

4.3 Dieckmann stratacut bits



Dieckmann stratacut bits are designed for maximum core recovery and penetration rates in soft to medium formations. They are particularly applicable in soft, sticky formations where performance of large stones diamond bits may be marginal. **Dieckmann** stratacut non coring bits have best results in underground drilling. Stratacut tools can economically replace tungsten carbide tools.

The stratacut cutters have a thin layer of polycrystalline synthetic diamonds bonded on a tungsten carbide backing. They are imbedded in a tungsten carbide matrix.

Dieckmann stratacut coring and non coring bits are available in most sizes for most standard core barrels and all drill rods.

4.4 Dieckmann synset bits



Dieckmann synset bits utilize a new type of thermally stable, selfsharpening synthetic polycrystalline diamond setted in a tungsten carbide matrix.

The synthetic diamond cutter is positioned for aggressive shearing and plowing action and

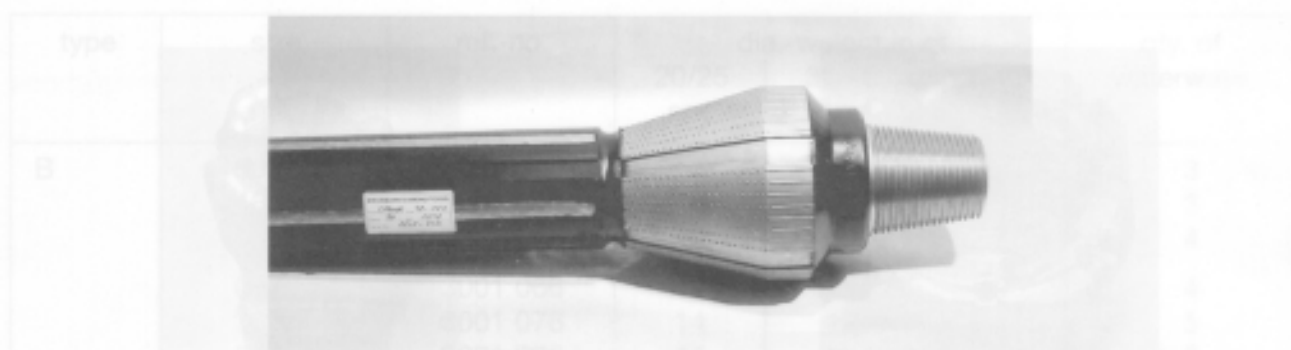
maximum drilling live in medium to hard formations.

Dieckmann synset coring and non coring bits are available in all sizes for all standard core barrels and all drill rods.



4.5 Dieckmann diamond hole openers

4.3 Dieckmann stratacut bits



Dieckmann diamond hole openers are used to increase the diameter of already drilled wells.

We produce these tools with or without pilot, for pushing or pulling action according to customers requirements in all dimensions.

4.6 Dieckmann diamond reaming shells



Matrix

For all diamond reaming shells **Dieckmann** uses an extremely abrasive resistant tungsten carbide matrix. It is suitable for all requirements.

Remarks:

The following tables are just a recommendation. **Dieckmann** is able to deliver all possible combinations of diamond qualities, diamond sizes, diamond weights and profiles.

Diamond qualities

All diamond qualities are available, but standard is **Economy** quality.

Also non standard diameters are available on request.

Diamond sizes

All diamond sizes are available, but standard is **40/60 spc.**

If a type of reaming shell not shown in the tables is required, **Dieckmann** will probably have all necessary data to produce the reaming shell. If not, a drawing or a sample will be sufficient for us to do it.

Profiles

Two different profiles are available and that are **ring type** and **spiral type**. **Ring type** is standard.

Diamond reaming shells metric sizes:

type	size	ref.-no.	dia.-weight in ct 40/60 spc	
	mm		standard	ECO
B	36	31.. 036	3	1.5
T-2	46	31.. 046	4	2.0
T-6	56	31.. 056	4	2.5
TT				
D	66	31.. 066	5	2.5
K-3	76	31.. 076	7	2.5
Z	86	31.. 086	10	3.0
	101	31.. 101	12	3.0
	116	31.. 116	12	3.0
	131	31.. 131	13	3.5
	146	31.. 146	14	4.5
	176	31.. 176	18	5.5
SK-6-L	146	3124 146	20	14.0
Geobor	150	3124 150	20	14.0
CSK-146	165	3124 165	23	16.0
WN-SK	122	3125 079	18	12.5

Ref.-no.: .. = corresponding to diamond coring bits

Diamond reaming shells american sizes:

type	size	ref.-no.	dia.-weight in ct 40/60 spc
	mm		
EX	37.5	3127 037	3
AX	47.8	3127 047	4
BX	59.7	3127 059	4
NX	75.4	3127 075	5
AQ	47.8	3118 0AQ	4
BQ	59.7	3118 0BQ	5
NQ	75.4	3118 0NQ	6
HQ	95.8	3118 0HQ	12
PQ	122.3	3118 0PQ	20
CHD	101.0	3121 CHD	14
CP	122.6	3119 0CP	20
DCDMA	2-3/4 x 3-7/8	3117 378	14
large	4 x 5-1/2	3117 512	18
serie	6 x 7-3/4	3117 734	20
HXB-1	95.4	3123 0HX	12
HXB-2	95.4	3123 0HX	12

