



List 5315 - EXOCARB® MAX-MINI UVM-LDS
List 5320 - EXOCARB® MAX-MINI UVM-DRL: 5D
List 5325 - EXOCARB® MAX-MINI UVM-DRL: 10D

Work Material	Stainless Steels 300SS, 400SS, 17-4PH			Special Alloy Steels, Hardened Steels			Aluminum Alloys, Cast Aluminum		
Drilling Speed	2-20 SFM			2-20 SFM			2-30 SFM		
Drill Dia. mm	Speed RPM	Feed IPR	Pecking (In)	Speed RPM	Feed IPR	Pecking (In)	Speed RPM	Feed IPR	Pecking (In)
0.02	25,000	0.00004 - 0.00006	0.00008	25,000	0.00004 - 0.00006	0.00008	25,000	0.0002 - 0.0004	0.00008
0.03	25,000	0.00004 - 0.00006	0.00012	25,000	0.00004 - 0.00006	0.00012	25,000	0.0002 - 0.0004	0.00012
0.04	25,000	0.00004 - 0.00006	0.00016	25,000	0.00004 - 0.00006	0.00016	25,000	0.0002 - 0.0004	0.00016
0.05	21,350	0.00004 - 0.00006	0.00020	21,350	0.00004 - 0.00006	0.00020	25,000	0.0002 - 0.0004	0.00020
0.06	17,790	0.00004 - 0.00006	0.00024	17,790	0.00004 - 0.00006	0.00024	25,000	0.0002 - 0.0004	0.00024
0.07	15,250	0.00004 - 0.00006	0.00027	15,250	0.00004 - 0.00006	0.00027	22,180	0.0002 - 0.0004	0.00027
0.08	13,340	0.00004 - 0.00006	0.00031	13,340	0.00004 - 0.00006	0.00031	19,400	0.0002 - 0.0004	0.00031
0.09	11,860	0.00004 - 0.00006	0.00035	11,860	0.00004 - 0.00006	0.00035	17,250	0.0002 - 0.0004	0.00035
0.10	10,670	0.00004 - 0.00006	0.00040	10,670	0.00004 - 0.00006	0.00040	15,520	0.0002 - 0.0004	0.00040

Work Material	High Heat Material					
	Ti-Alloy			Inconel, Waspaloy		
Drilling Speed	2-7 SFM			2-5 SFM		
Drill Dia. mm	Speed RPM	Feed IPR	Pecking (In)	Speed RPM	Feed IPR	Pecking (In)
0.02	21,830	0.000012 - 0.000028	0.00008	15,650	0.000012 - 0.000028	0.00008
0.03	14,550	0.000012 - 0.000028	0.00012	10,430	0.000012 - 0.000028	0.00012
0.04	10,910	0.000012 - 0.000028	0.00016	7,820	0.000012 - 0.000028	0.00016
0.05	8,730	0.000012 - 0.000028	0.00020	6,260	0.000012 - 0.000028	0.00020
0.06	7,280	0.000012 - 0.000028	0.00024	5,210	0.000012 - 0.000028	0.00024
0.07	6,240	0.000012 - 0.000028	0.00027	4,470	0.000012 - 0.000028	0.00027
0.08	5,460	0.000012 - 0.000028	0.00031	3,910	0.000012 - 0.000028	0.00031
0.09	4,850	0.000012 - 0.000028	0.00035	3,480	0.000012 - 0.000028	0.00035
0.10	4,370	0.000012 - 0.000028	0.00040	3,130	0.000012 - 0.000028	0.00040

1. Please use in a machine with precise spindle rotation. Tight clamping is critical.
2. The indicated feeds and speeds are for drilling with water-soluble fluid.
3. Please use water-soluble high density fluid (less than 20 times dilution).
4. Please utilize pecking cycle as specified in table.
5. The run out with a drill in the spindle should be less than 0.0001".
6. OSG's Shrink Fit System is the recommended tool holder for these drills.

For machines that cannot achieve the speeds indicated in the above table, please set rotation as high as possible. Tool life may be decreased.

