

NeBEL

MTT-1308

MTT-1611



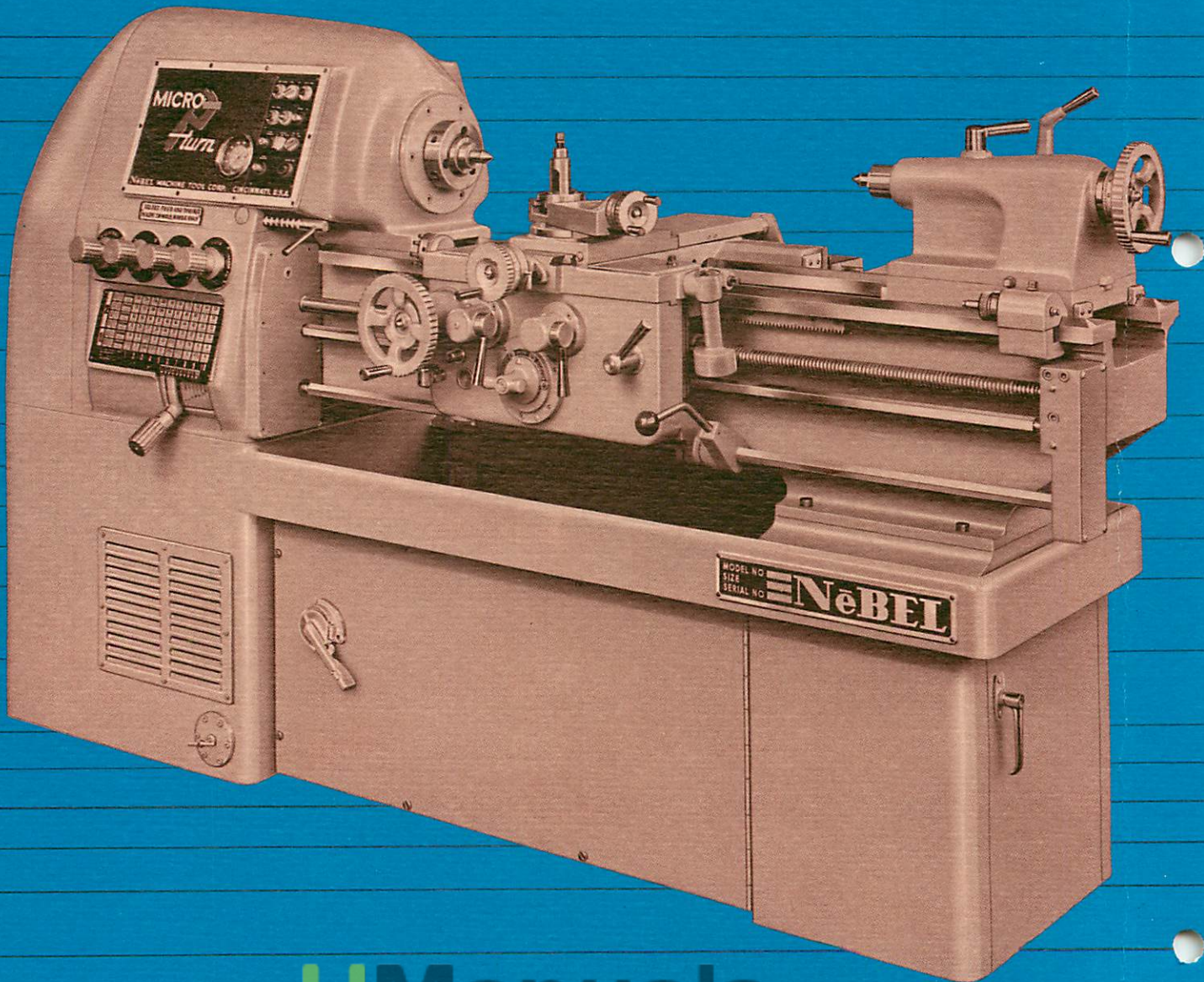
MICRO-TURN*

PRECISION LATHE



Nebel / MICRO-TURN

a completely new concept



MODEL NO. _____
SIZE _____
SERIAL NO. _____
Nebel

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END GEARING

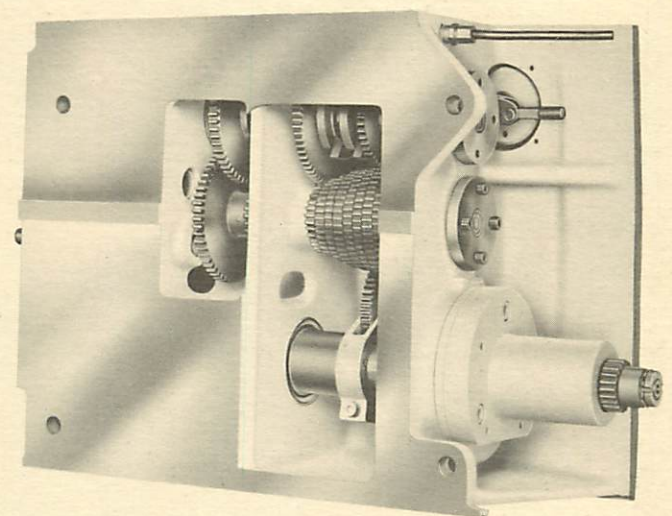
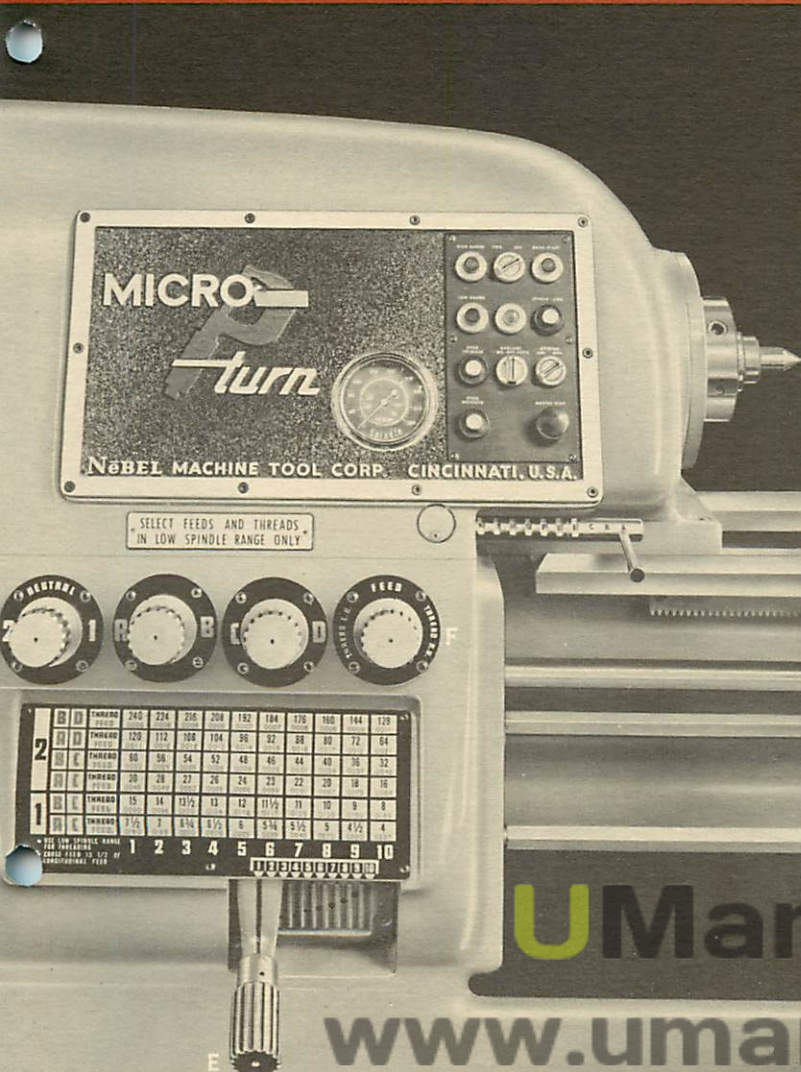
Power from the spindle to the gear box is obtained from the jack shaft through a positive gear drive to the totally enclosed, pressure-lubricated end gearing unit. All gears in this unit have shaved and hardened teeth to insure uniform wear when used in conjunction with the gear box for all feeding and threading operations. End-gear cover is easily removed to permit the quick changing of gears to obtain English or Metric threads.

ENGLISH FEEDS AND THREADS

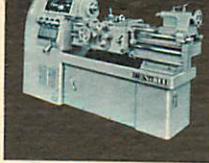
Thread	240	224	216	208	192	184	176	160	144	128
Feed	.0005	.0006	.0006	.0006	.0007	.0007	.0008	.0008	.0009	.0011
Thread	120	112	108	104	96	92	88	80	72	64
Feed	.0011	.0012	.0012	.0013	.0014	.0015	.0016	.0017	.0019	.0021
Thread	60	56	54	52	48	46	44	40	36	32
Feed	.0022	.0024	.0025	.0026	.0028	.0029	.0031	.0034	.0037	.0042
Thread	30	28	27	26	24	23	22	20	18	16
Feed	.0045	.0048	.0050	.0052	.0056	.0059	.0061	.0067	.0075	.0084
Thread	15	14	13½	13	12	11½	11	10	9	8
Feed	.0090	.0096	.0100	.0104	.0112	.0117	.0123	.0135	.0150	.0169
Thread	7½	7	6¾	6½	6	5¾	5½	5	4½	4
Feed	.0180	.0193	.0200	.0208	.0225	.0235	.0245	.0270	.0300	.0337

METRIC FEEDS AND THREADS

pitch MM	tumbler station	gear on stud A	gear on stud B	lever on
8.0	1	144	27	1-A-C
7.0	1	140	30	1-A-C
6.0	1	144	36	1-A-C
5.5	1	132	36	1-A-C
5.0	1	140	42	1-A-C
4.5	1	126	42	1-A-C
4.0	6	144	36	1-A-C
3.5	1	140	30	1-B-C
3.2	10	144	36	1-A-C
3.0	1	144	36	1-B-C
2.8	10	140	40	1-A-C
2.5	1	140	42	1-B-C
2.4	3	144	36	1-B-C
2.2	3	132	36	1-B-C
2.0	6	144	36	1-B-C
1.8	1	144	30	2-A-C
1.75	1	140	30	1-A-D
1.6	10	144	36	1-B-C
1.5	1	144	36	1-A-D
1.4	10	140	40	1-B-C
1.3	3	143	33	1-A-D
1.25	1	140	42	1-A-D
1.2	3	144	36	1-A-D
1.1	3	132	36	1-A-D
1.0	6	144	36	1-A-D
.90	1	144	30	2-B-C
.80	10	144	36	1-A-D
.75	1	144	36	1-B-D
.70	10	140	40	1-A-D
.60	3	144	36	2-B-C
.50	6	144	36	1-B-D
.45	1	144	30	2-A-D
.40	10	144	36	1-B-D
.375	1	144	36	2-A-D
.35	10	140	40	1-B-D
.325	3	143	33	2-A-D
.30	3	144	36	2-A-D
.275	3	132	36	2-A-D
.25	6	144	36	2-A-D
.225	1	144	30	2-B-D
.20	10	144	36	2-A-D



GEAR BOX—REAR VIEW



MT-1308 and MT-1611 specifications

	MT-1308	MT-1611		MT-1308	MT-1611
Capacity			Carriage		
Swing over bedways	13½"	16½"	Length on ways	18¾"	18¾"
Swing over carriage wings	13½"	16½"	Bearing surface, square inches	47½"	47½"
Swing over compound rest or cross slide	8"	11"	Cross slide, travel, with or without taper attachment	10"	10"
Swing over cross slide, with tracer	6"	9"	Compound rest travel	3¾"	3¾"
Distance between centers, base length	24"	24"	Bridge width	6¼"	6¼"
Center distance increase in increments	6"	6"	Lubrication, type	Pressure	Pressure
Size of tool	½" x 1⅛"	½" x 1⅛"	Feeds & Threads		
Steady rest capacity	½" to 5½"	½" to 5½"	Feed changes, number	60	60
Follow rest capacity	½" to 5½"	½" to 5½"	Feed range, standard	.0005"/.0337"	.0005"/.0337"
Face plate, small diameter	12"	15"	Feed range, optional	.001"/.0625"	.001"/.0625"
Driver plate	7½"	7½"	Thread changes, number	60	60
Headstock			Threads per inch, range	4-240	4-240
Spindle speeds	Infinitely variable	Infinitely variable	Leadscrew diameter	1"	1"
Spindle speed range	43/3500	43/3500	Leadscrew threads per inch	4	4
Spindle speed range, direct-belt drive	400-3500	400-3500	Metric threads	41	41
Spindle speed range, planetary drive	43-400	43-400	Metric thread range	.20-8.0 mm	.20-8.0 mm
Spindle bearings, number	3	3	Taper Attachment		
Journal diameters:			Maximum taper per foot (telescopic)	20° incl. or 4"	20° incl. or 4"
Front	2¾"	2¾"	Turns at one setting (telescopic)	14"	14"
Center	2¾"	2¾"	Tailstock		
Rear	1¾"	1¾"	Spindle diameter	2"	2"
Front spindle bearing:			Center, Morse No.	3	3
Outside diameter	4½"	4½"	Spindle travel	6"	6"
Radial load, 100 RPM, pounds	11,424	11,424	Spindle set over, right or left	1"	1"
Thrust load, 100 RPM, pounds	7,080	7,080	Length on ways	11¾"	11¾"
Center spindle bearing:			Main Drive Motor		
Outside diameter	3¾"	3¾"	Horsepower	5	5
Radial load, 100 RPM, pounds	2,870	2,870	R.P.M.	1800	1800
Rear spindle bearing:			Type Drive	Mechanical variator	Mechanical variator
Outside diameter	3½"	3½"	Weight and Dimension (Center distance 24")		
Radial load, 100 RPM, pounds	2,000	2,000	Net weight, pounds	2875	3164
Spindle, size of hole, straight	1½"	1½"	Domestic shipping weight, pounds	3275	3564
Spindle, size of tapered hole	#5	#5	Export shipping weight, pounds	3675	3967
Spindle-size of center, Morse No.	#3	#3	Net weight, pounds, each additional 6" length	75	100
Spindle nose—Camlock	4" D-1	5" D-1	Distance—spindle center to floor	41¾"	43¾"
Headstock length on bed	24¾"	24¾"	Floor space	35" x 83"	35" x 83"
Bed			Cubic feet—export	125.9	125.9
Length, base length (24")	68½"	68½"	Box dimensions	39" W x 93" L, x 60" H	39" W x 93" L, x 60" H
Length increases in increments of	6"	6"			
Width across ways	12"	12"			
Depth, standard bed, overall	10⅞"	10⅞"			
Depth, standard bed, thru center section	9⅞"	9⅞"			