

Data Sheet

KENT USA KLR-300 CNC Horizontal Turning Center



OUTSTANDING FEATURES:

High power spindle motor
Large bar capacity
Large maximum turning diameter
High speed / high accuracy heavy duty 12 station turret
Fully enclosed way covers and enclosure
Induction hardened and precision ground box ways
Certified Meehanite machine casting for superior dampening and stability
High grade C3 precision ball screws and pretension for enhanced precision
Auto lubrication system metered check valves and piston distributor
Programmable tail stock body and quill

GENERAL SPECIFICATIONS:

Specifications \ Model:	KLR-300
Controller type	Fanuc Oi-T
Swing over bed	612 mm (24.1")
Swing over saddle	388 mm (15.3")
Maximum turning diameter	500 mm (19.7")
Maximum turning length	700 mm (27.6")
Bed slant angle	30°
Guide ways	Box ways
Spindle nose taper	A2-8
Spindle hole diameter	86 mm (3.38")
Power chuck diameter	250 mm (10")
Spindle speed	3500 rpm
Spindle motor power (cont/30min)	15/18.5 Kw (20/25 hp)
Bar capacity	75 mm (2.95")
Z-axis travel	750 mm (29.5")
X-axis travel	250+50 mm (9.8+1.9")
Z-axis rapid feed rate	24 m/min (944 in/min)
X-axis rapid feed rate	20 m/min (787 in/min)
Turret driven type	Hydraulic
Number of tool stations	12
Square shank tooling size	25 mm or 1"
Round shank tooling size	40 mm or 1.5"
Tail stock body travel	540 mm (21.2")
Quill travel	120 mm (4.72")
Quill diameter	85 mm (3.34")
Quill taper	MT-5
Quill control type	Hydraulic
Tail stock body positioning	Programmable
Floor space	3.0 x 1.8 m (119"x71")
Height	1.8 m (71")
Weight	5500 kg (12,130 lb)

STANDARD EQUIPMENT & ACCESSORIES:

Fanuc Oi-T CNC control with 8.4" color LCD
Fanuc i-Series high torque spindle and axis motor with digital drive system
Fanuc Absolute Encoders – machine axis start up "Home" sequence not required
Fanuc Auto-Measure System (X and Z)
Fanuc Macro-B and High Speed Skip Function
Fanuc USB, PCMCIA, Ethernet and RS-232 ports
Fanuc Manual Guide Oi – computer assist programming
Fanuc 400 registered part program numbers and 640M part program memory
Swivel-Out control panel
Heat exchanger for electrical cabinet
Hydraulic power supply unit
Flood coolant system (4 bar)
Chain type chip conveyor and chip cart
Full enclosure and way covers
Automatic lubrication system
3 color stack indicator light
12 station heavy duty high precision turret
Programmable tail stock body and quill
Standard soft jaws 3 sets + hard jaws 1 set
Induction hardened and precision ground box ways
30° slant bed with one piece Meehanite® casting
C-3 grade high precision ball screws
Facing tool holder (R/H) 25x25 mm 1 set
Facing tool holder (L/H) 25x25 mm 1 set
Boring bar holder ø40 mm 3 sets with 10/12/16/20/25/32 mm sockets
U-drill holder ø40 mm 1 set with 20/25/32 mm sockets
Drilling socket ø40 mm 1 set MT 1/2/3
Operator and Maintenance/Parts manuals

KENT USA KLR-300 CNC Horizontal Turning Center (ASK TO YOUR SALES MAN)

Standard equipment and accessories
Fanuc Oi-T cnc control with 8.4" color LCD
10" 3-jaw hydraulic chuck with 75 mm bar capacity
12 station hydraulic turret and coolant system
Programmable tail stock body and quill
Chain type chip conveyor and chip cart

OPTIONS AND ACCESSORIES *(ASK TO YOUR SALES MAN)*

Upgrade spindle nose taper from A2-8 to A2-11
Upgrade chuck diameter from 10" to (12" or 15")
Upgrade spindle motor from 15/18.5 kW to 18.5/22 kW
Upgrade bar capacity from 75 mm to (90/105 mm)
Upgrade maximum turning length from 700 mm to (1200/1640/2200/3000 mm)
Upgrade to powered (live tools) turret APT-40
Bar feeder (various sizes available base on application)
Bar feeder interface (required for bar feeder option)
Upgrade to Fanuc 10.4" color LCD with Manual Guide i
Renishaw HPRA tool setter
Renishaw HPPA tool setter
Oil mist collector
Oil coolant skimmer
Air conditioner for electrical cabinet
Transformer (440-460-480 to 220 volt)
On-site start up installation assistance