

**Spindle RPM for Recommended Peripheral Speed by m/sec. for Alpha® Silencer III and ICE Blades**

m/sec.	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42
<b>Diameter</b>																		
Ø250mm - 10"	1,910	1,987	2,064	2,140	2,217	2,293	2,369	2,446	2,522	2,599	2,675	2,752	2,828	2,904	2,981	3,057	3,134	3,210
Ø300mm - 12"	1,592	1,656	1,720	<b>1,783</b>	1,847	1,911	1,975	2,038	2,102	2,166	2,229	2,293	2,357	2,420	2,484	2,548	2,611	2,675
Ø350mm - 14"	1,365	<b>1,419</b>	1,474	1,529	1,583	1,638	1,692	1,747	<b>1,802</b>	1,856	1,911	1,965	2,020	2,075	2,129	2,184	2,238	2,293
Ø400mm - 16"	1,194	1,242	1,290	1,338	<b>1,385</b>	1,433	1,481	1,529	1,576	1,624	1,672	1,720	1,768	<b>1,815</b>	1,863	1,911	1,959	2,006
Ø450mm - 18"	1,062	1,104	1,146	1,189	1,231	1,274	1,316	1,359	<b>1,401</b>	1,444	1,486	1,529	1,571	1,614	1,656	1,699	1,741	<b>1,783</b>
Ø500mm - 20"	955	994	1,032	1,070	1,108	1,146	1,185	1,223	1,261	1,299	1,338	1,376	<b>1,414</b>	1,452	1,490	1,529	1,567	1,605

m/sec.	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
<b>Diameter</b>																		
Ø250mm - 10"	3,284	3,363	3,439	3,516	3,592	3,669	3,745	3,822	3,898	3,975	4,051	4,127	4,204	4,280	4,357	4,433	4,510	4,586
Ø300mm - 12"	2,739	2,803	2,866	2,930	2,994	3,057	3,121	3,185	3,248	3,312	3,376	3,439	3,503	3,567	3,631	3,694	3,758	3,822
Ø350mm - 14"	2,348	2,402	2,457	2,511	2,566	2,621	2,675	2,730	2,784	2,839	2,894	2,948	3,003	3,057	3,112	3,167	3,221	3,276
Ø400mm - 16"	2,054	2,102	2,150	2,197	2,245	2,293	2,341	2,389	2,436	2,484	2,532	2,580	2,627	2,675	2,723	2,771	2,818	2,866
Ø450mm - 18"	1,826	1,868	1,911	1,953	1,996	2,038	2,081	2,123	2,166	2,208	2,251	2,293	2,335	2,378	2,420	2,463	2,505	2,548
Ø500mm - 20"	1,643	1,682	1,720	1,758	<b>1,796</b>	1,834	1,873	1,911	1,949	1,987	2,025	2,064	2,102	2,140	2,178	2,217	2,255	2,293

Standard Single Speed RPM = **1,400** or **1,800**

**Workable Peripheral Speed Range**  
 Slab Thickness-Maximum Linear Traverse Speed  
*For Miter Cuts, Reduce Traverse Speed by 50%*

Material Class	m/sec.	ft/sec.	1.2cm		2cm		3cm	
			Meters	Inches	Meters	Inches	Meters	Inches
Eng.Stone/Quartz Surface	32~35	<b>105~115</b>	5.0	<b>197</b>	3.0	<b>118</b>	2.0	<b>79</b>
Granite Class 1	32~35	<b>105~115</b>	5.0	<b>197</b>	3.0	<b>118</b>	2.0	<b>79</b>
Granite Class 2	32~35	<b>105~115</b>	4.2	<b>164</b>	2.5	<b>98</b>	1.7	<b>66</b>
Granite Class 3	28~35	<b>92~115</b>	3.3	<b>131</b>	2.0	<b>79</b>	1.3	<b>52</b>
Granite Class 4	28~32	<b>92~105</b>	2.5	<b>98</b>	1.5	<b>59</b>	1.0	<b>39</b>
Granite Class 5	25~28	<b>82~92</b>	1.7	<b>66</b>	1.0	<b>39</b>	0.7	<b>26</b>
Quartzite*	25~28	<b>82~92</b>	1.7	<b>66</b>	1.0	<b>39</b>	0.7	<b>26</b>
Crystallized Glass**	32~45	<b>105~150</b>	1.7	<b>66</b>	1.0	<b>40</b>	0.7	<b>25</b>
Porcelain/Sintered Slab**	32~45	<b>105~150</b>	1.7	<b>66</b>	1.0	<b>40</b>	0.7	<b>25</b>
White Crystalline Marble	50~55	<b>165~180</b>	20.8	<b>820</b>	12.5	<b>492</b>		
Colored Marble	45~50	<b>150~165</b>	16.7	<b>656</b>	10	<b>394</b>		
Travertine (Soft)	45~50	<b>150~165</b>	16.7	<b>656</b>	10	<b>394</b>		
Travertine (Hard)	50~60	<b>160~200</b>	25.0	<b>984</b>	15	<b>591</b>		
Sandstone	50~60	<b>160~200</b>	29.2	<b>1148</b>	17.5	<b>689</b>		



*If variable speed control is available...*

*\*Alpha® recommends using the lower end of the range for better results.*

*\*\*Alpha® recommends using the higher end of the range for better results.*