

COMBINATION LATHES

ML SERIES

Milltronics ML Series combo lathes offer both manual and CNC operations for tool rooms and job shops. They can be configured with many options and other features such as bore sizes and bed lengths - including live tooling and C-axis (on most models).



INCLUDED AT NO EXTRA COST

STANDARD FEATURES

- ✓ Solid model graphic display
- ✓ DXF file import
- ✓ Networking
- ✓ 35 mm solid boxed ways technology
- ✓ Automatic lubrication
- ✓ Spindle load meter
- ✓ Flood coolant with enclosure
- ✓ Thread chasing feature (most models)
- ✓ 500 IPM rapid traverse rate
- ✓ LCD hour meter
- ✓ One year warranty
- ✓ 9000 Series Control

OPTIONS

- 10 or 14 in bore options for ML35 and ML40
- Live tooling option for ML22 and larger lathes
- Lift-up chip conveyor
- Additional tool holders
- Hydraulic quill for tailstock (most models)
- Bi-directional turning cycle
- Pneumatic 5C collet closer (ML16)
- Additional spare "M" functions
- Automatic tool turrets
- Tool posts
- Steady rest
- Follow rest
- Digital Setup Assistant
- Milltronics Shop View



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SPECIFICATIONS	ML16II/40	ML18II/60	ML22II/60	ML26II/40	ML26II/80	ML26II/120	ML26II/160
CAPACITY							
X/Z TRAVELS	11/44.5 in (280/1,130 mm)	12/63.5 in (300/1,600 mm)	13/63.5 in (330/1,600 mm)	13/42 in (330/1,066 mm)	13/84 in (330/2,130 mm)	13/124 in (330/3,150 mm)	13/163 in (330/4,140 mm)
SWING OVER BED	17 in (440 mm)	18.7 in (475 mm)	21.6 in (550 mm)	25.6 in (650 mm)	25.6 in (650 mm)	25.6 in (650 mm)	25.6 in (650 mm)
SWING OVER GAP	25.9 in (658 mm)	27.9 in (710 mm)	30.3 in (770 mm)	34.2 in (870 mm)	34.2 in (870 mm)	34.2 in (870 mm)	34.2 in (870 mm)
GAP DISTANCE	12.75 in (320 mm)	12.75 in (320 mm)	12.75 in (320 mm)	12.75 in (320 mm)	12.75 in (320 mm)	12.75 in (320 mm)	12.75 in (320 mm)
SWING OVER CROSS SLIDE	7.48 in (190 mm)	9.4 in (240 mm)	12.1 in (310 mm)	16.1 in (410 mm)	16.1 in (410 mm)	16.1 in (410 mm)	16.1 in (410 mm)
SPINDLE							
SPINDLE NOSE	A2-5	D1-6	A1-8	A1-8	A1-11	A2-11	A2-11
SPINDLE BORE	2.04 in (52 mm)	2.56 in (65 mm)	3.22 in (82 mm)	3.22 in (82 mm)	4.17 in (106 mm)	6 in (153 mm)	6 in (153 mm)
SPINDLE RANGE	100-4,000 RPM	100-2,600 RPM	40-2,000 RPM	40-2,000 RPM	30-1,600 RPM	30-1,600 RPM	30-1,600 RPM
AC SPINDLE MOTOR	15 HP (11 kW)	15 HP (11 kW)	24/15 HP (18/11 kW) 2-SPEED DELTA/WYE	24/15 HP (18/11 kW) 2-SPEED DELTA/WYE	24/15 HP (18/11 kW) 2-SPEED DELTA/WYE	24/15 HP (18/11 kW) 2-SPEED DELTA/WYE	24/15 HP (18/11 kW) 2-SPEED DELTA/WYE
SPINDLE TORQUE	108 ft-lbs (148 Nm)	225 ft-lbs (305 Nm)	620 ft-lbs (841 Nm)	775 ft-lbs (1,051 Nm)	775 ft-lbs (1,051 Nm)	775 ft-lbs (1,051 Nm)	775 ft-lbs (1,051 Nm)
TAILSTOCK							
TAILSTOCK QUILL TRAVEL	6 in (150 mm)	6 in (150 mm)	6 in (150 mm)	6 in (150 mm)	6 in (150 mm)	6 in (150 mm)	6 in (150 mm)
TAILSTOCK QUILL DIAMETER	2.55 in (65 mm)	3.15 in (80 mm)	3.94 in (100 mm)	3.94 in (100 mm)	3.94 in (100 mm)	3.94 in (100 mm)	3.94 in (100 mm)
TAILSTOCK QUILL TAPER	MT4	MT5	MT5	MT5	MT5	MT5	MT5
AUTOMATIC TURRET							
TOOL CAPACITY	8	8	8	8	8	8	8
TOOLING SIZE	.75 in (20 mm)	.75 in (20 mm)	1 in (25 mm)	1 in (25 mm)	1 in (25 mm)	1 in (25 mm)	1 in (25 mm)
BORING BAR CAPACITY	1.25 in (32 mm)	1.25 in (32 mm)	1.5 in (38 mm)	1.5 in (38 mm)	1.5 in (38 mm)	1.5 in (38 mm)	1.5 in (38 mm)
TOOL SELECTION	BI-DIRECTIONAL	BI-DIRECTIONAL	BI-DIRECTIONAL	BI-DIRECTIONAL	BI-DIRECTIONAL	BI-DIRECTIONAL	BI-DIRECTIONAL
FURTHER DETAILS							
X/Z RAPID TRAVERSE RATE	500 IPM (12.7 m/min)	500 IPM (12.7 m/min)	500 IPM (12.7 m/min)	500 IPM (12.7 m/min)	500 IPM (12.7 m/min)	500 IPM (12.7 m/min)	500 IPM (12.7 m/min)
MAXIMUM CUTTING FEED RATE	100 IPM (2,540 mm/min)	100 IPM (2,540 mm/min)	100 IPM (2,540 mm/min)	100 IPM (2,540 mm/min)	100 IPM (2,540 mm/min)	100 IPM (2,540 mm/min)	100 IPM (2,540 mm/min)
POSITIONING ACCURACY	+/- 0.00025 in (+/- 0.0063 mm)	+/- 0.00025 in (+/- 0.0063 mm)	+/- 0.00025 in (+/- 0.0063 mm)	+/- 0.00025 in (+/- 0.0063 mm)	+/- 0.00025 in (+/- 0.0063 mm)	+/- 0.00025 in (+/- 0.0063 mm)	+/- 0.00025 in (+/- 0.0063 mm)
REPEATABILITY	0.0002 in (0.005 mm)	0.0002 in (0.005 mm)	0.0002 in (0.005 mm)	0.0002 in (0.005 mm)	0.0002 in (0.005 mm)	0.0002 in (0.005 mm)	0.0002 in (0.005 mm)
AXIS THRUST FORCE X/Z	1,500 lbs (680 kg)	1,500 lbs (680 kg)	2,300 lbs (1,040 kg)	4,000 lbs (1,815 kg)	4,000 lbs (1,815 kg)	4,000 lbs (1,815 kg)	4,000 lbs (1,815 kg)
MACHINE HEIGHT	92 in (2,337 mm)	94 in (2,388 mm)	92.6 in (2,353 mm)	93.5 in (2,375 mm)	93.5 in (2,375 mm)	93.5 in (2,375 mm)	93.5 in (2,375 mm)
FOOTPRINT: MAXIMUM SERVICE SPACE - (WIDTH x DEPTH)	142 x 123.5 in (3,607 x 3,137 mm)	185.2 x 123.5 in (4,703 x 3,137 mm)	162.8 x 128.5 in (4,316 x 3,265 mm)	166.5 x 141.25 in (4,229 x 3,588 mm)	206.5 x 141.25 in (5,245 x 3,588 mm)	246.5 x 141.25 in (6,261 x 3,588 mm)	286.5 x 141.25 in (7,277 x 3,588 mm)
FOOTPRINT: NOMINAL OPERATING - (WIDTH x DEPTH)	125.3 x 84.3 in (3,182 x 2,141 mm)	145 x 84.4 in (3,682 x 2,145 mm)	149.2 x 100.5 in (3,790 x 2,553 mm)	129.5 x 100.5 in (3,290 x 2,553 mm)	168.9 x 100.5 in (4,290 x 2,553 mm)	208.3 x 100.5 in (5,290 x 2,553 mm)	247.6 x 100.5 in (6,290 x 2,553 mm)
MACHINE WEIGHT	6,000 lbs (2,730 kg)	8,500 lbs (3,850 kg)	10,000 lbs (4,500 kg)	9,500 lbs (4,300 kg)	11,500 lbs (5,200 kg)	13,200 lbs (6,000 kg)	17,200 lbs (7,800 kg)
POWER REQUIRED	19 KVA/47 Amps	24 KVA/60 Amps	18 KVA/43 Amps	20 KVA/48 Amps	20 KVA/48 Amps	21 KVA/51 Amps	21 KVA/51 Amps
VOLTAGE REQUIRED	208-240 Volts/ 3 Phase	208-240 Volts/ 3 Phase	208-240 Volts/ 3 Phase	208-240 Volts/ 3 Phase	208-240 Volts/ 3 Phase	208-240 Volts/ 3 Phase	208-240 Volts/ 3 Phase

COMBINATION LATHES

SPECIFICATIONS	ML35II/80	ML35II/120	ML35II/160	ML35II/200	ML35II/240
CAPACITY					
X/Z TRAVELS	19/87 in (480/2,210 mm)	19/120 in (480/3,000 mm)	19/160 in (480/4,000 mm)	19/200 in (480/5,000 mm)	19/240 in (480/6,000 mm)
SWING OVER BED	35 in (890 mm)	35 in (890 mm)	35 in (890 mm)	35 in (890 mm)	35 in (890 mm)
SWING OVER GAP	45 in (1,150 mm)	45 in (1,150 mm)	45 in (1,150 mm)	45 in (1,150 mm)	45 in (1,150 mm)
GAP DISTANCE	14.6 in (370 mm)	14.6 in (370 mm)	14.6 in (370 mm)	14.6 in (370 mm)	14.6 in (370 mm)
SWING OVER CROSS SLIDE	21.6 in (550 mm)	21.6 in (550 mm)	21.6 in (550 mm)	21.6 in (550 mm)	21.6 in (550 mm)
SPINDLE					
SPINDLE NOSE	A2-11	A2-11	A2-11	A2-11	A2-11
SPINDLE BORE	6.02 in (153 mm)	6.02 in (153 mm)	6.02 in (153 mm)	6.02 in (153 mm)	6.02 in (153 mm)
SPINDLE RANGE	10-900 RPM	10-900 RPM	10-900 RPM	10-900 RPM	10-900 RPM
AC SPINDLE MOTOR	35/25 HP (26/18 kW) 2-SPEED	35/25 HP (26/18 kW)	35/25 HP (26/18 kW)	35/25 HP (26/18 kW)	35/25 HP (26/18 kW)
SPINDLE TORQUE	1,850 ft-lbs (2,500 Nm)	1,850 ft-lbs (2,500 Nm)	1,850 ft-lbs (2,500 Nm)	1,850 ft-lbs (2,500 Nm)	1,850 ft-lbs (2,500 Nm)
TAILSTOCK					
TAILSTOCK QUILL TRAVEL	8 in (200 mm)	8 in (200 mm)	8 in (200 mm)	8 in (200 mm)	8 in (200 mm)
TAILSTOCK QUILL DIAMETER	4.92 in (125 mm)	4.92 in (125 mm)	4.92 in (125 mm)	4.92 in (125 mm)	4.92 in (125 mm)
TAILSTOCK QUILL TAPER	MT6	MT6	MT6	MT6	MT6
AUTOMATIC TURRET					
NUMBER OF TOOLS	8	8	8	8	8
TOOLING SIZE	1.5 in (38 mm)	1.5 in (38 mm)	1.5 in (38 mm)	1.5 in (38 mm)	1.5 in (38 mm)
BORING BAR CAPACITY	2 in (50 mm)	2 in (50 mm)	2 in (50 mm)	2 in (50 mm)	2 in (50 mm)
TOOL SELECTION	BI-DIRECTIONAL	BI-DIRECTIONAL	BI-DIRECTIONAL	BI-DIRECTIONAL	BI-DIRECTIONAL
FURTHER DETAILS					
X/Z RAPID TRAVERSE RATE	500 IPM (12.7 m/min)	500 IPM (12.7 m/min)	500 IPM (12.7 m/min)	500 IPM (12.7 m/min)	500 IPM (12.7 m/min)
MAXIMUM CUTTING FEED RATE	100 IPM (2,540 mm/min)	100 IPM (2,540 mm/min)	100 IPM (2,540 mm/min)	100 IPM (2,540 mm/min)	100 IPM (2,540 mm/min)
POSITIONING ACCURACY	+/- 0.00025 in (+/- 0.0063 mm)	+/- 0.00025 in (+/- 0.0063 mm)	+/- 0.00025 in (+/- 0.0063 mm)	+/- 0.00025 in (+/- 0.0063 mm)	+/- 0.00025 in (+/- 0.0063 mm)
REPEATABILITY	0.00039 in (0.010 mm)	0.00039 in (0.010 mm)	0.00039 in (0.010 mm)	0.00039 in (0.010 mm)	0.00039 in (0.010 mm)
AXIS THRUST FORCE X/Z	6,700 lbs (3,000 kg)	6,700 lbs (3,000 kg)	6,700 lbs (3,000 kg)	6,700 lbs (3,000 kg)	6,700 lbs (3,000 kg)
MACHINE HEIGHT	87.5 in (2,220 mm)	87.5 in (2,220 mm)	87.5 in (2,220 mm)	87.5 in (2,220 mm)	87.5 in (2,220 mm)
FOOTPRINT: MAXIMUM SERVICE SPACE - (WIDTH x DEPTH)	193 x 117.7 in (4,900 x 2,990 mm)	232 x 117.7 in (5,900 x 2,990 mm)	272 x 117.7 in (6,900 x 2,990 mm)	311 x 117.7 in (7,900 x 2,990 mm)	350 x 117.7 in (8,900 x 2,990 mm)
FOOTPRINT: NOMINAL OPERATING - (WIDTH x DEPTH)	193 x 103.5 in (4,900 x 2,630 mm)	232 x 103.5 in (5,900 x 2,630 mm)	272 x 103.5 in (6,900 x 2,630 mm)	311 x 103.5 in (7,900 x 2,630 mm)	350 x 103.5 in (8,900 x 2,630 mm)
MACHINE WEIGHT	23,000 lbs (10,500 kg)	25,200 lbs (11,500 kg)	27,400 lbs (12,500 kg)	29,600 lbs (13,500 kg)	31,800 lbs (14,500 kg)
POWER REQUIRED	40 KVA/100 Amps	40 KVA/100 Amps	40 KVA/100 Amps	50 KVA/125 Amps	50 KVA/125 Amps
VOLTAGE REQUIRED	208-240 Volts/ 3 Phase	208-240 Volts/ 3 Phase	208-240 Volts/ 3 Phase	208-240 Volts/ 3 Phase	208-240 Volts/ 3 Phase

SPECIFICATIONS	ML40II/80	ML40II/120	ML40II/160	ML40II/200	ML40II/240
CAPACITY					
X/Z TRAVELS	21/87 in (550/2,210 mm)	21/120 in (550/3,000 mm)	21/160 in (550/4,000 mm)	21/200 in (550/5,000 mm)	21/240 in (550/6,000 mm)
SWING OVER BED	40 in (1,020 mm)	40 in (1,020 mm)	40 in (1,020 mm)	40 in (1,020 mm)	40 in (1,020 mm)
SWING OVER GAP	50 in (1,280 mm)	50 in (1,280 mm)	50 in (1,280 mm)	50 in (1,280 mm)	50 in (1,280 mm)
GAP DISTANCE	14.6 in (370 mm)	14.6 in (370 mm)	14.6 in (370 mm)	14.6 in (370 mm)	14.6 in (370 mm)
SWING OVER CROSS SLIDE	26.7 in (680 mm)	26.7 in (680 mm)	26.7 in (680 mm)	26.7 in (680 mm)	26.7 in (680 mm)
SPINDLE					
SPINDLE NOSE	A2-11	A2-11	A2-11	A2-11	A2-11
SPINDLE BORE	6.02 in (153 mm)	6.02 in (153 mm)	6.02 in (153 mm)	6.02 in (153 mm)	6.02 in (153 mm)
SPINDLE RANGE	10-900 RPM	10-900 RPM	10-900 RPM	10-900 RPM	10-900 RPM
AC SPINDLE MOTOR	35/25 HP (26/18 kW)	35/25 HP (26/18 kW)	35/25 HP (26/18 kW)	35/25 HP (26/18 kW)	35/25 HP (26/18 kW)
SPINDLE TORQUE	1,850 ft-lbs (2,500 Nm)	1,850 ft-lbs (2,500 Nm)	1,850 ft-lbs (2,500 Nm)	1,850 ft-lbs (2,500 Nm)	1,850 ft-lbs (2,500 Nm)
TAILSTOCK					
TAILSTOCK QUILL TRAVEL	9 in (230 mm)	9 in (230 mm)	9 in (230 mm)	9 in (230 mm)	9 in (230 mm)
TAILSTOCK QUILL DIAMETER	4.92 in (125 mm)	4.92 in (125 mm)	4.92 in (125 mm)	4.92 in (125 mm)	4.92 in (125 mm)
TAILSTOCK QUILL TAPER	MT6	MT6	MT6	MT6	MT6
AUTOMATIC TURRET					
NUMBER OF TOOLS	8	8	8	8	8
TOOLING SIZE	1.5 in (38 mm)	1.5 in (38 mm)	1.5 in (38 mm)	1.5 in (38 mm)	1.5 in (38 mm)
BORING BAR CAPACITY	2 in (50 mm)	2 in (50 mm)	2 in (50 mm)	2 in (50 mm)	2 in (50 mm)
TOOL SELECTION	BI-DIRECTIONAL	BI-DIRECTIONAL	BI-DIRECTIONAL	BI-DIRECTIONAL	BI-DIRECTIONAL
FURTHER DETAILS					
X/Z RAPID TRAVERSE RATE	500 IPM (12.7 m/min)	500 IPM (12.7 m/min)	500 IPM (12.7 m/min)	500 IPM (12.7 m/min)	500 IPM (12.7 m/min)
MAXIMUM CUTTING FEED RATE	100 IPM (2,540 mm/min)	100 IPM (2,540 mm/min)	100 IPM (2,540 mm/min)	100 IPM (2,540 mm/min)	100 IPM (2,540 mm/min)
POSITIONING ACCURACY	+/- 0.00025 in (+/- 0.0063 mm)	+/- 0.00025 in (+/- 0.0063 mm)	+/- 0.00025 in (+/- 0.0063 mm)	+/- 0.00025 in (+/- 0.0063 mm)	+/- 0.00025 in (+/- 0.0063 mm)
REPEATABILITY	0.00039 in (0.010 mm)	0.00039 in (0.010 mm)	0.00039 in (0.010 mm)	0.00039 in (0.010 mm)	0.00039 in (0.010 mm)
AXIS THRUST FORCE X/Z	6,700 lbs (3,000 kg)	6,700 lbs (3,000 kg)	6,700 lbs (3,000 kg)	6,700 lbs (3,000 kg)	6,700 lbs (3,000 kg)
MACHINE HEIGHT	90 in (2,286 mm)	90 in (2,286 mm)	90 in (2,286 mm)	90 in (2,286 mm)	90 in (2,286 mm)
FOOTPRINT: MAXIMUM SERVICE SPACE - (WIDTH x DEPTH)	193 x 119 in (4,900 x 3,025 mm)	232 x 119 in (5,900 x 3,025 mm)	272 x 119 in (6,900 x 3,025 mm)	311 x 119 in (7,900 x 3,025 mm)	350 x 119 in (8,900 x 3,025 mm)
FOOTPRINT: NOMINAL OPERATING - (WIDTH x DEPTH)	193 x 110.2 in (4,900 x 2,800 mm)	232 x 110.2 in (5,900 x 2,800 mm)	272 x 110.2 in (6,900 x 2,800 mm)	311 x 110.2 in (7,900 x 2,800 mm)	350 x 110.2 in (8,900 x 2,800 mm)
MACHINE WEIGHT	24,500 lbs (11,000 kg)	26,700 lbs (12,000 kg)	28,900 lbs (13,000 kg)	31,100 lbs (14,000 kg)	33,300 lbs (15,000 kg)
POWER REQUIRED	40 KVA/100 Amps	40 KVA/100 Amps	40 KVA/100 Amps	50 KVA/125 Amps	50 KVA/125 Amps
VOLTAGE REQUIRED	208-240 Volts/ 3 Phase	208-240 Volts/ 3 Phase	208-240 Volts/ 3 Phase	208-240 Volts/ 3 Phase	208-240 Volts/ 3 Phase



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