



PRODUCTS

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TOPPER

HONOR

MILL-TAP MACHINES

30 taper machines | 30 taper with Automatic Pallet Change
40 taper machines | 40 taper with Automatic Pallet Change

The original 30 taper machining center which has been doing milling, drilling and tapping for the last 10 years. Others are just adding milling on their Drill-Tap machines.

30 taper machines

- Meehanite cast iron frame and linear slide ways for fast, precise movement
- Capability for primary milling as well as secondary drilling & tapping
- Rigid tapping standard
- Preloaded double anchored ball screws
- Direct coupled ball screw to servo
- Auger conveyor in center for excellent chip flow
- Arm type tool changer machine with coolant through spindle



TMV-510

	TMV-400	TMV-510II	TMV-510T	QTII
X Travel (in)	15.7	20.1	20.1	20.1
Y Travel (in)	9.8	14.2	14.2	14.2
Z Travel (in)	9.8	9.8	11.8	11.8
Spindle Motor (standard) (hp)	5.0	7.5	7.5	7.5
Max. Spindle Speed (rpm)	12000	12000	12000	15000
Coolant through spindle	NO	NO	YES	NO
X rapid traverse (ipm)	1417	1890	1890	1890
Y rapid traverse (ipm)	1417	1890	1890	1890
Z rapid traverse (ipm)	1181	1575	1575	1575
Positioning accuracy (in) (full travel)	0.0004	0.0004	0.0004	0.0004
Repeatability (in)	0.00012	0.00012	0.00012	0.00012
Max. number of tools	14	14	20	20
Chip to chip time (sec)	2.8	2.8	2	2
Type of Tool change	Armless	Armless	Double Arm	Double Arm
Machine weight (lbs)	3740	4400	5060	5060

30 taper with Automatic Pallet Change



- Meehanite cast iron frame and linear slide ways for fast, precise movement
- Capability for primary milling as well as secondary drilling & tapping
- Rigid tapping standard
- Preloaded double anchored ball screws
- Direct coupled ball screw to servo
- Auger conveyor in center for excellent chip flow
- Arm type tool changer machine with coolant through spindle
- Front mounted rotary APC
- Column traveling machine with APC for easier setup
- APC time (0-180°) 5 seconds
- Fully enclosed APC guard
- Optional hydraulic fixture control from center



TMV-510 + APC

	TMV-400 + APC	TMV-510II + APC	TMV-510T + APC	QTII + APC
X Travel (in)	15.7	20.1	20.1	20.1
Y Travel (in)	11.8	14.2	14.2	14.2
Z Travel (in)	11.8	11.8	11.8	11.8
Spindle Motor (standard) (hp)	5.0	7.5	7.5	7.5
Max. Spindle Speed (rpm)	12000	12000	12000	15000
Coolant through spindle	NO	NO	YES	NO
X rapid traverse (ipm)	1181	1575	1575	1575
Y rapid traverse (ipm)	1181	1575	1575	1575
Z rapid traverse (ipm)	1181	1575	1575	1575
Positioning accuracy (in) (full travel)	0.0004	0.0004	0.0004	0.0004
Repeatability (in)	0.00012	0.00012	0.00012	0.00012
Max. number of tools	14	14	20	20
Chip to chip time (sec)	2.8	2.8	2	2
Type of Tool change	Armless	Armless	Double Arm	Double Arm
Machine weight (lbs)	5500	9460	9460	9460

40 taper machines



- Meehanite cast iron frame and linear slide ways for fast, precise movement
- Preloaded double anchored ball screws
- Direct coupled ball screw to servo
- Rigid tapping standard
- Auger conveyor inside of bed for rear discharge
- 3 layer mechanical seal and air blow curtain design for front spindle bearing to prevent coolant contamination
- Reinforced pull stud mechanism
- Arm type tool changer machine with coolant through spindle



TMV-610A

	TMV-610A	QVM-610A
X Travel (in)	24.0	24.0
Y Travel (in)	16.1	16.1
Z Travel (in)	18.1	18.1
Spindle Motor (standard) (hp)	10	10
Max. Spindle Speed (rpm)	80 ~ 8000	80 ~ 8000
Coolant through spindle	NO	YES
X rapid traverse (ipm)	1417	1417
Y rapid traverse (ipm)	1417	1417
Z rapid traverse (ipm)	945	945
Positioning accuracy (in) (full travel)	0.0004	0.0004
Repeatability (in)	0.00008	0.00008
Max. number of tools	12	24
Chip to chip time (sec)	5	4.2
Type of Tool change	Armless	Arm
Machine weight (lbs)	7700	7700

40 taper with Automatic Pallet Change

- Meehanite cast iron frame and linear slide ways for fast, precise movement
- Preloaded double anchored ball screws
- Direct coupled ball screw to servo
- Rigid tapping standard
- Auger conveyor inside of bed for rear discharge
- 3 layer mechanical seal and air blow curtain design for front spindle bearing to prevent coolant contamination
- Reinforced pull stud mechanism
- Arm type tool changer machine with coolant through spindle
- Front mounted rotary APC
- Column traveling machine with APC for easier



setup

TMV-610A + APC

- APC time (0-180°) 5 seconds
- Fully enclosed APC guard
- Optional hydraulic fixture control from center

	TMV-610A + APC	QVM-610A + APC
X Travel (in)	24.0	24.0
Y Travel (in)	16.1	16.1
Z Travel (in)	18.1	18.1
Spindle Motor (standard) (hp)	10	10
Max. Spindle Speed (rpm)	80 ~ 8000	80 ~ 8000
Coolant through spindle	NO	YES
X rapid traverse (ipm)	945	1181
Y rapid traverse (ipm)	945	1181
Z rapid traverse (ipm)	945	1181
Positioning accuracy (in) (full travel)	0.0004	0.0004
Repeatability (in)	0.00015	0.00015
Max. number of tools	12	24
Chip to chip time (sec)	5	4.2
Type of Tool change	Armless	Arm
Machine weight (lbs)	11000	14300

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