

RH Flex Cutoff Machine Specifications

			RH-500	RH-700	RH-900	RH-1100	RH-1300	RH-1600	
MATERIAL TO BE PROCESSED									
Maximum Outside Diameter	inch/mm		5.00 / 127.0	7.00 / 177.8	9.00 / 228.6	11.00 / 279.4	13.00 / 330.2	16.00 / 406.4	
Minimum Outside Diameter	inch/mm		0.75 / 19.0	1.00 / 25.4	2.50 / 63.5	3.00 / 76.2	3.00 / 76.2	6.00 / 152.4	
Maximum Wall Thickness	inch/mm		1.00 / 25.4	1.00 / 25.4	1.25 / 31.7	1.25 / 31.7	1.25 / 31.7	1.25 / 31.7	
Minimum Wall Thickness	inch/mm		0.06 / 1.52	0.06 / 1.52	0.06 / 1.52	0.09 / 2.36	0.09 / 2.36	0.09 / 2.36	
FINISHED PART									
Minimum Part Length	inch/mm		2.25 / 57.1*	2.25 / 57.1*	2.25 / 57.1*	2.25 / 57.1*	2.25 / 57.1*	2.25 / 57.1*	
Maximum Part Length			Unloader Length Dependent On Customer Specification						
MACHINE FEATURES									
Cut-Off Slides (Std)			4 Slides Synchronized						
Slide Travel - Per Slide	inch/mm		3.50 / 88.9	4.50 / 114.3	5.0 / 127.0	6.00 / 152.4	6.00 / 152.4	6.00 / 152.4	
Machine Control			Fanuc 35iB						
Air Conditioner - Electrical Enclosure			4000 BTU						
Spindle Drive System			Fanuc A22			Fanuc A40			
Spindle Horsepower			30 hp / 22 kw Continuous (60 min Rating)			50 hp / 36 kw Continuous (60 min Rating)			
Spindle Speed Range	rev/min		10-1000	10-1000	10-750	10-500	10-400	10-300	
Mist Coolant - Cutting Tool Lubrication System			AMCOL Model 6000						
Central Lubrication System			<ul style="list-style-type: none"> • Bijur "Surefire" • Feed Chuck • Head Chuck • 7 1/2 hp 20 gpm @ 1000 psi • 30 Gal Capacity • Mobil DTE 24 Recommended 						
Hydraulic System									
DRIVE SPECIFICATIONS									
X-Axis - Slide Control			FANUC Beta 8/3000HVis AC Digital Servo						
Controls feeding and positioning of cut-off blades OD & ID chamfer tools, and boring tools			Belt Driven Rack and Pinion via Servo Driven Synchronous Oil Cooled Feedbox 9.5 gpm 15,000 btu/hr Cooling Capacity						
ZA-Axis - Feed Chuck			FANUC Beta 8/3000HVis AC Digital Servo						
Controls movement for O.D. & I.D. chamfering and boring			Driven via Rack and Pinion						
ZB-Axis - Head Chuck			FANUC Beta 8/3000HVis AC Digital Servo						
Controls movement for O.D. & I.D. chamfering and boring			Driven via Rack and Pinion						
ZC-Axis - Feed Vise			FANUC Beta 8/3000HVis AC Digital Servo						
Controls movement of incoming tube and finished part length			Driven via Rack and Pinion						
Feed Rate - Maximum	X-Axis	in/min / mm/min	118 / 3000	118 / 3000	118 / 3000	118 / 3000	118 / 3000	118 / 3000	
	ZA-Axis	in/min / mm/min	118 / 3000	118 / 3000	118 / 3000	118 / 3000	118 / 3000	118 / 3000	
	ZB-Axis	in/min / mm/min	118 / 3000	118 / 3000	118 / 3000	118 / 3000	118 / 3000	118 / 3000	
Rapid Rate - Maximum	X-Axis	in/min / mm/min	400 / 10160	400 / 10160	400 / 10160	400 / 10160	400 / 10160	400 / 10160	
	ZA-Axis	in/min / mm/min	800 / 20320	800 / 20320	800 / 20320	800 / 20320	800 / 20320	800 / 20320	
	ZB-Axis	in/min / mm/min	800 / 20320	800 / 20320	800 / 20320	800 / 20320	800 / 20320	800 / 20320	
	ZC-Axis	in/min / mm/min	800 / 20320	800 / 20320	800 / 20320	800 / 20320	800 / 20320	800 / 20320	
Thrust - Maximum	X-Axis @ 0 rpms	lb/kg	6000 / 2722	6000 / 2722	6000 / 2722	6000 / 2722	6000 / 2722	6000 / 2722	
	X-Axis @ Max rpms	lb/kg	2500 / 1134	2500 / 1134	2500 / 1134	2500 / 1134	2500 / 1134	2500 / 1134	
	ZA-Axis	lb/kg	1424 / 646	1424 / 646	1424 / 646	1424 / 646	1424 / 646	1424 / 646	
	ZB-Axis	lb/kg	1424 / 646	1424 / 646	1424 / 646	1424 / 646	1424 / 646	1424 / 646	
	ZC-Axis	lb/kg	520 / 236	520 / 236	520 / 236	520 / 236	1040 / 472	1040 / 472	
MACHINE WORKHOLDING									
Feed Chuck			<ul style="list-style-type: none"> • Heavy Duty 6-Jaw Gear Scroll Chuck • Hydraulic Motor Actuation • Full Range Capacity • Linear Transducer Feedback • Automatic Lubrication 						
Head Chuck			<ul style="list-style-type: none"> • Heavy Duty 6-Jaw Gear Scroll Chuck • Hydraulic Motor Actuation • Full Range Capacity • Linear Transducer Feedback • Automatic Lubrication 						
Feed Vise			<ul style="list-style-type: none"> • Pneumatically/Hydraulically Actuated • Full Range capacity 						
TUBE LOADING SYSTEM - Std 24 ft									
Incoming Material Maximum Length	ft/m		50 / 15.2 Consult Factory for longer lengths.						
Incoming Material Minimum Length	ft/m		10 / 3						
Maximum Material Weight per Length	lb/ft / kg/m		85 / 126.7	85 / 126.7	85 / 126.7	110 / 163.9	130 / 193.7	160 / 238.4	
Inlet Skid Width	in/mm		50 / 1270						
Tube Support			Servo Height Adjusted Vee Rolls for Tube O.D. Change Over						
ELECTRICAL POWER & CAPACITIES									
Electrical Power			460 vac, 3 phase, 60 hz, 50 kva			460 vac, 3 phase, 60 hz, 67 kva			
Main Breaker			100 amp	100 amp	100 amp	150 amp	150 amp	150 amp	
Pneumatic Requirements			6 scfm @ 80 psi			8 scfm @ 80 psi			
Hydraulic Reservoir Capacity	Gal/L		30 / 114						
Mist Coolant System Capacity	Gal/L		2.5 / 9.5						
Central Lubrication System Capacity	Gal/L		0.5 / 1.9						
SIZE & WEIGHT, 24' Loader, 10' Unloader									
Machine Height	in/mm		100 / 2540				102.0 / 2598		
Floor Space Requirements (Width x Length)	in/mm		612 x 186 / 15545 x 4725				consult factory		
Machine Weight (Heaviest piece)	lb/kg		22,800 / 10,342	23,000 / 10,433	23,500 / 10,660	consult factory			

*With special jaws and machine setup, shorter lengths are possible.

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