## **ELECTRODE SELECTION CHART**

Recommended electrode sizes for removing common broken studs and taps.

ENGLISH THREAD									
ELECTRODE SIZES FOR:									
Thread	STUDS and	STUDS and BOLTS			TAPS				
Size	inch	mm		inch	mm				
2	.043	(1.1)		.044	(1.1)				
4	.060	(1.5)		.054	(1.4)				
6	.080	(2.0)		.066	(1.7)				
8	.110	(2.8)		.084	(2.1)				
10	.122	(3.1)		.091	(2.3)				
1/4	.175	(4.4)		.123	(3.1)				
5/16	.235	(6.0)		.159	(4.0)				
3/8	.286	(7.3)		.190	(4.8)				
7/16	.338	(8.6)		.221	(5.6)				
1/2	.407	(10.3)		.262	(6.7)				
5/8	.516	(13.1)		.328	(8.3)				
3/4	.626	(15.9)		.394	(10.0)				
7/8	.751	(19.1)		.469	(11.9)				
1	.860	21.8		.534	13.6				
METRIC THREAD									
ELECTRODE SIZES FOR:									

METRIC THREAD									
	ELECTRODE SIZES FOR:								
Thread		STUDS and BOLTS			TAPS				
Size		inch	mm		inch	mm			
3mm		.070	(1.8)		0.044	(1.5)			
4mm		.098	(2.5)		.077	(2.0)			
5mm		.136	(3.5)		.100	(2.5)			
6mm		.175	(4.4)		.123	(3.1)			
7mm		.212	(5.4)		.145	(3.7)			
8mm		.242	(6.1)		.163	(4.1)			
9mm		.282	(7.2)		.187	(4.8)			
10mm		.313	(8.0)		.206	(5.2)			
12mm		.383	(9.7)		.248	(6.3)			

Generally for removing broken **studs** use an electrode **10%** smaller than the tap drill size. For **broken taps**, use an electode about **40%** smaller than the tap drill size. Graphite electrodes can be easily polished down in a drill press or lathe using sandpaper to achieve the size needed.