

# CORING TOOL

## Coring Tool

Coring tools are used for acquisition of the rock core in petroleum drilling. The coring tools can be applied to soft, moderate and rigid rock formations. PPGL would like to supply varieties size and type core barrels and core bits to you.

## Core Barrel

Core Barrel is a perfect tool in general coring operation. The tool is mainly used to acquire core in oil drilling well & in geological prospecting. PPGL can supply the core barrel for soft, medium, hard and mix formation.



Core Barrel

## Technical specification of Core Barrel

Core Barrel Type	PPGL-CB 3-1/2"x1/3/4" (89x45mm)	PPGL-CB 4-3/4"x2-5/8" (121-66mm)	PPGL-CB 5-1/4"x2-3/4" (133-70mm)	PPGL-CD 5-3/4"x3-1/2" (146-89mm)	PPGL-CB 6-3/4"x4" (172-101mm)	PPGL-CB 7-1/8"x4-1/8" (180-105mm)	PPGL-CB 8"x5-1/4" (203-133mm)
Length(mm)	4,600	9,200/18,400	9,200/18,400	9,200/18,400	9,200/18,400	9,200/18,400	9,200/18,400
Out Barrel ODxID (mm)	89x70	121x93	133x101	146x118	172x136	180x144	203x169
Inner Barrel ODxID (mm)	60x52	85x72	89x76	108x94	121x108	127x112	159x140
Top Threads	2-3/8 IF	3-1/2 IF	3-1/2 IF	3-1/2 IF	4-1/2 IF	4-1/2 IF	6-5/8 RRG
Bit Size (in)	4-1/8	5-7/8~6-1/2	5-7/8~6-1/2	6-1/2~7-7/8	7-1/2~9-5/8	8-1/2~9-5/8	12-1/4
Core Size (mm)	45	66	70	89	101	105	133

## Core Bit

Core Bits are widely used with Core Barrel, PPGL can supply various core bits in PDC type and TSP type.

Bit Description	Stratum Situation						
	Very Soft	Soft	Medium Soft	Medium	Medium Hard	Hard	Very hard
Core Bit:8-1/2" to 800m, PDC type		•	•	•			
Core Bit:8-1/2" to 1500m,TSP type			•	•	•		
Core Bit:8-1/2" to 2500m, TSP type			•	•	•	•	

## Technical Specification of Core Bit

PDC Bit Size (in)	Primary Cutter Size (mm)	Gage Protection Length (in)	Quantity of Nozzles (pc)	Core Barrel Size (in)	IADC Code	Recommended Parameters		
						Drilling Pressure(KN)	Rotary Rate(rpm)	Fluid Flow Rate(L/s)
4-3/4	13	1~2	6	4-1/8x2-1/8	M332	9~30	40~100	6~16
6	13	1~2	6	4-3/4x2-5/8		9~30	40~120	6~16
8-1/2	13	2~3	12	6-3/4x4		23~50	40~150	11~20
12-1/4	13	2~3	12	8x5-1/4		45~80	40~150	22~32
TSP Bit Size (in)	Primary Cutter Size (mm)	Gage Protection Length (in)	Flow Area	Core Barrel Size (in)	IADC Code	Recommended Parameters		
						Drilling Pressure(KN)	Rotary Rate(rpm)	Fluid Flow Rate(L/s)
5-7/8	7	1.0~2.0	0.10~1.00	4-3/4x2-5/8	M723	20~60	40~80	6~13
8-1/2	7	2.0~3.0	0.15~1.50	6-3/4x4		30~80	40~80	11~19
5-7/8	7	1.0~2.0	0.10~1.00	4-3/4x2-5/8	M722	20~50	40~80	6~13
6	7	1.0~2.0	0.10~1.00	4-3/4x2-5/8		20~50	40~80	6~13
8-1/2	7	2.0~3.0	0.15~1.50	6-3/4x4		40~80	40~80	11~19