Mining Bits

Creativity and a reliable technology.

We realize the drilling performance improvement and cost.



Dimond bits are utilized in various geological surveys, investigation for underground resources, and for dam and tunnel construction, to name only a few. their value to society is immeasurable, making possible many of the modern conveniences which society takes for granted.

[[[[[]]]]]]]]

Surface set diamond core BIT



Surface set diamond bits are made by setting rough diamond borts on the matrix surface. they are available in a variety of sizes for diverse applications.

Diamond Bits(non-core, casing, etc)



Non-core bits are used in drilling projects that do not require the collection of a core sample. Casing bits are used to insert casing pipe into collapsed stratum.

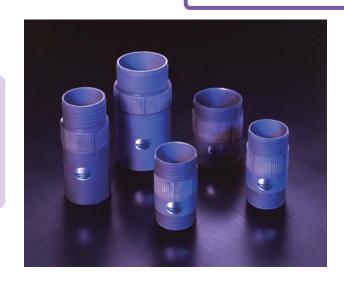
Diamond Impregnated core BIT



Asahi diamond's diamond core bits come in an assortment of sizes and strengths to suit any type of rock stratum, from homogeneous soft rock to extremely hard rock and collapsed rock layers.

Diamond reamers

Diamond reamers are used in conjunction with core bits and non-core bits to ensure specific drill hole dimensions, prevent drill hole deformation and reduce vibration.



Matrix

Impregnated bit

Inpregn	acc	<u>u</u>	~																																			
		Soft rock			N	lec	liui	n-	ha	rd	roc	ck		Hard rock								Sı	ıper	hard	d roc	ck,H	yper	hard	d ro	sk								
Туре	Mt hardness	Mt name	clay	chalk	shale	plaster	tuff	cement	slate	limestone	mudstone	sands	sandy shale	sandy limestone	dolostone	serpentinite		pelitic	mafic schist	psammitic schist	marble	basalt	andesite	rhyolite	granodiorite	diabase	gabbro	porphyry	porphyrite	peridotite	granite	gneiss	quarlz trachyte	10)	liceou	siliceous sandstone	quartzite	chert
	Soft	S																								S7	7				S8	3	SS)	S1	0	S	11
	1	K																		K6	6				K7	,				K8	3			K9				
Standard		С				C	4								С	6						C	7															
	\downarrow																(c	ru	she	ed .	ZOI	ne.)															
	Hard	Z			Z0					Z	1				Z	3					Z4	ļ				Z!	5											
Economy		L																		L6	3						L	.7				L8	}					

Surface set bit

				5	Sof	tr	ОС	k			N	1ec	liur	m-	ha	rd	ro	ck				На	ard	ro	ck				Sı	ıper	hard	l roc	ck,H	yperl	nard	rock
Туре	Mt hardness	clay	chalk	shale		tuff		slate	limestone	mudstone	sandstone		sandy limestone	dolostone	serpentinite	grave	pelitic schist	mafic schist	psammitic schist	marble	basalt	andesite	rhyolite	granodiorite	diabase	gabbro	porphyry	porphyrite	peridotite	granite				liceou	siliceous sandstone	chert
Standard	Soft										,	Y																								·
	Hard					Z	-																													

Standards

□DCDMA&CDDA

C:	Stan	dard	WT-type	Reaming shell	Casing	shoe	Casing bit			
Size	Outer(mm)		Hole(mm)	Outer(mm)	Outer(mm)	Hole(mm)	Outer(mm)	Hole(mm)		
☆XRT	29.7	-	18.7	29.8	37.7	30.1	37.7	25.4		
EX,EW	37.3	21.5	23	37.7	47.6	38	47.6	35.7		
AX,AW	47.6	30.1	32.5	48	59.5	48.3	59.5	45.2		
BX,BW	59.5	42	44.5	59.9	75.3	60.2	75.3	56.3		
NX,NW	75.3	54.7	58.7	75.7	91.8	76	91.8	72.1		
HX,HE	98.8	76.2	80.9	99.2	117.5	99.7	117.5	95.9		
PX,PW	-	_	ı	_	143.5	121.3	143.5	117.7		
SX,SW	- 1	_	-	_	172.5	146.7	172.5	143.1		

☐Wire Line Q-series(double core tubu)

Size	BI	ΓS	Reaming Shell						
Size	Outer(mm)	Hole(mm)	Outer(mm)						
EQ	37.3	20	37.7						
AQ	47.6	27	48						
BQ	59.5	36.4	59.9						
NQ	75.3	47.6	75.7						
HQ	97.5	63.5	98.4						
PQ	122	85	123						

□Japan standard JIS

Size	BI	ΓS	Reaming Shell
Size	Outer(mm)	Hole(mm)	Outer(mm)
36	36	22	36.5
46	46	30	46.5
56	56	40	56.5
66	66	48	66.5
76	76	58	76.5
86	86	68	86.5
101	101	77	101.7
116	116	92	116.7



Asahi Diamond Industrial Co., Ltd.



URL: http://www.asahidia.co.jp/

The New Otani Garden Court, 11th Floor 4-1, Kioi-cho, Chiyoda-ku, Tokyo 102-0094, Japan

