



INTERNATIONAL
DRILLING
EQUIPMENT, INC.



Rotary
Drilling
Tools

General Description

Since 1996 the goal of **SIP&T** has always been to manufacture a wide range of rotary tools and Kelly bars with highest level of reliability and performance in the field of vertical foundations.

The search for high performance, combined with the search forever better reliability, has always been the real and recognizable philosophy of SIP&T in construction sites around the world.

Numerous efforts have been made, over the years, by SIP&T engineers and workers to offer to customers the best power tool and Kelly bar suitable to the excavation. This concept combined with the competent advice received from our customers and drill operators, together with the continuous activity and research of our technicians in all type of work on construction sites and in soils around the world, has recently led to the creation of our new range SHD, which for us means simply SUPER HEAVY DUTY.

The SHD Line tools has been introduced as product line with the goal of even better satisfying various requirements of customers. In details, the line is manufactured accordingly to the different rigs torque and soil-rock hardness. Such line of drilling tools has some basic principles, which are dealt with utmost priority, such as:

- Quality
- High performance
- Greatest reliability
- Highest safety levels
- Lowest maintenance
- Long lifetime
- Customized design

IDE is fully committed to their industry and adding value for their customers. They believe in consistently delivering high quality products and finding the best solutions they can possibly deliver to their customers. This approach means making customer relations and service a priority. It is a fast growing company committed to developing products with high quality and advanced technology. We are glad to have them as distributor for U.S. together we can complete our mission to provide the best and latest technology to people everywhere in the world.

Short delivery time can be met even for special tools or components. Having a highly flexible production line, experienced technicians pleased to assist clients on site and extensive stocks are prerequisites for this.

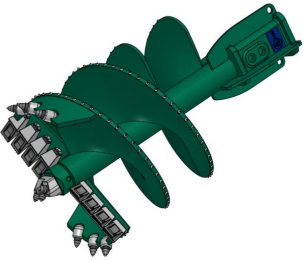
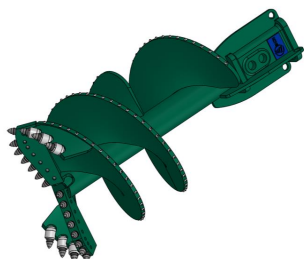


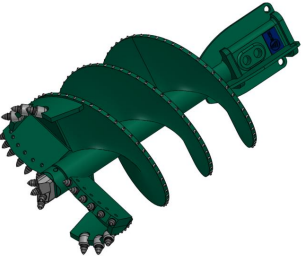
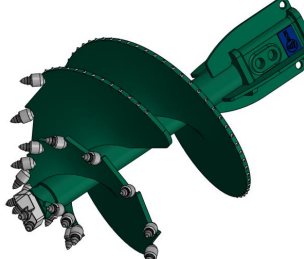

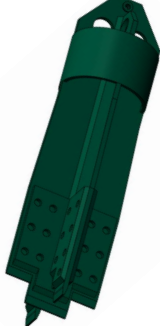
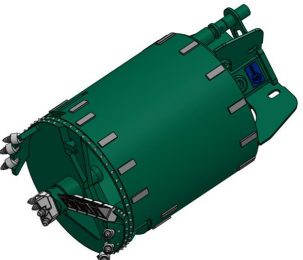
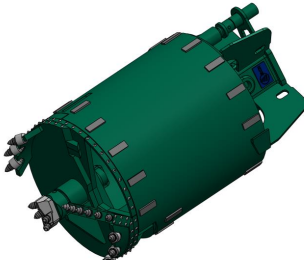

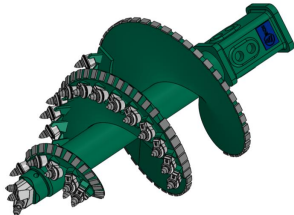
Client satisfaction is key criteria for all tools and components we make.



		Compressive Strength (Mpa)		Soft			Medium			Hard			Very Hard																									
SEDIMENTARY ROCKS		min.	max.	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	
Clastics	Gravel, Loam, Silica, Clay, Sand	< 5	30																																			
	Breccia	10	45																																			
	Conglomerate	80	150																																			
	Sandstone	120	200																																			
	Argillite	10	100																																			
	Tuff	5	10																																			
Chemistries	Limestone, Dolostone	55	220																																			
	Travertine	20	60																																			
	Gypsum, Halite	< 5	30																																			
	Carbonate	10	25																																			
	Flint (o Jasper)		190																																			
	Phosphorite	<5	10																																			
	Alabaster	55	120																																			
	Anhydrite	100	130																																			
Biochemistries	Marl	< 5	30																																			
	Coal	5	50																																			
	Diatomite	10	100																																			
METAMORPHIC ROCKS		min.	max.	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	
Marble	90	220																																				
Gneiss	110	240																																				
Andresia	70	200																																				
Anphibolite	170	280																																				
Schists	5	100																																				
Quartzite	150	300																																				
Phyllite, Mica Schist, Calcareous Schist	70	100																																				
Paragneiss, Ortogneiss	110	160																																				
Chlorite schist	10	50																																				
Serpentinite		> 300																																				
IGNEOUS ROCKS		min.	max.	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	
Basalt	120	300																																				
Porphyry	180	> 300																																				
Granite	130	250																																				
Diorite, Labradorite	180	300																																				
Syenite	150	270																																				
Gabbro	160	300																																				
Andesite	180	> 300																																				
Trachyte	140	180																																				
Grandioroto, Tonalite, Grandiorite	150	300																																				
Rhyolite	160	190																																				
Leucitti	110	140																																				
Obsidian, Pomice	100	120																																				
Dacite	140	170																																				
Peridotite		> 300																																				
Pegmatite, Aplite, Porphyte	100	250																																				



RECOMMENDED CHART

Rock Compressive Strength (MPa)				
0 - 12.5	12.5 - 50	50 - 100	>100	
Soil Auger 	Flat Rock Auger (Pilot less) 	Tapered Rock Auger (Double pitch) 	Core Barrel Roller Bits 	
Rock Auger (with Pilot) 	Tapered Rock Auger (Single pitch) 	Core Barrel 	Chisel 	
Soil Bucket 	Rock Bucket 	Core Barrel Cross Cutter 	PRA-S Line 	
0 - 50		50 - 100		
Rock Quality Designation RQD (%)				



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