

Radial Tubular Forming Tool (RTF™)

Volant RTF tools are designed for both crimping and swaging operations. These tools use a hydraulic actuated piston and collet system to induce a radial compressive load that reduces the diameter of tubular product to create either a crimp or an end swage. Collet sets are designed for optimal performance and are specific to the tubular size and application.

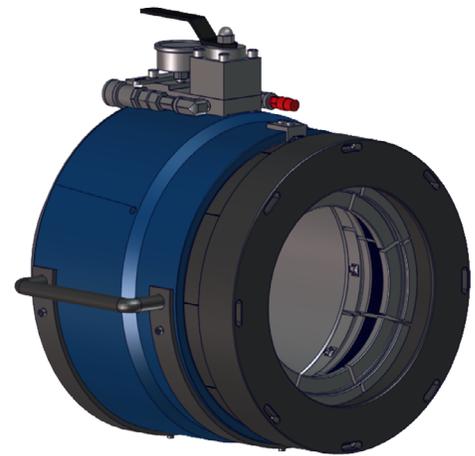
The RTF's simple architecture, result in a solid and robust tool that is portable and easy to handle; ideal for use in the field or a shop environment. For applications that may require a tight crimp or swage tolerance, a fine adjustment mechanism enables precise control of the final crimp or swage diameter.

Tool Model: RTF-9.63 Specification Summary

Tool configured for 9.63" swaging

Base Tool Characteristics

Housing OD	in (mm)	16.5 (420)
Overall Length ⁵	in (mm)	16.9 (430)
Base Tool Weight	lbs (kg)	400 (182)
Diametrical Stroke	in (mm)	0.375 (9.55)
Maximum Radial Force ¹	lbf (kN)	2,500,000 (11,100)
Piston Bore Diameter	in (mm)	11.0 (280)
Maximum Pressure Capacity	psi (MPa)	10,000 (68.9)
Base Tool PN		80438



Collet Size Specific Characteristics²

Nominal Collet Size ³		Collet Style	Collet Part No.	Bell Part No.	Approximate Dressed Tool Weight	
(in)	(mm)				(lbs)	(kg)
10.75	273.1	Crimp	80510	80509	535	243
9.88	250.9	Crimp	82078	80780	445	202
9.63	244.6	Crimp	80062	80780	480	218
8.63	219.2	Crimp	80186	80780	490	223
7.63	193.8	Crimp	80070	80780	500	227
7.0	177.8	Crimp	80063	80780	520	236
5.5	139.7	Crimp	82503	80780	530	241
5.0	127.0	Crimp	82504	81979	540	245
5.0	127.0	Crimp	83158	80780	560	255
4.5	114.3	Crimp	82505	81979	540	245

Give us a problem. Or just drop us a line if you want to know more.

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Collet Size Specific Characteristics²

Nominal Collet Size ³		Collet Style	Approximate Dressed Tool Weight	
(in)	(mm)		(lbs)	(kg)
10.75	273.1	Swage	440	200
9.63	244.6	Swage	460	209
8.63	219.2	Swage	470	214
7.63	193.8	Swage	480	218
7.0	177.8	Swage	490	223
6.63	168.4	Swage	490	223
5.5	139.7	Swage	560	255
5.5	139.7	Swage	580	264
5.0	127.0	Swage	560	255
4.5	114.3	Swage	565	257
3.5	88.9	Swage	570	259
2.88	73.2	Swage	575	261
2.38	60.5	Swage	575	261

1. For details on radial force requirements for crimping or swaging contact Volant customer support at +1 780.784.7098
2. Common collet sizes shown, for any other collet sizes, profile or pipe diameters contact Volant customer support.
3. Components can be developed for configurations not shown.
4. Actual formed length depends on adequate stroke and load capacity.
5. Overall Length is shown for base tool equipped with the most common bell, part number 80780.

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