

University of Wisconsin Space Sciences and Engineering Center
ICE CORING AND DRILLING SERVICES
Drill Inventory
March 25, 2009

Number in Inventory	Drill	Core Diameter (mm)	Maximum Depth (m) ¹	Comments
1	DISC Drill	122	4000	Requires drill fluid.
3	4-Inch Drill	104	350	Following winches available 1 – 100 meter 2 – 200 meter 2 – 400 meter
1	Thermal Drill	86	200	For warm ice; uses same winches as 4-Inch drill
2	Badger – Eclipse Drill	81	300	
1	2-Inch Drill	51		Suitable for shallow depths.
1	Koci Drill	81	10 – 50 ³	For drilling shallow holes in ice containing silt and rock
2	Prairie Dog Drill	102	40	One normally inventoried at BFC
1	Chipmunk Drill		0.5	
1	Kovacs Mark V Hand Auger	140	5	Depth limited by extensions.
1	Kovacs Mark II Hand Auger ²	90	5	Depth limited by extensions.
3	SIPRE Hand Augers			Inventoried at BFC
2	4-Inch PICO Hand Augers	102	21	
6	3-Inch PICO Hand Augers	79	21	Three normally inventoried at BFC
1	RAM Drill	--	90	Primarily for drilling shot holes. Makes hole approximately 100 mm in diameter.
3	Portable Hot Water Drills			Trade-off between hole size and depth; used for drilling shot holes and shallow access holes. Configured for project needs.
1	Kamb-Engelhardt Hot Water Drill			Has been used to drill holes approximately 100 mm in diameter to depths of 1200 meters. Also known as the CalTech Drill.

Notes:

1 – Depths achieved or designed for.

2 – Currently configured for 10 meter depth; being modified for 50 meters.