NovoTech MACHINE TOOLS Inc.

PRODUCT CATALOGUE 2026

NOVOTECH VALUE LINE · BUILT IN CHINA TO NORTH AMERICAN STANDARDS · SOLD & SERVICED IN CANADA BY NOVOTECH

RADIAL DRILLS, GRINDERS AND SHAPERS

BOX-COLUMN DRILL PRESSES · RADIAL DRILLS · MANUAL, HYDRAULIC, NC AND COLUMN SURFACE GRINDERS · CYLINDRICAL AND UNIVERSAL GRINDERS · SLOTTING MACHINES · METAL SHAPERS







China
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11
MACHINE FAMILIES

1-year
WARRANTY

Canada
PARTS & TECHNICAL SUPPORT

VALUE-LINE MACHINE TOOLS

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ABOUT NOVOTECH

YOUR CANADIAN SOURCE FOR VALUE-LINE RADIAL DRILLS, GRINDERS AND SHAPERS

Sales, installation, parts and technical support across Canada.

NovoTech Machine Tools Inc. supplies metalworking and fabrication machinery to job shops, fabricators, maintenance departments and manufacturers across Canada from our base in Mississauga, Ontario, Canada. Every machine in this catalogue is sold and supported locally by NovoTech — with spare parts and technical support readily available in Canada.

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NOVOTECH VALUE LINE

MACHINE TOOLS FOR THE MACHINE SHOP AND THE REPAIR SHOP

NovoTech's value line is our own brand: machines built in China to our specification by a maker that exports metalworking machinery to more than 70 countries, inspected before they ship and sold under NovoTech's name with a CSA-approved panel on every 3-phase machine, a 1-year warranty and parts and technical support from Mississauga, Ontario, Canada.

Box-column drill presses for 1-1/4 to 2″ holes and radial drills that reach 124″ from the column for 4″ holes in large parts; surface grinders from the 7 × 18″ manual 618A to M71 column grinders 31.5″ wide and 10 ft long; cylindrical grinders to Ø31.5″ and 16 ft and universal grinders that grind bores as well; slotting machines for keyways and splines with 7.9 to 24.8″ strokes and metal shapers to 39.4″.

Z5132B · Z5150B · Z5150B-1 · 3 MODELS

Z5132B · Z5150B · Z5150B-1 BOX-COLUMN DRILL PRESSES, 1-1/4 – 2”



MODEL BOX-COLUMN · Z5150B BOX-COLUMN DRILL PRESS



Z5150B-1 box-column drill press with cross table

1-1/4 – 2” in steel

Square-column drill presses for production drilling, reaming and tapping: a geared head with 9 or 12 speeds and a 9-step power feed, a 7.9” manual head travel on the column, and a table on a heavy box column. The Z5132B drills 1-1/4” (32 mm) on a 21.7 × 15.7” table; the Z5150B drills 2” (50 mm) with an MT5 spindle and 9.8” of spindle travel; the Z5150B-1 adds a 47 × 11” cross table with 14.2 × 27.6” of travel for drilling patterns without moving the work.

STANDARD FEATURES

- Drilling 1-1/4” (32 mm) or 2” (50 mm) in steel; MT4 / MT5
- 9 or 12 speeds, 31.5 – 2,000 rpm; 9-step power feed
- Spindle travel 7.9 – 9.8” (200 – 250 mm); head travel 7.9” (200 mm)
- Z5150B-1: 47.2 × 11” (1,200 × 280 mm) cross table, 14.2 × 27.6” (360 × 700 mm) of travel
- 3 – 4 HP (2.2 – 3 kW)

TECHNICAL SPECIFICATIONS

Z5132B · Z5150B · Z5150B-1 BOX-COLUMN DRILL PRESSES, 1-1/4 – 2″

Z5132B · Z5150B · Z5150B-1

Box-column drill presses, 1-1/4 – 2″, geared head with power feed

Model	Z5132B	Z5150B	Z5150B-1
Drilling capacity	1-1/4″ (32 mm)	1-15/16″ (50 mm)	1-15/16″ (50 mm)
Table size	15.7 × 21.7″ (400 × 550 mm)	22 × 18.9″ (560 × 480 mm)	47.2 × 11″ (1,200 × 280 mm)
Table travel	12.2″ (310 mm) vertical	11.8″ (300 mm) vertical	14.2 × 27.6 × 11.8″ (360 × 700 × 300 mm) X × Y × Z
Spindle nose to table	28″ (710 mm)	26.8″ (680 mm)	18.9″ (480 mm)
Spindle to column	11″ (280 mm)	13.2″ (335 mm)	13.2″ (335 mm)
Table T-slots	3 × 0.709″ (18 mm), 5.91″ (150 mm) apart	3 × 0.709″ (18 mm), 5.91″ (150 mm) apart	3 × 0.551″ (14 mm), 3.66″ (93 mm) apart
Spindle travel	7.87″ (200 mm)	9.84″ (250 mm)	9.84″ (250 mm)
Head travel (manual)	7.87″ (200 mm)	7.87″ (200 mm)	7.87″ (200 mm)
Spindle taper	MT4	MT5	MT5
Spindle speeds	50 – 2,000 rpm, 9 steps	31.5 – 1,400 rpm, 12 steps	31.5 – 1,400 rpm, 12 steps
Spindle feeds	9 steps, 0.0022 – 0.0709 in/rev (0.056 – 1.8 mm/rev)	9 steps, 0.0022 – 0.0709 in/rev (0.056 – 1.8 mm/rev)	9 steps, 0.0022 – 0.0709 in/rev (0.056 – 1.8 mm/rev)
Main motor	3 HP (2.2 kW)	4 HP (3 kW)	4 HP (3 kW)
Packing size L × W × H	50 × 30 × 83″ (127 × 76 × 210 cm)	41 × 28 × 100″ (105 × 71 × 254 cm)	45 × 56 × 100″ (114 × 141 × 254 cm)
Weight	2,094 lb (950 kg)	2,756 lb (1,250 kg)	3,042 lb (1,380 kg)

Metric values in brackets are the manufacturer's figures. Packing size is the shipping crate L × W × H; weight is the net weight of the machine unless the row says shipping weight. Where a model comes in several bed lengths, the lengths, crates and weights are listed in the same order. Specifications may change without notice; confirm the figures that matter for your work with NovoTech before ordering.

Custom voltage available: 208 V, 240 V, 480 V or 600 V 3-phase.

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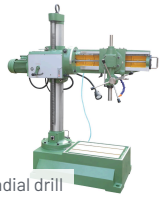
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Z3032×7 – ZQ3050×16 · 5 MODELS

Z3032×7 · Z3132×8 · ZQ3032 – ZQ3050 RADIAL DRILLS, 1 – 2″



MODEL LIGHT · ZQ3040×13 RADIAL DRILL



Z3032×7 compact radial drill



ZQ3040×13 — headstock: speed chart, push buttons and handwheel

1 – 2″ · reach to 63″

Radial drills for holes across large or heavy parts without moving them: the arm swings around the column and the head runs along the arm. The compact Z3032×7 reaches 27.6″ and drills 1-1/4″ in cast iron; the Z3132×8 runs its spindle and arm lift on one motor, with a head that tilts and turns 360°. The ZQ3032×10, ZQ3040×13 and ZQ3050×16 have a motorized arm, mechanical clamping and gearbox, 6 or 12 speeds, power feed (ZQ3040 and ZQ3050) and reach 39.4 to 63″.

STANDARD FEATURES

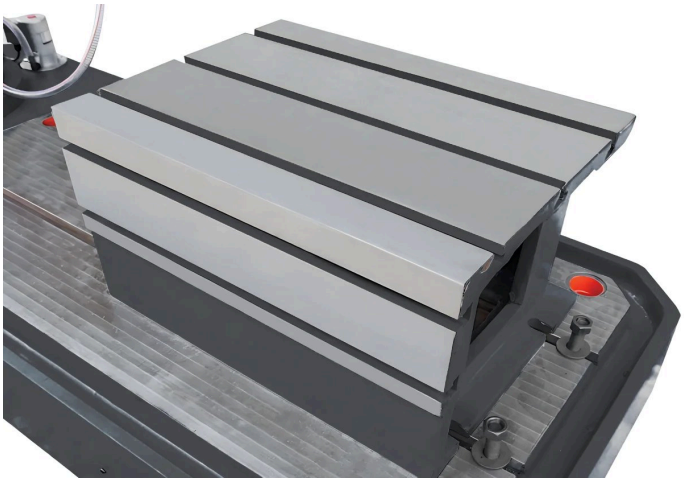
- ✓ Drilling 1 – 2″ (25 – 50 mm) in steel
- ✓ Reach (spindle to column) to 27.6 – 63″ (700 – 1,600 mm)
- ✓ Arm swing ±180° (±360° on the Z3132×8); motorized arm lift
- ✓ Mechanical clamping, gearbox and feed; MT3 – MT5
- ✓ 1 – 5.5 HP (0.75 – 4 kW)

Z3032×7 · Z3132×8 — TECHNICAL SPECIFICATIONS

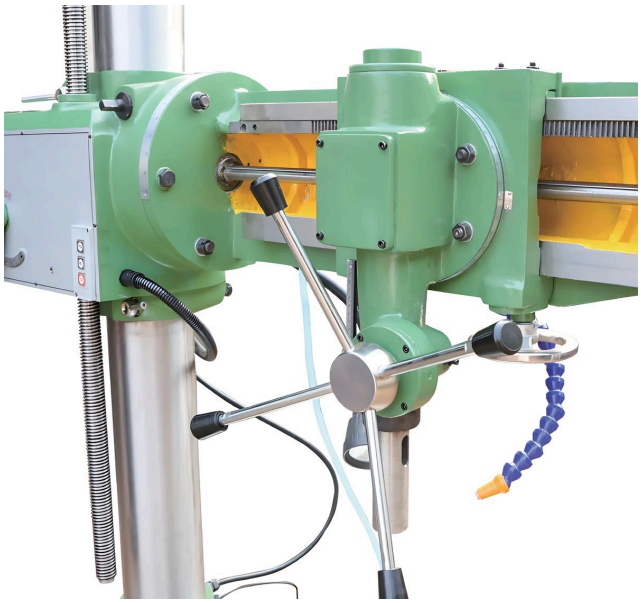
Model	Z3032×7	Z3132×8
Drilling capacity	cast iron: 1-1/4″ (31.5 mm), steel: 1″ (25 mm)	1-1/4″ (32 mm)
Spindle nose to base	10.8 – 26.8″ (275 – 680 mm)	1.97 – 33.5″ (50 – 850 mm)
Spindle to column	13.8 – 27.6″ (350 – 700 mm)	15.4 – 34.3″ (390 – 870 mm)
Spindle travel	5.12″ (130 mm)	4.72″ (120 mm)
Spindle taper	MT3	MT4
Spindle speeds	100 / 150 / 220 / 330 / 485 / 725 / 1,070 / 1,600 rpm, 8 steps	173 – 960 rpm, 4 steps
Spindle feeds	0.0031 / 0.0055 in/rev (0.08 / 0.14 mm/rev)	manual
Arm elevating speed	manual	5 ft/min (1.51 m/min)
Arm swing	±180°	±360°
Table size	9.84 × 9.84″ (250 × 250 mm)	23.6 × 16.9″ (600 × 430 mm)
Main motor	1 HP (750 W)	2 HP (1.5 kW)
Overall size L × W × H	49 × 22 × 47″ (124 × 55 × 120 cm)	69 × 22 × 75″ (176 × 57 × 190 cm)
Weight	838 lb (380 kg)	1,874 lb (850 kg)

DETAILS, COMPONENTS AND OPTIONS

Z3032×7 · Z3132×8 · ZQ3032 – ZQ3050 RADIAL DRILLS, 1 – 2″



ZQ3040×13 — box table on the T-slot base



Z3132×8 — drilling head on the arm, with feed handles and coolant nozzle

TECHNICAL SPECIFICATIONS

Z3032×7 · Z3132×8 · ZQ3032 – ZQ3050 RADIAL DRILLS, 1 – 2″

ZQ3032×10 · ZQ3040×13 · ZQ3050×16

Radial drills, 1-1/4 – 2″, mechanical arm clamping

Model	ZQ3032×10	ZQ3040×13	ZQ3050×16
Drilling capacity	1-1/4″ (32 mm)	1-9/16″ (40 mm)	1-15/16″ (50 mm)
Spindle nose to table	8.66 – 38.6″ (220 – 980 mm)	10.2 – 41.3″ (260 – 1,050 mm)	10.2 – 45.3″ (260 – 1,150 mm)
Spindle to column	10.2 – 39.4″ (260 – 1,000 mm)	14.2 – 51.2″ (360 – 1,300 mm)	14.2 – 63″ (360 – 1,600 mm)
Spindle travel	4.72″ (120 mm)	7.87″ (200 mm)	8.66″ (220 mm)
Spindle taper	MT4	MT4	MT5
Spindle speeds	108 / 162 / 262 / 398 / 665 / 1,000 rpm, 6 steps	75 / 130 / 240 / 380 / 660 / 1,200 rpm, 6 / 12 steps	78 / 135 / 240 / 350 / 590 / 1,100 rpm, 6 steps
Spindle feeds	—	0.0039 – 0.0098 in/rev (0.1 – 0.25 mm/rev), 3 steps	0.0039 – 0.022 in/rev (0.1 – 0.56 mm/rev), 6 steps
Arm elevating speed	4.2 ft/min (1.27 m/min)	4.3 ft/min (1.3 m/min)	4.3 ft/min (1.3 m/min)
Arm swing	±180°	±180°	±180°
Main motor	2 / 3 HP (1.5 / 2.2 kW)	2 / 3 HP (1.5 / 2.2 kW)	5.5 HP (4 kW)
Arm elevating motor	1 HP (0.75 kW)	1 HP (0.75 kW)	2 HP (1.5 kW)
Overall size L × W × H	49 × 24 × 70″ (124 × 60 × 178 cm)	71 × 32 × 91″ (180 × 81 × 230 cm)	98 × 42 × 110″ (250 × 106 × 280 cm)
Weight	1,323 lb (600 kg)	2,866 lb (1,300 kg)	4,850 lb (2,200 kg)

Metric values in brackets are the manufacturer's figures. Packing size is the shipping crate L × W × H; weight is the net weight of the machine unless the row says shipping weight. Where a model comes in several bed lengths, the lengths, crates and weights are listed in the same order. Specifications may change without notice; confirm the figures that matter for your work with NovoTech before ordering.

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Z3032×10 – Z30100×31 · 6 MODELS

Z3032×10 – Z30100×31 HYDRAULIC RADIAL DRILLS, 1-1/4 – 4″



MODEL HYDRAULIC · Z3050×16 HYDRAULIC RADIAL DRILL



Z3063×20 heavy hydraulic radial drill



Z3050×16 — headstock: speed and feed chart, pre-selector and handwheel

1-1/4 – 4″ · reach to 124″

Hydraulic radial drills for the fabrication and machine shop: hydraulic clamping of column, arm and head, hydraulic speed pre-selection and an electrical interlock, 16 or 22 speeds and 8 or 16 power feeds. Six sizes from the Z3032×10 — 1-1/4″ holes, 39.4″ reach — to the Z30100×31, which drills 4″ (100 mm) at up to 124″ from the column with a 20 HP spindle motor.

STANDARD FEATURES

- Drilling 1-1/4 – 4″ (32 – 100 mm) in steel
- Reach 39.4 – 124″ (1,000 – 3,150 mm); spindle travel 10.6 – 19.7″
- Hydraulic clamping and speed pre-selection; 16 or 22 speeds, 8 – 1,000 rpm on the Z30100×31
- Power feed 0.0016 – 0.126 in/rev on the larger models; feed force to 11,240 lbf (50,000 N)
- 4 – 20 HP (3 – 15 kW)

Z3032×10 · Z3040×14 · Z3050×16 — TECHNICAL SPECIFICATIONS

Model	Z3032×10	Z3040×14	Z3050×16
Drilling capacity	1-1/4″ (32 mm)	1-9/16″ (40 mm)	1-15/16″ (50 mm)
Spindle nose to table	6.69 – 44.1″ (170 – 1,120 mm)	10.2 – 47.6″ (260 – 1,210 mm)	12.6 – 48″ (320 – 1,220 mm)
Spindle to column	13.8 – 39.4″ (350 – 1,000 mm)	13.8 – 53.9″ (350 – 1,370 mm)	13.8 – 63″ (350 – 1,600 mm)
Spindle travel	10.6″ (270 mm)	10.6″ (270 mm)	12.4″ (315 mm)
Spindle taper	MT4	MT4	MT5
Spindle speeds	32 – 2,500 rpm, 16 steps	32 – 2,500 rpm, 16 steps	25 – 2,000 rpm, 16 steps
Spindle feeds	0.0039 – 0.0492 in/rev (0.1 – 1.25 mm/rev), 8 steps	0.0039 – 0.0492 in/rev (0.1 – 1.25 mm/rev), 8 steps	0.0016 – 0.126 in/rev (0.04 – 3.2 mm/rev), 16 steps
Arm elevating speed	4 ft/min (0.02 m/s)	4 ft/min (0.02 m/s)	4 ft/min (0.02 m/s)
Arm swing	±180°	±180°	±180°
Max. feed force	2,754 lbf (12,250 N)	2,754 lbf (12,250 N)	3,525 lbf (15,680 N)
Main motor	4 HP (3 kW)	4 HP (3 kW)	5.5 HP (4 kW)
Arm elevating motor	1 HP (0.75 kW)	1 HP (0.75 kW)	2 HP (1.5 kW)
Overall size L × W × H	65 × 28 × 87″ (166 × 72 × 220 cm)	81 × 32 × 98″ (205 × 82 × 248 cm)	98 × 42 × 110″ (250 × 106 × 280 cm)
Weight	3,527 lb (1,600 kg)	4,850 lb (2,200 kg)	7,716 lb (3,500 kg)

DETAILS, COMPONENTS AND OPTIONS

Z3032×10 – Z30100×31 HYDRAULIC RADIAL DRILLS, 1-1/4 – 4”



Z3050×16 — spindle with the feed dials

TECHNICAL SPECIFICATIONS

Z3032×10 – Z30100×31 HYDRAULIC RADIAL DRILLS, 1-1/4 – 4″

Z3063×20 · Z3080×25 · Z30100×31

Heavy hydraulic radial drills, 2-1/2 – 4″

Model	Z3063×20	Z3080×25	Z30100×31
Drilling capacity	2-1/2″ (63 mm)	3-1/8″ (80 mm)	3-7/8″ (100 mm)
Spindle nose to table	11.8 – 63″ (300 – 1,600 mm)	21.7 – 78.7″ (550 – 2,000 mm)	29.5 – 98.4″ (750 – 2,500 mm)
Spindle to column	16.9 – 78.7″ (430 – 2,000 mm)	19.7 – 98.4″ (500 – 2,500 mm)	22.4 – 124″ (570 – 3,150 mm)
Spindle travel	15.7″ (400 mm)	17.7″ (450 mm)	19.7″ (500 mm)
Spindle taper	MT5	MT6	MT6
Spindle speeds	20 – 1,600 rpm, 16 steps	16 – 1,250 rpm, 16 steps	8 – 1,000 rpm, 22 steps
Spindle feeds	0.0016 – 0.126 in/rev (0.04 – 3.2 mm/rev), 16 steps	0.0016 – 0.126 in/rev (0.04 – 3.2 mm/rev), 16 steps	0.0024 – 0.126 in/rev (0.06 – 3.2 mm/rev), 16 steps
Arm elevating speed	3 ft/min (0.017 m/s)	3 ft/min (0.017 m/s)	2 ft/min (0.01 m/s)
Arm swing	±180°	±180°	±180°
Max. feed force	5,508 lbf (24,500 N)	7,868 lbf (35,000 N)	11,240 lbf (50,000 N)
Main motor	7.5 HP (5.5 kW)	10 HP (7.5 kW)	20 HP (15 kW)
Arm elevating motor	2 HP (1.5 kW)	4 HP (3 kW)	4 HP (3 kW)
Overall size L × W × H	118 × 49 × 130″ (300 × 125 × 330 cm)	147 × 55 × 149″ (373 × 140 × 379 cm)	183 × 64 × 178″ (466 × 163 × 453 cm)
Weight	15,432 lb (7,000 kg)	24,251 lb (11,000 kg)	35,274 lb (16,000 kg)

Metric values in brackets are the manufacturer's figures. Packing size is the shipping crate L × W × H; weight is the net weight of the machine unless the row says shipping weight. Where a model comes in several bed lengths, the lengths, crates and weights are listed in the same order. Specifications may change without notice; confirm the figures that matter for your work with NovoTech before ordering.

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618A · M818A · MG618A · 3 MODELS

618A · M818A · MG618A MANUAL SURFACE GRINDERS, 7 × 18″ TABLE



MODEL 618A · 618A MANUAL SURFACE GRINDER WITH DIGITAL READOUT

7 × 18″ table · manual

Manual surface grinders for the tool room: a 7 × 18″ (M818A: 8 × 19″) table on a cross-slide layout, a high-precision slide screw, a cast-iron base, a Ø7.9″ wheel at 3,440 rpm on 60 Hz and a permanent-magnet chuck. The down feed reads to 0.0002″ (0.005 mm); the MG618A grinds to 0.00008″ parallelism per 11.8″ and a Ra 6.3 µin finish.

STANDARD FEATURES

- Table 7.1 × 18.1″ (180 × 460 mm); M818A 7.9 × 18.9″ (200 × 480 mm)
- Grinding wheel Ø7.9 × 1/2 × 1-1/4″ (200 × 13 × 31.75 mm); 1.5 HP (1.1 kW)
- Down feed 0.0002″ (0.005 mm) per division; cross feed 0.0008″ (0.02 mm)
- Parallelism 0.00016″ per 11.8″ (0.004 mm per 300 mm); MG618A 0.00008″ and Ra 6.3 µin

TECHNICAL SPECIFICATIONS

618A · M818A · MG618A MANUAL SURFACE GRINDERS, 7 × 18″ TABLE

618A · M818A · MG618A

Manual surface grinders, 7 × 18″ table; MG618A for a finer finish

Model	618A	M818A	MG618A
Table	18.1 × 7.09″ (460 × 180 mm)	18.9 × 7.87″ (480 × 200 mm)	18.1 × 7.09″ (460 × 180 mm)
Table travel, longitudinal / cross	19.7 / 7.48″ (500 / 190 mm)	20.9 / 8.66″ (530 / 220 mm)	19.7 / 7.48″ (500 / 190 mm)
T-slots	1 × 0.551″ (14 mm)	1 × 0.551″ (14 mm)	1 × 0.551″ (14 mm)
Spindle centre to table	13.2″ (335 mm)	17.3″ (440 mm)	17.3″ (440 mm)
Grinding wheel	Ø7.87 × 0.512 × Ø1.25″ (Ø200 × 13 × Ø31.75 mm)	Ø7.87 × 0.512 × Ø1.25″ (Ø200 × 13 × Ø31.75 mm)	Ø7.87 × 0.512 × Ø1.25″ (Ø200 × 13 × Ø31.75 mm)
Spindle speed	3,440 rpm on 60 Hz (2,850 rpm on 50 Hz)	3,440 rpm on 60 Hz (2,850 rpm on 50 Hz)	3,440 rpm on 60 Hz (2,850 rpm on 50 Hz)
Down feed handwheel, per turn	0.0492″ (1.25 mm) per turn, 0.0002″ (0.005 mm) per division	0.0492″ (1.25 mm) per turn, 0.0002″ (0.005 mm) per division	0.0492″ (1.25 mm) per turn, 0.0002″ (0.005 mm) per division
Cross feed handwheel, per turn	0.197″ (5 mm) per turn, 0.00079″ (0.02 mm) per division	0.197″ (5 mm) per turn, 0.00079″ (0.02 mm) per division	0.197″ (5 mm) per turn, 0.00079″ (0.02 mm) per division
Spindle motor	1.5 HP (1.1 kW)	1.5 HP (1.1 kW)	1.5 HP (1.1 kW)
Coolant pump	1/20 HP (40 W)	1/20 HP (40 W)	1/20 HP (40 W)
Parallelism	0.00016″ (0.004 mm) per 11.8″ (300 mm)	0.00016″ (0.004 mm) per 11.8″ (300 mm)	0.00008″ (0.002 mm) per 11.8″ (300 mm)
Surface finish	Ra 12.6 µin (Ra 0.32 µm)	Ra 12.6 µin (Ra 0.32 µm)	Ra 6.3 µin (Ra 0.16 µm)
Permanent-magnet chuck	15.7 × 5.91″ (400 × 150 mm)	15.7 × 7.87″ (400 × 200 mm)	15.7 × 5.91″ (400 × 150 mm)
Packing size L × W × H	39 × 45 × 69″ (100 × 115 × 176 cm)	45 × 49 × 76″ (114 × 125 × 194 cm)	39 × 45 × 69″ (100 × 115 × 176 cm)
Weight	1,433 lb (650 kg)	1,653 lb (750 kg)	1,433 lb (650 kg)

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SGA2050AH / AHR / AHD – SGA40100AH / AHR / AHD · 6 MODELS

SGA2050 – SGA40100 HYDRAULIC SURFACE GRINDERS, AH · AHR · AHD, 8 × 18″ TO 16 × 40″



MODEL SGA · SGA HYDRAULIC SURFACE GRINDER WITH TOUCH-PANEL CONTROL

8 × 18″ to 16 × 40″ · hydraulic

Saddle-type hydraulic surface grinders: the table runs on a closed hydraulic system, the cross slide on Teflon-lined ways with manual or automatic intermittent feed, and the spindle on precision angular-contact bearings. Six table sizes from 8 × 18″ to 16 × 40″, each in three versions: AH with manual down feed, AHR with a motorized rapid lift and AHD with a servo motor for rapid lift and automatic down feed.

STANDARD FEATURES

- Tables 7.9 × 18.1″ to 16 × 40.2″ (200 × 460 to 406 × 1,020 mm); spindle centre to table 17.7 – 22.8″
- Hydraulic table 23 – 75 ft/min; automatic cross feed with rapid traverse
- AHR: motorized rapid lift; AHD: servo down feed 0.0002 – 0.002″ (0.005 – 0.05 mm) per stroke
- Wheel Ø7.9″ (200 mm) or Ø13.8″ (350 mm); 2 – 7.5 HP spindle
- Table load to 1,323 lb (600 kg) with the chuck

TECHNICAL SPECIFICATIONS · 1 / 2

SGA2050 – SGA40100 HYDRAULIC SURFACE GRINDERS, AH · AHR · AHD, 8 × 18″ TO 16 × 40″

SGA2050 – SGA40100, AH · AHR · AHD

Hydraulic surface grinders, 8 × 18″ to 16 × 40″ table

Model	SGA2050AH / AHR / AHD	SGA2550AH / AHR / AHD	SGA3063AH / AHR / AHD	SGA30100AH / AHR / AHD	SGA4080AH / AHR / AHD	SGA40100AH / AHR / AHD
Table	18.1 × 7.87″ (460 × 200 mm)	20 × 10″ (508 × 254 mm)	24.8 × 11.8″ (630 × 300 mm)	40.2 × 12″ (1,020 × 305 mm)	32 × 16″ (813 × 406 mm)	40.2 × 16″ (1,020 × 406 mm)
Table travel, longitudinal / cross	20.1 / 9.37″ (510 / 238 mm)	22 / 10.8″ (560 / 275 mm)	28 / 13.4″ (710 / 340 mm)	44.5 / 13.4″ (1,130 / 340 mm)	35.8 / 17.7″ (910 / 450 mm)	44.5 / 17.7″ (1,130 / 450 mm)
Spindle centre to table	17.7″ (450 mm)	17.7″ (450 mm)	22.8″ (580 mm)	22.8″ (580 mm)	22.8″ (580 mm)	22.8″ (580 mm)
Magnetic chuck	7.87 × 18.1″ (200 × 460 mm)	9.84 × 19.7″ (250 × 500 mm)	11.8 × 23.6″ (300 × 600 mm)	11.8 × 39.4″ (300 × 1,000 mm)	15.7 × 31.5″ (400 × 800 mm)	15.7 × 39.4″ (400 × 1,000 mm)
Table speed	23 – 75 ft/min (7 – 23 m/min)	23 – 75 ft/min (7 – 23 m/min)	23 – 75 ft/min (7 – 23 m/min)	23 – 75 ft/min (7 – 23 m/min)	23 – 75 ft/min (7 – 23 m/min)	23 – 75 ft/min (7 – 23 m/min)
Cross feed, automatic	0.004 – 0.31 ipm (0.1 – 8 mm/min)	0.004 – 0.31 ipm (0.1 – 8 mm/min)	0.004 – 0.31 ipm (0.1 – 8 mm/min)	0.004 – 0.31 ipm (0.1 – 8 mm/min)	0.004 – 0.31 ipm (0.1 – 8 mm/min)	0.004 – 0.31 ipm (0.1 – 8 mm/min)
Cross rapid traverse	39 ipm (990 mm/min)	39 ipm (990 mm/min)	39 ipm (990 mm/min)	39 ipm (990 mm/min)	39 ipm (990 mm/min)	39 ipm (990 mm/min)
Cross feed handwheel	0.00079″ (0.02 mm) per division	0.00079″ (0.02 mm) per division	0.00079″ (0.02 mm) per division	0.00079″ (0.02 mm) per division	0.00079″ (0.02 mm) per division	0.00079″ (0.02 mm) per division
Down feed, automatic	AHD: 0.0002 / 0.00039 / 0.00079 / 0.00118 / 0.00157 / 0.00197″ (0.005 / 0.01 / 0.02 / 0.03 / 0.04 / 0.05 mm) per stroke	AHD: 0.0002 / 0.00039 / 0.00079 / 0.00118 / 0.00157 / 0.00197″ (0.005 / 0.01 / 0.02 / 0.03 / 0.04 / 0.05 mm) per stroke	AHD: 0.0002 / 0.00039 / 0.00079 / 0.00118 / 0.00157 / 0.00197″ (0.005 / 0.01 / 0.02 / 0.03 / 0.04 / 0.05 mm) per stroke	AHD: 0.0002 / 0.00039 / 0.00079 / 0.00118 / 0.00157 / 0.00197″ (0.005 / 0.01 / 0.02 / 0.03 / 0.04 / 0.05 mm) per stroke	AHD: 0.0002 / 0.00039 / 0.00079 / 0.00118 / 0.00157 / 0.00197″ (0.005 / 0.01 / 0.02 / 0.03 / 0.04 / 0.05 mm) per stroke	AHD: 0.0002 / 0.00039 / 0.00079 / 0.00118 / 0.00157 / 0.00197″ (0.005 / 0.01 / 0.02 / 0.03 / 0.04 / 0.05 mm) per stroke
Vertical rapid traverse	AHR and AHD: 18 ipm (460 mm/min)	AHR and AHD: 18 ipm (460 mm/min)	AHR and AHD: 18 ipm (460 mm/min)	AHR and AHD: 18 ipm (460 mm/min)	AHR and AHD: 18 ipm (460 mm/min)	AHR and AHD: 18 ipm (460 mm/min)
Down feed handwheel	0.0002″ (0.005 mm) per division	0.0002″ (0.005 mm) per division	0.0002″ (0.005 mm) per division	0.0002″ (0.005 mm) per division	0.0002″ (0.005 mm) per division	0.0002″ (0.005 mm) per division
Grinding wheel	Ø7.87 × 0.787 × Ø1.25″ (Ø200 × 20 × Ø31.75 mm)	Ø7.87 × 0.787 × Ø1.25″ (Ø200 × 20 × Ø31.75 mm)	Ø13.8 × 1.57 × Ø5″ (Ø350 × 40 × Ø127 mm)	Ø13.8 × 1.57 × Ø5″ (Ø350 × 40 × Ø127 mm)	Ø13.8 × 1.57 × Ø5″ (Ø350 × 40 × Ø127 mm)	Ø13.8 × 1.57 × Ø5″ (Ø350 × 40 × Ø127 mm)
Spindle speed	3,450 rpm on 60 Hz (2,850 rpm on 50 Hz)	3,450 rpm on 60 Hz (2,850 rpm on 50 Hz)	1,750 rpm on 60 Hz (1,450 rpm on 50 Hz)	1,750 rpm on 60 Hz (1,450 rpm on 50 Hz)	1,750 rpm on 60 Hz (1,450 rpm on 50 Hz)	1,750 rpm on 60 Hz (1,450 rpm on 50 Hz)
Spindle motor	2 HP (1.5 kW)	3 HP (2.2 kW)	7.5 HP (5.5 kW)	7.5 HP (5.5 kW)	7.5 HP (5.5 kW)	7.5 HP (5.5 kW)

TECHNICAL SPECIFICATIONS · 2 / 2

SGA2050 – SGA40100 HYDRAULIC SURFACE GRINDERS, AH · AHR · AHD, 8 × 18″ TO 16 × 40″

SGA2050 – SGA40100, AH · AHR · AHD (CONTINUED)

Hydraulic surface grinders, 8 × 18″ to 16 × 40″ table

Model	SGA2050AH / AHR / AHD	SGA2550AH / AHR / AHD	SGA3063AH / AHR / AHD	SGA30100AH / AHR / AHD	SGA4080AH / AHR / AHD	SGA40100AH / AHR / AHD
Hydraulic pump motor	1 HP (0.75 kW)	1 HP (0.75 kW)	3 HP (2.2 kW)	3 HP (2.2 kW)	3 HP (2.2 kW)	3 HP (2.2 kW)
Coolant pump	1/20 HP (0.04 kW)	1/20 HP (0.04 kW)	1/6 HP (0.125 kW)	1/6 HP (0.125 kW)	1/6 HP (0.125 kW)	1/6 HP (0.125 kW)
Elevating motor	AH: manual · AHR: 1/3 HP (0.25 kW) · AHD: 0.7 HP (0.5 kW) servo	AH: manual · AHR: 1/3 HP (0.25 kW) · AHD: 0.7 HP (0.5 kW) servo	AH: manual · AHR: 1/3 HP (0.25 kW) · AHD: 0.7 HP (0.5 kW) servo	AH: manual · AHR: 1/3 HP (0.25 kW) · AHD: 0.7 HP (0.5 kW) servo	AH: manual · AHR: 1/3 HP (0.25 kW) · AHD: 0.7 HP (0.5 kW) servo	AH: manual · AHR: 1/3 HP (0.25 kW) · AHD: 0.7 HP (0.5 kW) servo
Cross feed motor	1/20 HP (0.04 kW)	1/20 HP (0.04 kW)	1/20 HP (0.04 kW)	1/20 HP (0.04 kW)	1/20 HP (0.04 kW)	1/20 HP (0.04 kW)
Total power	4 HP (3 kW)	5 HP (3.7 kW)	12.1 HP (9 kW)	12.1 HP (9 kW)	12.1 HP (9 kW)	12.1 HP (9 kW)
Table load, max., with chuck	265 lb (120 kg)	397 lb (180 kg)	595 lb (270 kg)	882 lb (400 kg)	1,102 lb (500 kg)	1,323 lb (600 kg)
Packing size L × W × H	75 × 68 × 86″ (190 × 172 × 218 cm)	79 × 83 × 86″ (200 × 210 × 218 cm)	93 × 87 × 85″ (235 × 222 × 215 cm)	113 × 87 × 87″ (286 × 220 × 222 cm)	94 × 89 × 89″ (240 × 225 × 225 cm)	116 × 89 × 87″ (295 × 227 × 221 cm)
Weight shipping weight	3,527 lb (1,600 kg)	3,968 lb (1,800 kg)	5,732 lb (2,600 kg)	7,055 lb (3,200 kg)	7,937 lb (3,600 kg)	9,039 lb (4,100 kg)

Metric values in brackets are the manufacturer's figures. Packing size is the shipping crate L × W × H; weight is the net weight of the machine unless the row says shipping weight. Where a model comes in several bed lengths, the lengths, crates and weights are listed in the same order. Specifications may change without notice; confirm the figures that matter for your work with NovoTech before ordering.

Custom voltage available: 208 V, 240 V, 480 V or 600 V 3-phase.

INCLUDED WITH EVERY NOVOTECH MACHINE

- ✓ Built in China to North American standards
- ✓ CSA-approved electrical panel
- ✓ 1-year warranty
- ✓ 7-day money-back guarantee
  in-stock machines only
- ✓ Spare parts & technical support
  readily available in Canada
- ✓ Order today with just 10% down
  0% down financing available
- ✓ Installation and training available

SG2050NC2 / NC3 – SG40100NC2 / NC3 · 6 MODELS

SG2050NC – SG40100NC NC SURFACE GRINDERS, NC2 · NC3, 8 × 18″ TO 16 × 40″



MODEL SG · SG NC SURFACE GRINDER WITH CNC CONTROL

8 × 18″ to 16 × 40″ · NC

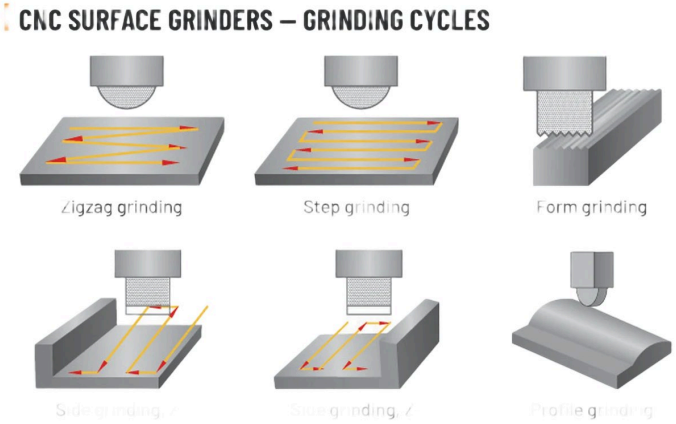
NC surface grinders with ball screws and AC servo motors under CNC control: the NC2 drives the vertical and cross axes and grinds flat surfaces, formed surfaces with the wheel dressed by two-axis interpolation, and stepped or unequally spaced wide grooves automatically; the NC3 drives the table axis too, for convex, concave and arc surfaces. Automatic wheel dressing; six table sizes from 8 × 18″ to 16 × 40″.

STANDARD FEATURES

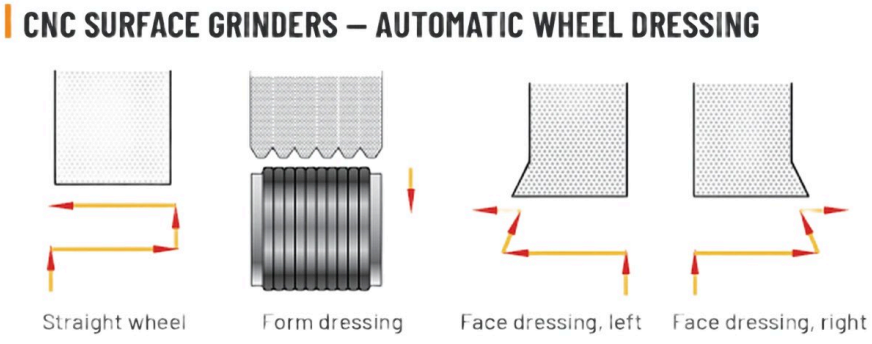
- Tables 7.9 × 18.1″ to 16 × 40.2″ (200 × 460 to 406 × 1,020 mm)
- NC2: CNC vertical and cross axes, hydraulic table 16 – 82 ft/min; NC3: three servo axes, table 0.07 – 49 ft/min
- Down feed 0.00004 – 0.002″ (0.001 – 0.05 mm) per stroke; handwheel 0.00004″ (0.001 mm) per division
- Formed-surface grinding and automatic wheel dressing
- Parallelism 0.0002″ per 11.8″; Ra ≤ 24.8 µin

DETAILS, COMPONENTS AND OPTIONS

SG2050NC – SG40100NC NC SURFACE GRINDERS, NC2 · NC3, 8 × 18" TO 16 × 40"



Grinding cycles of the CNC surface grinders: zigzag, step, form, side (Z+ and Z–) and profile grinding



Automatic wheel dressing on the CNC surface grinders: straight dressing, form dressing and dressing of both wheel faces

TECHNICAL SPECIFICATIONS · 1 / 2

SG2050NC – SG40100NC NC SURFACE GRINDERS, NC2 · NC3, 8 × 18″ TO 16 × 40″

SG2050NC – SG40100NC, NC2 · NC3

NC surface grinders, 8 × 18″ to 16 × 40″ table

Model	SG2050NC2 / NC3	SG2550NC2 / NC3	SG3063NC2 / NC3	SG30100NC2 / NC3	SG4080NC2 / NC3	SG40100NC2 / NC3
Table	18.1 × 7.87″ (460 × 200 mm)	20 × 10″ (508 × 254 mm)	25 × 12″ (635 × 305 mm)	40.2 × 12″ (1,020 × 305 mm)	32 × 16″ (813 × 406 mm)	40.2 × 16″ (1,020 × 406 mm)
Table travel, longitudinal / cross	20.1 / 9.37″ (510 / 238 mm)	22.4 / 10.8″ (570 / 275 mm)	30.1 / 13.4″ (765 / 340 mm)	44.5 / 13.4″ (1,130 / 340 mm)	35.8 / 17.7″ (910 / 450 mm)	44.5 / 17.7″ (1,130 / 450 mm)
Spindle centre to table	17.7″ (450 mm)	17.7″ (450 mm)	22.8″ (580 mm)	22.8″ (580 mm)	22.8″ (580 mm)	22.8″ (580 mm)
Magnetic chuck	7.87 × 18.1″ (200 × 460 mm)	9.84 × 19.7″ (250 × 500 mm)	11.8 × 23.6″ (300 × 600 mm)	11.8 × 39.4″ (300 × 1,000 mm)	15.7 × 31.5″ (400 × 800 mm)	15.7 × 39.4″ (400 × 1,000 mm)
Table speed	NC2: 16 – 82 ft/min (5 – 25 m/min) · NC3: 0.1 – 49 ft/min (0.02 – 15 m/min)	NC2: 16 – 82 ft/min (5 – 25 m/min) · NC3: 0.1 – 49 ft/min (0.02 – 15 m/min)	NC2: 16 – 82 ft/min (5 – 25 m/min) · NC3: 0.1 – 49 ft/min (0.02 – 15 m/min)	NC2: 16 – 82 ft/min (5 – 25 m/min) · NC3: 0.1 – 49 ft/min (0.02 – 15 m/min)	NC2: 16 – 82 ft/min (5 – 25 m/min) · NC3: 0.1 – 49 ft/min (0.02 – 15 m/min)	NC2: 16 – 82 ft/min (5 – 25 m/min) · NC3: 0.1 – 49 ft/min (0.02 – 15 m/min)
Table handwheel	NC3: 0.0002″ (0.005 mm) per division	NC3: 0.0002″ (0.005 mm) per division	NC3: 0.0002″ (0.005 mm) per division	NC3: 0.0002″ (0.005 mm) per division	NC3: 0.0002″ (0.005 mm) per division	NC3: 0.0002″ (0.005 mm) per division
Cross feed, automatic	0.0002 – 0.472″ (0.005 – 12 mm) per stroke	0.0002 – 0.472″ (0.005 – 12 mm) per stroke	0.0002 – 0.472″ (0.005 – 12 mm) per stroke	0.0002 – 0.472″ (0.005 – 12 mm) per stroke	0.0002 – 0.472″ (0.005 – 12 mm) per stroke	0.0002 – 0.472″ (0.005 – 12 mm) per stroke
Cross rapid traverse	0 – 39 ipm (0 – 1 m/min)	0 – 39 ipm (0 – 1 m/min)	0 – 39 ipm (0 – 1 m/min)	0 – 39 ipm (0 – 1 m/min)	0 – 39 ipm (0 – 1 m/min)	0 – 39 ipm (0 – 1 m/min)
Cross feed handwheel	0.0002″ (0.005 mm) per division	0.0002″ (0.005 mm) per division	0.0002″ (0.005 mm) per division	0.0002″ (0.005 mm) per division	0.0002″ (0.005 mm) per division	0.0002″ (0.005 mm) per division
Down feed, automatic	0.00004 – 0.00197″ (0.001 – 0.05 mm) per stroke	0.00004 – 0.00197″ (0.001 – 0.05 mm) per stroke	0.00004 – 0.00197″ (0.001 – 0.05 mm) per stroke	0.00004 – 0.00197″ (0.001 – 0.05 mm) per stroke	0.00004 – 0.00197″ (0.001 – 0.05 mm) per stroke	0.00004 – 0.00197″ (0.001 – 0.05 mm) per stroke
Vertical rapid traverse	0 – 39 ipm (0 – 1 m/min)	0 – 39 ipm (0 – 1 m/min)	0 – 39 ipm (0 – 1 m/min)	0 – 39 ipm (0 – 1 m/min)	0 – 39 ipm (0 – 1 m/min)	0 – 39 ipm (0 – 1 m/min)
Down feed handwheel	0.00004″ (0.001 mm) per division	0.00004″ (0.001 mm) per division	0.00004″ (0.001 mm) per division	0.00004″ (0.001 mm) per division	0.00004″ (0.001 mm) per division	0.00004″ (0.001 mm) per division
Grinding wheel	Ø7.87 × 0.787 × Ø1.25″ (Ø200 × 20 × Ø31.75 mm)	Ø7.87 × 0.787 × Ø1.25″ (Ø200 × 20 × Ø31.75 mm)	Ø13.8 × 1.57 × Ø5″ (Ø350 × 40 × Ø127 mm)	Ø13.8 × 1.57 × Ø5″ (Ø350 × 40 × Ø127 mm)	Ø13.8 × 1.57 × Ø5″ (Ø350 × 40 × Ø127 mm)	Ø13.8 × 1.57 × Ø5″ (Ø350 × 40 × Ø127 mm)
Spindle speed	3,450 rpm on 60 Hz (2,850 rpm on 50 Hz)	3,450 rpm on 60 Hz (2,850 rpm on 50 Hz)	1,750 rpm on 60 Hz (1,450 rpm on 50 Hz)	1,750 rpm on 60 Hz (1,450 rpm on 50 Hz)	1,750 rpm on 60 Hz (1,450 rpm on 50 Hz)	1,750 rpm on 60 Hz (1,450 rpm on 50 Hz)

TECHNICAL SPECIFICATIONS · 2 / 2

SG2050NC – SG40100NC NC SURFACE GRINDERS, NC2 · NC3, 8 × 18″ TO 16 × 40″

SG2050NC – SG40100NC, NC2 · NC3 (CONTINUED)

NC surface grinders, 8 × 18″ to 16 × 40″ table

Model	SG2050NC2 / NC3	SG2550NC2 / NC3	SG3063NC2 / NC3	SG30100NC2 / NC3	SG4080NC2 / NC3	SG40100NC2 / NC3
Spindle motor	2 HP (1.5 kW)	3 HP (2.2 kW)	7.5 HP (5.5 kW)	7.5 HP (5.5 kW)	7.5 HP (5.5 kW)	7.5 HP (5.5 kW)
Hydraulic pump motor	1 HP (0.75 kW), NC2	1 HP (0.75 kW), NC2	3 HP (2.2 kW), NC2	3 HP (2.2 kW), NC2	3 HP (2.2 kW), NC2	3 HP (2.2 kW), NC2
Coolant pump	1/20 HP (0.04 kW)	1/20 HP (0.04 kW)	1/6 HP (0.125 kW)	1/6 HP (0.125 kW)	1/6 HP (0.125 kW)	1/6 HP (0.125 kW)
Parallelism	0.0002″ (0.005 mm) per 11.8″ (300 mm)	0.0002″ (0.005 mm) per 11.8″ (300 mm)	0.0002″ (0.005 mm) per 11.8″ (300 mm)	0.0002″ (0.005 mm) per 11.8″ (300 mm)	0.0002″ (0.005 mm) per 11.8″ (300 mm)	0.0002″ (0.005 mm) per 11.8″ (300 mm)
Surface finish	Ra ≤ 24.8 µin (Ra ≤ 0.63 µm)	Ra ≤ 24.8 µin (Ra ≤ 0.63 µm)	Ra ≤ 24.8 µin (Ra ≤ 0.63 µm)	Ra ≤ 24.8 µin (Ra ≤ 0.63 µm)	Ra ≤ 24.8 µin (Ra ≤ 0.63 µm)	Ra ≤ 24.8 µin (Ra ≤ 0.63 µm)
Table load, max., with chuck	265 lb (120 kg)	397 lb (180 kg)	595 lb (270 kg)	882 lb (400 kg)	1,102 lb (500 kg)	1,323 lb (600 kg)
Packing size L × W × H	70 × 59 × 85″ (178 × 150 × 216 cm)	79 × 83 × 85″ (200 × 210 × 215 cm)	93 × 87 × 85″ (235 × 222 × 215 cm)	116 × 87 × 85″ (295 × 222 × 215 cm)	112 × 89 × 86″ (285 × 227 × 218 cm)	116 × 89 × 85″ (295 × 227 × 215 cm)
Weight shipping weight	3,527 lb (1,600 kg)	3,968 lb (1,800 kg)	6,173 lb (2,800 kg)	7,716 lb (3,500 kg)	7,496 lb (3,400 kg)	8,818 lb (4,000 kg)

Metric values in brackets are the manufacturer's figures. Packing size is the shipping crate L × W × H; weight is the net weight of the machine unless the row says shipping weight. Where a model comes in several bed lengths, the lengths, crates and weights are listed in the same order. Specifications may change without notice; confirm the figures that matter for your work with NovoTech before ordering.

Custom voltage available: 208 V, 240 V, 480 V or 600 V 3-phase.

INCLUDED WITH EVERY NOVOTECH MACHINE

- ✓ Built in China to North American standards
- ✓ CSA-approved electrical panel
- ✓ 1-year warranty
- ✓ 7-day money-back guarantee
  in-stock machines only
- ✓ Spare parts & technical support
  readily available in Canada
- ✓ Order today with just 10% down
  0% down financing available
- ✓ Installation and training available

M7130A – M7180 · 6 MODELS

M7130A – M7180 COLUMN-TYPE SURFACE GRINDERS, 12 – 31.5" WIDE TABLE, TO 10 FT LONG



MODEL M71 · M71 COLUMN-TYPE SURFACE GRINDER WITH LONG TABLE

12 – 31.5" wide · to 10 ft

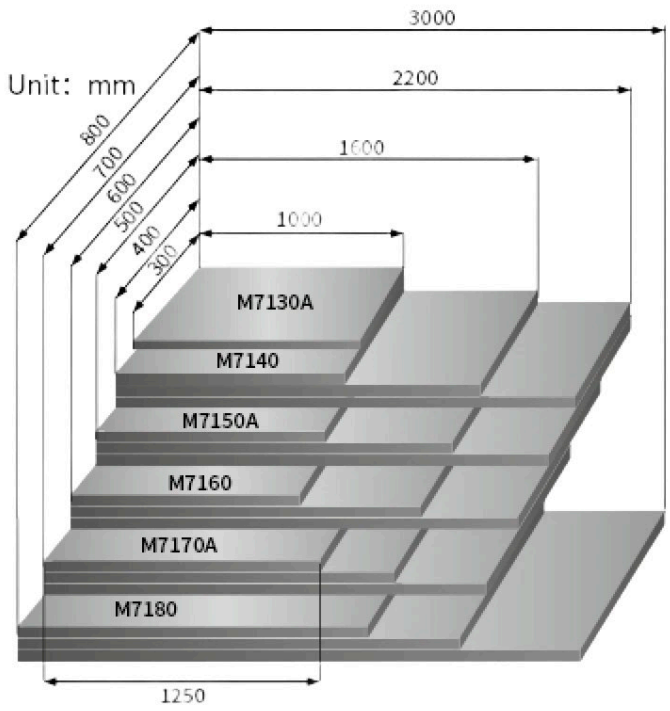
Heavy surface grinders with the wheel head moving on a column (T layout) over a long hydraulic table: tables 12 to 31.5" wide with longitudinal travel from 43 to 122", a Ø15.7 – 17.7" wheel on a 10 – 20 HP spindle, hydraulic or variable-speed intermittent cross feed and a vertical feed through a compensating coupling for accurate lead-screw transmission.

STANDARD FEATURES

- Table width 11.8 – 31.5" (300 – 800 mm); longitudinal travel 43 – 122" (1,100 – 3,100 mm)
- Spindle centre to table 23.6 – 28.5" (600 – 725 mm)
- Wheel Ø15.7 × 1.6" to Ø17.7 × 2.5" (400 × 40 to 450 × 63 mm); 10 – 20 HP spindle
- Hydraulic table 9.8 – 89 ft/min; cross feed 0.12 – 1.18" per stroke or continuous
- Table load to 6,614 lb (3,000 kg) with the chuck

DETAILS, COMPONENTS AND OPTIONS

M7130A – M7180 COLUMN-TYPE SURFACE GRINDERS, 12 – 31.5" WIDE TABLE, TO 10 FT LONG



M71 surface grinders — largest grinding size of each model, M7130A to M7180: 11.8 – 31.5" wide and 39.4 – 118" long (300 – 800 mm and 1,000 – 3,000 mm); the drawing is in mm

TECHNICAL SPECIFICATIONS · 1 / 2

M7130A – M7180 COLUMN-TYPE SURFACE GRINDERS, 12 – 31.5" WIDE TABLE, TO 10 FT LONG

M7130A – M7180

Heavy surface grinders, column type, 12 – 31.5" wide table, to 10 ft long

Model	M7130A	M7140	M7150A	M7160	M7170A	M7180
Table	11.8" (300 mm) wide	15.7" (400 mm) wide	19.7" (500 mm) wide	23.6" (600 mm) wide	27.6" (700 mm) wide	31.5" (800 mm) wide
Spindle centre to table	23.6" (600 mm)	23.6" (600 mm)	27.6" (700 mm)	23.6" (600 mm)	27.6" (700 mm)	28.5" (725 mm)
Table travel, longitudinal	43.3" (1,100 mm)	43.3" (1,100 mm); 66.9 / 90.6" (1,700 / 2,300 mm) optional	43.3" (1,100 mm); 66.9 / 90.6" (1,700 / 2,300 mm) optional	43.3" (1,100 mm); 66.9 / 90.6" (1,700 / 2,300 mm) optional	53.1" (1,350 mm); 66.9 / 90.6" (1,700 / 2,300 mm) optional	66.9" (1,700 mm); 90.6 / 122" (2,300 / 3,100 mm) optional
Table travel, min.	7.87" (200 mm)	7.87" (200 mm)	7.87" (200 mm)	7.87" (200 mm)	7.87" (200 mm)	7.87" (200 mm)
Table speed	9.8 – 89 ft/min (3 – 27 m/min)	9.8 – 89 ft/min (3 – 27 m/min)	9.8 – 89 ft/min (3 – 27 m/min)	9.8 – 89 ft/min (3 – 27 m/min)	9.8 – 89 ft/min (3 – 27 m/min)	9.8 – 89 ft/min (3 – 27 m/min)
T-slots	3 × 0.709" (18 mm)	3 × 0.709" (18 mm)	3 × 0.866" (22 mm)	3 × 0.866" (22 mm)	3 × 0.866" (22 mm)	3 × 0.866" (22 mm)
Cross feed, continuous	20 – 177 ipm (0.5 – 4.5 m/min)	20 – 177 ipm (0.5 – 4.5 m/min)	20 – 177 ipm (0.5 – 4.5 m/min)	20 – 177 ipm (0.5 – 4.5 m/min)	20 – 177 ipm (0.5 – 4.5 m/min)	20 – 177 ipm (0.5 – 4.5 m/min)
Cross feed per stroke	0.118 – 1.18" per stroke (3 – 30 mm)	0.118 – 1.18" per stroke (3 – 30 mm)	0.118 – 1.18" per stroke (3 – 30 mm)	0.118 – 1.18" per stroke (3 – 30 mm)	0.118 – 1.18" per stroke (3 – 30 mm)	0.118 – 1.18" per stroke (3 – 30 mm)
Cross feed handwheel	–	0.00079" (0.02 mm) per division	0.00079" (0.02 mm) per division	0.00079" (0.02 mm) per division	0.00079" (0.02 mm) per division	0.00079" (0.02 mm) per division
Vertical rapid traverse	16 ipm (400 mm/min)	16 ipm (400 mm/min)	16 ipm (400 mm/min)	16 ipm (400 mm/min)	16 ipm (400 mm/min)	16 ipm (400 mm/min)
Down feed handwheel, per turn	0.0254" (0.645 mm) per turn, 0.0002" (0.005 mm) per division	0.0254" (0.645 mm) per turn, 0.00039" (0.01 mm) per division	0.0203" (0.515 mm) per turn, 0.0002" (0.005 mm) per division	0.0254" (0.645 mm) per turn, 0.0002" (0.005 mm) per division	0.0203" (0.515 mm) per turn, 0.0002" (0.005 mm) per division	0.0203" (0.515 mm) per turn, 0.0002" (0.005 mm) per division
Spindle speed	1,440 rpm	1,440 rpm	1,440 rpm	1,440 rpm	1,440 rpm	1,440 rpm
Grinding wheel	Ø15.7 × 1.57 × Ø5" (Ø400 × 40 × Ø127 mm)	Ø15.7 × 1.57 × Ø5" (Ø400 × 40 × Ø127 mm)	Ø15.7 × 1.57 × Ø7.99" (Ø400 × 40 × Ø203 mm)	Ø15.7 × 1.57 × Ø7.99" (Ø400 × 40 × Ø203 mm)	Ø15.7 × 1.57 × Ø7.99" (Ø400 × 40 × Ø203 mm)	Ø17.7 × 2.48 × Ø7.99" (Ø450 × 63 × Ø203 mm)
Spindle motor	10 HP (7.5 kW)	10 HP (7.5 kW)	10 HP (7.5 kW)	10 HP (7.5 kW)	15 HP (11 kW)	20 HP (15 kW)

TECHNICAL SPECIFICATIONS · 2 / 2

M7130A – M7180 COLUMN-TYPE SURFACE GRINDERS, 12 – 31.5" WIDE TABLE, TO 10 FT LONG

M7130A – M7180 (CONTINUED)

Heavy surface grinders, column type, 12 – 31.5" wide table, to 10 ft long

Model	M7130A	M7140	M7150A	M7160	M7170A	M7180
Total power	15 HP (11 kW)	15 HP (11 kW)	16.4 HP (12.25 kW)	18.4 HP (13.75 kW)	26 HP (19.75 kW)	39 HP (28.75 kW)
Table load, max., with chuck	1,036 lb (470 kg)	1,389 / 2,205 / 3,042 lb (630 / 1,000 / 1,380 kg)	1,543 / 2,734 / 3,109 lb (700 / 1,240 / 1,410 kg)	1,874 / 2,535 / 3,307 lb (850 / 1,150 / 1,500 kg)	2,425 / 3,086 / 3,968 lb (1,100 / 1,400 / 1,800 kg)	3,527 / 4,409 / 6,614 lb (1,600 / 2,000 / 3,000 kg)
Packing size L × W × H	112 × 67 × 84" (284 × 171 × 213 cm)	116 × 87 × 92" (295 × 220 × 233 cm) / 197 × 87 × 92" (500 × 220 × 233 cm) / 268 × 87 × 92" (680 × 220 × 233 cm)	126 × 90 × 99" (320 × 228 × 252 cm) / 205 × 90 × 99" (520 × 228 × 252 cm) / 268 × 90 × 99" (680 × 228 × 252 cm)	150 × 90 × 99" (380 × 228 × 252 cm) / 232 × 90 × 99" (590 × 228 × 252 cm) / 268 × 90 × 99" (680 × 228 × 252 cm)	152 × 90 × 100" (385 × 228 × 255 cm) / 220 × 90 × 100" (560 × 228 × 255 cm) / 268 × 90 × 100" (680 × 228 × 255 cm)	193 × 102 × 106" (490 × 260 × 270 cm) / 224 × 102 × 106" (570 × 260 × 270 cm) / 341 × 102 × 106" (865 × 260 × 270 cm)
Weight shipping weight	7,716 lb (3,500 kg)	3,968 lb (1,800 kg)	8,598 / 14,550 / 17,637 lb (3,900 / 6,600 / 8,000 kg)	12,125 / 15,653 / 18,739 lb (5,500 / 7,100 / 8,500 kg)	13,669 / 14,550 / 15,873 lb (6,200 / 6,600 / 7,200 kg)	20,944 / 22,708 / 28,660 lb (9,500 / 10,300 / 13,000 kg)

Metric values in brackets are the manufacturer's figures. Packing size is the shipping crate L × W × H; weight is the net weight of the machine unless the row says shipping weight. Where a model comes in several bed lengths, the lengths, crates and weights are listed in the same order. Specifications may change without notice; confirm the figures that matter for your work with NovoTech before ordering.

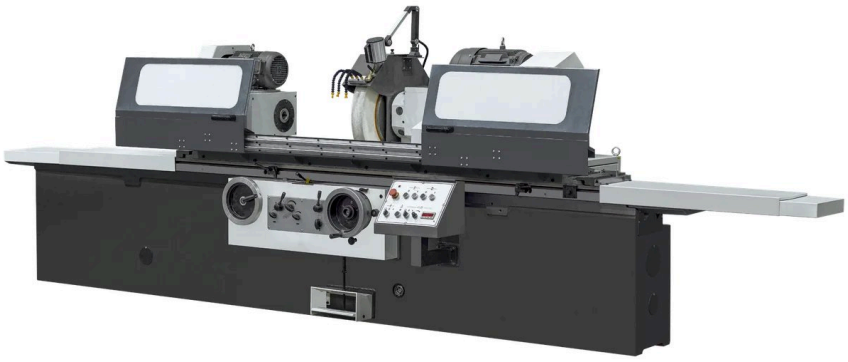
Custom voltage available: 208 V, 240 V, 480 V or 600 V 3-phase.

INCLUDED WITH EVERY NOVOTECH MACHINE

- ✓ Built in China to North American standards
- ✓ CSA-approved electrical panel
- ✓ 1-year warranty
- ✓ 7-day money-back guarantee
  in-stock machines only
- ✓ Spare parts & technical support
  readily available in Canada
- ✓ Order today with just 10% down
  0% down financing available
- ✓ Installation and training available

MW1320 – MQ1380A · 6 MODELS

MW1320 – MQ1380A CYLINDRICAL GRINDERS, Ø7.9 – 31.5", 19.7" TO 16 FT BETWEEN CENTRES



MODEL MW13 · MW13 CYLINDRICAL GRINDER



M13 cylindrical grinder at work: a shaft ground under flood coolant (sample workpiece)



M13 — ribbed cast-iron bed before assembly

Ø7.9 – 31.5" · to 16 ft

Cylindrical grinders for shafts, pins and rolls: six sizes from the MW1320 — Ø7.9" by 19.7 or 29.5" — to the MQ1380A, which grinds Ø31.5" work 16 ft long weighing up to 6,600 lb. Hand-scraped P-V table ways, a stepless workhead and a 35 m/s wheel; the larger models run on hydrostatic ways and spindle. Roundness 0.00008 – 0.00012" and finish Ra 7.9 – 12.6 µin.

STANDARD FEATURES

- Grinding diameter Ø0.3 – 31.5" (8 – 800 mm); grinding length 19.7 – 197" (500 – 5,000 mm)
- Workpiece weight to 6,614 lb (3,000 kg); centre height 5.3 – 19.7"
- Wheel to Ø35.4 × 3" (900 × 75 mm) at 6,890 ft/min (35 m/s); 7.5 – 30 HP wheelhead
- Hand-scraped P-V ways; hydrostatic ways and spindle on the large models
- Roundness 0.00008 – 0.00012" (2 – 3 µm)

TECHNICAL SPECIFICATIONS · 1 / 2

MW1320 – MQ1380A CYLINDRICAL GRINDERS, Ø7.9 – 31.5", 19.7" TO 16 FT BETWEEN CENTRES

MW1320 – MQ1380A

Universal-type cylindrical grinders for OD work, Ø7.9 – 31.5", 20" to 16 ft long

Model	MW1320	MW1332	MW1332H	MW1350	MW1363	MQ1380A
Grinding length (OD)	19.7 / 29.5" (500 / 750 mm)	39.4 / 59.1" (1,000 / 1,500 mm)	78.7 / 118.1" (2,000 / 3,000 mm)	59.1 / 78.7 / 118.1 / 157.5" (1,500 / 2,000 / 3,000 / 4,000 mm)	78.7 / 118.1 / 157.5 / 196.9" (2,000 / 3,000 / 4,000 / 5,000 mm)	118.1 / 157.5 / 196.9" (3,000 / 4,000 / 5,000 mm)
Centre height	5.31" (135 mm)	7.09" (180 mm)	7.09" (180 mm)	10.6" (270 mm)	14.6" (370 mm)	19.7" (500 mm)
Grinding diameter (OD)	0.315 – 7.87" (8 – 200 mm)	0.315 – 12.6" (8 – 320 mm)	0.315 – 12.6" (8 – 320 mm)	0.984 – 19.7" (25 – 500 mm)	1.18 – 24.8" (30 – 630 mm)	1.97 – 31.5" (50 – 800 mm)
Workpiece weight, max.	220 lb (100 kg)	331 lb (150 kg)	1,102 lb (500 kg)	4,409 lb (2,000 kg)	6,614 lb (3,000 kg)	6,614 lb (3,000 kg)
Workhead taper	MT4	MT5	MT5	MT6	Metric 80#	Metric 80#
Workhead speeds stepless, rated at 50 Hz	26 – 260 rpm	19 – 190 rpm	10 – 100 rpm	10 – 100 rpm	6 – 60 rpm	5 – 50 rpm
Grinding wheel, max.	Ø19.7 × 1.97 × Ø7.99" (Ø500 × 50 × Ø203 mm)	Ø23.6 × 2.95 × Ø12" (Ø600 × 75 × Ø305 mm)	Ø23.6 × 2.95 × Ø12" (Ø600 × 75 × Ø305 mm)	Ø29.5 × 2.95 × Ø12" (Ø750 × 75 × Ø305 mm)	Ø29.5 × 2.95 × Ø12" (Ø750 × 75 × Ø305 mm)	Ø35.4 × 2.95 × Ø12" (Ø900 × 75 × Ø305 mm)
Wheel speed	6,890 ft/min (35 m/s)	6,890 ft/min (35 m/s)	6,890 ft/min (35 m/s)	6,890 ft/min (35 m/s)	6,890 ft/min (35 m/s)	6,890 ft/min (35 m/s)
Wheelhead handwheel	per turn: rough 0.0787" (2 mm), fine 0.0197" (0.5 mm); per division: rough 0.00039" (0.01 mm), fine 0.0001" (0.0025 mm)	per turn: rough 0.0787" (2 mm), fine 0.0197" (0.5 mm); per division: rough 0.00039" (0.01 mm), fine 0.0001" (0.0025 mm)	per turn: rough 0.0787" (2 mm), fine 0.0197" (0.5 mm); per division: rough 0.00039" (0.01 mm), fine 0.0001" (0.0025 mm)	per turn: rough 0.157" (4 mm), fine 0.0197" (0.5 mm); per division: rough 0.00079" (0.02 mm), fine 0.0001" (0.0025 mm)	per turn: rough 0.157" (4 mm), fine 0.0197" (0.5 mm); per division: rough 0.00079" (0.02 mm), fine 0.0001" (0.0025 mm)	per turn: rough 0.157" (4 mm), fine 0.0197" (0.5 mm); per division: rough 0.00079" (0.02 mm), fine 0.0001" (0.0025 mm)
Table swivel, clockwise	3°	3°	3°	3° for the 59.1" (1,500 mm) length; 2° for the 78.7 and 118.1" (2,000 and 3,000 mm) lengths; 1° for the 157.5" (4,000 mm) length	2° for the 78.7" (2,000 mm) length; 1° for the 118.1, 157.5 and 196.9" (3,000, 4,000 and 5,000 mm) lengths	1°
Table swivel, counterclockwise	9° for the 19.7" (500 mm) length; 8° for the 29.5" (750 mm) length	7° for the 39.4" (1,000 mm) length; 6° for the 59.1" (1,500 mm) length	5° for the 78.7" (2,000 mm) length; 3° for the 118.1" (3,000 mm) length	6° for the 59.1" (1,500 mm) length; 5° for the 78.7" (2,000 mm) length; 3° for the 118.1" (3,000 mm) length; 2° for the 157.5" (4,000 mm) length	4° / 3° / 2° / 1.5°	3° for the 118.1" (3,000 mm) length; 2° for the 157.5" (4,000 mm) length; 1.5° for the 196.9" (5,000 mm) length
Table speed	0.3 – 13 ft/min (0.1 – 4 m/min)	0.3 – 13 ft/min (0.1 – 4 m/min)	0.3 – 9.8 ft/min (0.1 – 3 m/min)	0.3 – 9.8 ft/min (0.1 – 3 m/min)	0.3 – 8.2 ft/min (0.1 – 2.5 m/min)	0.3 – 8.2 ft/min (0.1 – 2.5 m/min)
Tailstock taper	MT4	MT4	MT5	MT6	Metric 80	Metric 80
Tailstock quill travel	1.18" (30 mm)	1.18" (30 mm)	1.18" (30 mm)	2.76" (70 mm)	2.76" (70 mm)	2.76" (70 mm)

TECHNICAL SPECIFICATIONS · 2 / 2

MW1320 – MQ1380A CYLINDRICAL GRINDERS, Ø7.9 – 31.5", 19.7" TO 16 FT BETWEEN CENTRES

MW1320 – MQ1380A (CONTINUED)

Universal-type cylindrical grinders for OD work, Ø7.9 – 31.5", 20" to 16 ft long

Model	MW1320	MW1332	MW1332H	MW1350	MW1363	MQ1380A
Wheelhead motor	7.5 HP (5.5 kW)	15 HP (11 kW)	15 HP (11 kW)	20 HP (15 kW)	30 HP (22 kW)	30 HP (22 kW)
Workhead motor	1.5 HP (1.1 kW)	2 HP (1.5 kW)	4 HP (3 kW)	5.5 HP (4 kW)	20 HP (15 kW)	20 HP (15 kW)
Roundness	0.00008" (2 µm)	0.0001" (2.5 µm)	0.00012" (3 µm)	0.0001" (2.5 µm) for the 59.1" (1,500 mm) length; 0.00012" (3 µm) for the 78.7, 118.1 and 157.5" (2,000, 3,000 and 4,000 mm) lengths	0.00012" (3 µm)	0.00012" (3 µm)
Cylindricity	0.0002" (5 µm) for the 19.7" (500 mm) length; 0.00031" (8 µm) for the 29.5" (750 mm) length	0.00031" (8 µm)	0.00031" (8 µm)	0.00031" (8 µm) for the 59.1, 78.7 and 118.1" (1,500, 2,000 and 3,000 mm) lengths; 0.00047" (12 µm) for the 157.5" (4,000 mm) length	0.00031" (8 µm) for the 78.7 and 118.1" (2,000 and 3,000 mm) lengths; 0.00047" (12 µm) for the 157.5 and 196.9" (4,000 and 5,000 mm) lengths	0.00031" (8 µm) for the 118.1" (3,000 mm) length; 0.00047" (12 µm) for the 157.5 and 196.9" (4,000 and 5,000 mm) lengths
Surface finish	Ra 7.9 µin (Ra 0.2 µm)	Ra 7.9 µin (Ra 0.2 µm)	Ra 12.6 µin (Ra 0.32 µm)	Ra 12.6 µin (Ra 0.32 µm)	Ra 12.6 µin (Ra 0.32 µm)	Ra 12.6 µin (Ra 0.32 µm)
Packing size L × W × H	93 / 108 × 80 × 81" (235 / 275 × 203 × 205 cm)	128 / 168 × 75 × 81" (326 / 426 × 190 × 205 cm)	228 / 307 × 75 × 81" (580 / 780 × 190 × 205 cm)	214 / 230 / 313 / 392 × 89 × 83" (543 / 583 / 796 / 996 × 225 × 210 cm)	283 / 345 / 433 / 500 × 94 × 89" (720 / 876 / 1,100 / 1,270 × 240 × 226 cm)	345 / 433 / 500 × 94 × 91" (876 / 1,100 / 1,270 × 240 × 230 cm)
Weight shipping weight	6,614 / 7,275 lb (3 / 3.3 t)	8,818 / 10,141 lb (4 / 4.6 t)	13,669 / 16,094 lb (6.2 / 7.3 t)	20,944 / 23,149 / 26,015 / 30,865 lb (9.5 / 10.5 / 11.8 / 14 t)	39,683 / 48,502 / 46,297 / 51,809 lb (18 / 22 / 21 / 23.5 t)	48,502 / 50,706 / 55,116 lb (22 / 23 / 25 t)

Metric values in brackets are the manufacturer's figures. Packing size is the shipping crate L × W × H; weight is the net weight of the machine unless the row says shipping weight. Where a model comes in several bed lengths, the lengths, crates and weights are listed in the same order. Specifications may change without notice; confirm the figures that matter for your work with NovoTech before ordering. Speeds marked "rated at 50 Hz" are the manufacturer's 50 Hz figures — motors run about 20 % faster on 60 Hz power.

Custom voltage available: 208 V, 240 V, 480 V or 600 V 3-phase.

INCLUDED WITH EVERY NOVOTECH MACHINE

- ✓ Built in China to North American standards
- ✓ CSA-approved electrical panel
- ✓ 1-year warranty
- ✓ 7-day money-back guarantee
  in-stock machines only
- ✓ Spare parts & technical support
  readily available in Canada
- ✓ Order today with just 10% down
  0% down financing available
- ✓ Installation and training available

M1420 – M1463 · 5 MODELS

M1420 – M1463 UNIVERSAL CYLINDRICAL GRINDERS, OUTSIDE AND INSIDE DIAMETERS



MODEL M14 · M14 UNIVERSAL CYLINDRICAL GRINDER



M14 — linear guideway of the wheelhead feed



M14 — internal grinding attachment

Outside and inside grinding

Universal cylindrical grinders that grind outside and inside diameters and tapers: a workhead that swivels 90° for chuck work and internal tapers, an internal grinding spindle at 10,000 rpm, and five sizes from the M1420 — Ø7.9″ × 19.7″, holes Ø0.5 – 3.1″ — to the M1463 for Ø24.8″ work 16 ft long. Hand-scraped P-V ways on the smaller models, hydrostatic ways on the M1450 and M1463.

STANDARD FEATURES

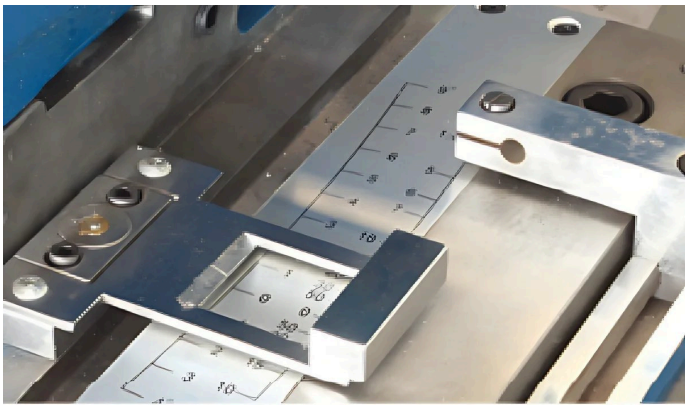
- ✓ Outside Ø0.2 – 24.8″ (5 – 630 mm); inside Ø0.5 – 9.8″ (13 – 250 mm), 4.9 – 12.6″ deep
- ✓ Grinding length 19.7 – 197″ (500 – 5,000 mm); workpiece to 6,614 lb (3,000 kg)
- ✓ Workhead swivels 90°; internal grinding spindle 10,000 rpm (four speeds to 19,600 rpm on the M1420)
- ✓ Wheel to Ø23.6 × 3″ (600 × 75 mm) at 35 m/s; roundness 0.0001 – 0.00012″ (2.5 – 3 µm)
- ✓ Standard: wheel dresser, balancing stand, open steady rest, coolant tank, work light

OPTIONAL EQUIPMENT

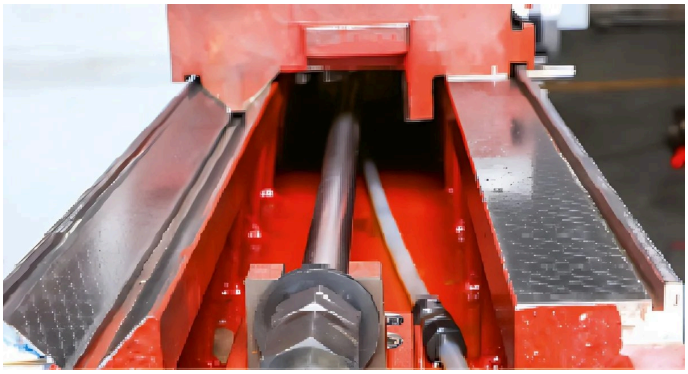
- + Closed steady rest
- + Magnetic separator and paper filter for the coolant
- + End and radius wheel dressers

DETAILS, COMPONENTS AND OPTIONS

M1420 – M1463 UNIVERSAL CYLINDRICAL GRINDERS, OUTSIDE AND INSIDE DIAMETERS



M14 — swivel adjustment of the table with its scale, for grinding tapers



M14 — flat and V guideways of the bed

TECHNICAL SPECIFICATIONS · 1 / 2

M1420 – M1463 UNIVERSAL CYLINDRICAL GRINDERS, OUTSIDE AND INSIDE DIAMETERS

M1420 – M1463

Universal cylindrical grinders for OD and ID work, Ø7.9 – 24.8″

Model	M1420	M1432B	M1432H	M1450	M1463
Grinding length (OD)	19.7 / 29.5″ (500 / 750 mm)	39.4 / 59.1″ (1,000 / 1,500 mm)	78.7 / 118.1″ (2,000 / 3,000 mm)	59.1 / 78.7 / 118.1 / 157.5″ (1,500 / 2,000 / 3,000 / 4,000 mm)	78.7 / 118.1 / 157.5 / 196.9″ (2,000 / 3,000 / 4,000 / 5,000 mm)
Centre height	4.92″ (125 mm)	7.09″ (180 mm)	7.09″ (180 mm)	10.6″ (270 mm)	14.6″ (370 mm)
Grinding diameter (OD)	0.197 – 7.87″ (5 – 200 mm)	0.315 – 12.6″ (8 – 320 mm)	0.315 – 12.6″ (8 – 320 mm)	0.984 – 19.7″ (25 – 500 mm)	1.18 – 24.8″ (30 – 630 mm)
Grinding diameter (ID)	0.512 – 3.15″ (13 – 80 mm)	1.18 – 3.94″ (30 – 100 mm)	1.18 – 3.94″ (30 – 100 mm)	1.18 – 7.87″ (30 – 200 mm)	1.18 – 9.84″ (30 – 250 mm)
Grinding length (ID)	4.92″ (125 mm)	4.92″ (125 mm)	4.92″ (125 mm)	12.6″ (320 mm)	12.6″ (320 mm)
Workpiece weight, max.	110 lb (50 kg)	331 lb (150 kg)	1,102 lb (500 kg)	2,205 lb (1,000 kg)	6,614 lb (3,000 kg)
Workhead swivel	+90°	+90°	+90°	+90°	+90°
Workhead taper	MT4	MT4	MT5	MT6	Metric 80#
Workhead speeds stepless, rated at 50 Hz	63 / 125 / 250 / 500 rpm in steps, or 30 – 300 rpm stepless	26 – 260 rpm	26 – 260 rpm	20 – 224 rpm	14 – 140 rpm
Grinding wheel, max.	Ø15.7 × 1.97 × Ø7.99″ (Ø400 × 50 × Ø203 mm)	Ø15.7 × 1.97 × Ø7.99″ (Ø400 × 50 × Ø203 mm)	Ø19.7 × 1.97 × Ø7.99″ (Ø500 × 50 × Ø203 mm)	Ø19.7 × 2.95 × Ø12″ (Ø500 × 75 × Ø305 mm)	Ø23.6 × 2.95 × Ø12″ (Ø600 × 75 × Ø305 mm)
Wheel speed	6,890 ft/min (35 m/s)	6,890 ft/min (35 m/s)	6,890 ft/min (35 m/s)	6,890 ft/min (35 m/s)	6,890 ft/min (35 m/s)
Wheelhead handwheel	per turn: rough 0.0394″ (1 mm), fine 0.0394″ (1 mm); per division: rough 0.00008″ (0.002 mm), fine 0.00004″ (0.001 mm)	per turn: rough 0.0787″ (2 mm), fine 0.0197″ (0.5 mm); per division: rough 0.00039″ (0.01 mm), fine 0.0001″ (0.0025 mm)	per turn: rough 0.0787″ (2 mm), fine 0.0197″ (0.5 mm); per division: rough 0.00039″ (0.01 mm), fine 0.0001″ (0.0025 mm)	per turn: rough 0.157″ (4 mm), fine 0.0197″ (0.5 mm); per division: rough 0.00079″ (0.02 mm), fine 0.0001″ (0.0025 mm)	per turn: rough 0.157″ (4 mm), fine 0.0197″ (0.5 mm); per division: rough 0.00079″ (0.02 mm), fine 0.0001″ (0.0025 mm)
Internal grinding spindle	9,245 / 12,250 / 14,848 / 19,600 rpm	10,000 rpm	10,000 rpm	10,000 rpm	10,000 rpm
Internal grinding wheel	max. 1.97 × 1.26 × 0.63″ (50 × 32 × 16 mm), min. 0.472 × 0.591 × 0.197″ (12 × 15 × 5 mm)	max. 1.97 × 0.984 × 0.512″ (50 × 25 × 13 mm), min. 0.669 × 0.787 × 0.236″ (17 × 20 × 6 mm)	max. 1.97 × 0.984 × 0.512″ (50 × 25 × 13 mm), min. 0.669 × 0.787 × 0.236″ (17 × 20 × 6 mm)	max. 6.89 × 1.26 × 1.26″ (175 × 32 × 32 mm), min. 1.18 × 0.984 × 0.394″ (30 × 25 × 10 mm)	max. 6.89 × 1.26 × 1.26″ (175 × 32 × 32 mm), min. 1.18 × 0.984 × 0.394″ (30 × 25 × 10 mm)
Table swivel, clockwise	9° for the 19.7″ (500 mm) length; 8° for the 29.5″ (750 mm) length	3°	3°	3° for the 59.1″ (1,500 mm) length; 2° for the 78.7 and 118.1″ (2,000 and 3,000 mm) lengths; 1° for the 157.5″ (4,000 mm) length	2° for the 78.7″ (2,000 mm) length; 1° for the 118.1, 157.5 and 196.9″ (3,000, 4,000 and 5,000 mm) lengths

TECHNICAL SPECIFICATIONS · 2 / 2

M1420 – M1463 UNIVERSAL CYLINDRICAL GRINDERS, OUTSIDE AND INSIDE DIAMETERS

M1420 – M1463 (CONTINUED)

Universal cylindrical grinders for OD and ID work, Ø7.9 – 24.8"

Model	M1420	M1432B	M1432H	M1450	M1463
Table swivel, counterclockwise	9° for the 19.7" (500 mm) length; 8° for the 29.5" (750 mm) length	7° for the 39.4" (1,000 mm) length; 6° for the 59.1" (1,500 mm) length	5° for the 78.7" (2,000 mm) length; 3° for the 118.1" (3,000 mm) length	6° for the 59.1" (1,500 mm) length; 5° for the 78.7" (2,000 mm) length; 3° for the 118.1" (3,000 mm) length; 2° for the 157.5" (4,000 mm) length	4° / 3° / 2° / 1.5°
Table speed	0.3 – 9.8 ft/min (0.1 – 3 m/min)	0.3 – 13 ft/min (0.1 – 4 m/min)	0.3 – 9.8 ft/min (0.1 – 3 m/min)	0.3 – 9.8 ft/min (0.1 – 3 m/min)	0.3 – 8.2 ft/min (0.1 – 2.5 m/min)
Tailstock taper	MT4	MT4	MT5	MT6	Metric 80
Tailstock quill travel	0.984" (25 mm)	1.18" (30 mm)	1.18" (30 mm)	2.76" (70 mm)	2.76" (70 mm)
Wheelhead motor	7.5 HP (5.5 kW)	7.5 HP (5.5 kW)	10 HP (7.5 kW)	6.7 / 10 HP (5 / 7.5 kW)	9.4 / 15 HP (7 / 11 kW)
Internal grinding motor	3/4 HP (0.55 kW)	1.5 HP (1.1 kW)	1.5 HP (1.1 kW)	2 HP (1.5 kW)	2 HP (1.5 kW)
Workhead motor	1 HP (0.75 kW)	2 HP (1.5 kW)	2 HP (1.5 kW)	5.5 HP (4 kW)	20 HP (15 kW)
Roundness	0.00012" (3 µm)	0.0001" (2.5 µm)	0.00012" (3 µm)	0.0001" (2.5 µm) for the 59.1" (1,500 mm) length; 0.00012" (3 µm) for the 78.7, 118.1 and 157.5" (2,000, 3,000 and 4,000 mm) lengths	0.00012" (3 µm)
Cylindricity	0.0002" (5 µm) for the 19.7" (500 mm) length; 0.00031" (8 µm) for the 29.5" (750 mm) length	0.00031" (8 µm)	0.00031" (8 µm)	0.00031" (8 µm) for the 59.1, 78.7 and 118.1" (1,500, 2,000 and 3,000 mm) lengths; 0.00047" (12 µm) for the 157.5" (4,000 mm) length	0.00031" (8 µm) for the 78.7 and 118.1" (2,000 and 3,000 mm) lengths; 0.00047" (12 µm) for the 157.5 and 196.9" (4,000 and 5,000 mm) lengths
Surface finish	Ra 6.3 µin (Ra 0.16 µm)	Ra 7.9 µin (Ra 0.2 µm)	Ra 12.6 µin (Ra 0.32 µm)	Ra 12.6 µin (Ra 0.32 µm)	Ra 12.6 µin (Ra 0.32 µm)
Packing size L × W × H	80 / 115 × 64 × 69" (203 / 293 × 163 × 175 cm)	128 / 168 × 75 × 81" (326 / 426 × 190 × 205 cm)	228 / 307 × 75 × 81" (580 / 780 × 190 × 205 cm)	214 / 230 / 313 / 392 × 89 × 83" (543 / 583 / 796 / 996 × 225 × 210 cm)	283 / 345 / 433 / 500 × 94 × 89" (720 / 876 / 1,100 / 1,270 × 240 × 226 cm)
Weight shipping weight	6,614 / 7,275 lb (3 / 3.3 t)	8,378 / 8,818 lb (3.8 / 4 t)	13,669 / 15,873 lb (6.2 / 7.2 t)	20,944 / 22,046 / 24,251 / 30,865 lb (9.5 / 10 / 11 / 14 t)	39,683 / 41,888 / 50,706 / 57,320 lb (18 / 19 / 23 / 26 t)

Metric values in brackets are the manufacturer's figures. Packing size is the shipping crate L × W × H; weight is the net weight of the machine unless the row says shipping weight. Where a model comes in several bed lengths, the lengths, crates and weights are listed in the same order. Specifications may change without notice; confirm the figures that matter for your work with NovoTech before ordering. Speeds marked "rated at 50 Hz" are the manufacturer's 50 Hz figures — motors run about 20 % faster on 60 Hz power.

Custom voltage available: 208 V, 240 V, 480 V or 600 V 3-phase.

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B5020 – BC5063 · 5 MODELS

B5020 · B5032 · BQ5040 · BC5050 · BC5063 SLOTTING MACHINES, 7.9 – 24.8″ STROKE



MODEL SLOTTING · BQ5040 SLOTTING MACHINE WITH ROTARY TABLE



B5032 slotting machine with rotary table



BC5063 heavy slotting machine

7.9 – 24.8″ stroke

Vertical slotting machines for internal keyways, splines, square and hexagon holes and profiles: the ram strokes vertically while the round table feeds the work longitudinally, across and in rotation, by power or by hand. The B5020, B5032 and BQ5040 have 7.9 – 15.7″ strokes and Ø19.7 – 24.8″ tables (the BQ5040 stops its table feed by itself on a fault); the BC5050 and BC5063 are double-crank machines with a PLC and servo table feed that indexes the table for multi-key work, 19.7 and 24.8″ strokes and Ø39.4 – 44.1″ tables for 4,409 lb.

STANDARD FEATURES

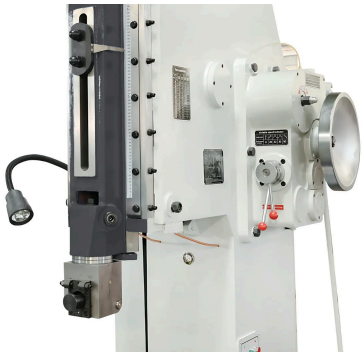
- ✓ Stroke 7.9 – 24.8″ (200 – 630 mm); ram tilts up to 8° (±10° on the BC models)
- ✓ Round table Ø19.7 – 44.1″ (500 – 1,120 mm); longitudinal, cross and rotary feed, power and manual
- ✓ Cutting force 1,686 – 4,496 lbf (7,500 – 20,000 N)
- ✓ BC5050 / BC5063: PLC and servo table feed, automatic indexing, stepless feed shown on screen
- ✓ 4 – 13.4 HP (3 – 10 kW)

DETAILS, COMPONENTS AND OPTIONS

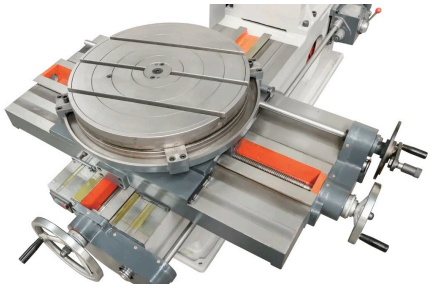
B5020 · B5032 · BQ5040 · BC5050 · BC5063 SLOTTING MACHINES, 7.9 – 24.8″ STROKE



BC5050 heavy slotting machine



BQ5040 — ram and tool head on the column



B5020 / B5032 — rotary table on its cross slides

TECHNICAL SPECIFICATIONS · 1 / 4

B5020 · B5032 · BQ5040 · BC5050 · BC5063 SLOTTING MACHINES, 7.9 – 24.8″ STROKE

B5020 · B5032

Slotting machines, 7.9 – 12.6″ stroke, Ø19.7 – 24.8″ rotary table

Model	B5020	B5032
Slotting stroke, max.	7.87″ (200 mm)	12.6″ (320 mm)
Cutting force, max.	1,686 lbf (7,500 N)	1,686 lbf (7,500 N)
Ram strokes per minute	32 / 50 / 80 / 125 per min	20 / 32 / 50 / 80 per min
Ram vertical adjustment	9.06″ (230 mm)	12.4″ (315 mm)
Ram tilt	0 – 8°	0 – 8°
Tool support to column	19.1″ (485 mm)	23.6″ (600 mm)
Tool shank, max.	0.984 × 1.57″ (25 × 40 mm)	0.984 × 1.57″ (25 × 40 mm)
Table to ram	12.6″ (320 mm)	19.3″ (490 mm)
Table travel, longitudinal (power / manual)	18.9 / 19.7″ (480 / 500 mm)	18.9 / 24.8″ (480 / 630 mm)
Table travel, cross (power / manual)	18.9 / 19.7″ (480 / 500 mm)	18.9 / 22″ (480 / 560 mm)
Table rotation	±360°	±360°
Table power feed	0.00315 – 0.0476″ (0.08 – 1.21 mm) per ram stroke	0.00315 – 0.0476″ (0.08 – 1.21 mm) per ram stroke
Table rotary feed	0.052 – 0.783° per ram stroke	0.052 – 0.783° per ram stroke
Table diameter	Ø19.7″ (Ø500 mm)	Ø24.8″ (Ø630 mm)
Table load, max.	1,102 lb (500 kg)	1,102 lb (500 kg)
Table T-slots	3 × 0.709″ (18 mm), 4.72″ (120 mm) apart	3 × 0.709″ (18 mm), 6.3″ (160 mm) apart
Main motor	4 HP (3 kW)	5.5 HP (4 kW)
Overall size L × W × H	76 × 51 × 79″ (192 × 130 × 200 cm)	86 × 59 × 90″ (218 × 150 × 228 cm)
Weight	4,850 lb (2,200 kg)	6,614 lb (3,000 kg)

TECHNICAL SPECIFICATIONS · 2 / 4

B5020 · B5032 · BQ5040 · BC5050 · BC5063 SLOTTING MACHINES, 7.9 – 24.8″ STROKE

BQ5040

Slotting machine, 15.7″ stroke, Ø24.8″ rotary table

Model	BQ5040
Slotting stroke, max.	15.7″ (400 mm)
Cutting force, max.	1,686 lbf (7,500 N)
Ram strokes per minute	20 / 32 / 50 / 80 per min
Ram vertical adjustment	16.3″ (415 mm)
Tool support to column	23.6″ (600 mm)
Tool shank, max.	0.984 × 1.57″ (25 × 40 mm)
Table to ram	23.6″ (600 mm)
Table travel, longitudinal (power / manual)	18.9 / 24.8″ (480 / 630 mm)
Table travel, cross (power / manual)	18.9 / 22″ (480 / 560 mm)
Table rotation	±360°
Table power feed	0.00315 – 0.0476″ (0.08 – 1.21 mm) per ram stroke
Table rotary feed	0.052 – 0.783° per ram stroke
Table diameter	Ø24.8″ (Ø630 mm)
Table load, max.	1,102 lb (500 kg)
Table T-slots	3 × 0.709″ (18 mm), 6.3″ (160 mm) apart
Main motor	5.5 HP (4 kW)
Overall size L × W × H	86 × 59 × 98″ (218 × 150 × 248 cm)
Weight	8,157 lb (3,700 kg)

TECHNICAL SPECIFICATIONS · 3 / 4

B5020 · B5032 · BQ5040 · BC5050 · BC5063 SLOTTING MACHINES, 7.9 – 24.8″ STROKE

BC5050

Heavy slotting machine, 19.7″ stroke, Ø39.4″ rotary table

Model	BC5050
Slotting stroke, max.	19.7″ (500 mm)
Cutting force, max.	3,597 lbf (16,000 N)
Ram stroke, max.	20.5″ (520 mm)
Ram strokes per minute	9 / 12.5 / 18 / 25 / 36 / 50 per min
Ram vertical adjustment	16.9″ (430 mm)
Ram tilt	±10°
Tool support to column	39″ (990 mm)
Tool shank, max.	2.36 × 1.97″ (60 × 50 mm)
Table to ram	29.1″ (740 mm)
Table travel, longitudinal	39.4″ (1,000 mm)
Table travel, cross	26″ (660 mm)
Table rotation	±360°
Table power feed	0.00394 – 0.0472″ (0.1 – 1.2 mm) per ram stroke
Table rotary feed	0.05 – 0.6° per ram stroke
Table diameter	Ø39.4″ (Ø1,000 mm)
Table load, max.	4,409 lb (2,000 kg)
Table T-slots	5 × 0.866″ (22 mm), 7.09″ (180 mm) apart
Main motor	10 HP (7.5 kW)
Overall size L × W × H	137 × 82 × 130″ (348 × 208 × 330 cm)
Weight	22,708 lb (10,300 kg)

TECHNICAL SPECIFICATIONS · 4 / 4

B5020 · B5032 · BQ5040 · BC5050 · BC5063 SLOTTING MACHINES, 7.9 – 24.8″ STROKE

BC5063

Heavy slotting machine, 24.8″ stroke, Ø44.1″ rotary table

Model	BC5063
Slotting stroke, max.	24.8″ (630 mm)
Cutting force, max.	4,496 lbf (20,000 N)
Ram strokes per minute	8 / 12 / 20 / 30 per min
Ram vertical adjustment	25.6″ (650 mm)
Ram tilt	±10°
Tool support to column	44.1″ (1,120 mm)
Tool shank, max.	2.36 × 2.36″ (60 × 60 mm)
Table to ram	31.5″ (800 mm)
Table travel, longitudinal	39.4″ (1,000 mm)
Table travel, cross	27.6″ (700 mm)
Table rotation	±360°
Table power feed	0.00394 / 0.00787 / 0.0126 / 0.0213 / 0.0315 / 0.0512″ (0.1 / 0.2 / 0.32 / 0.54 / 0.8 / 1.3 mm) per ram stroke
Table rotary feed	3′ to 39′ (6 steps) per ram stroke
Table diameter	Ø44.1″ (Ø1,120 mm)
Table load, max.	4,409 lb (2,000 kg)
Table T-slots	5 × 0.866″ (22 mm), 7.87″ (200 mm) apart
Main motor	13.4 HP (10 kW)
Overall size L × W × H	141 × 94 × 144″ (358 × 239 × 366 cm)
Weight	24,251 lb (11,000 kg)

Metric values in brackets are the manufacturer's figures. Packing size is the shipping crate L × W × H; weight is the net weight of the machine unless the row says shipping weight. Where a model comes in several bed lengths, the lengths, crates and weights are listed in the same order. Specifications may change without notice; confirm the figures that matter for your work with NovoTech before ordering.

Custom voltage available: 208 V, 240 V, 480 V or 600 V 3-phase.

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B635A – BC60100 · 6 MODELS

B635A · BC6050 – BC60100 METAL SHAPERS, 13.8 – 39.4″ STROKE



MODEL METAL · BC6063 SHAPER



B635A shaper



BC6085 shaper

13.8 – 39.4″ stroke

Shapers for flat surfaces, slots, keyways and dovetails on single parts and small batches: the ram carries the tool across the work while the table feeds sideways and up, by power or by hand. The B635A shapes 13.8″ on a 13.8 × 11.8″ table; the BC6050, BC6063 and BC6066 take 19.7 – 26″ strokes, with 12 power feeds on the BC6063 and BC6066; the BC6085 and BC60100 shape 33.5 and 39.4″ on tables up to 39.4 × 19.7″, with 7.5 and 10 HP motors.

STANDARD FEATURES

- Stroke 13.8 – 39.4″ (350 – 1,000 mm); 14 – 125 strokes per minute
- Table tops 13.8 × 11.8″ to 39.4 × 19.7″
- Horizontal and vertical power feed, 8 – 12 steps; table swivels ±45° (option on the BC6050 – BC6066)
- Tool head swivels ±60°; tool shank to 1-3/16 × 1-3/4″ (30 × 45 mm)
- 2 – 10 HP (1.5 – 7.5 kW)

B635A — TECHNICAL SPECIFICATIONS

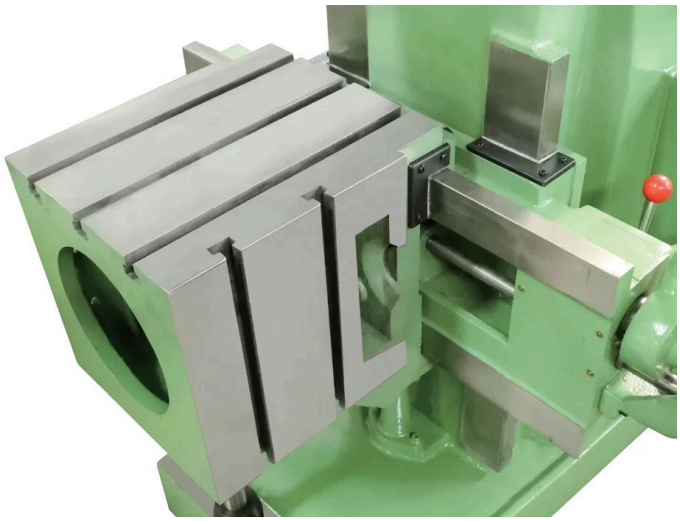
Model	B635A
Ram stroke, max.	13.8″ (350 mm)
Ram to table, max.	13″ (330 mm)
Table travel, horizontal	15.7″ (400 mm)
Table travel, vertical	10.6″ (270 mm)
Table top	13.8 × 11.8″ (350 × 300 mm)
Table swivel	±45°
Ram adjustment	6.69″ (170 mm)
Tool head travel, vertical	4.33″ (110 mm)
Tool head swivel	±60°
Tool shank, max.	0.787 × 1.18″ (20 × 30 mm)
Ram strokes per minute	32 / 50 / 80 / 125 per min
Table feeds	horizontal 0.00827 – 0.0331″ (0.21 – 0.84 mm), vertical 0.00709 – 0.0287″ (0.18 – 0.73 mm) per stroke (1 – 4 pawl teeth)
Table T-slots	3 × 0.551″ (14 mm), 3.94″ (100 mm) apart
Main motor	2 HP (1.5 kW)
Overall size L × W × H	60 × 37 × 54″ (153 × 93 × 137 cm)
Weight	2,205 lb (1,000 kg)

DETAILS, COMPONENTS AND OPTIONS

B635A · BC6050 – BC60100 METAL SHAPERS, 13.8 – 39.4" STROKE



BC60100 shaper



B635A — box table and tool post

TECHNICAL SPECIFICATIONS · 1 / 2

B635A · BC6050 – BC60100 METAL SHAPERS, 13.8 – 39.4″ STROKE

BC6050 · BC6063 · BC6066

Shapers, 19.7 – 26″ stroke

Model	BC6050	BC6063	BC6066
Ram stroke, max.	19.7″ (500 mm)	24.8″ (630 mm)	26″ (660 mm)
Ram to table, max.	14.6″ (370 mm)	15.2″ (385 mm)	15.2″ (385 mm)
Table travel, horizontal	20.7″ (525 mm)	24.8″ (630 mm)	24.8″ (630 mm)
Table travel, vertical	10.6″ (270 mm)	14.2″ (360 mm)	14.2″ (360 mm)
Table top	17.3 × 14.2″ (440 × 360 mm)	24.8 × 15.7″ (630 × 400 mm)	26 × 15.7″ (660 × 400 mm)
Table swivel	±45° (optional)	±45° (optional)	±45° (optional)
Tool head travel, vertical	4.72″ (120 mm)	4.72″ (120 mm)	4.72″ (120 mm)
Tool head swivel	±60°	±60°	±60°
Tool shank, max.	0.787 × 1.18″ (20 × 30 mm)	0.787 × 1.18″ (20 × 30 mm)	0.787 × 1.18″ (20 × 30 mm)
Ram strokes per minute	14 – 80 per min	14 / 20 / 28 / 40 / 56 / 80 per min	14 / 20 / 28 / 40 / 56 / 80 per min
Table feed, horizontal	0.00787 – 0.00984″ (0.2 – 0.25 mm)	0.00787 – 0.0984″ (0.2 – 2.5 mm), 12 steps	0.00787 – 0.0984″ (0.2 – 2.5 mm), 12 steps
Table feed, vertical	0.00315 – 0.0394″ (0.08 – 1 mm)	0.00315 – 0.0394″ (0.08 – 1 mm), 12 steps	0.00315 – 0.0394″ (0.08 – 1 mm), 12 steps
Table T-slots	3 × 0.709″ (18 mm), 4.72″ (120 mm) apart	3 × 0.709″ (18 mm), 4.72″ (120 mm) apart	3 × 0.709″ (18 mm), 4.72″ (120 mm) apart
Main motor	4 HP (3 kW)	4 HP (3 kW)	4 HP (3 kW)
Overall size L × W × H	85 × 42 × 47″ (216 × 107 × 120 cm)	79 × 51 × 61″ (200 × 130 × 155 cm)	79 × 51 × 61″ (200 × 130 × 155 cm)
Weight	3,638 lb (1,650 kg)	3,858 lb (1,750 kg)	3,968 lb (1,800 kg)

BC6085

Shaper, 33.5″ stroke

Model	BC6085
Ram stroke, max.	33.5″ (850 mm)
Ram to table, max.	15.7″ (400 mm)
Table travel, horizontal	28″ (710 mm)
Table travel, vertical	14.2″ (360 mm)
Table top	31.5 × 17.7″ (800 × 450 mm)
Tool head travel, vertical	6.3″ (160 mm)
Tool head swivel	±60°
Tool shank, max.	0.787 × 1.18″ (20 × 30 mm)
Ram strokes per minute	17 / 24 / 35 / 50 / 70 / 100 per min
Table feed, horizontal / vertical	horizontal 0.00984 – 0.118″ (0.25 – 3 mm), vertical 0.00472 – 0.0591″ (0.12 – 1.5 mm), 12 steps each
Table T-slots	3 × 0.866″ (22 mm), 4.72″ (120 mm) apart
Main motor	7.5 HP (5.5 kW)
Overall size L × W × H	116 × 52 × 67″ (295 × 133 × 170 cm)
Weight	6,482 lb (2,940 kg)

TECHNICAL SPECIFICATIONS · 2 / 2

B635A · BC6050 – BC60100 METAL SHAPERS, 13.8 – 39.4″ STROKE

BC60100

Shaper, 39.4″ stroke

Model	BC60100
Ram stroke, max.	39.4″ (1,000 mm)
Ram to table, max.	15.7″ (400 mm)
Table travel, horizontal	31.5″ (800 mm)
Table travel, vertical	15″ (380 mm)
Table top	39.4 × 19.7″ (1,000 × 500 mm)
Tool head travel, vertical	6.3″ (160 mm)
Tool head swivel	±60°
Tool shank, max.	1.18 × 1.77″ (30 × 45 mm)
Ram strokes per minute	15 / 20 / 29 / 42 / 58 / 83 per min
Table feed, horizontal / vertical	horizontal 0.0118 – 0.118″ (0.3 – 3 mm) (10 steps), vertical 0.00591 – 0.0197″ (0.15 – 0.5 mm) (8 steps)
Table T-slots	3 × 0.866″ (22 mm), 4.72″ (120 mm) apart
Main motor	10 HP (7.5 kW)
Overall size L × W × H	143 × 62 × 70″ (364 × 158 × 178 cm)
Weight	10,736 lb (4,870 kg)

Metric values in brackets are the manufacturer's figures. Packing size is the shipping crate L × W × H; weight is the net weight of the machine unless the row says shipping weight. Where a model comes in several bed lengths, the lengths, crates and weights are listed in the same order. Specifications may change without notice; confirm the figures that matter for your work with NovoTech before ordering.

Custom voltage available: 208 V, 240 V, 480 V or 600 V 3-phase.

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NT NovoTech MACHINE TOOLS Inc.

Specifications subject to change without notice. Imperial values are converted from manufacturer metric data and rounded: thin sheet in gauge (ga), plate and capacities in common fractions (1/2, 1/4, 1/8, 1/16). Model numbers are manufacturer designations. Photos may show optional equipment. 7-day money-back guarantee on in-stock machines only; financing available.