

Recommended RPM / FEED Rates for Solid Carbide Spiral Router Bits

Tool Diameter	Feed Rate INCH Per MINUTE		Feed Rate INCH Per MINUTE		Feed Rate METERS Per MINUTE		Feed Rate METERS Per MINUTE		
	Hard Wood		Hard Wood		Hard Wood		Hard Wood		
	Single Flute bit		Single Flute bit		Single Flute bit		Single Flute bit		
	10000	10000 RPM		20000 RPM		10000 RPM		20000 RPM	
1/8"	30	50	60	100	0.75	1.25	1.5	2.5	
1/4"	90	110	180	220	2.25	2.75	4.5	5.5	
3/8"	150 180		300	360	3.75	4.5	7.5	9	
1/2" & up	190	210	380	420	4.75	5.25	9.5	10.5	

Tool Diameter	Feed Rate INCH Per MINUTE			Feed Rate INCH Per MINUTE		Feed Rate METERS Per MINUTE		Feed Rate METERS Per MINUTE	
	Hard Wood		Hard Wood		Hard Wood		Hard Wood		
	2 Flutes bit		2 Flutes bit		2 Flutes bit		2 Flutes bit		
	10000 RPM		20000 RPM		10000 RPM		20000 RPM		
1/8"	60	100	120	200	1.5	2.5	3	5	
1/4"	180	220	360	440	4.5	5.5	9	11	
3/8"	300	360	600	720	7.5	9	15	18	
1/2" & up	380	420	760	840	9.5	10.5	19	21	

Tool Diameter	Feed Rate INCH Per MINUTE		Feed Rate INCH Per MINUTE		Feed Rate METERS Per MINUTE		Feed Rate METERS Per MINUTE	
	Hard Wood		Hard Wood		Hard Wood		Hard Wood	
	3 Flutes bit		3 Flutes bit		3 Flutes bit		3 Flutes bit	
	10000 RPM		20000 RPM		10000 RPM		20000 RPM	
1/8"	90	150	180	300	2.25	3.75	4.5	7.5
1/4"	270	330	540	660	6.75	8.25	13.5	16.5
3/8"	450	540	900	1080	11.25	13.5	22.5	27
1/2" & up	570	630	1140	1260	14.25	15.75	28.5	31.5

Tool Diameter	Feed Rate INCH Per MINUTE		Feed Rate INCH Per MINUTE		Feed Rate METERS Per MINUTE		Feed Rate METERS Per MINUTE		
	Softwood / Plywood		Softwood / Plywood		Softwood / Plywood		Softwood / Plywood		
	Single Flute bit		Single Flute bit		Single Flute bit		Single Flute bit		
	10000 RPM		20000	20000 RPM		10000 RPM		20000 RPM	
1/8"	40	60	80	120	1	1.5	2	3	
1/4"	110	130	220	260	2.75	3.25	5.5	6.5	
3/8"	170	200	340	400	4.25	5	8.5	10	
1/2" & up	210	230	420	460	5.25	5.75	10.5	11.5	

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Tool Diameter	Feed	Rate	Feed Rate		Feed	Rate	Feed Rate		
	INCH Per	MINUTE	INCH Pe	INCH Per MINUTE		METERS Per MINUTE		METERS Per MINUTE	
	Softwood	/ Plywood	Softwood	l / Plywood	Softwood	/ Plywood	Softwood / Plywood		
	2 Flut	es bit	2 Flu	utes bit	2 Flu	utes bit	2 Flut	es bit	
	10000	RPM	20000	RPM	10000) RPM	20000	RPM	
1/8"	80	120	160	240	2	3	4	6	
1/4"	220	260	440	520	5.5	6.5	11	13	
3/8"	340	400	680	800	8.5	10	17	20	
1/2" & up	420	460	840	920	10.5	11.5	21	23	
	Feed	Data	Fee	d Data	Food	Data	Food	Data	
Tool Diameter			Feed Rate		Feed Rate		Feed Rate		
	INCH Per	MINUTE	INCH Per MINUTE		METERS Per MINUTE		METERS Per MINUTE		
	Softwood	/ Plywood	Softwood / Plywood		Softwood / Plywood		Softwood / Plywood		
	3 Flu	tes bit	3 Fl	utes bit	3 Flutes bit		3 Flutes bit		
	10000 RPM		20000) RPM	1000	0 RPM	20000 RPM		
1/8"	120	180	240	360	3	4.5	6	9	
1/4"	330	390	660	780	8.25	9.75	16.5	19.5	
3/8"	510	600	1020	1200	12.75	15	25.5	30	
1/2" & up	630	690	1260	1380	15.75	17.25	31.5	34.5	

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Tool Diameter	Feed Rate		Feed	d Rate	Feed	Rate	Feed	Rate
Tool Diameter	INCH Per MINUTE		INCH Per MINUTE		METERS Per MINUTE		METERS Per MINUTE	
	MDF / Particle Board		MDF / Particle Board		MDF / Particle Board		MDF / Particle Board	
	Single Flute bit		Single Flute bit		Single Flute bit		Single Flute bit	
	10000	RPM	20000	20000 RPM		10000 RPM) RPM
1/8"	40	70	80	140	1	1.75	2	3.5
1/4"	130	160	260	320	3.25	4	6.5	8
3/8"	200	230	400	460	5	5.75	10	11.5
1/2" & up	250	270	500	540	6.25	6.75	12.5	13.5

Tool Diameter	Feed Rate		Feed	Feed Rate		Feed Rate		Feed Rate	
	INCH Per	MINUTE	INCH Per MINUTE		METERS Per MINUTE		METERS Per MINUTE		
	MDF / Particle Board		MDF / Particle Board		MDF / Particle Board		MDF / Particle Board		
	2 Flutes bit		2 Flutes bit		2 Flutes bit		2 Flutes bit		
	10000 RPM		20000	20000 RPM		10000 RPM		20000 RPM	
1/8"	80	140	160	280	2	3.5	4	7	
1/4"	260	320	520	640	6.5	8	13	16	
3/8"	400	460	800	920	10	11.5	20	23	
1/2" & up	500	540	1000	1080	12.5	13.5	25	27	

Tool Diameter	Feed Rate INCH Per MINUTE		Feed Rate INCH Per MINUTE		Feed Rate METERS Per MINUTE		Feed Rate METERS Per MINUTE	
	MDF / Particle Board		MDF / Particle Board		MDF / Particle Board		MDF / Particle Board	
	3 Flutes bit		3 Flutes bit		3 Flutes bit		3 Flutes bit	
	10000	RPM	20000 RPM		10000 RPM		20000 RPM	
1/8"	120	210	240	420	3	5.25	6	10.5
1/4"	390	480	780	960	9.75	12	19.5	24
3/8"	600	690	1200	1380	15	17.25	30	34.5
1/2" & up	750	810	1500	1620	18.75	20.25	37.5	40.5

Tool Diameter	Feed Rate		Feed	Rate	
	INCH Per	MINUTE	METERS Per MINUTE		
	High Pressure Laminate		High Pressure Laminate		
	Single Flute bit		Single Flute bit		
	10000 RPM		1000	0 RPM	
1/8"	30	50	0.75	1.25	
1/4"	90	120	2.25	3	
3/8"	150 180		3.75	4.5	
1/2" & up	230	250	5.75	6.25	

Tool Diameter	Feed INCH Per		Feed METERS P		
	High Pressure Laminate		High Pressu	ire Laminate	
	2 Flutes bit		2 Flutes bit		
	10000	RPM	1000) RPM	
1/8"	60	100	1.5	2.5	
1/4"	180 240		4.5	6	
3/8"	300 360		7.5	9	
1/2" & up	460	500	11.5	12.5	

Tool Diameter	Feed INCH Per		Feed METERS P	Rate Per MINUTE	
	High Pressure Laminate		High Pressure Laminate		
	3 Flutes bit		3 Flutes bit		
	10000 RPM		1000	0 RPM	
1/8"	90	150	2.25	3.75	
1/4"	270	360	6.75	9	
3/8"	450 540		11.25	13.5	
1/2" & up	690	750	17.25	18.75	

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