

- RC80 Tube Cutoff Lathe Specifications -

HAUTAU

Method of Cutoff	The tube is held stationary during cutoff by two lathe chucks.
	The rotating-headstock cuts the tube, then chamfers both ends, inside and out.
	Use carbide inserts for thick-wall or cutoff discs and sizing rollers for thin-wall
Maximum Diameter	9.1"
Minimum Diameter	3.5" Cutoff & OD chamfer: 1.25"
Maximum Tube Wall Minimum Tube Wall	Cutoff & OD chamfer: 1.25" Cutoff & OD/ID chamfer: .70"
	@ 8" diameter:
	@ 3.5" diameter: .065"
Minimum Tube ID	Depends on tube O.D. and wall thickness
Chamfer Angles	17.5°, 27.5°, 40°, 45° (using single ISO-standard inserts)
	15°, 20°, and 30° and custom angles (using tandem ISO-standard inserts)
	Custom ground inserts for radius or dual-angle chamfers
Maximum OD Chamfer Depth	.250" (depends on tool size, angle, measurement method)
	Two-step chamfer sequence can be used for deeper chamfers
Maximum ID Chamfer Depth	Approx .150" (depends on tool size, angle, measurement method)
Tube Feeder	
Feeder Stroke	30" standard, up to 60" optional
Feeder Drive	Servo-solenoid valve, hydraulic cylinder, linear encoder feedback
Advance Speed	25"/second (max.)
Cut Lengths	.75" min., 480" max.
	Up to three cut lengths per tube.
Trim and Face Cuts	Random lengths are automatically measured and optimized. .75" min. trim cut, 28" max. trim cut, within ±.015"
Trim and Face Cuts	End-face and chamfer without trim (add ±.005")
Squareness of Cut	.001" T.I.R. per 1.0" of tube diameter
Cut Length Repeatability	Up to 30": ±.005" Up to 90": ±.012"
out congin repeatability	Up to 60": ±.008" Up to 120": ±.015"
Electrical Controls	
Service requirements	480VAC 3Ø @ 100A (average load: 22kW)
Headstock Drive	Baldor [®] 30HP Energy-Efficient, invertor-duty, ODP, 450 max. headstock RPM
Control System	Allen-Bradley [©] ControlLogix ^{®,} CF Memory card, Ethernet/IP
	Rack-mounted, closed-loop servo motion control modules
	Allen-Bradley [©] PanelViewPlus [®] ColorTouch screen
	Allen-Bradley [®] PowerFlex [®] variable-frequency headstock drive
	Integrated cabinet (requires no added floor-space)
Control Options	Constant surface speed headstock control
	Allen-Bradley [©] Dial-Up Modem or Paging Modem VersaView [®] ColorTouch screen with imbedded Windows CE
	Cabinet cooling
Hydraulic System	
Hydraulic Pump	Bosch [®] 26 GPM Whisper Pump [®] , pressure-comp. vane, 3000 PSI rated
Pump Motor	Baldor [®] 20HP Energy-Efficient, ODP
Hydraulic Valving	
	Bosch-Revroth [®] servo and directional valves. Hydac [®] accumulator
	Bosch-Rexroth [®] servo and directional valves, Hydac [®] accumulator Hydac [®] 10u pressure, 10u return, 10u case drain
Hydraulic Filtration	Hydac [®] 10µ pressure, 10µ return, 10µ case drain
	Hydac [®] 10μ pressure, 10μ return, 10μ case drain Standard: Water-to-oil heat exchanger, 1-4 GPM at 30 PSI appx.
Hydraulic Filtration	Hydac [®] 10µ pressure, 10µ return, 10µ case drain Standard: Water-to-oil heat exchanger, 1-4 GPM at 30 PSI appx. Optional: Oil-Air [®] integrated pump/cooler/filter system with 12 GPM circulating pump
Hydraulic Filtration Hydraulic Cooling	Hydac [®] 10μ pressure, 10μ return, 10μ case drain Standard: Water-to-oil heat exchanger, 1-4 GPM at 30 PSI appx.
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Hydraulic Filtration Hydraulic Cooling Tube Loader Bundle Lift Tube Lift	Hydac [®] 10µ pressure, 10µ return, 10µ case drain Standard: Water-to-oil heat exchanger, 1-4 GPM at 30 PSI appx. Optional: Oil-Air [®] integrated pump/cooler/filter system with 12 GPM circulating pump 1 HP Baldor [®] motor. Hydraulic drive, #120 flat-link chains, 12,000 lbs. bundle capacity Hydraulic drive, urethane V-rolls, 2,000 lbs. tube capacity
Hydraulic Filtration Hydraulic Cooling Tube Loader Bundle Lift	Hydac [®] 10µ pressure, 10µ return, 10µ case drain Standard: Water-to-oil heat exchanger, 1-4 GPM at 30 PSI appx. Optional: Oil-Air [®] integrated pump/cooler/filter system with 12 GPM circulating pump 1 HP Baldor [®] motor. Hydraulic drive, #120 flat-link chains, 12,000 lbs. bundle capacity Hydraulic drive, urethane V-rolls, 2,000 lbs. tube capacity 24' standard, 40' optional, 120" min.
Hydraulic Filtration Hydraulic Cooling Tube Loader Bundle Lift Tube Lift Auto-Load Length Hand-Load Length	Hydac [®] 10µ pressure, 10µ return, 10µ case drain Standard: Water-to-oil heat exchanger, 1-4 GPM at 30 PSI appx. Optional: Oil-Air [®] integrated pump/cooler/filter system with 12 GPM circulating pump 1 HP Baldor [®] motor. Hydraulic drive, #120 flat-link chains, 12,000 lbs. bundle capacity Hydraulic drive, urethane V-rolls, 2,000 lbs. tube capacity 24' standard, 40' optional, 120" min. 14" min.
Hydraulic Filtration Hydraulic Cooling Tube Loader Bundle Lift Tube Lift Auto-Load Length Hand-Load Length Short Remnant Handling	Hydac [®] 10µ pressure, 10µ return, 10µ case drain Standard: Water-to-oil heat exchanger, 1-4 GPM at 30 PSI appx. Optional: Oil-Air [®] integrated pump/cooler/filter system with 12 GPM circulating pump 1 HP Baldor [®] motor. Hydraulic drive, #120 flat-link chains, 12,000 lbs. bundle capacity Hydraulic drive, urethane V-rolls, 2,000 lbs. tube capacity 24' standard, 40' optional, 120" min. 14" min. 2" (min.) thru 6", released into chip conveyor (bin) or into front conveyor (bin)
Hydraulic Filtration Hydraulic Cooling Tube Loader Bundle Lift Tube Lift Auto-Load Length Hand-Load Length	Hydac [®] 10µ pressure, 10µ return, 10µ case drain Standard: Water-to-oil heat exchanger, 1-4 GPM at 30 PSI appx. Optional: Oil-Air [®] integrated pump/cooler/filter system with 12 GPM circulating pump 1 HP Baldor [®] motor. Hydraulic drive, #120 flat-link chains, 12,000 lbs. bundle capacity Hydraulic drive, urethane V-rolls, 2,000 lbs. tube capacity 24' standard, 40' optional, 120" min. 14" min.

- RC80 Rotating-Head Cut-Off Lathes are compatible with our strap loaders, chain loaders and indexing conveyors.