCK



DYNAMIC BALANCER



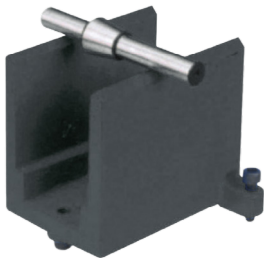
PUNCH FORMER



SPARE WHEEL FLANGE



EXTRA BALANCING STAND



ROLLER TYPE BALANCING STAND



MICRO CROSSFEED

for 616/818 Series



MICRO CROSSFEED

for 10/12/16 Series



MICRO DOWN FEED

for 10/12/16 Series (STD on 2A
Ø- 3A1020-2040 models)

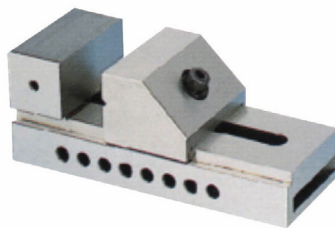


MOBILE MANUAL PULSE GENERATOR

(stationary in console on ASDIII models)



PRECISION VICE 3" OR 4"



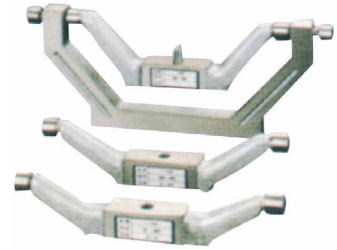
FREQUENCY CHANGER



SWIVEL WHEEL GUARD



CONCAVE/CONVEX FORMING DRESSER



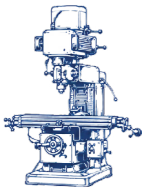
CLAUSING GRINDER STANDARD ACCESSORIES

- Diamond Dresser
- Table Mounting
- Auto Lubrication System
- Wheel Flange
- Grinding Wheel
- Electronic chuck control on all models
(optional on all 618 and 818 H,2A and 3A
models)
- Worklight
- Leveling Screws with Blocks
- Touch-up Paint
- Tool Box and Tools

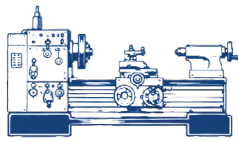
Clausing

— Committed to Excellence Since 1911 —

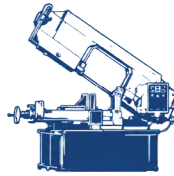
Delivering precision machine tools, dependable support, and trusted solutions for manufacturers for over a century.



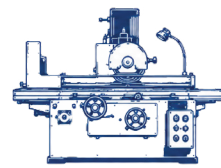
Mills



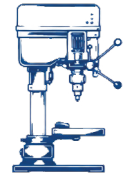
Lathes



Saws



Grinders



Drills

Need More Information?

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