

CLEVELAND

Manual Knee Mill Vari-Speed: CKV2



Specification

TABLE	9" x 49" (229mm x 1245mm)
X TRAVEL	36" (914mm)
Y TRAVEL	12" (305mm)
Z TRAVEL	16" (406mm)
QUILL TRAVEL	5" (127mm)
QUILL DIAMETER	3.38" (86mm)
RAM TRAVEL	12" (305mm)
SPINDLE NOSE TO TABLETOP	1.96" to 17.9" (50- 456mm)
TABLE LOAD CAPACITY	660 LBS (300KGS)
T-SLOT (3)	0.62" x 2.55"
SPINDLE TAPER	R8/NT30
SPINDLE SPEED	70 to 4200 rpm with Hi/Lo gears
TRANSMISSION SPINDLE-MOTOR	Timing belt
HEAD SWIVEL(RIGHT/LEFT)	±90°
HEAD TILTING ANGLE (UP/DOWN)	±45°
SPINDLE MOTOR/MAX POWER	3HP
COOLANT PUMP (OPTIONAL)	1/8 HP
LUBRICATION PUMP	One shot
FLOOR PLAN	64" x 75" x 85"
NET WEIGHT	2420LBS (1100KGS)
POWER REQUIREMENT	4 KVA 3 phase 208V-230V (Max)
TYPE OF OIL FOR OIL WAY	Mobil Vectra #2
AIR Requirement	With Opt. power draw bar 90-100 psi

HIGHLIGHT

1. Meehanite castings mainframe with annealed relieved for long term reliability.
2. X Y Z Hardened & ground with Turcite-B coating guide way
3. Mechanical Variable Speed Head 3HP spindle motor, R8 spindle taper.
4. 70-4,200rpm spindle speed with Hi/Lo Gears.
5. Precision APEC class 7 spindle bearing to ensure spindle run out within 0.0002inch.
6. C7 double nut precision acme lead screws for high accuracy and long lasting.
7. Chip rubber cover (Front & rear).
8. Built in LED Work Light.
9. One shot lubrication system.

Machine Standard

3HP Spindle Motor	LED Work Light	Way Cover	One Shoot Lubrication
Tools & Box	Operation Manual		

Machine Options

*Recommended

*PDB-MAX	Power Draw Bar-Maxi-Torque installed
*AL-500SX	Power Feed X-axis for ALIGN installed
AL-500SY	Power Feed Y-axis for ALIGN installed
AL-500SZ	Power Feed Z-axis for ALIGN installed
*E-KIT	Upgrade to Electronic Vari-Speed head KE2 with inverter
TC-2-1050	DRO System X & Y Axis (SINO)
C80-2-1050	DRO System X & Y Axis (NEWALL DP-700) installed
C80-3-1050	DRO System X & Y & Quill Axis (NEWALL DP-700) installed
C80-3-K	DRO System X & Y & Knee Axis (NEWALL DP-700) installed
COOL	Coolant System
CPKV	Chip Pan
ALUB	Auto Lubrication
RAA-R8	Right Angle Head (R8)
RAA-30	Right Angle Head (#30 taper)
RS6	Riser block 6" installed
RS8	Riser block 8" installed
PH-CON	Phase Converter 3 phase to single phase



Tools Options

R8 KIT RECOMMEND

CK-101	52pcs Clamping Kit
COL-R8-11	Collet R8 set -11 pcs
R8-APU-16	R8 Keyless Drill Chuck (1/8"~ 5/8")
WISE-6-TW	6" Angle Vise W/ Swivel Base

NT30 KIT RECOMMEND

CK-101	52pcs Clamping Kit
NT30-TOOL6	NT30 Tool Holder set (6 pcs.) 3/8, 1/2, 5/8, 3/4, 1", and Keyless drill chuck (6 pieces)
NT30ER32-10	NT30 ER32 Collet Set (10pcs.) 1/8, 1/4, 5/16, 3/8, 7/16, 1/2, 9/16, 5/8, + NT30 ER32 chuck*1 + Wrench*1
NT30ER40-17	NT30 ER40 Collet Set (17pcs.) 1/8, 3/16, 1/4, 5/16, 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 13/16, 7/8, 15/16, 1"+ NT30 ER40 chuck*1 + Wrench*1
WISE-6-TW	6" Angle Vise W/ Swivel Base

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Machine Photos



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