



## legendary since 1887



RKL1300-1500 high speed

RKL-1960V **RKL1900** 

high speed



### **HEAVY DUTY SPINDLE:**

Headstock spindle is machined from forged alloy steel then is hardened, ground and dynamically balanced. The spindle has three point high grade precision bearing support.

#### **ELECTRONIC VARIABLE SPEED HEADSTOCK**

Multiple gear ranges that supply a high torque all ranges. Electronic control panel that is mounted above the headstock provides a RPM LED display, ON-OFF power indicator light, speed control knob, emergency stop push button and spindle jogging push button. Electronic infinitely variable speed is controlled by an AC motor inverter. A I/4HP electric pump provides the headstock with forced pressure lubrication.

#### BED and BASE

One piece machine floor base is made of solid cast iron. The bed is made of meehanite casting that is vibration stress relieved. Bed ways are induction hardened with precision ground ways. Front mounted chip pan for easy removal of metal chips and debris. Proven 2V and flat solid bed design provides rigidity that assures accuracy and maximum stability. **RKL1300** 

### standard features

- 4-WAY TOOL POST
- ◆ STEADY REST-- ROLLER JAWS
- FOLLOW REST -- ROLLER JAWS
- TWO DEAD CENTERS
- ◆ SPINDLE CENTER SLEEVE
- TOOLS AND TOOL BOX
- OPERATION MANUAL
- LEVELING BLOCKS
- **→** TOUCH UP PAINT
- ◆ THREAD INDICATOR

- ◆ FACE PLATE
- SPLASH GUARD
- HALOGEN WORK LAMP
- SLIDE OUT CHIP PAN
- COOLANT SYSTEM & PUMP
- ◆ 2V BED
- ◆ BRAKE PADEL
- ◆ TAPER ATTACHMENT
- CHUCK SAFETY GUARD
- SAFETY DISCONNECT SWITCH

# optional accessories\*

- DIGITAL READOUT
- CHUCKS
- **COLLET CLOSER ATTACHMENT**
- COLLETS SETS
- QUICK CHANGE TOOLPOSTS
- MICRO BED CARRIAGE STOP
- TURRET TYPE CARRIAGE STOP
- DRIVING PLATE WITH DOG
- STANDARD AND CUSTOM CENTERS
- DRILL CHUCK KEYLESS AND ARBOR

**RKL2900** 

- TOOL POST GRINDER
- PNEUMATIC TAILSTOCK

high speed			heavy duty		
RKLI500	RKL1900	RKL2100	RKL2500		

SWING OVER BED	14.16"	16.14"	20"	22"	26"	30"
DISTANCE BETWEEN CENTERS	40" / 60"	40" / 60"	40" / 60"		58"-87"-106"-117"'-157"	
SWING OVER CROSS-SLIDE	8.4"	10.4"	13.9"	13.4"	17.5"	21.5"
SWING IN GAP	21"	23"	27.5"	31.4"	35.1"	40.0"
SPINDLE NOSE TO GAP (MAX)	6.5"	6.5"	9.0"	10.6"	10.6"	10.6"
CROSS SLIDE TRAVEL	8.6"	8.6"	10.7"	.0E 35s.	15.74"	
COMPOUND/TOP SLIDE TRAVEL	5.5"	5.5"	6.3"	499 00%	9.53"	
BED WIDTH	10"	10"	12"	ALT DA	16"	
SPINDLE NOSE	DI-6	DI-6	DI-6	44 144	DI-II	
SPINDLE BORE	2.1"	2.1"	3.2"	100 P. P. P. C. C.	4.1"	
TAPER INSIDE SPINDLE	MT 6	MT 6	MT6	Table 1979 Charles	MT 7	
MAX SPINDLE SPEED (RPM):	2500	2500	2200	- VI 107,400 II	1200	
INCH THREADS		(45) 2 to 72 TPI		TANK PARTIES	(44) 2 to 72 TPI	
METRIC THREADS		(39) 0.2 to 14 MM			(39) 0.2 to 14 MM	
Modular Threads		(18) 0.3 to 3.5			(24) 0.2 to 3.5	
DIAMETRAL THREADS		(21) 8 to 44		LOW HOLE	(24) 8 to 48	
LONGITUDINAL FEED		0.002 to 0.067 IPR			0.0014 to 0.0408 IPR	
CROSS FEED		0.001 to 0.034 IPR			0.0007 to 0.0204 IPR	
Number of Feed Selections		45		1000 - 1000	44	
LEAD SCREW	1.13"	1.13"	1.25"		1.75"	
QUILL DIAMETER	2.1"	2.1"	2.3"	The same of	3.1"	
QUILL TRAVEL	6.0"	6.0"	5.0"	· · · · · · · · · · · · · · · · · · ·	9.9"	
QUILL INSIDE TAPER	MT 4	MT 4	MT 4		MT 5	
SPINDLE MOTOR/INVERTER	5HP	7.5HP	7.5HP		ISHP	
VOLTAGE	230V/60hz/3PH*	230V/60hz/3PH*	480V/60hz/3PH*	480V/60hz/3PH*	480V/60hz/3PH*	480V/60hz/3PH*
COOLANT MOTOR	I/8 HP	I/8 HP	I/8 HP	I/8 HP	I/8 HP	I/8 HP
APPROXIMATE NET WEIGHT (LBS)	3200	3,860	4,500	6500/7000/7200/7500/8300	6700/7200/7500/7700/8500	7100/7500/7900/8200
FOOTPRINT	38" X 85"	38" X 85"/106"	45" X 91"/112"		50" X 91"/114"/146"/177"/216"	
	DISTANCE BETWEEN CENTERS SWING OVER CROSS-SLIDE SWING IN GAP SPINDLE NOSE TO GAP (MAX) CROSS SLIDE TRAVEL COMPOUND/TOP SLIDE TRAVEL BED WIDTH  SPINDLE NOSE SPINDLE BORE TAPER INSIDE SPINDLE MAX SPINDLE SPEED (RPM):  INCH THREADS METRIC THREADS MODULAR THREADS DIAMETRAL THREADS LONGITUDINAL FEED CROSS FEED NUMBER OF FEED SELECTIONS LEAD SCREW  QUILL DIAMETER QUILL TRAVEL QUILL INSIDE TAPER  SPINDLE MOTOR/INVERTER VOLTAGE COOLANT MOTOR  APPROXIMATE NET WEIGHT (LBS)	DISTANCE BETWEEN CENTERS  SWING OVER CROSS-SLIDE  SWING IN GAP  SPINDLE NOSE TO GAP (MAX)  CROSS SLIDE TRAVEL  EDWIDTH  SPINDLE NOSE  SPINDLE NOSE  SPINDLE BORE  TAPER INSIDE SPINDLE  MAX SPINDLE SPEED (RPM):  DIAMETRAL THREADS  MODULAR THREADS  DIAMETRAL THREADS  LONGITUDINAL FEED  CROSS FEED  NUMBER OF FEED SELECTIONS  LEAD SCREW  LOUILL DIAMETER  QUILL DIAMETER  QUILL INSIDE TAPER  MT 4  SPINDLE MOTOR/INVERTER  VOLTAGE  COOLANT MOTOR  APPROXIMATE NET WEIGHT (LBS)  3200	DISTANCE BETWEEN CENTERS   40" / 60"   40" / 60"   SWING OVER CROSS-SLIDE   8.4"   10.4"   23"   23"   SPINDLE NOSE TO GAP (MAX)   6.5"   6.5"   6.5"   CROSS SLIDE TRAVEL   8.6"   8.6"   8.6"   COMPOUND/TOP SLIDE TRAVEL   5.5"   5.5"   BED WIDTH   10"   10"   10"   10"   SPINDLE NOSE   D1-6   D1-6   SPINDLE BORE   2.1"	DISTANCE BETWEEN CENTERS   40" / 60"   40" / 60"   40" / 60"   5WING OVER CROSS-SLIDE   8.4"   10.4"   13.9"   5WING IN GAP   21"   23"   27.5"   5PINDLE NOSE TO GAP (MAX)   6.5"   6.5"   9.0"   6.5"   6.5"   9.0"   6.3"   5.5"   5.5"   6.3"   5.5"   5.5"   6.3"   5.5"   6.3"   5.5"   5.5"   6.3"   5.5"   5.5"   6.3"   5.5"   5.5"   6.3"   6.3"   5.5"   5.5"   6.3"   5.5"   5.5"   6.3"   5.5"   5.5"   6.3"   5.5"   5.5"   6.3"   5.5"   5.5"   6.3"   5.5"   5.5"   6.3"   5.5"   5.5"   6.3"   5.5"   5.5"   6.3"   5.5"   5.5"   6.3"   5.5"   5.5"   6.3"   5.5"   5.5"   5.5"   6.3"   5.5"   5.5"   5.5"   6.3"   5.5"   5.5"   5.5"   5.5"   5.5"   6.3"   5.5"   5.5"   5.5"   6.3"   5.5"   5.5"   5.5"   6.3"   5.5"   5	DISTANCE BETWEEN CENTERS	DISTANCE BETWEEN CENTERS   40" / 60"   40" / 60"   40" / 60"   13.9"   13.4"   17.5"   5WING OVER CROSS-SLIDE   8.4"   10.4"   13.9"   13.4"   17.5"   31.4"   35.1"   35.1"   35.1"   35.1"   35.1"   31.4"   35.1"