

ARMADOR®

Rotary Bored Piling Tools

"When you need high performance" ™

Rotary Bored & Various Piling Tools Catalogue 2025

ARMADOR Consultancy Machinery Ltd. © 2006-2025

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ARMADOR®

"When you need high performance" ™



Armador Machinery Ltd. is a specialized manufacturer of foundation drilling tools. Although Armador was founded in the very early beginning of 2006 to expend our manufactured products to the whole world, our associates and company group have strong experience in piling tools manufacturing for decades.



We started working in this field in 1994. By time, we have gained many experiences on Rotary Bored Piling Tools and become a field expert. By founding Armador Machinery Ltd. in 2006, this experience is shared worldwide in supplying these tools to many countries in the world by our company group.

Our main products of bored piling tools are augers, buckets, core barrels, interlocking telescopic kelly bars, single and double walled casings, twisters, casing shoes, tremie equipments, auger flights etc. Our tools outperforms most quality manufacturers and the craftsmanship of our products are generally higher than similar products. While manufacturing, we give the priority to make durable and high performance tools rather than absolute economy, which brings economy and time saving while working at the construction site. That is the main reason of very good feedbacks from our clients about our strong/durable products and customer loyalty.

In order to grow our factory which has 6800 m^2 total area with 3200 m^2 closed area for manufacturing while having a 800 m^2 multi-storey office area, in addition to our 220 m^2 in-city offices, we have bought more than 11000m^2 neighbouring land in 2016 to expand our manufacturing factory area. The expending resulted with doubling the previous manufacturing capacity increase with the adjacent facility. In combination with this new additional 5480 m^2 closed area for manufacturing and having a 1200 m^2 multi-storey office area, our group's total areas have grown to 19220 m^2 now.

Our group has 5 registered trade marks as well as various patents and design patents, unique manufacturing techniques. With all these, it became a consistent choice of almost 60 countries in 30 years.

We have agencies covering various European countries and Scandinavia divided into responsible territories while having some communication offices and points in Germany and France.

Member of:

Products powered by:

elementsix a De Beers Group Company
Tungsten Carbide
German Wear Parts



Vision & Values

Our Values

- Trustworthiness
- Collaboration
- Equality & Equity
- Honesty
- Love & Respect

Our Vision

To be a leading global innovative enterprise, recognized for its world-renowned brands and commitment to the continuous development of itself and all stakeholders.

Sustainability Goals

We are driven by the goal of leaving a more liveable world for future generations. Our Solar Power Plant investment in 2022 is a concrete example of this vision, mainly serving on at least three main headings of the Global Goals for Sustainable Development 7, 9, 12 and plays an important role in reducing carbon emissions.

Just for an example, we produced more than we consumed annually having a power plant of 367,2 kWp§, which we reduced 449 tons of CO_2 as well as produced 450 MWh electricity only in 2024. Total reduction on CO_2 emissions was nearly 1 million kgs since August 2022 and exceeding 1,05 GWh total production.

§ 1 kWp (kilo Watt peak) = 1000 kWh/year

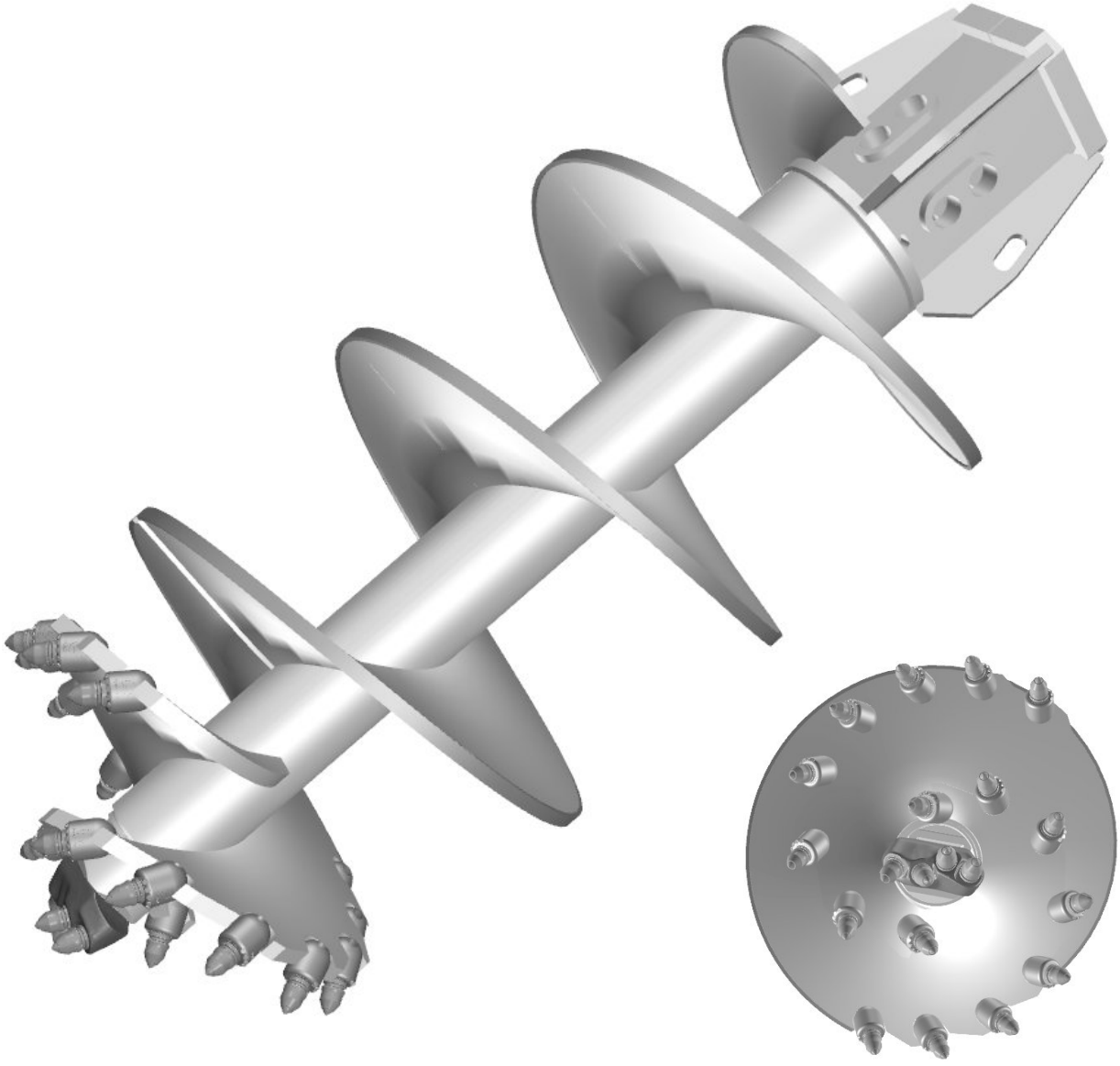
AUGERS

- Armador augers are manufactured in various models to accomplish the requirements for every type of ground drilling conditions.
- In order to increase the resistance of our augers, special alloy steels are used depending on the design elements by default and also on request.
- We prefer to use worldwide well-known branded carbide picks and teeth. We use only the best heavy duty round carbide picks both for 30/38mm and for 25mm shank type requirements for rock drilling, while only the best quality teeth for soil drilling. For soil conditions, both long attack, high penetration ability special excavation type teeth and tungsten carbide inserts protected teeth options are available for specific country based requirements.
- The kelly boxes can be manufactured custom sized and shaped for every kind of drilling rigs.
- On request, every type of hard-facing & wear protection is available (up to HRC=55~63 hardness). We can also use special wear protection plates and sheets (top quality European wear protection products with hardness of HRC=62). Optional Super High wear Protection solutions up to 2400 HV (Vickers) hardness tungsten carbide particles + 35% ~50 HRC hardness matrix coatings are also available on some certain parts.
- Although our standard products are based on three different models, especially strong double start models (OKK, OKS, OTS); on request, custom types can be manufactured (such as the single start ones like OKT or OTT series).
- We have special patented design for high torque resistance in our augers.

You can choose according to your demands among our standard models, or request a custom model.

OKK series - Conical Rock Augers

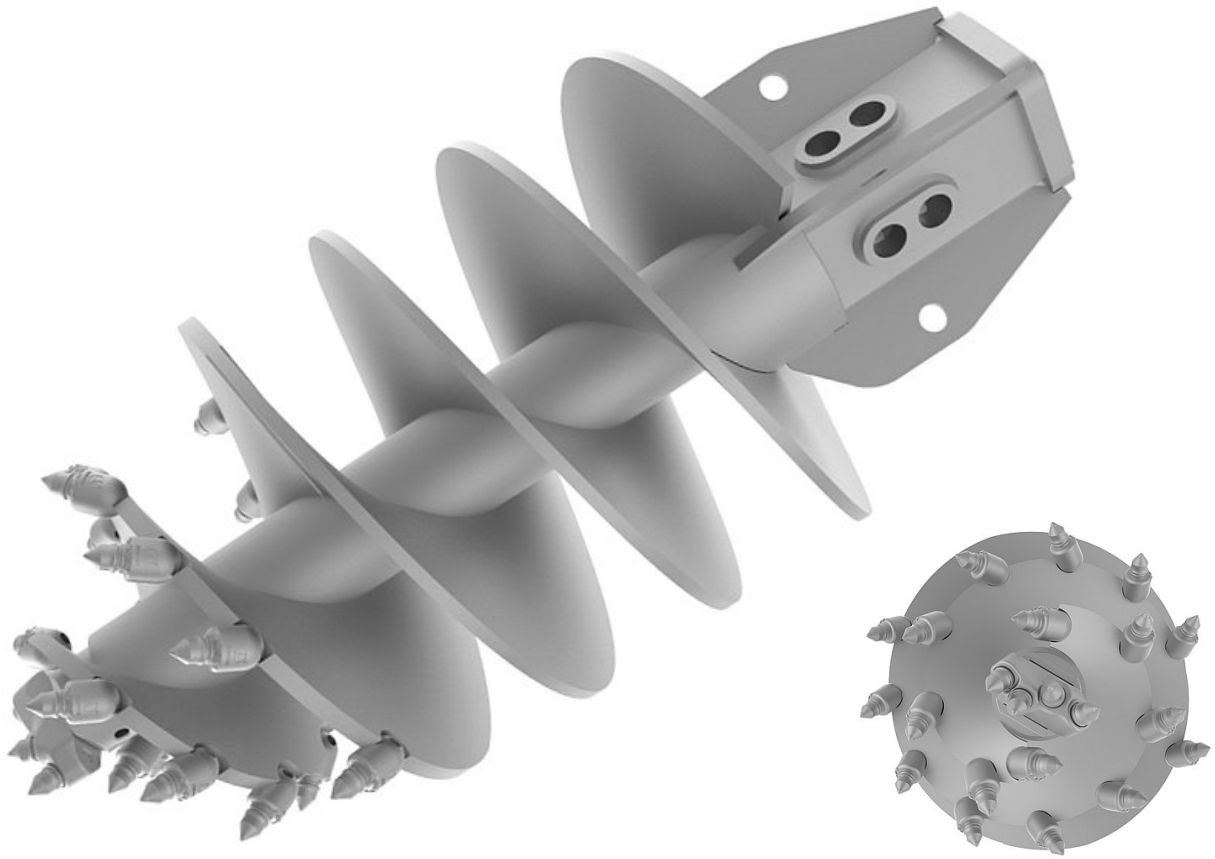
- Double start, single continuing flights & progressive auger design
- Heavy duty rock ground conditions
- New improved design for increased drilling performance*
- Performance proven, even for encountering quartz layers**
- With super HD tungsten carbide picks and special pick holders
- More material intake capacity and ease of unloading in comparison with our OKK2s model
- Complete upper flight edges' wear protection is available



* After hundreds of hours of R&D work, increased results in performance.
** When encountering quartz like hard formations, frequent pick change recommended as well as normal maintenance works to increase the life span of the auger.

OKK2s series - Conical Rock Augers

- Complete double flight & progressive auger design
- Super heavy duty torque resistancy and for heavy duty rock ground conditions
- New improved design for increased drilling performance*
- Performance proven, even for encountering quartz layers**
- With super HD tungsten carbide picks and special pick holders
- Both changeable and fixed pilot options are available
- Complete upper flight edges' wear protection is available

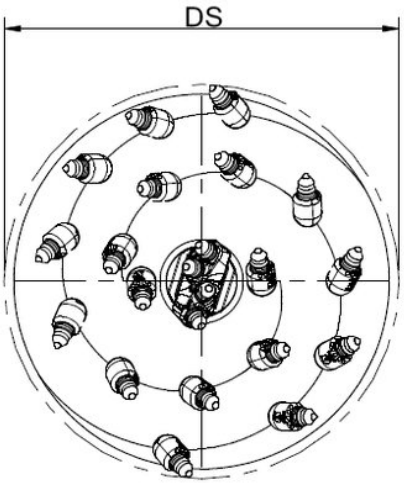


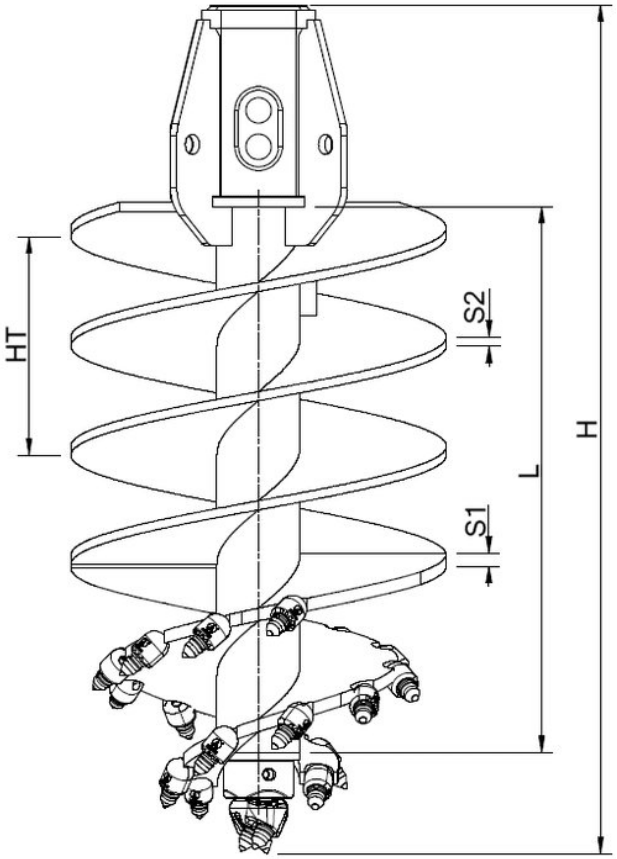




* After hundreds of hours of R&D work, increased results in performance.

** When encountering quartz like hard formations, frequent pick change recommended as well as normal maintenance works to increase the life span of the auger.



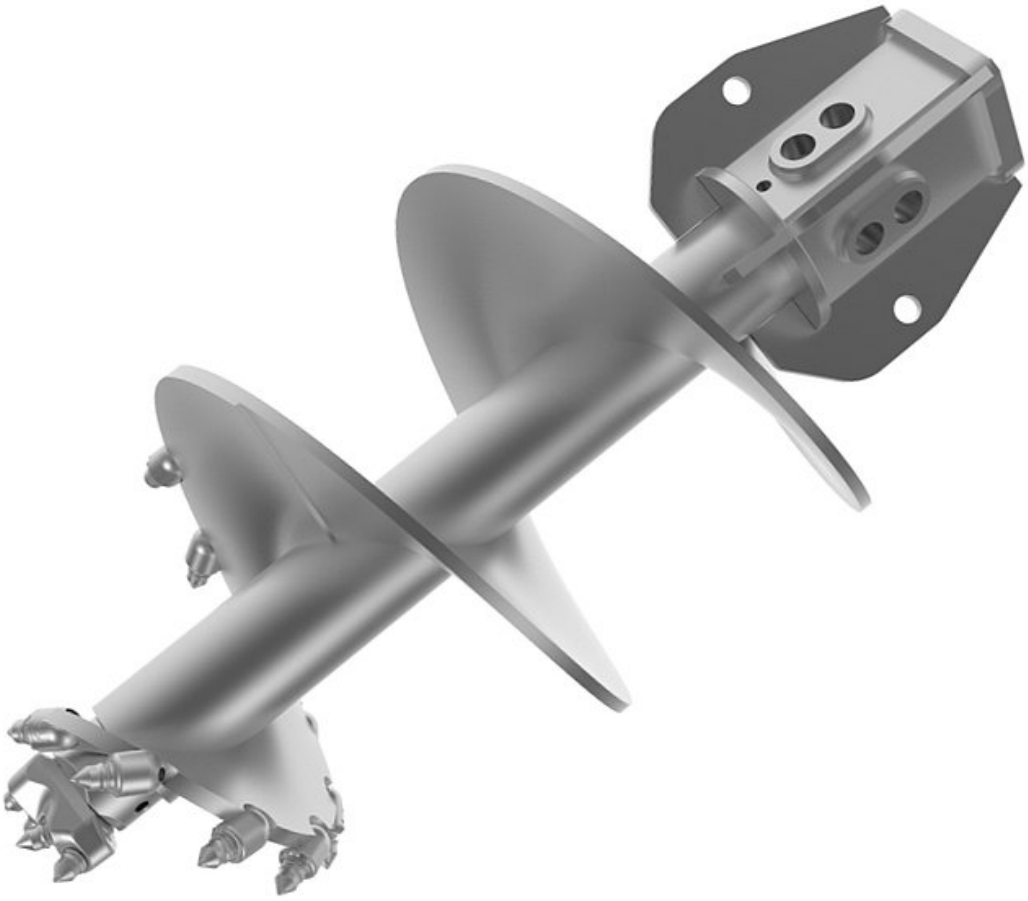


OKK2s Series Augers					
DS (Ø)	**Recommended Casing Usage (O.D./I.D.)**	**HT**	**L**	**S1**	**S2**
500	600/520	300 ~ 800	1500 (800 ~ 5000)	35 (30 ~ 40)	25 (20 ~ 40)
520	620/540				
550					
600	700/620				
630	730/650				
650	750/670				
700	800/720				
750					
780	880/800				
800					
880					
900	1000/920				
970	1080/1000				
980					
1000					
1060	1180/1100				
1080	1200/1120				
1100					
1160	1280/1200				
1180	1300/1220				
1200					
1260					
1300					
1350	1480/1400 1500/1400				
1400					
1450					
1500	1650/1550				
1550	1700/1600				
1600					
1650	1800/1700				
1700					
1750	1900/1800				
1800	2000/1880				
1900	2100/1980				
2000	2200/2080				
2300	2500/2380				

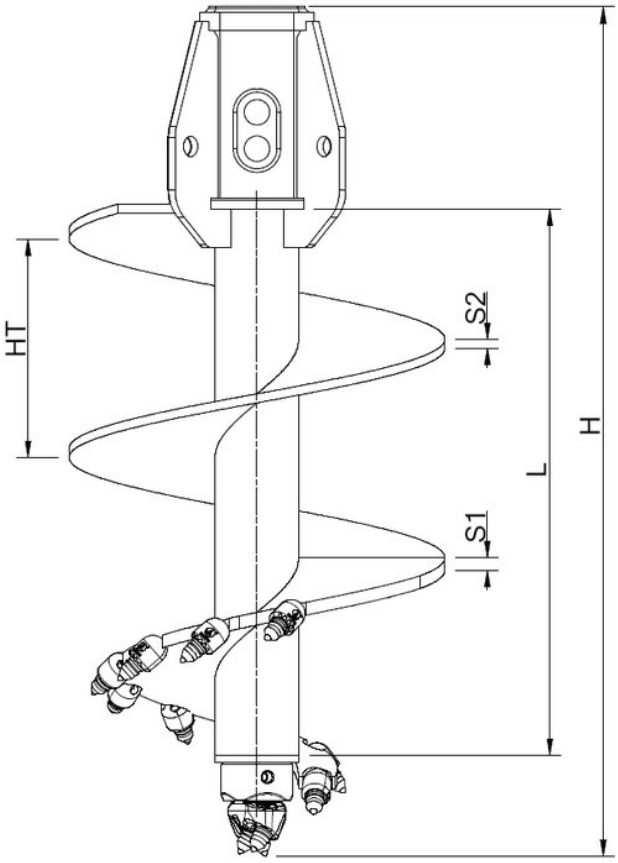
*** All sizes are given as mm unless indicated.**
*** All sizes can be customized according to client-specific requirements and availability. Intermediary dimensions are also available. Please ask.**
*** This table is only for developing an idea for the reader and subject to change without prior notice.**

Single Flight Series: OKKt Conical Augers

- Complete single flight and single start design for speed drilling
- New optimized pick allocation & progressive auger design
- Heavy duty rock ground conditions
- Moderately weaker rock formations compared to OKK double flight design
- With super HD tungsten carbide picks and special pick holders
- Both changeable and fixed pilot options are available
- Complete upper flight edges' wear protection is available





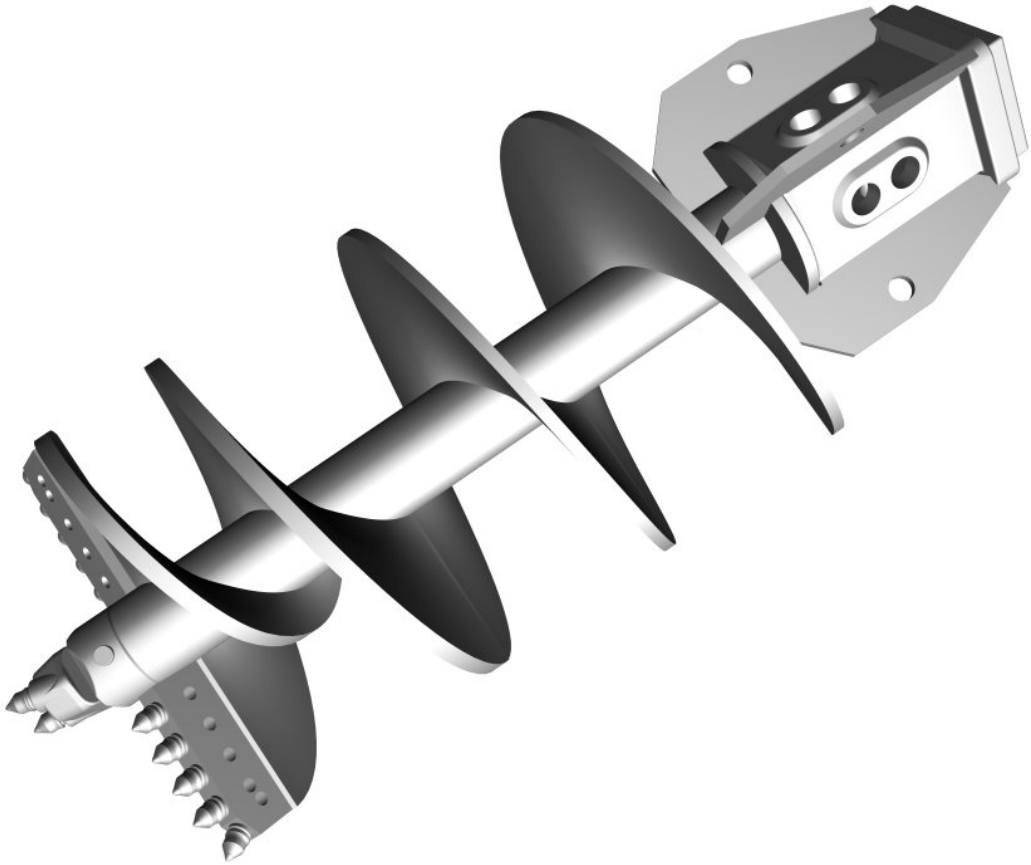


OKKt Series Augers					
DS (Ø)	**Recommended Casing Usage (O.D./I.D.)**	**HT**	**L**	**S1**	**S2**
500	600/520	250 ~ 800	1500 (800 ~ 5000)	35 (30 ~ 40)	25 (20 ~ 40)
520	620/540				
550					
600	700/620				
630	730/650				
650	750/670				
700	800/720				
750					
780	880/800				
800					
880					
900	1000/920				
970	1080/1000				
980					
1000					
1060	1180/1100				
1080	1200/1120				
1100					
1160	1280/1200				
1180	1300/1220				
1200					
1260					
1300					
1350	1480/1400 1500/1400				

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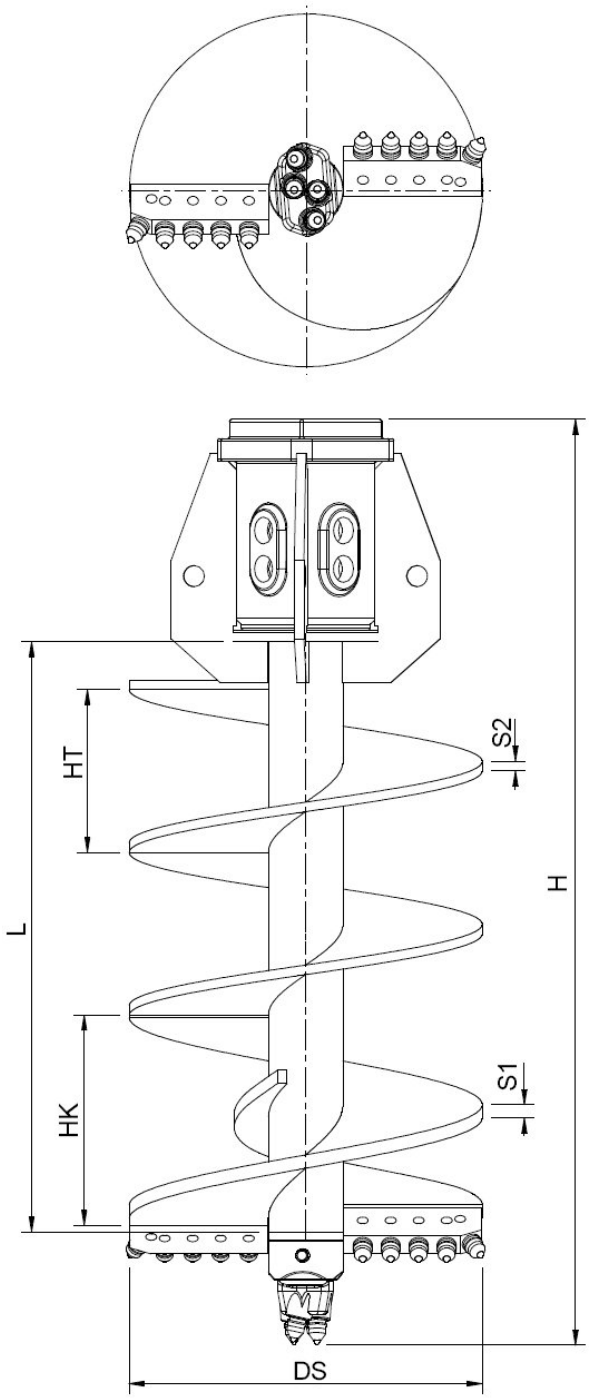
OKS series - Standard Rock Augers

- Double start flight design
- Medium soil conditions, rock & gravel mixed soil
- With super HD tungsten carbide picks and special monoblock pick holder design
- Both changeable and fixed pilot options are available
- Complete flight edges' wear protection is available
- Optional collar plate choice with extra supporting picks at the back of main blades







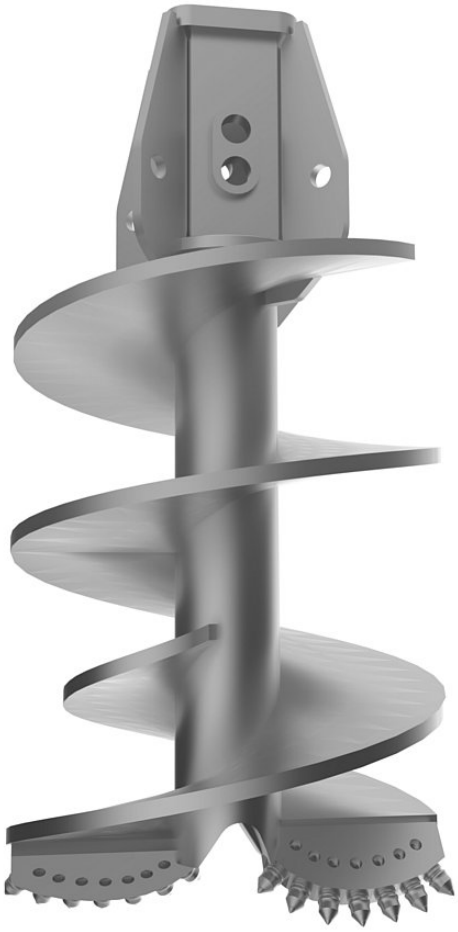


OKS Series Augers						
DS (Ø)	**Recommended Casing Usage (O.D./I.D.)**	**HT**	**HK**	**L**	**S1**	**S2**
500	600/520	250 ~ 800	250 ~ 800	1500 (800 ~ 5000)	30 ~ 40 (w/double layer support up to 80. 35+25 default)	25 (20 ~ 40)
520	620/540					
550						
600	700/620					
630	730/650					
650	750/670					
700	800/720					
750						
780	880/800					
800						
880						
900	1000/920					
970	1080/1000					
980						
1000						
1060	1180/1100					
1080	1200/1120					
1100						
1160	1280/1200					
1180	1300/1220					
1200						
1260						
1300						
1350	1480/1400 1500/1400					
1400						
1450						
1500	1650/1550					
1550	1700/1600					
1600						
1650	1800/1700					
1700						
1750	1900/1800					
1800	2000/1880					
1900	2100/1980					
2000	2200/2080					
2300	2500/2380					

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*** This table is only for developing an idea for the reader and subject to change without prior notice.**

OKP series - Pilotless Rock Augers

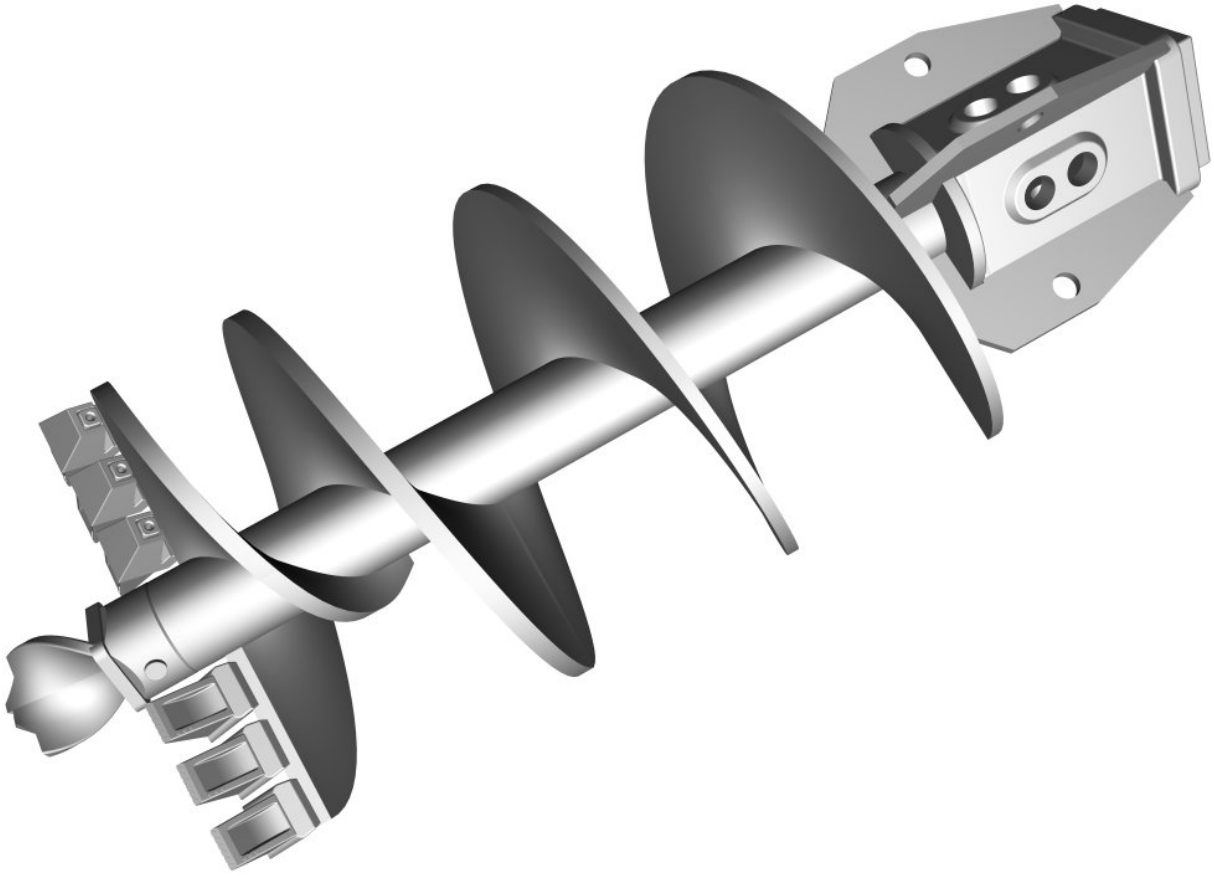
- Rock auger without pilot
- Double start flight design
- Medium soil conditions, rock & gravel mixed soil, fractured rock formations
- With super HD tungsten carbide picks and special monoblock pick holder design
- Complete flight edges' wear protection is available
- Optional collar plate choice with extra supporting picks at the back of main blades



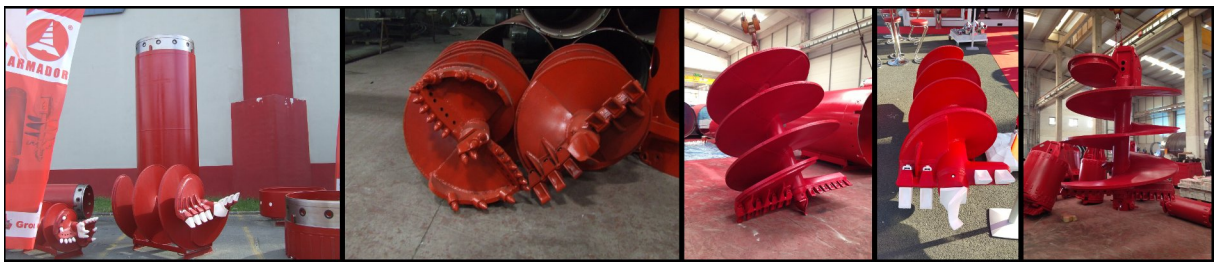


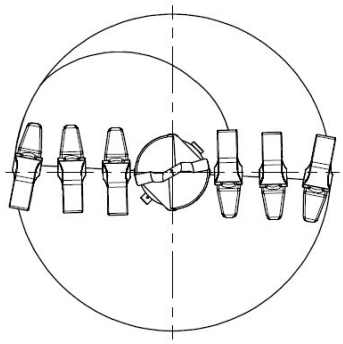
OTS series - Soil Augers

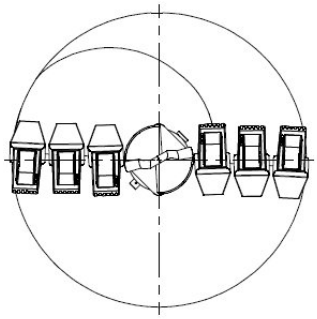
- Double start flight design
- Clay, silt, sand and gravel mixed soil conditions
- Both long attack ability, excavation type teeth and heavy duty, carbide protected teeth options are available
- Changeable special alloy soil pilot
- Complete flight edges' wear protection is available
- Optional collar plate choice with extra supporting picks at the back of main blades

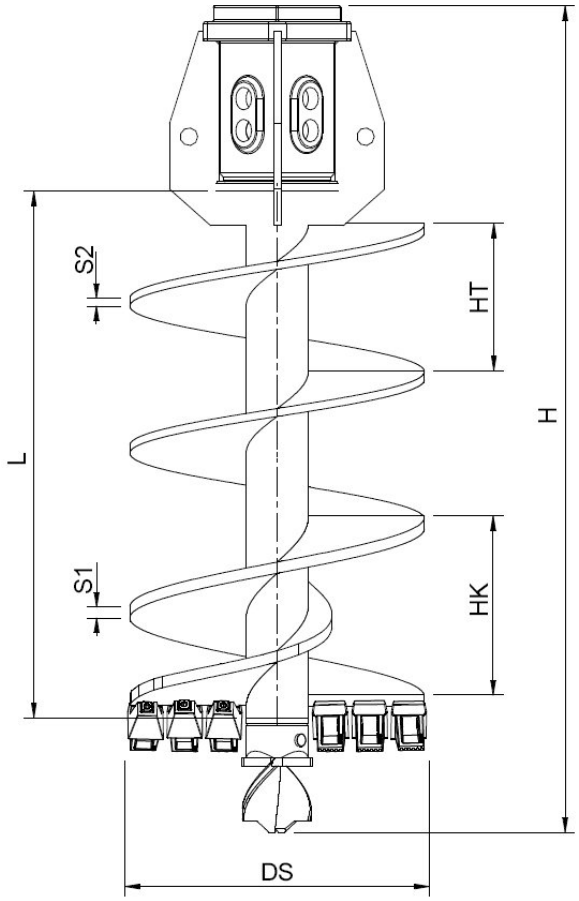












OTS Series Augers						
DS (Ø)	**Recommended Casing Usage (O.D./I.D.)**	**HT**	**HK**	**L**	**S1**	**S2**
500	600/520	250 ~ 800	250 ~ 800	1500 (800 ~ 5000)	30 ~ 40 (w/double layer support up to 80. 35+25 default)	25 (20 ~ 40)
520	620/540					
550						
600	700/620					
630	730/650					
650	750/670					
700	800/720					
750						
780	880/800					
800						
880						
900	1000/920					
970	1080/1000					
980						
1000						
1060	1180/1100					
1080	1200/1120					
1100						
1160	1280/1200					
1180	1300/1220					
1200						
1260						
1300						
1350	1480/1400 1500/1400					
1400						
1450						
1500	1650/1550					
1550	1700/1600					
1600						
1650	1800/1700					
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1750	1900/1800					
1800	2000/1880					
1900	2100/1980					
2000	2200/2080					
2300	2500/2380					

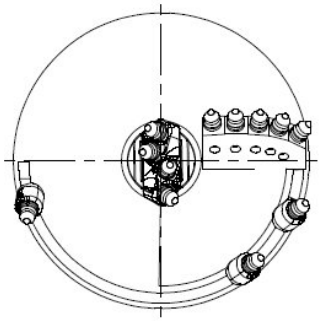
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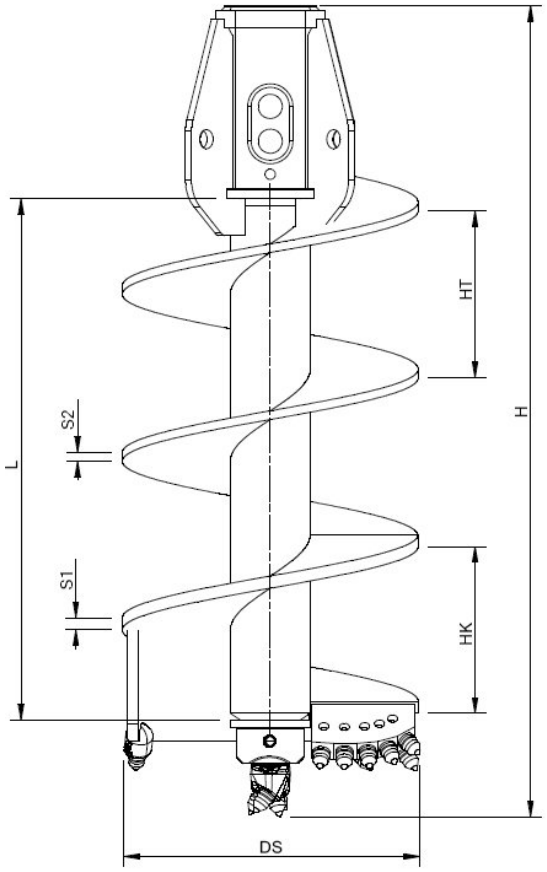
Single Flight Series: OKT (rock) & OTT (soil) Augers

- Complete single flight and single start design for speed drilling
- Mostly wet or mixed light soil conditions
- Both long attack ability, excavation type teeth and heavy duty, carbide protected teeth options are available for OTT soil series
- With super HD tungsten carbide picks and special monoblock pick holder design for OKT rock series
- Changeable special alloy soil pilot for OTT while both fixed and changeable rock pilot options for OKT are available
- Optional collar plate choice with extra supporting picks at the back of main blades
- Complete flight edges' wear protection is available









OKT & OTT Series Augers						
DS (Ø)	**Recommended Casing Usage (O.D./I.D.)**	**HT**	**HK**	**L**	**S1**	**S2**
500	600/520	250 ~ 800	250 ~ 800	1500 (800 ~ 5000)	30 ~ 40 (w/double layer support up to 80. 35+25 default)	25 (20 ~ 40)
520	620/540					
550						
600	700/620					
630	730/650					
650	750/670					
700	800/720					
750						
780	880/800					
800						
880						
900	1000/920					
970	1080/1000					
980						
1000						
1060	1180/1100					
1080	1200/1120					
1100						
1160	1280/1200					
1180	1300/1220					
1200						
1260						
1300						
1350	1480/1400 1500/1400					

*** All sizes are given as mm unless indicated.**
*** All sizes can be customized according to client-specific requirements and availability. Intermediary dimensions are also available. Please ask.**
*** This table is only for developing an idea for the reader and subject to change without prior notice.**

BUCKETS

- Armador buckets are designed to show the best performance at every relevant ground conditions.
- Special interior designs for easy unloading operation.
- Strong, problem free automatic, automatic plus manual and manual-only opening systems are available.
- High mechanical resistance for extending the lifetime of the tool.
- Unbeatable, strong hinge mechanisms are our first priority.
- The kelly boxes can be manufactured custom sized and shaped for every kind of drilling rigs.
- On request, every type of hard-facing and wear protection are available. Optional Super High Wear Protection solutions up to 2400 HV (Vickers) hardness tungsten carbide particles + 35% ~50 HRC hardness matrix coatings are also available on some certain parts.
- Although our standard products are based on two different models, on request, custom types can be manufactured.

Our main double layer revolving, single & double blade (start) models are:

- Soil Buckets (BKU series)
  - Straight/flat body design
  - Conical body design
- Rock Buckets (BKA series)
  - Straight/flat body design
  - Conical body design

For cleaning the bottom of pile hole, please ask for BTM series Cleaning Buckets.

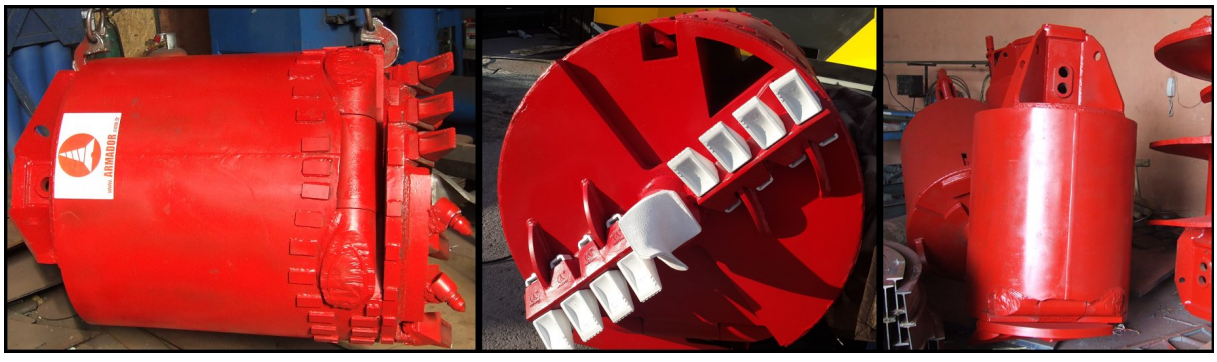
For single & double start non-revolving models and various custom solutions (like older BCA, BKO and similar series) we are also ready to help.

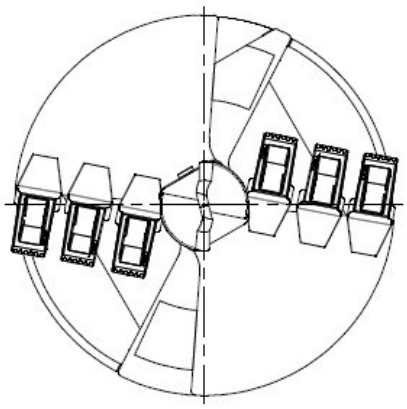
BKU series - Soil Buckets (straight body)

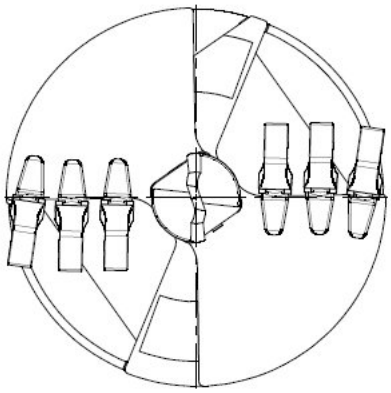
- Sand and gravel mixed soil, light wet clay and mud type
- Higher material loading capacity
- Double layer revolving bottom cover design with high thickness for durability
- Both long attack ability, excavation type teeth and heavy duty, carbide protected teeth options are available
- Changeable special alloy soil pilot
- Complete flight edges' wear protection is available
- Optional collar plate choice with extra supporting picks at the back of main blades

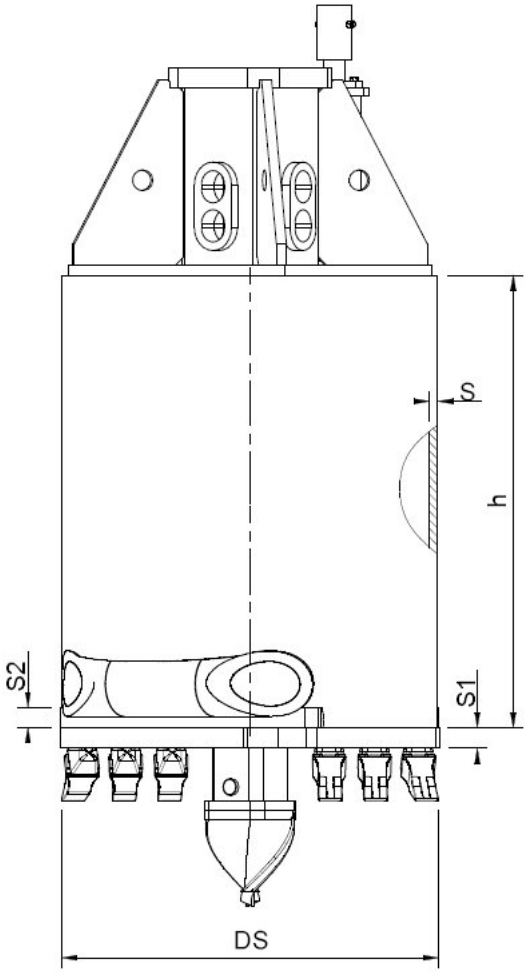










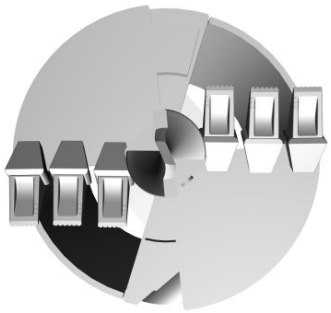


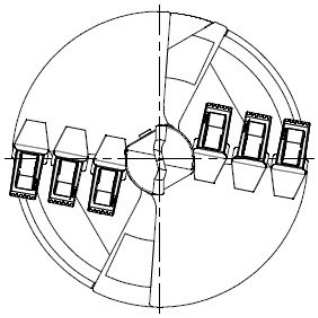
BKU Series Buckets					
DS (Ø)	**Recommended Casing Usage (O.D./I.D.)**	**S**	**h**	**S1**	**S2**
500	600/520	20 ~ 40	1200 (800 ~ 2500)	50 (30 ~ 70)	50 (30 ~ 70)
520	620/540				
550					
600	700/620				
630	730/650				
650	750/670				
700	800/720				
750					
780	880/800				
800					
880					
900	1000/920				
970	1080/1000				
980					
1000					
1060	1180/1100				
1080	1200/1120				
1100					
1160	1280/1200				
1180	1300/1220				
1200					
1260					
1300					
1350	1480/1400 1500/1400				
1400					
1450					
1500	1650/1550				
1550	1700/1600				
1600					
1650	1800/1700				
1700					
1750	1900/1800				
1800	2000/1880				
1900	2100/1980				
2000	2200/2080				
2300	2500/2380				

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*** All sizes can be customized according to client-specific requirements and availability. Intermediary dimensions are also available. Please ask.**
*** This table is only for developing an idea for the reader and subject to change without prior notice.**

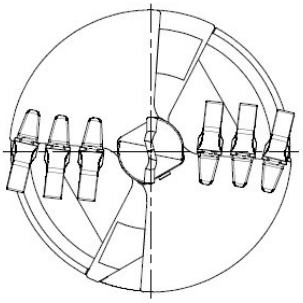
BKU series - Soil Buckets (conical body)

- Sand and gravel soil, wet clay and mud type
- Double layer revolving bottom cover design with high thickness for durability
- Conical body for easy unloading and protection
- Both long attack ability, excavation type teeth and heavy duty, carbide protected teeth options are available
- Changeable special alloy soil pilot
- Various wear protection is available

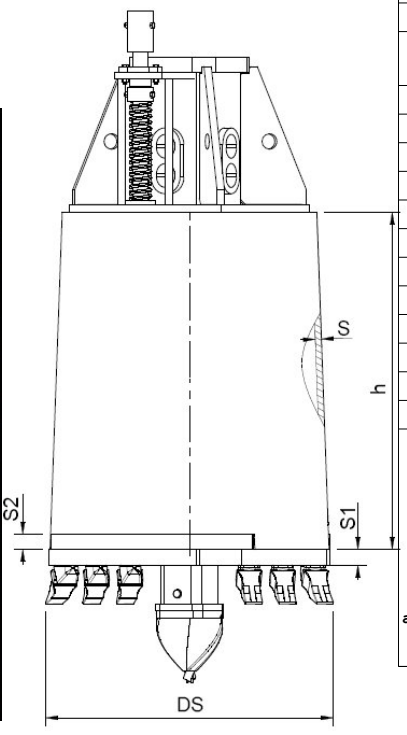










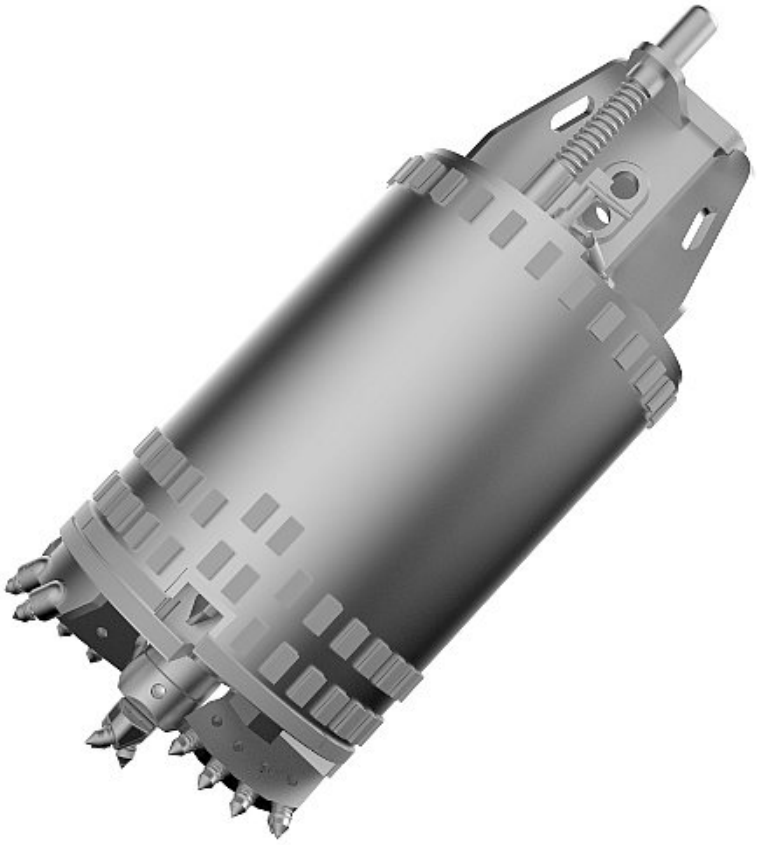


BKU Series Buckets					
DS (Ø)	Recommended Casing Usage (O.D./I.D.)	S	h	S1	S2
500	600/520	20 ~ 40	1200 (800 ~ 2450)	50 (30 ~ 70)	50 (30 ~ 70)
520	620/540				
550					
600	700/620				
630	730/650				
650	750/670				
700	800/720				
750					
780	880/800				
800					
880					
900	1000/920				
970	1080/1000				
980					
1000					
1060	1180/1100				
1080	1200/1120				
1100					
1160	1280/1200				
1180	1300/1220				
1200					
1260					
1300					
1350	1480/1400 1500/1400				
1400					
1450					
1500	1650/1550				
1550	1700/1600				
1600					
1650	1800/1700				
1700					
1750	1900/1800				
1800	2000/1880				
1900	2100/1980				
2000	2200/2080				
2300	2500/2380				

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* This table is only for developing an idea for the reader and subject to change without prior notice.

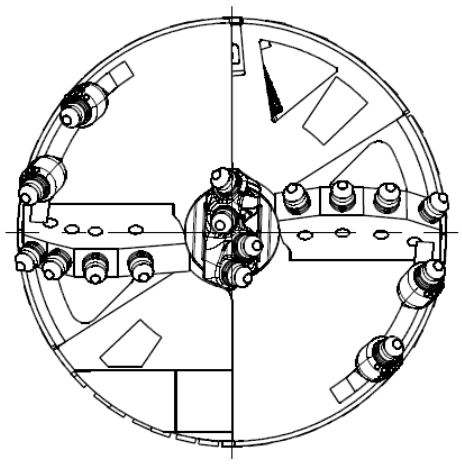
BKA series - Rock Buckets (straight body)

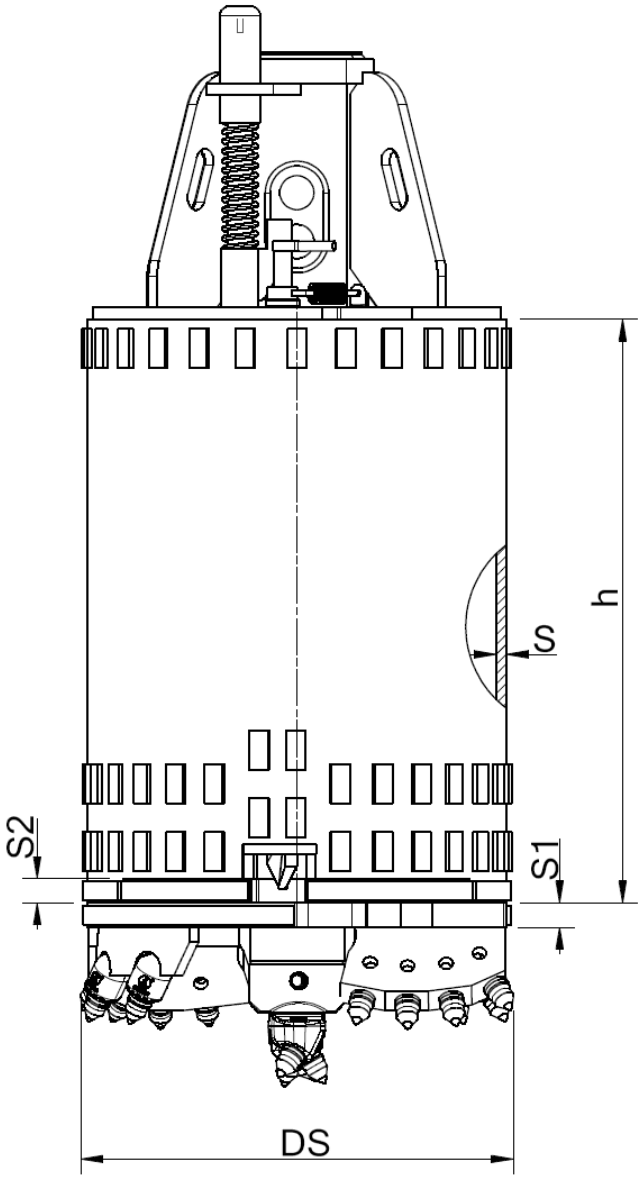
- Rock type
- Higher material loading capacity
- Double layer revolving bottom cover design with high thickness for durability
- With super HD tungsten carbide picks and special monoblock pick holder design
- Both changeable and fixed pilot options are available
- Various wear protection is available
- Optional collar plate choice with extra supporting picks at the back of main blades









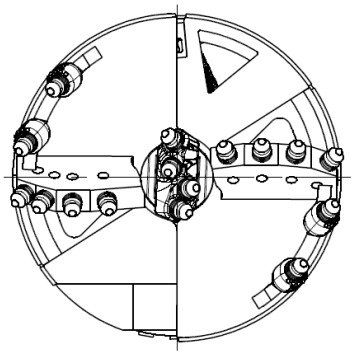


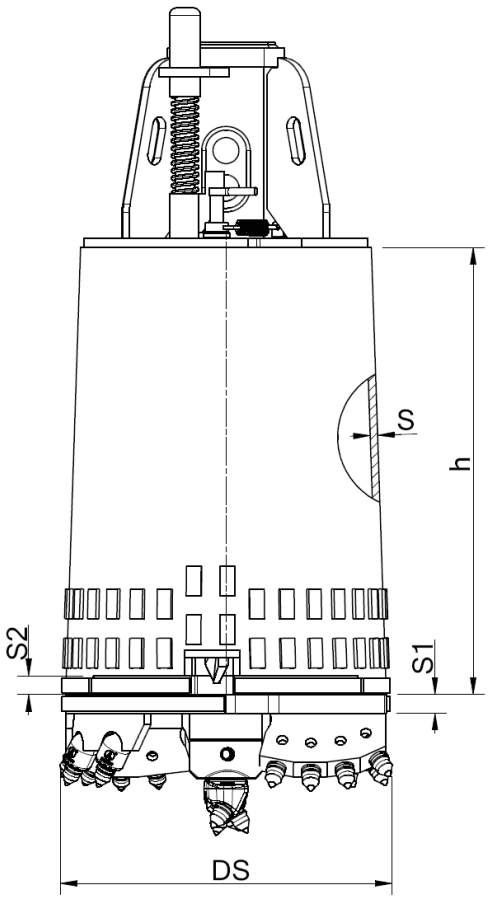
BKA Series Buckets					
DS (Ø)	**Recommended Casing Usage (O.D./I.D.)**	**S**	**h**	**S1**	**S2**
500	600/520	20 ~ 40	1200 (800 ~ 2500)	50 (30 ~ 70)	50 (30 ~ 70)
520	620/540				
550					
600	700/620				
630	730/650				
650	750/670				
700	800/720				
750					
780	880/800				
800					
880					
900	1000/920				
970	1080/1000				
980					
1000					
1060	1180/1100				
1080	1200/1120				
1100					
1160	1280/1200				
1180	1300/1220				
1200					
1260					
1300					
1350	1480/1400 1500/1400				
1400					
1450					
1500	1650/1550				
1550	1700/1600				
1600					
1650	1800/1700				
1700					
1750	1900/1800				
1800	2000/1880				
1900	2100/1980				
2000	2200/2080				
2300	2500/2380				

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BKA series - Rock Buckets (conical body)

- Rock type
- Conical body for easy unloading and protection
- Double layer revolving bottom cover design with high thickness for durability
- With super HD tungsten carbide picks and special monoblock pick holder design
- Both changeable and fixed pilot options are available
- Optional collar plate choice with extra supporting picks at the back of main blades
- Various wear protection is available

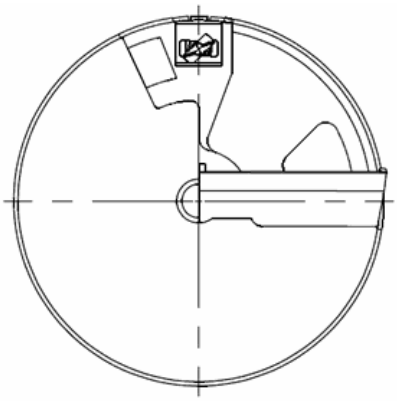


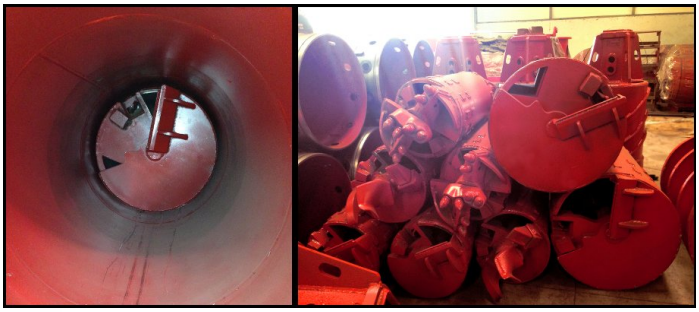


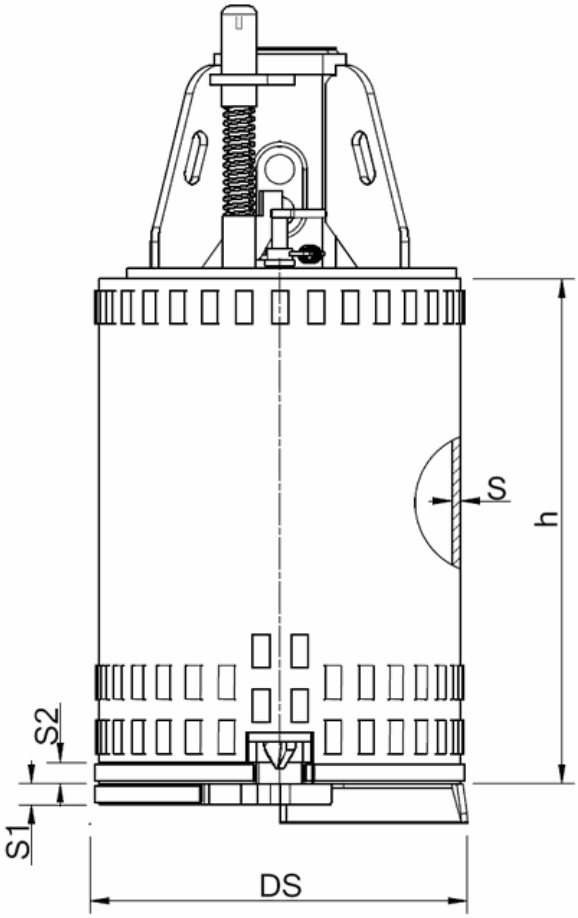


BTM series - Cleaning Buckets

- Pilotless design for smooth cleaning, flattening of hole base
- Both single start and double start options availability
- Abrasion resistant special alloy steels used for wear resistant main blade(s).
- Various wear protection elements is available on body components



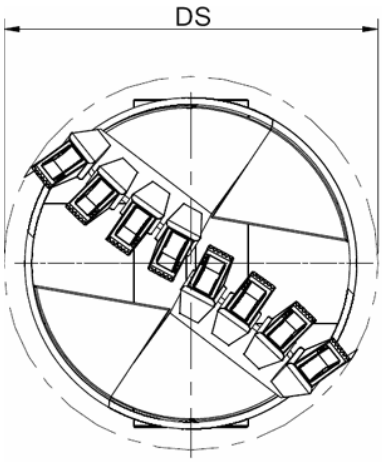


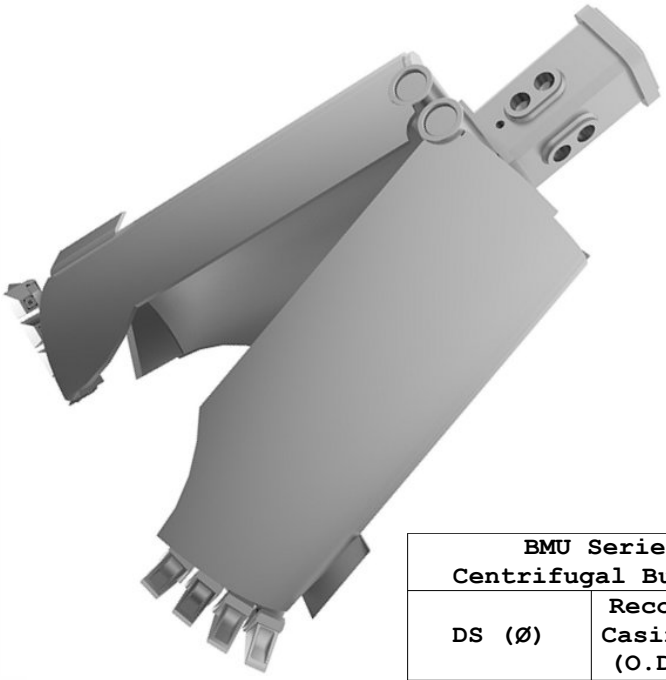


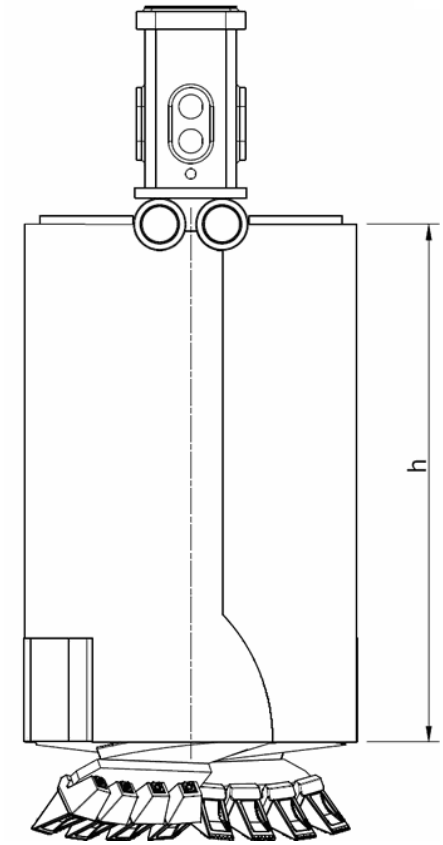


BMU series - Centrifugal Soil Buckets

- Mainly for light-duty machines
- Unload material with only spinning & without any locking mechanism for ease of operation
- Various wear protection elements is available on body components
- With flat teeth for soil and with rock picks in BMA series







BMU Series Centrifugal Buckets	
DS (Ø)	**Recommended Casing Usage (O.D./I.D.)**
500	600/520
520	620/540
550	
600	700/620
630	730/650
650	750/670
700	800/720
750	
780	880/800
800	
880	
900	1000/920
970	1080/1000
980	
1000	

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BCA series - Belling Buckets (with flat teeth)

- Carbide protected or normal flat teeth
- Very strong body elements
- High diameter increase ratio



BCN series - Belling Buckets (with round picks)

- Rock type round shank picks
- Very strong body elements
- High diameter increase ratio



COREBARRELS

- Our corebarrels have long lifetime by our choice of special steel alloys and welding techniques.
- The kelly boxes can be manufactured custom sized and shaped for every kind of drilling rigs.
- On request, every type of hard-facing and wear protection are available. Optional Super High Wear Protection solutions up to 2400 HV (Vickers) hardness tungsten carbide particles + 35% ~50 HRC hardness matrix coatings are also available on some certain parts.
- Although our standard products are based on two different models, on request, custom types can be manufactured.

You can choose according to your demands among our standard models, or request a custom model.

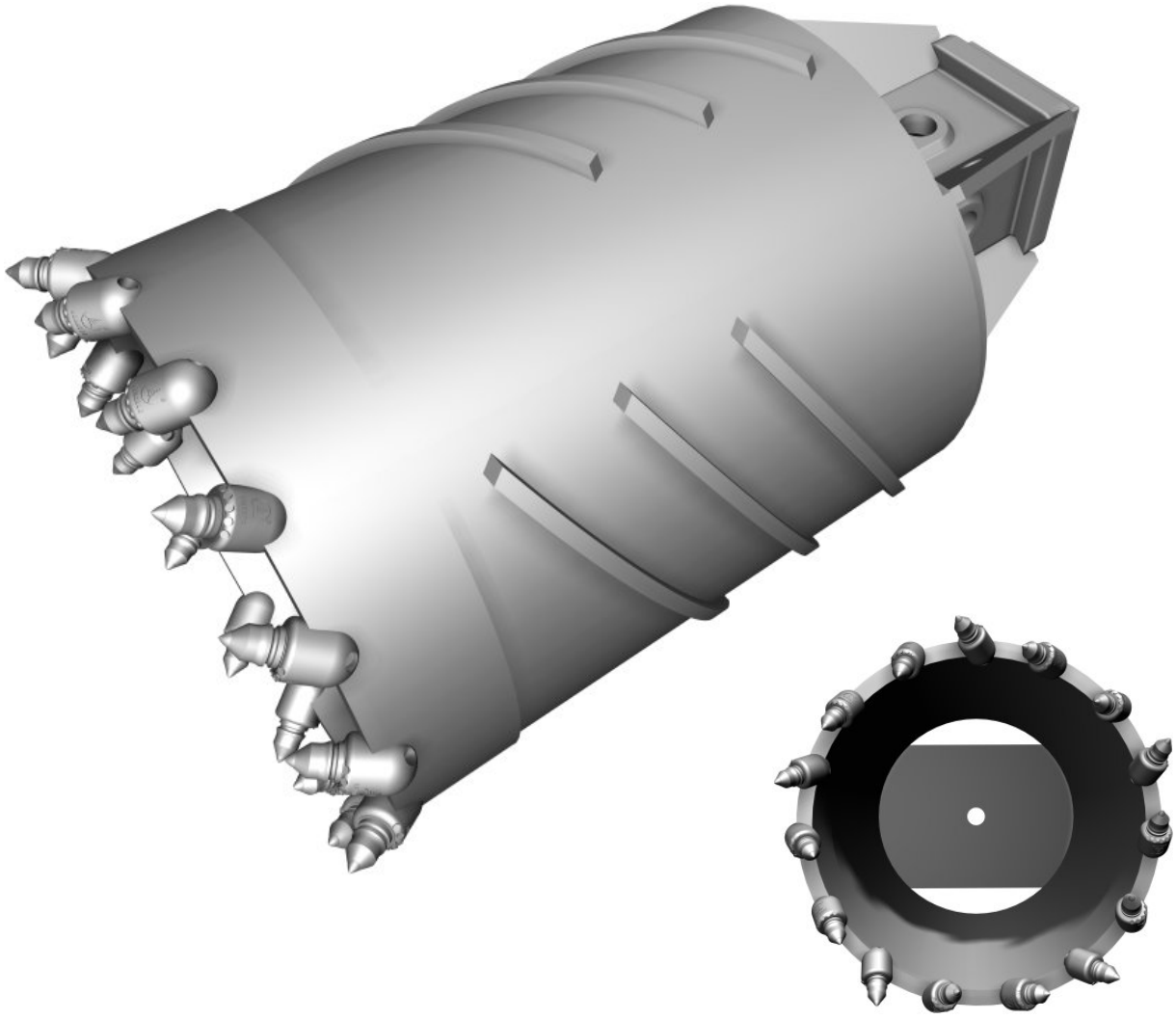
Our standard models are:

- Standard Corebarrel with round shank picks (KOS series)
- Changeable Bars Corebarrel (KOD series)
- Weld-on Bars Correbarrel (KOB series)
- Trap Design Corebarrel with weld-on bars or round shank picks (KOB series)

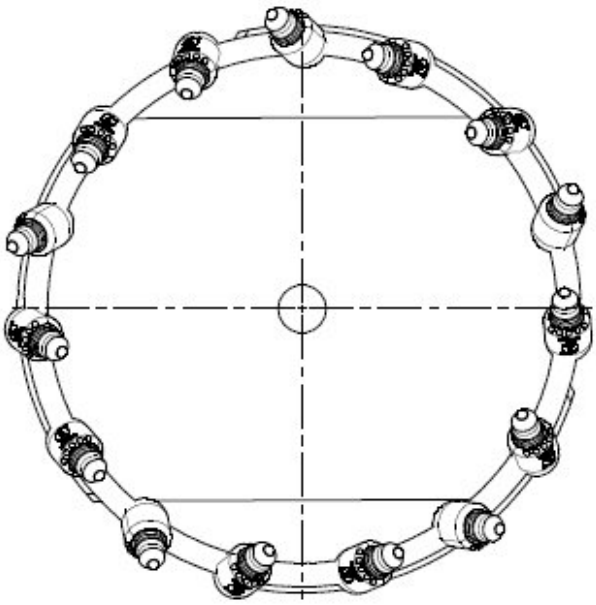
For reinforced concrete cutting or special challenging projects, we also have the option to customize our KOS type corebarrels with weld-on bar teeth as seen on our KOB series.

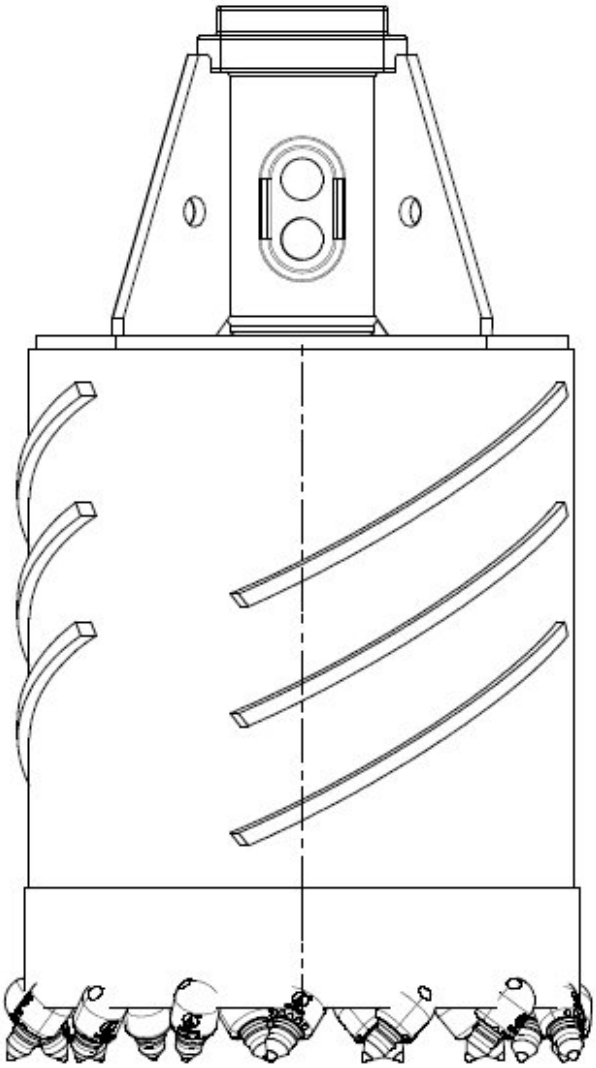
KOS series - Standard Corebarrels

- High penetration rate and drilling performance
- Strong body and kelly box support design
- Special placement of round shank picks to protect the body
- With super HD tungsten carbide picks and special carbide inserted pick holders
- Thick bottom ring (crown) as default and various wear protection choices are available









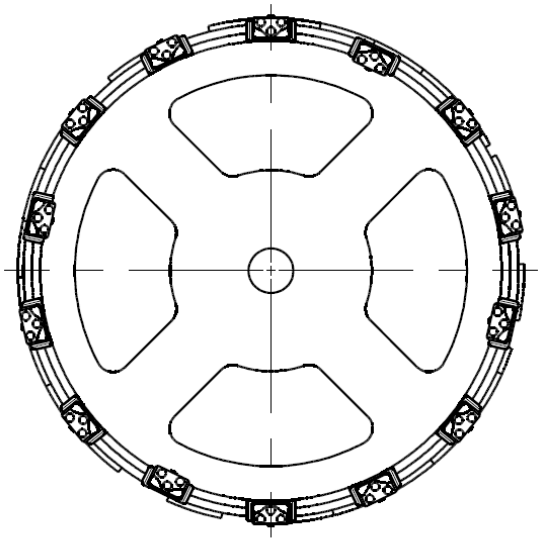
KOS Series Corebarrels	
DS (Ø)	**Recommended Casing Usage (O.D./I.D.)**
500	600/520
520	620/540
550	
600	700/620
630	730/650
650	750/670
700	800/720
750	
780	880/800
800	
880	
900	1000/920
970	1080/1000
980	
1000	
1060	1180/1100
1080	1200/1120
1100	
1160	1280/1200
1180	1300/1220
1200	
1260	
1300	
1350	1480/1400 1500/1400
1400	
1450	
1500	1650/1550
1550	1700/1600
1600	
1650	1800/1700
1700	
1750	1900/1800
1800	2000/1880
1900	2100/1980
2000	2200/2080
2300	2500/2380

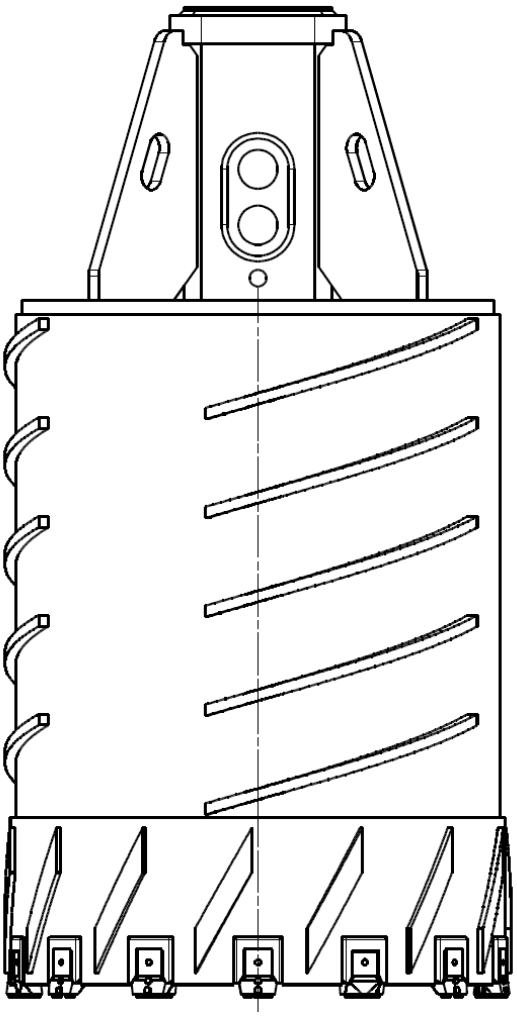
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KOD series - Changeable Bars Corebarrels

- Strong body and kelly box support design
- Useful on especially steel reinforced concrete cutting having reduced wrapping / coiling effect on teeth compared to KOS round pick systems
- Special placement of quick change bars teeth to protect the body
- Thick bottom ring (crown) as default and various wear protection choices are available







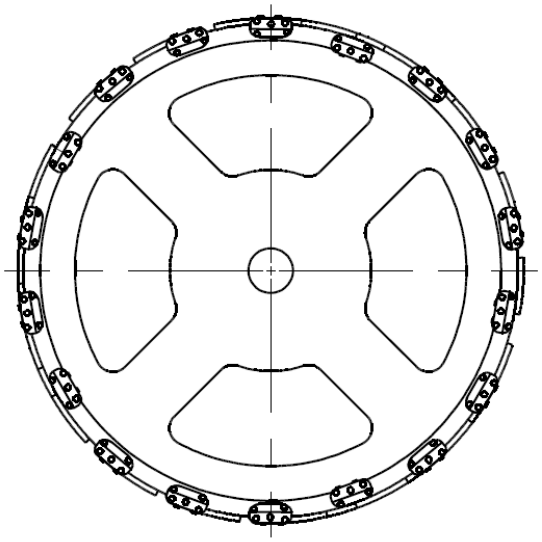
KOD Series Corebarrels	
DS (Ø)	**Recommended Casing Usage (O.D./I.D.)**
500	600/520
520	620/540
550	
600	700/620
630	730/650
650	750/670
700	800/720
750	
780	880/800
800	
880	
900	1000/920
970	1080/1000
980	
1000	
1060	1180/1100
1080	1200/1120
1100	
1160	1280/1200
1180	1300/1220
1200	
1260	
1300	
1350	1480/1400 1500/1400
1400	
1450	
1500	1650/1550
1550	1700/1600
1600	
1650	1800/1700
1700	
1750	1900/1800
1800	2000/1880
1900	2100/1980
2000	2200/2080
2300	2500/2380

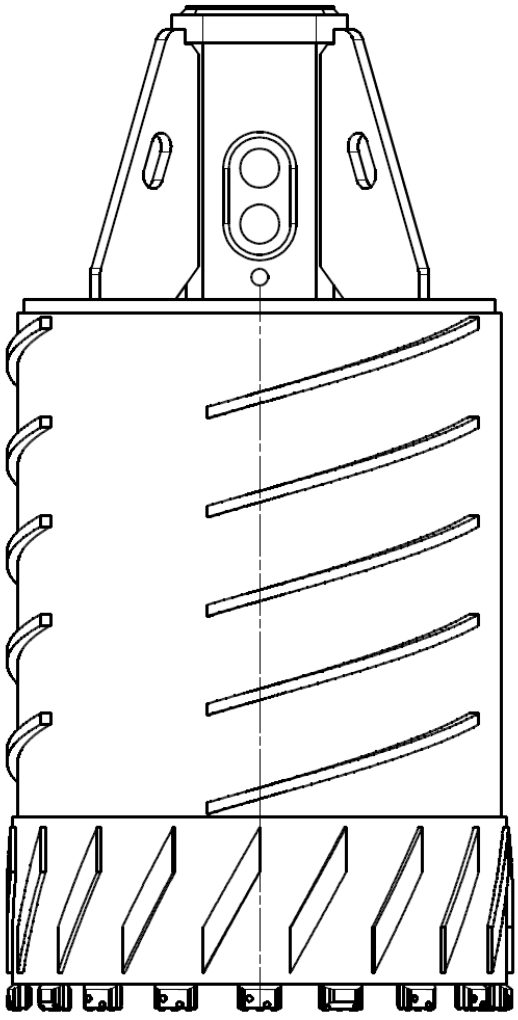
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KOK series - Weld-on Bars Corebarrels

- Strong body and kelly box support design
- Useful on especially steel reinforced concrete cutting having reduced wrapping / coiling effect on teeth compared to KOS round pick systems
- Frequent teeth placement chance to reduce coiling, even more, compared to KOD Corebarrels
- Special placement of weld-on bars teeth to protect the body
- Thick bottom ring (crown) as default and various wear protection choices are available





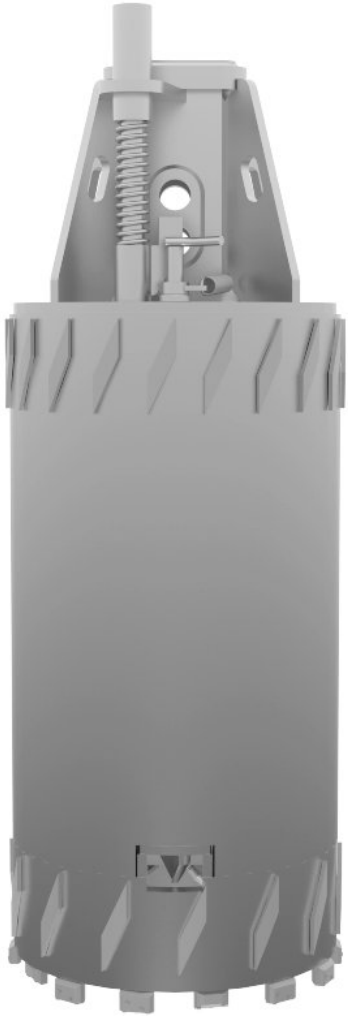


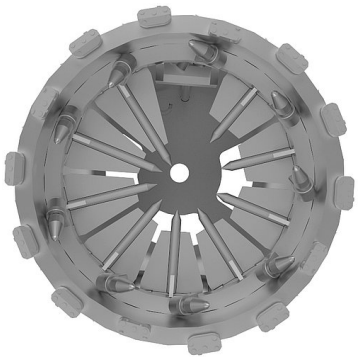
KOK Series Corebarrels	
DS (Ø)	**Recommended Casing Usage (O.D./I.D.)**
500	600/520
520	620/540
550	
600	700/620
630	730/650
650	750/670
700	800/720
750	
780	880/800
800	
880	
900	1000/920
970	1080/1000
980	
1000	
1060	1180/1100
1080	1200/1120
1100	
1160	1280/1200
1180	1300/1220
1200	
1260	
1300	
1350	1480/1400 1500/1400
1400	
1450	
1500	1650/1550
1550	1700/1600
1600	
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1700	
1750	1900/1800
1800	2000/1880
1900	2100/1980
2000	2200/2080
2300	2500/2380

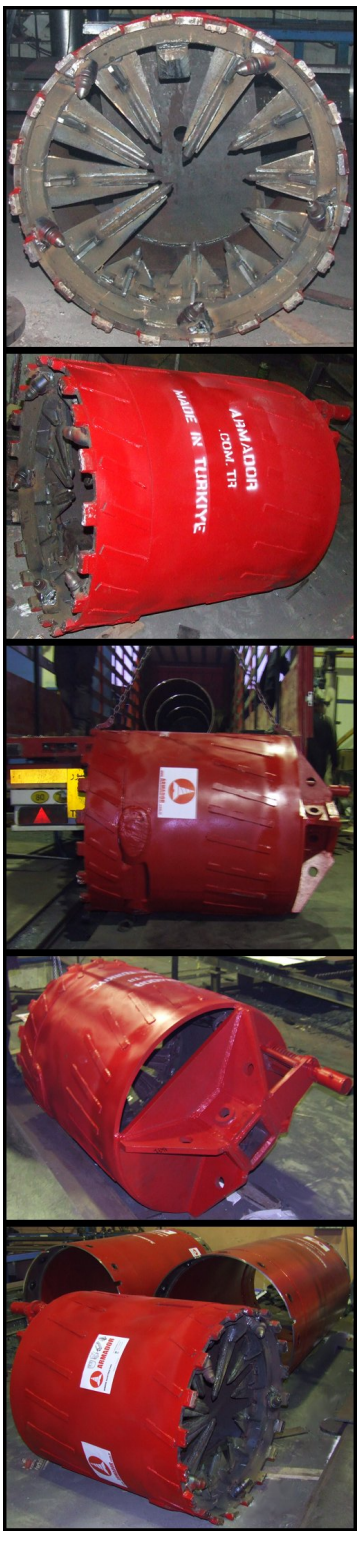
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*** This table is only for developing an idea for the reader and subject to change without prior notice.**

KOB series - Trap Design Corebarrels

- Strong body and kelly box support design
- Special proven trap design to get & hold block boulders
- With carbide inserted weld-on bars
- Easy unload, strong hinge mechanism







KOB Series Corebarrels	
DS (Ø)	Recommended Casing Usage (O.D./I.D.)
500	600/520
520	620/540
550	
600	700/620
630	730/650
650	750/670
700	800/720
750	
780	880/800
800	
880	
900	1000/920
970	1080/1000
980	
1000	
1060	1180/1100
1080	1200/1120
1100	
1160	1280/1200
1180	1300/1220
1200	
1260	
1300	
1350	1480/1400 1500/1400
1400	
1450	
1500	1650/1550
1550	1700/1600
1600	
1650	1800/1700
1700	
1750	1900/1800
1800	2000/1880
1900	2100/1980
2000	2200/2080
2300	2500/2380

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* This table is only for developing an idea for the reader and subject to change without prior notice.

CASINGS, CASING SHOES, CASING JOINTS

- Armador casings and casing shoes have high resistance and easy montage advantages.
- We use high quality carbide protection teeth for our casing shoes.
- Special metal alloys can be used for the joints.
- Montage can be done in a very short time by using screw ring joints.
- We use unique methods in manufacturing our casings. So, even in case of oscillator usage at the job site, performance of the product does not decrease.

Our casing types are:

- Double Walled Casings (SBC series)
- Single Walled Casings (SBT series)

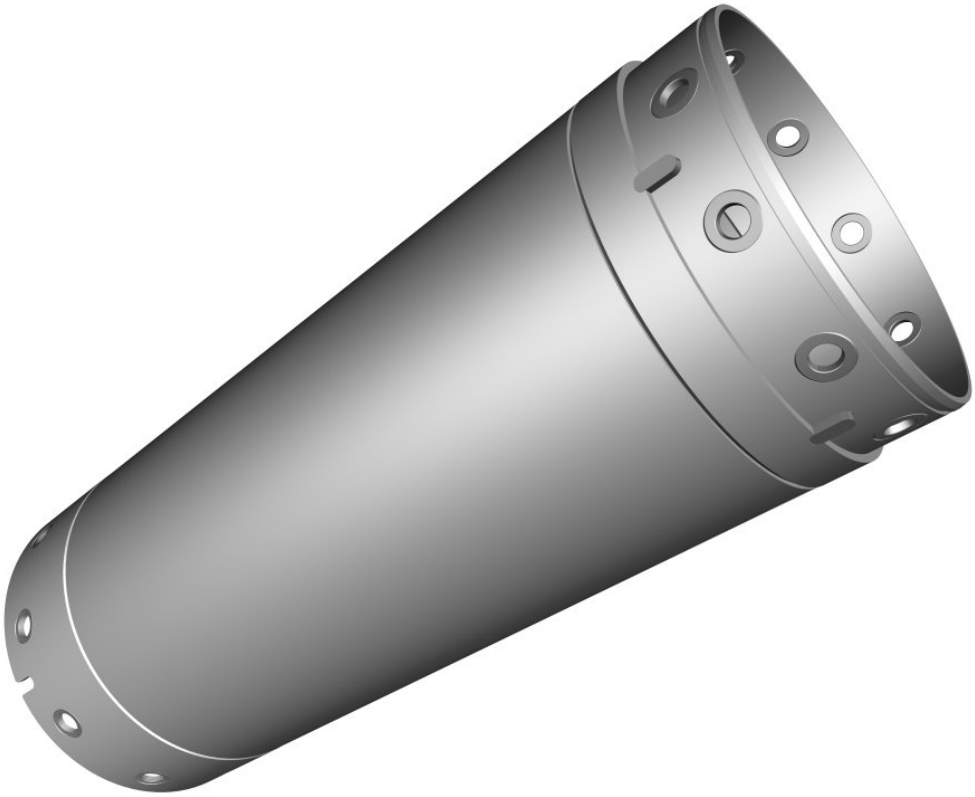
Casing Shoes (CRK series)

Casing Joints (SBK series)

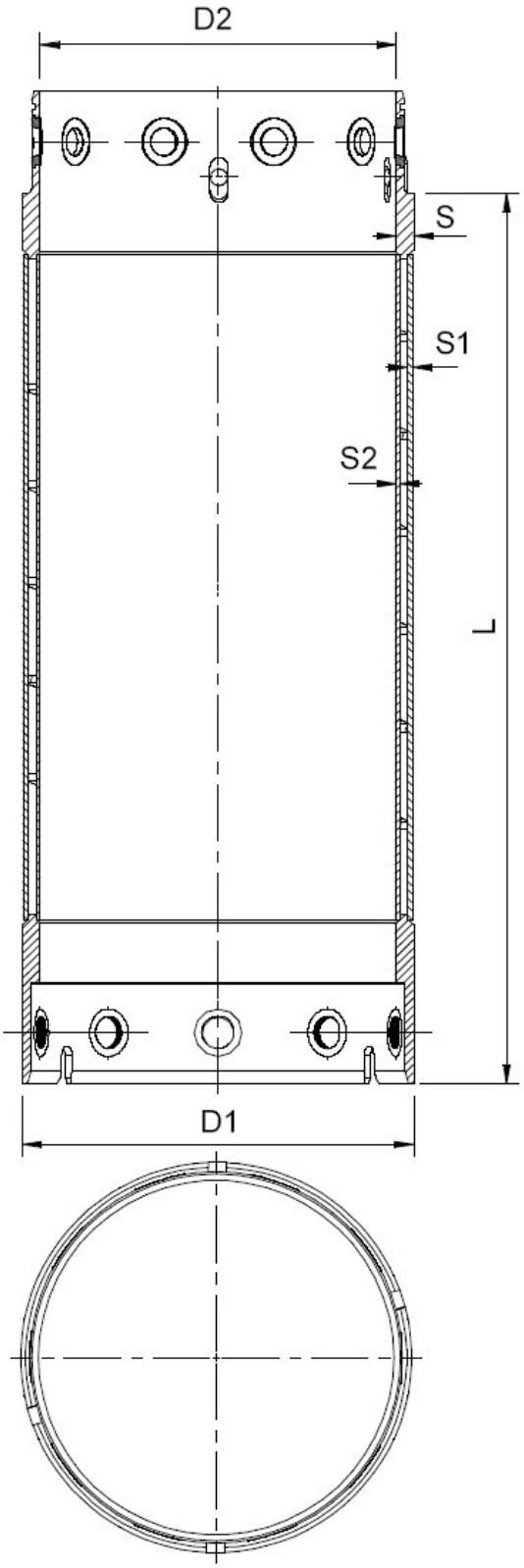




SBC series - Double Walled Casings



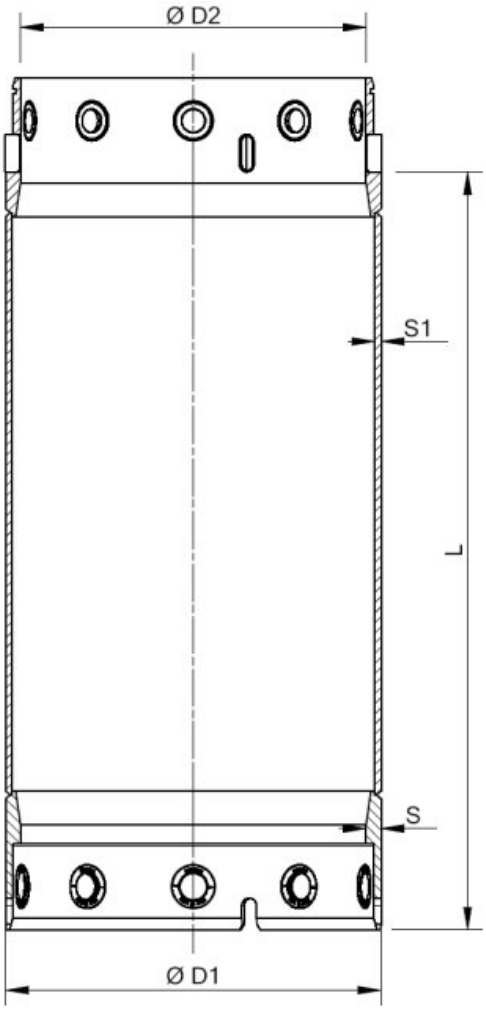


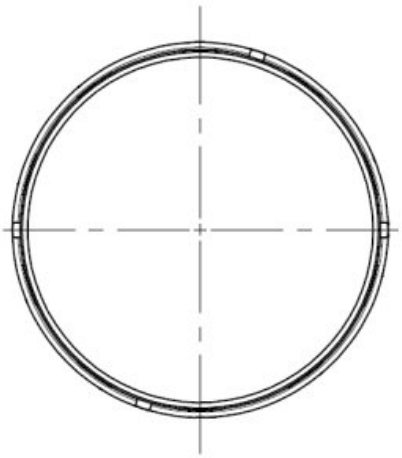


SBC Series Double Walled Casings							
D1 (O.D.)	**D2 (I.D.)**	**S1**	**S2**	**S**	**L**	**Number of screw bolts**	**Bolt style**
600	520	12	8	40	1m, 2m, 3m, 4m, 5m, 6m & up to 12m	8	Type1
620	540	12	8	40		8	Type1
680	600	12	8	40		8	Type1
700	620	12	8	40		8	Type1
730	650	12	8	40		8	Type1
750	670	12	8	40		10	Type1
800	720	12	8	40		10	Type1
880	800	12	8	40		10	Type1
1000	920	12	8	40		10	Type1
1080	1000	14	8	40		10	Type1
1180	1100	16	8	40		12	Type1
1200	1120	16	8	40		12	Type1
1280	1200	16	8	40		12	Type1
1300	1220	16	8	40		12	Type1
1480	1400	16	10	40		12	Type1
1500	1400	20	10	50		12	Type2
1600	1500	20	10	50		12	Type2
1650	1550	20	10	50		12	Type2
1700	1600	20	10	50		12	Type2
1800	1700	20	10	50		16	Type2
1900	1800	20	10	50		16	Type2
2000	1880	20	15	60		12	Type3
2100	1980	20	15	60		12	Type3
2200	2080	20	15	60		12	Type3
2500	2380	20	15	60		16	Type3

*** All sizes are given as mm unless indicated.**
*** All sizes can be customized according to client-specific requirements and availability. Intermediary dimensions are also available. Please ask.**
*** This table is only for developing an idea for the reader and subject to change without prior notice.**

SBT series - Single Walled Casing





SBT Series Single Walled Casings						
D1 (O.D.)	D2 (I.D.)	S1	S	L	Number of screw bolts	Bolt style
600	520	10 ~ 40	40	1m, 2m, 3m, 4m, 5m, 6m & up to 12m	8	Type1
620	540		40		8	Type1
680	600		40		8	Type1
700	620		40		8	Type1
730	650		40		8	Type1
750	670		40		10	Type1
800	720		40		10	Type1
880	800		40		10	Type1
1000	920		40		10	Type1
1080	1000		40		10	Type1
1180	1100		40		12	Type1
1200	1120		40		12	Type1
1280	1200		40		12	Type1
1300	1220		40		12	Type1
1480	1400		40		12	Type1
1500	1400		50		12	Type2
1600	1500		50		12	Type2
1650	1550		50		12	Type2
1700	1600		50		12	Type2
1800	1700		50		16	Type2
1900	1800		50		16	Type2
2000	1880		60		12	Type3
2100	1980		60		12	Type3
2200	2080		60		12	Type3
2500	2380		60		16	Type3

*** All sizes are given as mm unless indicated.**
*** All sizes can be customized according to client-specific requirements and availability. Intermediary dimensions are also available. Please ask.**
*** This table is only for developing an idea for the reader and subject to change without prior notice.**





CRK series - Casing Shoes



All our casing shoes have solid wall body. The bottom crown part can be reinforced against wear by wear protection plates in various geometry.

Our casing shoes can be manufactured with weld-on bars type of teeth systems as well as quick change systems.

We can manufacture any requested length of casing shoes. With complete solid wall or semi-solid wall shoe body welded to double walled casing according to customized requests.



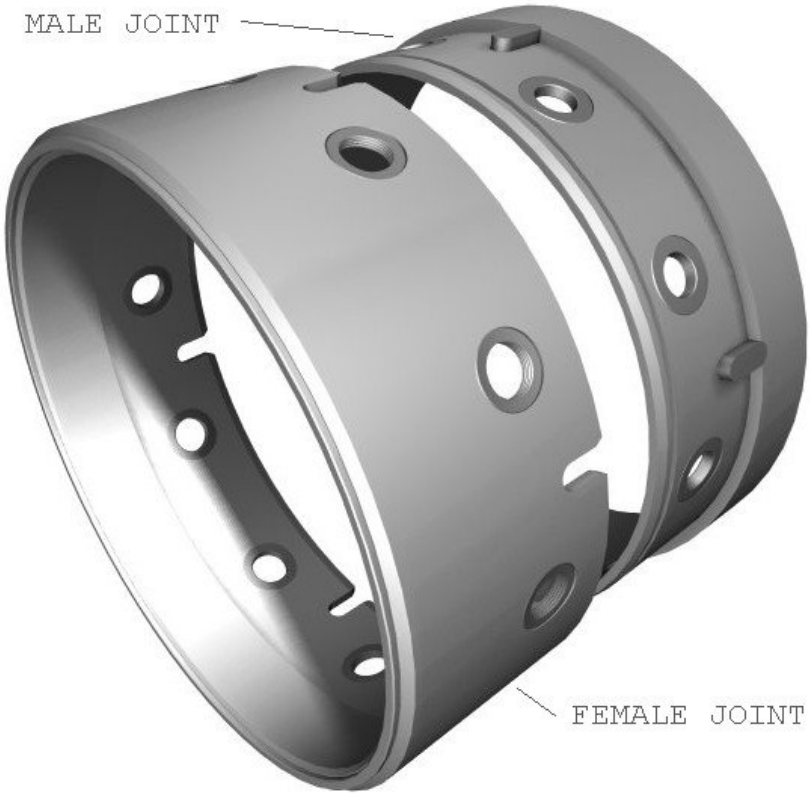
Improved High Penetration Angular Design CRK Casing Shoes

After several years of various field testing in different parts of the world, we developed an optimum design to increase casing shoes drilling performance. One of the best value example of casing shoe that money can buy. Worth to try to speed up your drilling performance at job site, if you have casing projects. Does not matter, either you have a short or long version requirement, weld-on bars or quick change choice, we have a solution for you. Our innovative solution on the casing shoes may bring high productivity in casing driving.



SBK series - Casing Joints

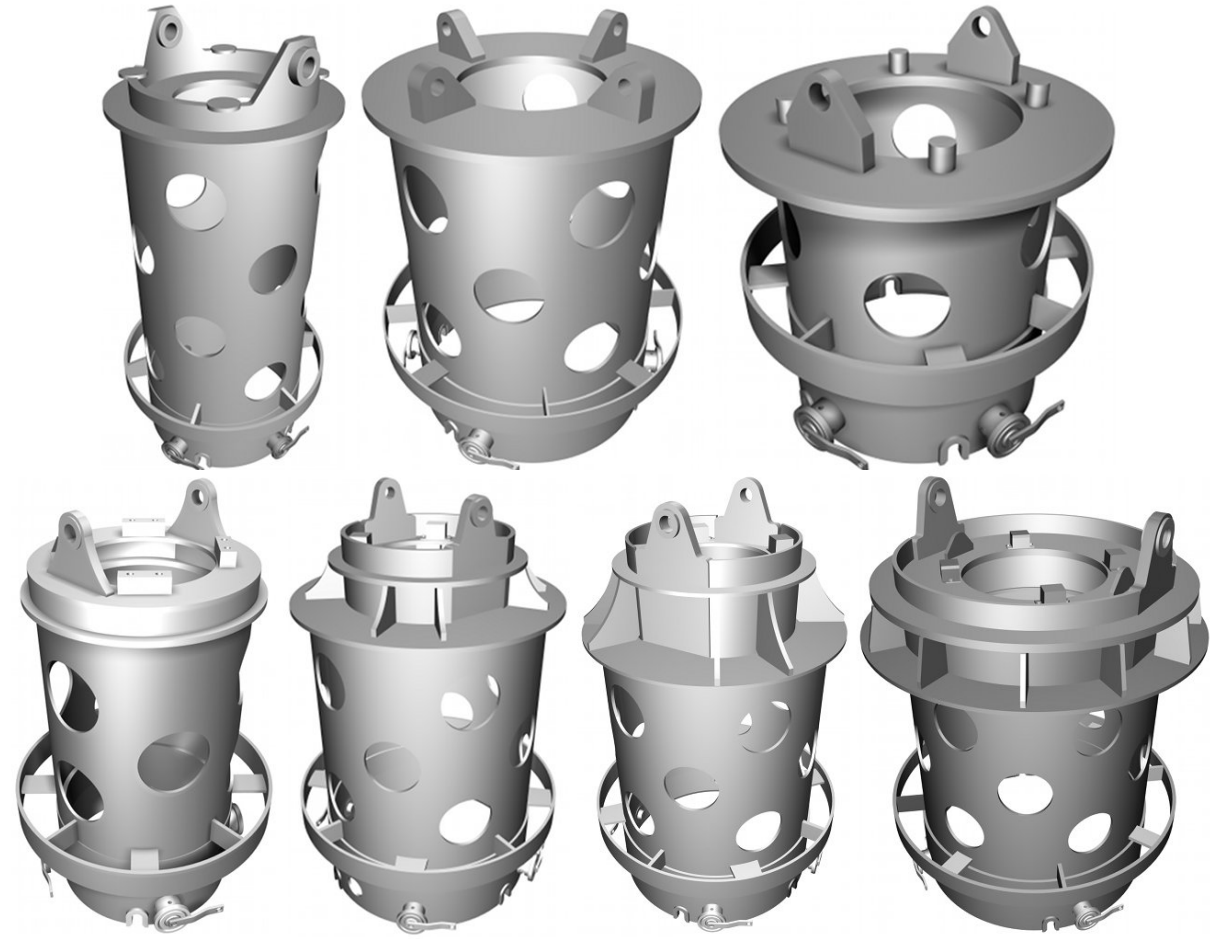
We can supply both male (SBKe series) and female (SBKd series) casing joints as well as complete male+female sets with all necessary threaded rings, unthreaded conical rings, screw bolts and stopper key inserts. If casing o-rings are needed, please ask as a separate request. Our joints are shipped without painting for easy welding but oiled to be protected from short term corrosion.



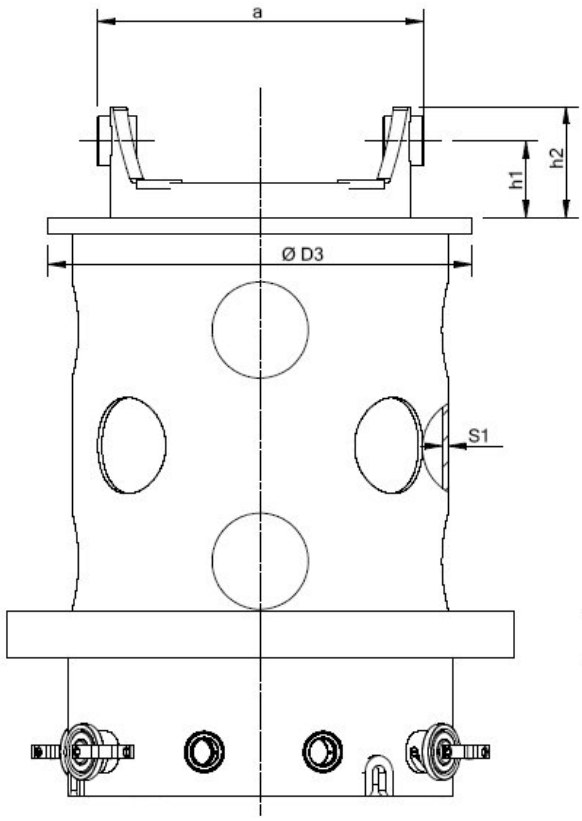


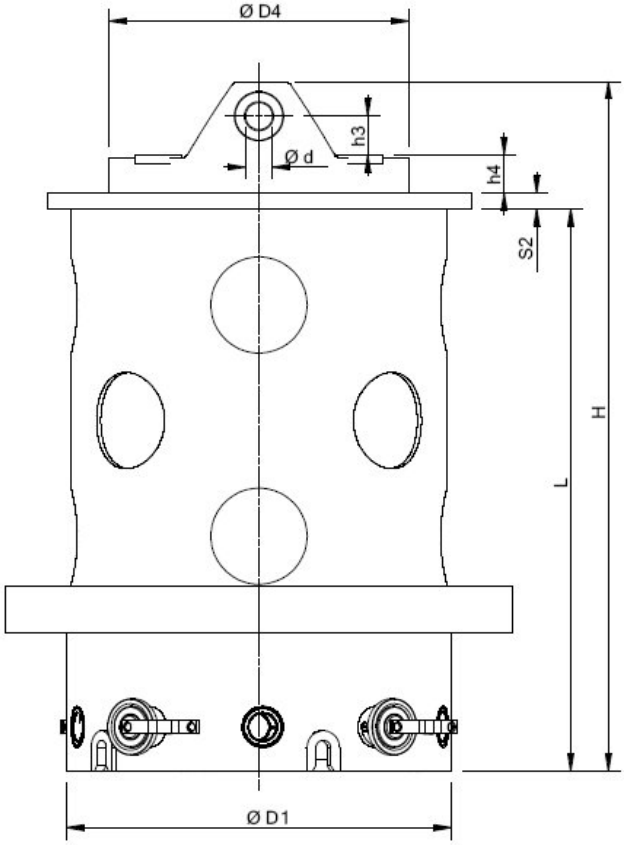
TWISTERS (Casing Adaptors)

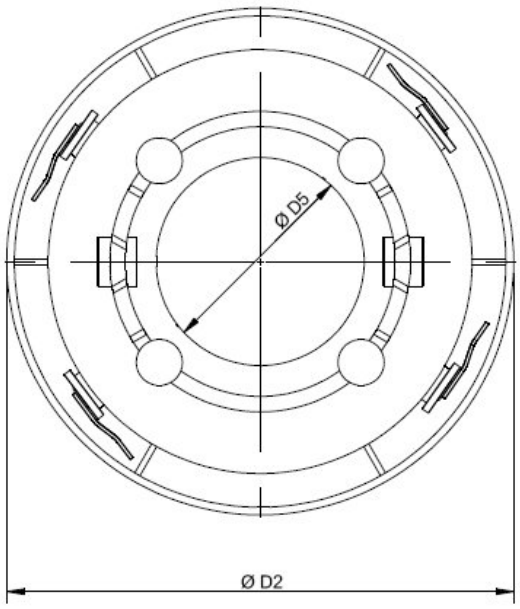
ADT series - Twisters

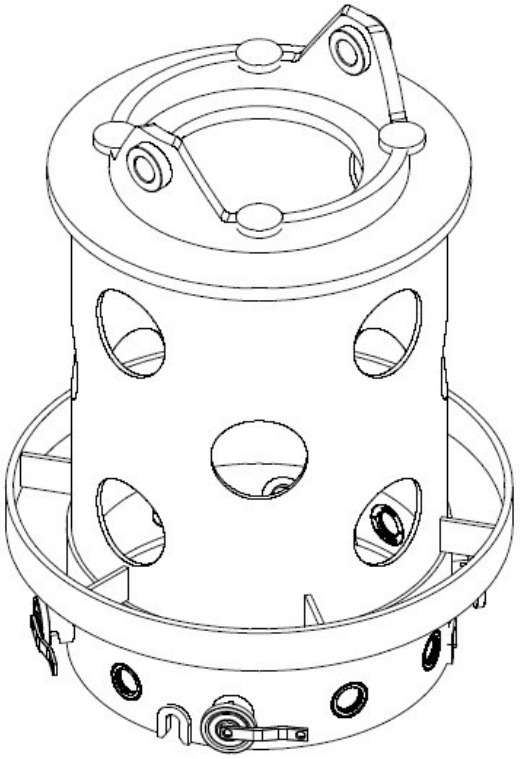





a
h1
h2
Ø D3
S1

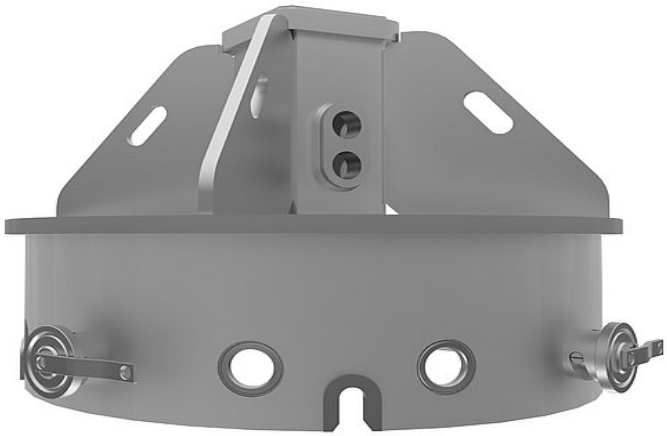

Ø D4
h3
Ø d
h4
S2
H
L
Ø D1


Ø D5
Ø D2



ADK series - Kelly Driven Twisters

- For non-rotary casing driving requirements, possibility to drive the casings by kelly bar
- Strong system & with any height requirements
- With or without semi-automatic locks
- With or without supporting screw bolts options







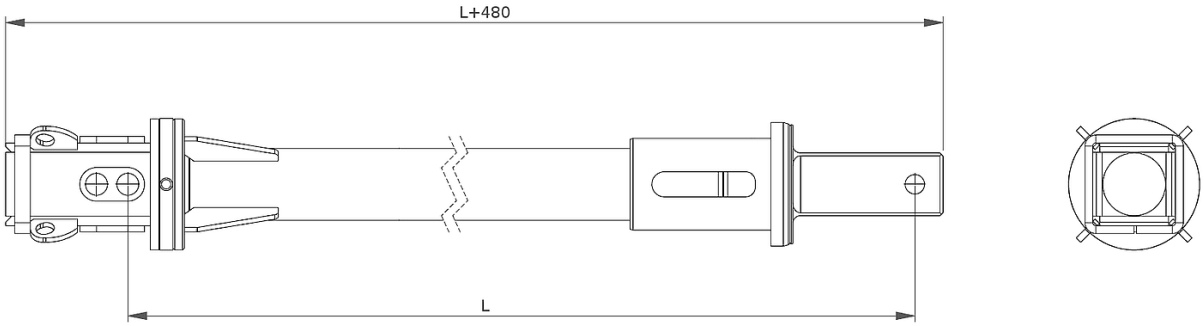


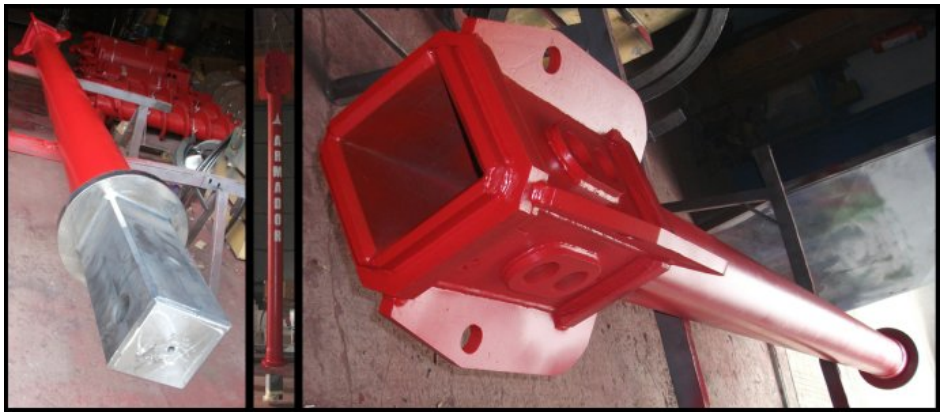
KELLY EXTENSIONS

In case of minor length extension requirements, our superior kelly extension solutions will help you succeed in reaching more than your available kelly bar length at challenging projects.

KUZ series - Kelly Extension Bars







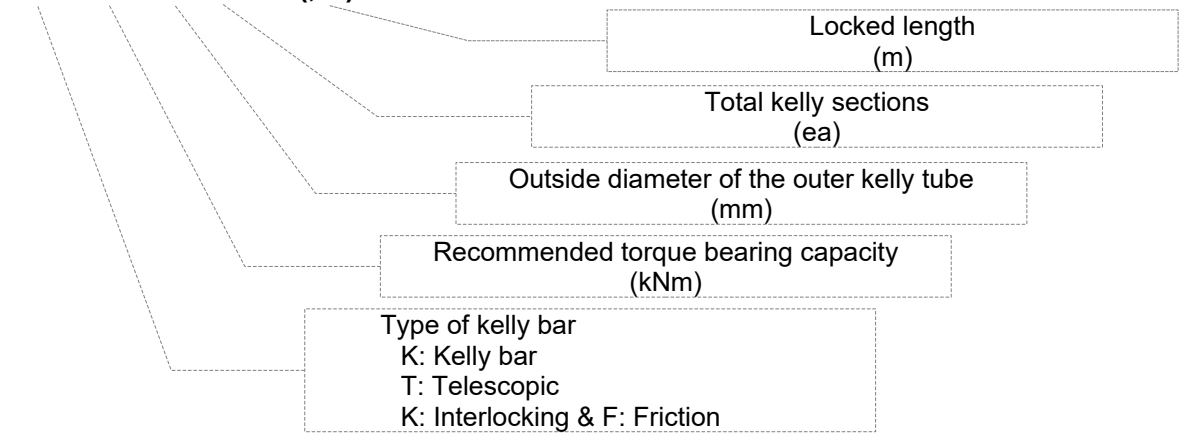
KELLY BARS

25 years of experience accumulation and increased customer demand, our group has developed our new kelly bar series KTK for interlocking type. From the start of 2016, we accept orders for new Kelly Bar production internationally. Celebrating our 30+ years, our kelly bars are preferred on international markets with appreciation as well.

We are focusing on mainly high torque requirement Piling Rigs' Interlocking Kelly Bars. That is mainly our expertise hits top on the harder to supply solutions in comparison to other manufacturers. Please ask for availability on what you are looking for. Other than our own production durable kelly bars, we also have a huge network all over the world to help you finding the right solution.

Our Kelly Bar Nomenclature:

KTK-nnn/ddd/s/mm(,m)*



1st Kelly tube OD (mm)	Common Kelly Models w/ sections & w/o locked lengths**
Ø368	KTK-260/368/3
Ø394	KTK-260/394/3
	KTK-250/394/4
Ø406	KTK-260/406/3
	KTK-250/406/4
Ø419	KTK-300/419/3
	KTK-280/419/4
Ø470	KTK-420/470/3
	KTK-420/470/4

* The length of the kelly bar system in our nomenclature is given as the total locked length from the kelly rotary hat (the upper stopper flange) to the bottom kelly male last pin hole centre. The main reason behind this coding is to prevent any possible confusions depending on any difference between machine manufacturers. Each piling rig's rotary height as well as the stroke of the machine may vary, from brand to brand, model to model. Starting from 2018, we changed our coding in kellies to be on the most revealing side.

** These are common models we produce from stock. Depending on your requirements, we may develop customized solutions. This table does not include any total locked lengths which can be customized. Please get in contact with us for further customizations.

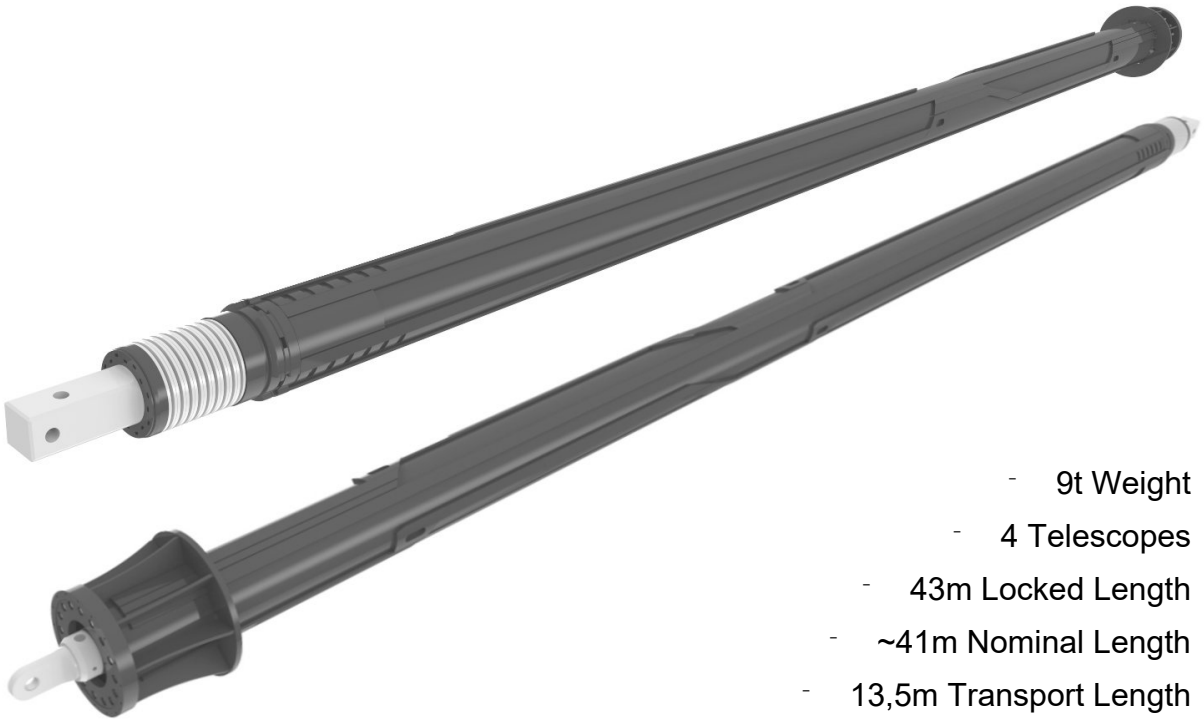
KTK series - Interlocking Telescopic Kelly Bars

KTK-260/394/3/33,6



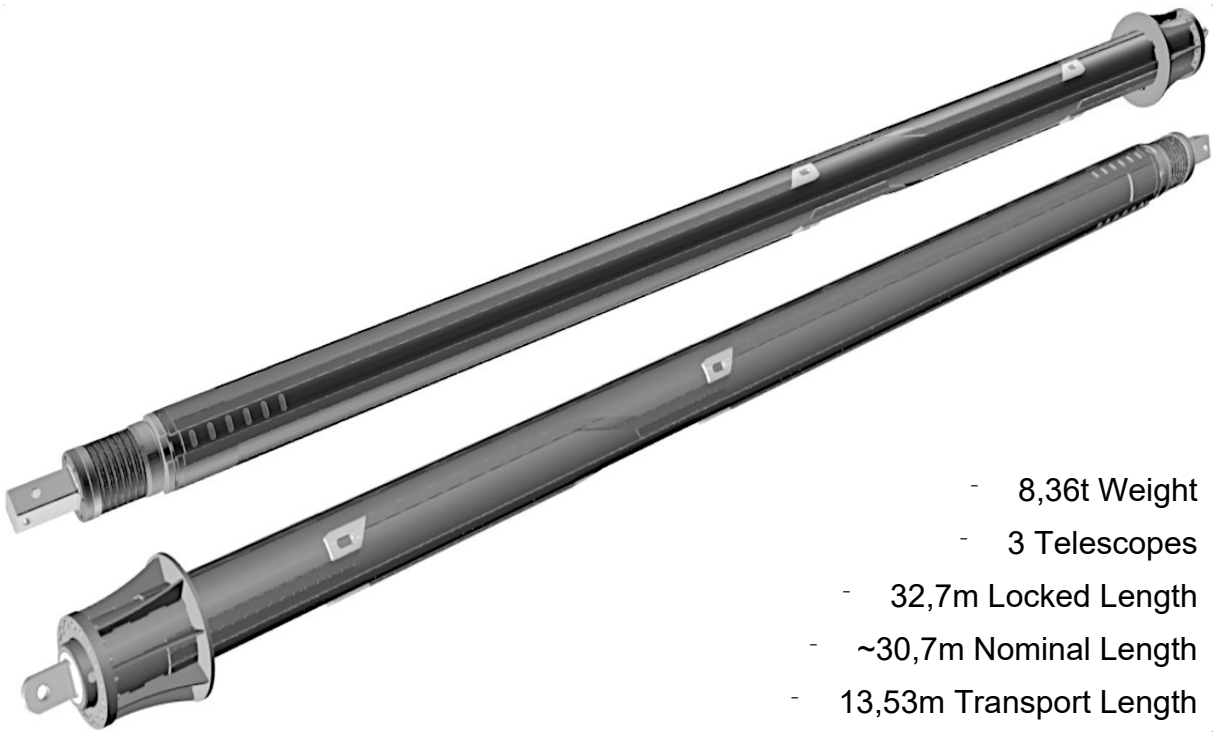
- 6t Weight
- 3 Telescopes
- 33,6m Locked Length
- ~31m Nominal Length
- 13,55m Transport Length
- 260 kNm Optimal Torque Capacity
- Ø394mm Diameter Outer Kelly Tube
- Super Heavy Duty Disc Type Springs
- Very High Strength Lock & Guide Components
- High Strength Special Alloy Steel Pipe Components

KTK-280/419/4/43



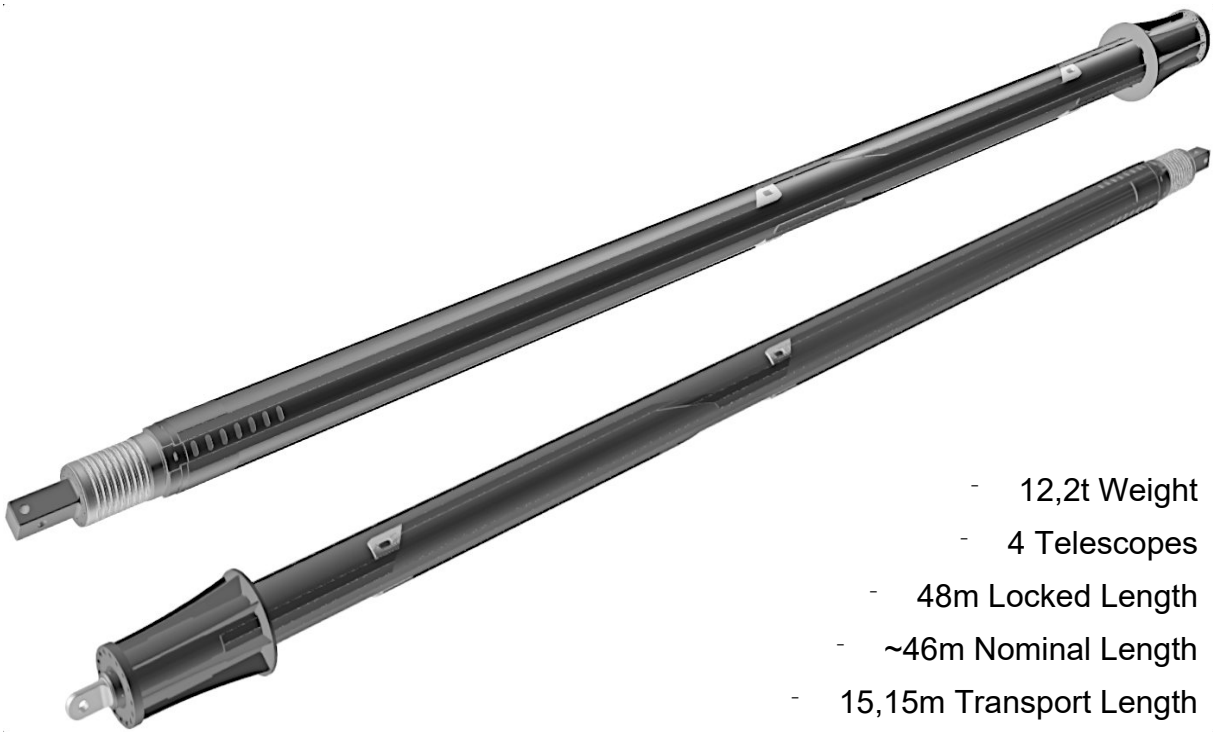
- 9t Weight
- 4 Telescopes
- 43m Locked Length
- ~41m Nominal Length
- 13,5m Transport Length
- 280 kNm Optimal Torque Capacity
- Ø419mm Diameter Outer Kelly Tube
- Super Heavy Duty Disc Type Springs
- Very High Strength Lock & Guide Components
- High Strength Special Alloy Steel Pipe Components

KTK-420/470/3/32,7



- 8,36t Weight
- 3 Telescopes
- 32,7m Locked Length
- ~30,7m Nominal Length
- 13,53m Transport Length
- 420 kNm Optimal Torque Capacity
- Ø470mm Diameter Outer Kelly Tube
- Super Heavy Duty Disc Type Springs
- Very High Strength Lock & Guide Components
- High Strength Special Alloy Steel Pipe Components

KTK-420/470/4/48

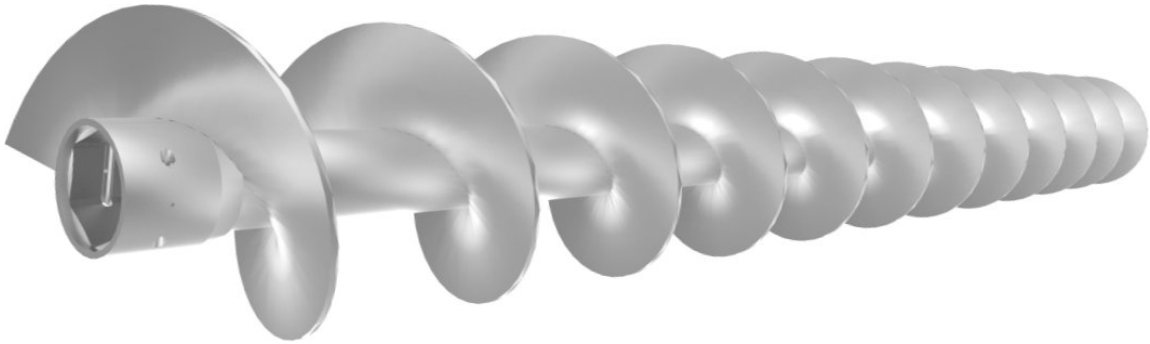


- 12,2t Weight
- 4 Telescopes
- 48m Locked Length
- ~46m Nominal Length
- 15,15m Transport Length
- 420 kNm Optimal Torque Capacity
- Ø470mm Diameter Outer Kelly Tube
- Super Heavy Duty Disc Type Springs
- Very High Strength Lock & Guide Components
- High Strength Special Alloy Steel Pipe Components

CFA - CONTINUOUS FLIGHT AUGERS

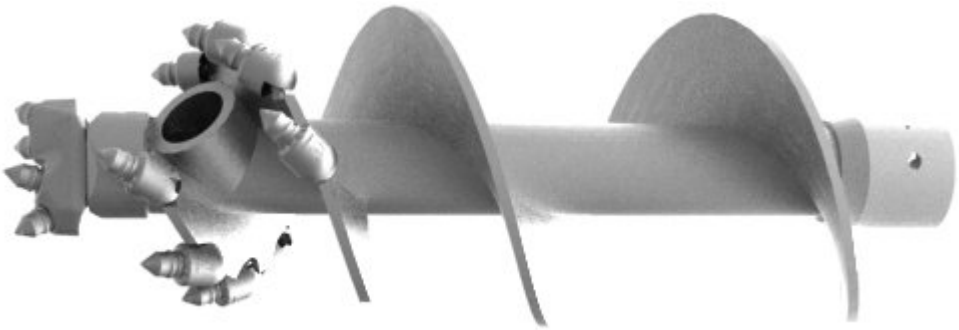
OSS series CFA Augers (hollow stem for concreting)

- Common lengths are 3m & 6m
- Any customized length intervals, various pitch value options, flight thicknesses are available
- Flight edges can be hard-faced or covered by various wear protection plates on request



OSP series CFA Pilots (hollow stem for concreting)

- Both rock and soil options are available
- For rock pilots both conical and straight shape options are available
- Both side and bottom discharging options are available
- Thicker flights
- Common lengths are 1m & 1,5m
- Various hard-facing or wear plates options are available



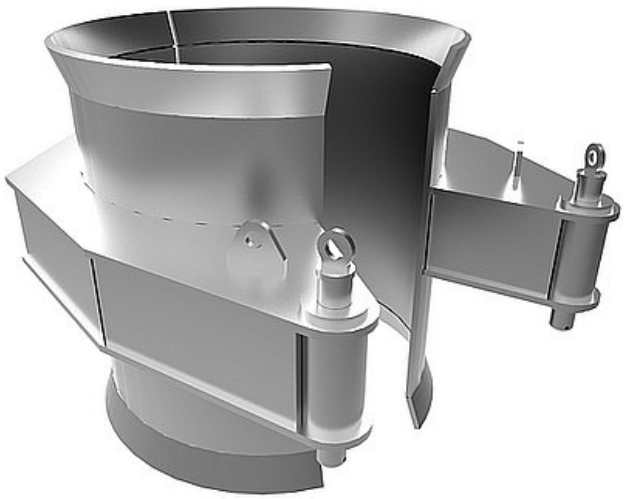


OSA series CFA Twisters (Adaptors) & OSF series CFA Swivels for Concreting





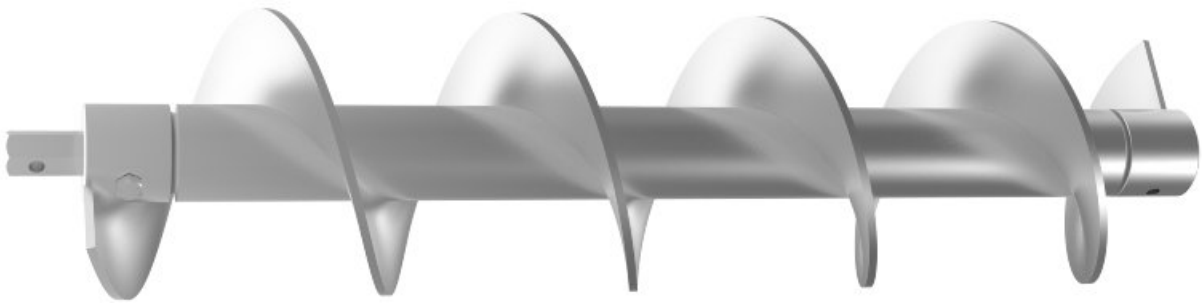
OSM series CFA Centralizer





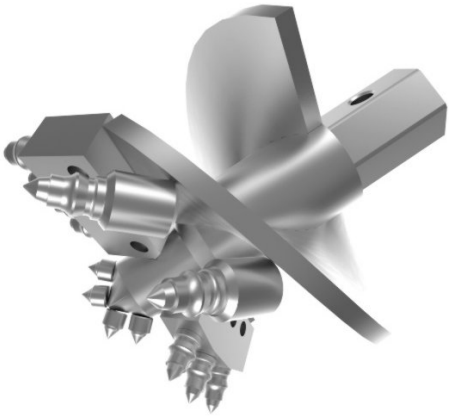
OMS series Continuous Augers (non-concreting)

- Both hexagonal and threaded coupling options
- Female hexagonal joints at both ends options which have independent male coupling shanks
- Any customized length intervals, various pitch value options, flight thicknesses are available
- Flight edges can be hard-faced or covered by various wear protection plates on request



OMP series Auger Pilots (non-concreting)

- Both hexagonal and threaded coupling options
- Hexagonal independent male coupling shanks
- Any customized length intervals, various pitch value options, flight thicknesses are available
- Various hard-facing or wear plates options are available

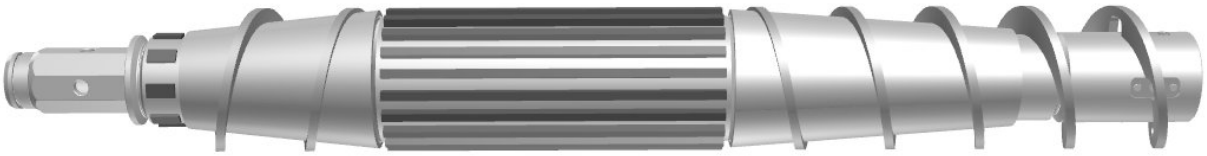




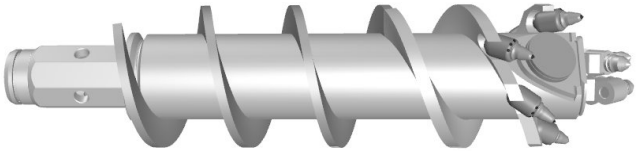
FDP - FULL DISPLACEMENT PILE AUGERS

OYS series FDP Auger Displacer Body (hollow stem for concreting)

- Strong, long life displacement body
- High torque bearing proven joints and design
- Any customized length intervals or various pitch and thickness value options for flights are available
- Covered by high quality wear protection plates on main cylinder for long tool life with less maintenance



OYP series FDP Auger Pilot (hollow stem for concreting)



OYT series FDP Rods (hollow stem for concreting)



AUXILIARY EQUIPMENT

We have many auxiliary equipment solutions such as drop down chisels, tremie sets, intersecting piling guides, load test beams and more. For the sake of being “one-stop shop” supplier, every year we are increasing and developing our product range to meet any geotechnical contractor wants and needs. From very small items to huge mass products, Armador comes forward with durable solutions.

Free Fall Chisels

In some situation specific piling projects, free fall chisels can be an option to pass through high compressive strength rock layers or ground formations mixed with subsurface blocks for the projects where unwanted impact deformation of ground is in tolerable levels by care and observing surrounding formations.

We can manufacture any custom size and weight according to client requirements. Special alloy steel grades are used for surfaces exposed to impact and abrasion.

VTA series - Cross Section Chisels



VTD series - Rectangular Section Chisels





VTY series - Round Section Chisels

Round section chisel options are also available which is a kind of improvement of our VTA series Cross Section Chisels. For precise round bore hole chiselling operations, various reinforced rounded construction designs are possible.

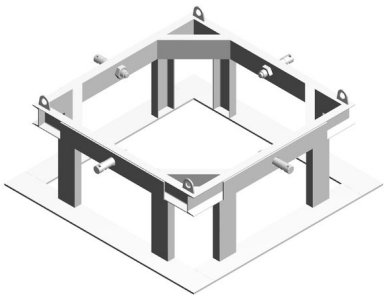
Manual Casing Clamps

We are manufacturing several different casing clamps. Many of our models have ergonomic stands to ease operation at the job site. Also, some of our models can be separated from their stands like the YBT-250 series. Most of our manual casing clamp models can also be manufactured with raised stands, if needed.

We can manufacture our clamps for any outside diameter of casings.

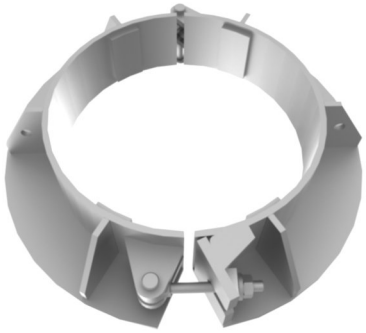
YBT-161 Casing Clamps with fixed stand

- Several bolt fastening operation
- High positioning to help ergonomics



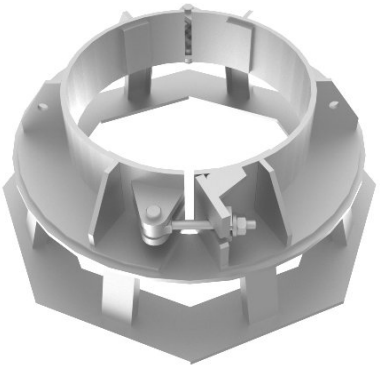
YBT-200 Casing Clamps without stand

- Suitable for heavy duty operations
- Applies equal pressure distribution from both sides
- Single bolt fastening operation
- Minimum risk of part loss
- Minimal height requirement



*YBT-250 Casing Clamps with detachable stand**

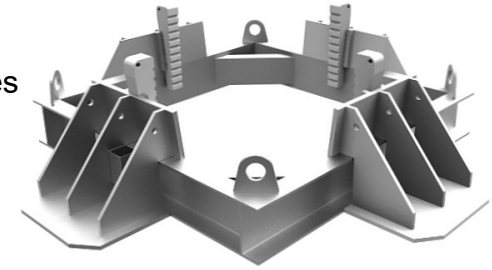
- Suitable for heavy duty operations
- Applies equal pressure distribution from both sides
- Single bolt fastening operation
- Minimum risk of part loss
- High positioning to help ergonomics
- Detachable stand helps stroke height problems



* This model has two options: Fixed & Detachable Stand types

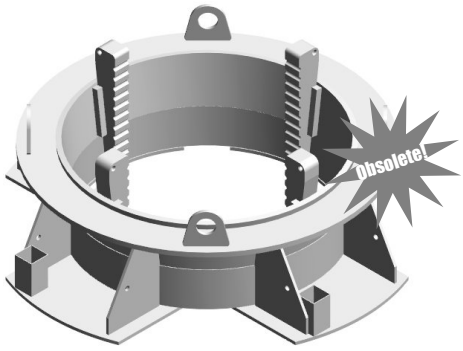
YBT-300 Casing Clamps without stand

- Suitable for heavy duty operations
- Applies equal pressure distribution from all sides
- No part loss, keys are chain/rope connected
- Minimal height requirement



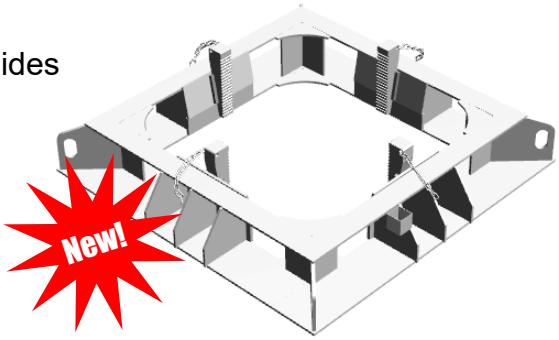
YBT-311 Casing Clamps without stand

- Suitable for heavy duty operations
- Applies equal pressure distribution from all sides
- No part loss, keys are chain/rope connected
- Minimal height requirement



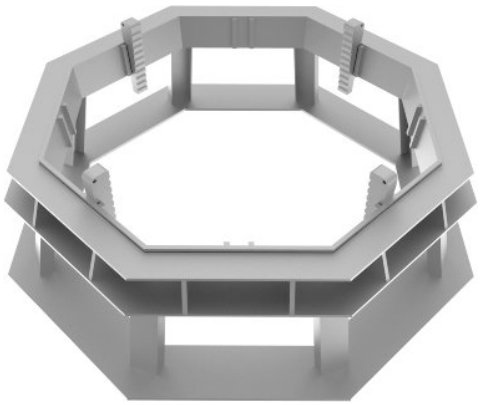
YBT-312 Casing Clamps without stand

- Suitable for heavy duty operations
- Applies equal pressure distribution from all sides
- No part loss, keys are chain/rope connected
- Minimal height requirement



YBT-350 Casing Clamps with fixed stand

- Suitable for heavy duty operations
- Applies equal pressure distribution from all sides
- No part loss, keys are rope connected
- High positioning to help ergonomics



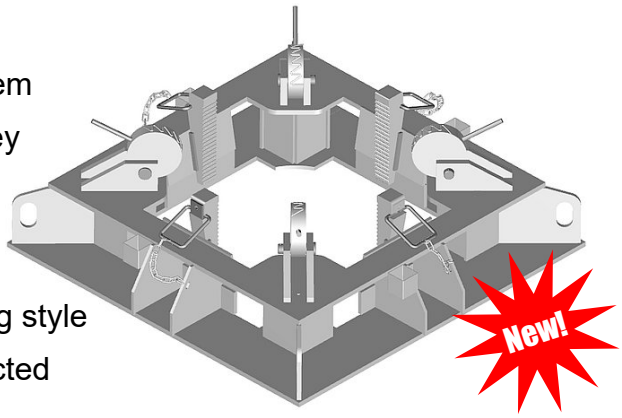
YBT-400 Casing Clamps without stand

- Suitable for heavy duty operations
- Revolving locks for ease of operation
- No mobile parts, components fixed
- Can be designed for many height requirements



YBT-430 Casing Clamps without stand

- Suitable for very heavy duty operations
- Highly improved increased security system
- Both revolving fixed locks and moving key locks system for various situations
- Applies equal pressure distribution from all sides and more distributed forces
- Optimised design for any manual working style
- No part loss, keys are rope/chain connected
- Low height requirement



Tremie Sets

TRM series - Tremie sets

Armador's tremie sets for your concrete operations at the field in bored piling and various applications come with complete solution kits.





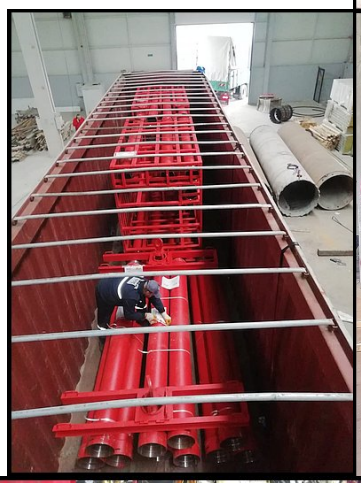
Our tremie sets based on mainly two different dimensional models:

- **TRM-220 series**

- **TRM-273 series**

Our sets consist of the following items:

- Tremie pipes - TRB series
- Tremie shoes - TRC series
- Tremie funnels - TRK series
- Tremie caps - TRF series
- Tremie joints - TRJ series
- Tremie holders - TRT series
- Tremie ropes - TRH series
- Tremie o-rings - TRO series
- Tremie racks - TRS series
- Tremie rope pullers - TRA series





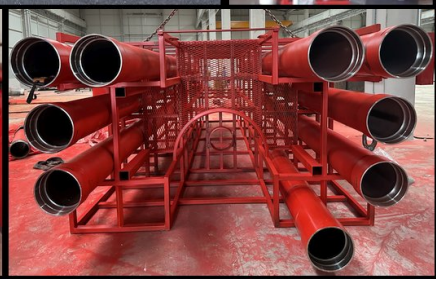


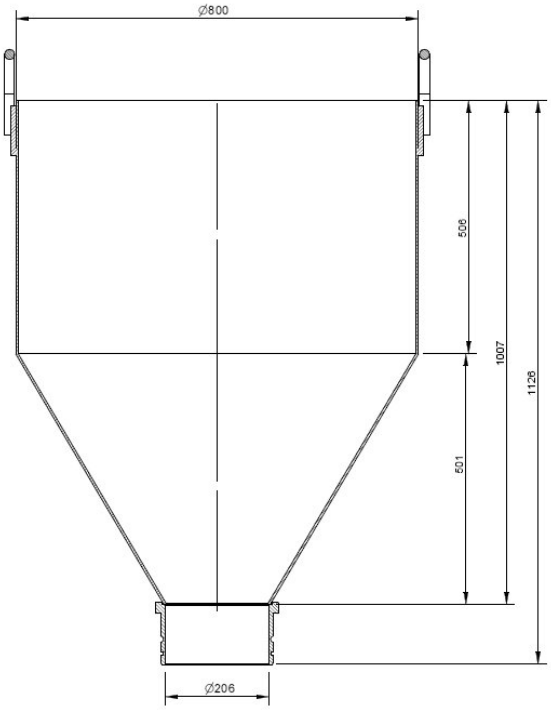




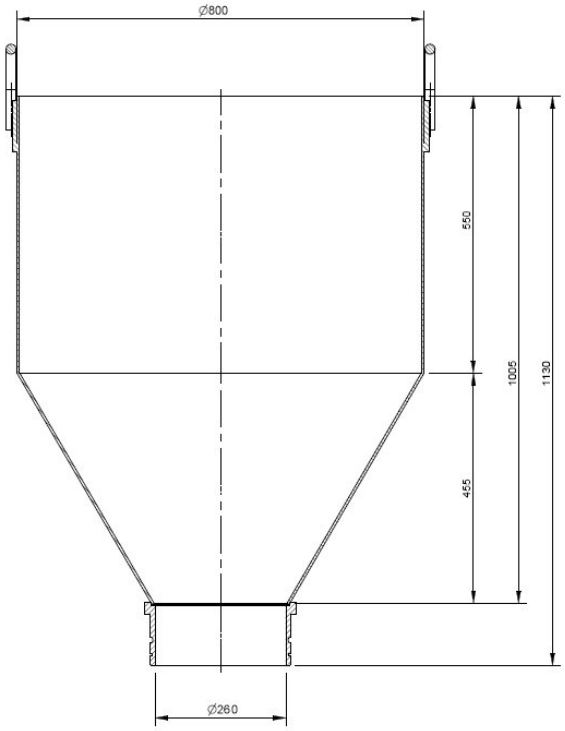






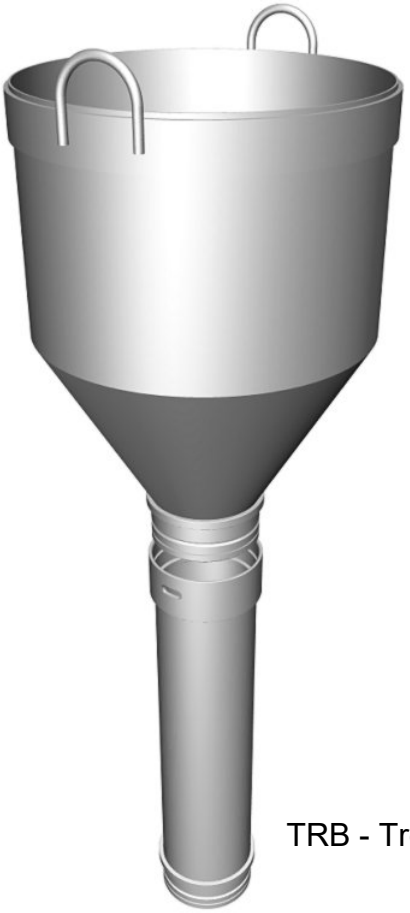


TRK-220



TRK-273

TRK - Tremie Funnel (Bucket / Hopper)

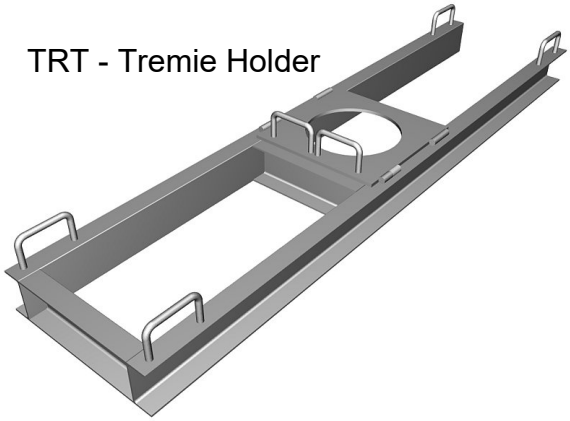


TRB - Tremie Pipe

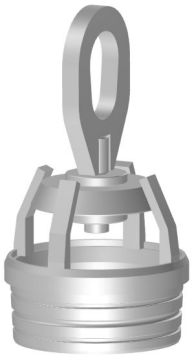
TRK - Large Tremie Funnel with stopper flap valve



TRT - Tremie Holder



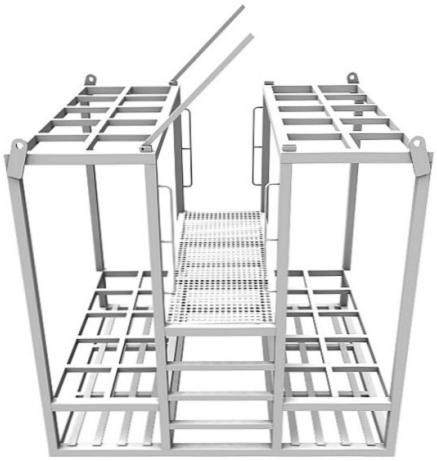
TRF - Tremie Cap (Swivel)



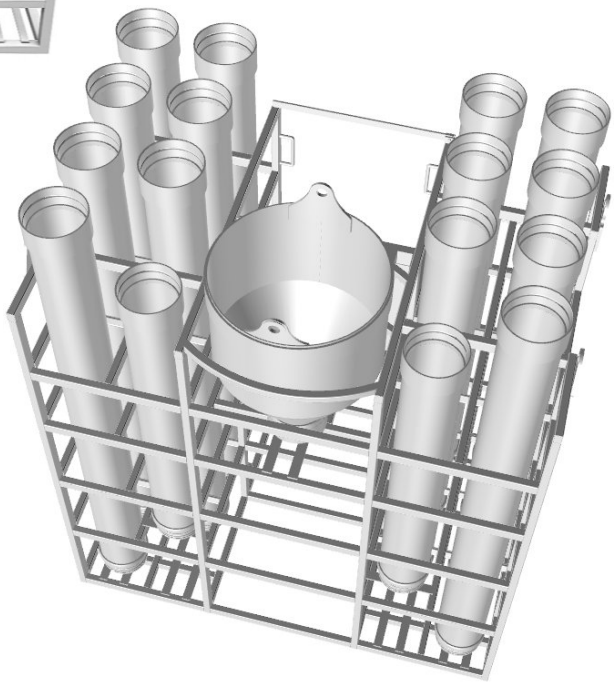
TRB - Tremie Pipe



TRS-20 - Tremie Pipe Rack Set for 20 pipes*



TRS-16-3m - Tremie Pipe Rack Set for 16 pipes**



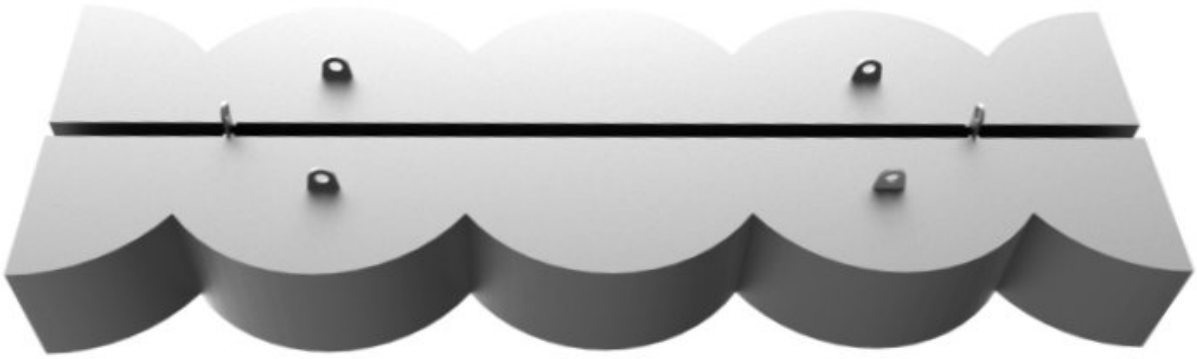
* Although we have two common models for tremie racks like TRS-20 & TRS-16 (+ height of necessary Tremie Pipes) as optimized solution for mobility, we have the possibility to manufacture any customized capacity & design rack solutions as well as mobile units that can be fit each other to expand the set.

** All our Tremie racks have strong solid structural integrity in comparison to many other manufacturers. We can implement any necessary holder solutions for funnels and mobile or fixed toolboxes as well as rope holder sets according to requirements.

Continuous Moulds for Secant Piles

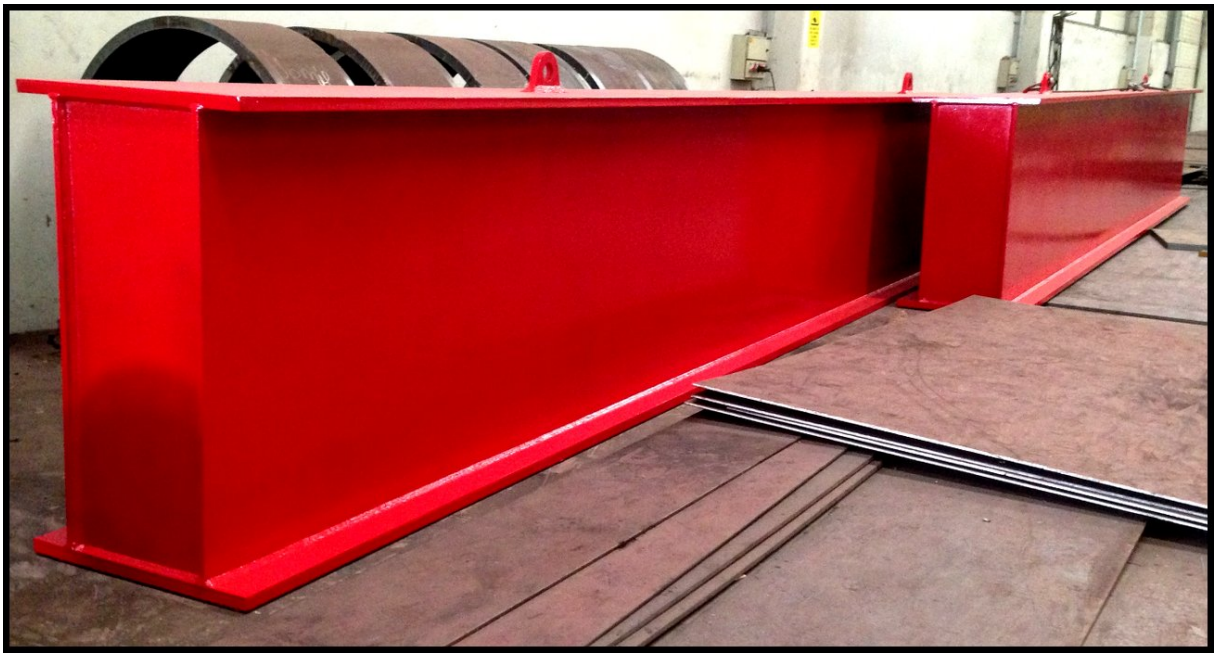
These are concreting moulds to form a guiding structure while working with secant pile walls. Before drilling, these moulds are put in place temporarily to form a continuous concrete framework top of the ground surface to help the operator execute the follow-on boring process of intersecting pile holes exactly in the desired necessary location.

Our guides are made from steel construction and have advantages of easy uninstalling and carrying properties. We manufacture both YGP positive (extruding) and YGN negative (intruding) series of our pile moulds. Corners are also available.



Load-Test Beams

Steel constructed, custom length and weight, high durability beams for any applications required like conventional load-tests. Load-test beams are manufactured according to customer requests.



Diaphram Wall Stop-end Systems

According to your project requirements, we are ready to fulfil any challenging measurements and precision. Our stop-end production team and engineers are an email away from you for your special customization requirements.

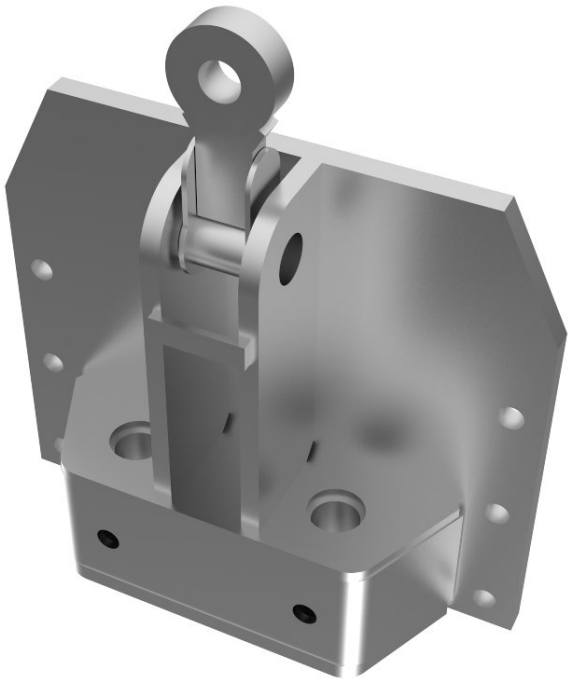
SET series - Stop-end Segments



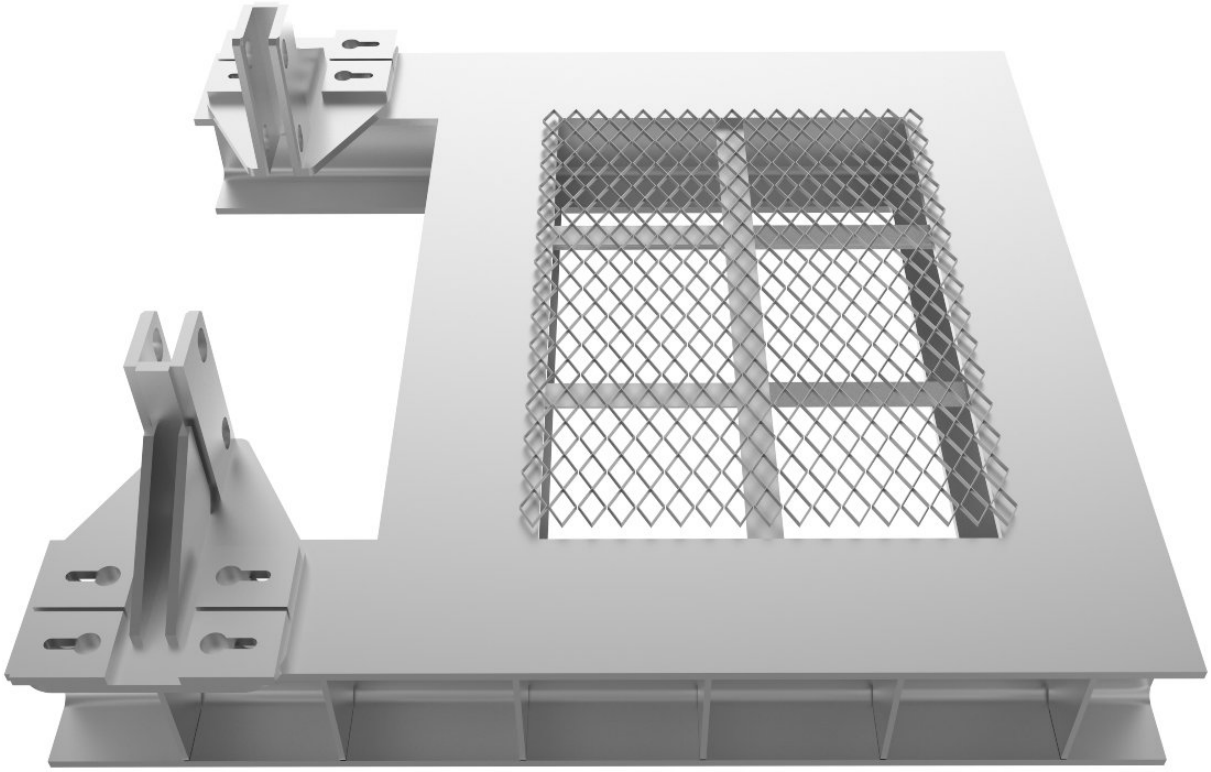
SEC series - Stop-end Shoes



SEK series - Stop-end Lifting Caps



SES series - Stop-end Holders



SPARE PARTS

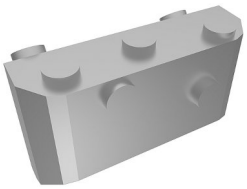
Armador offers a variety of spare parts for daily usage of plant applications in bored piling field. We both manufacture some of our own models and also are reseller of well known brands. To fulfil high durability requirements, our priority is to carefully select or manufacture the spare parts. This is the reason of getting very good feedbacks from our clients.

Spare Parts:

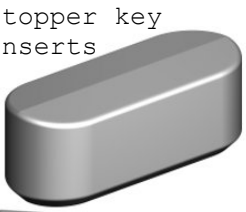
- Round shank picks (HD types)
- Pick holders (conventional and round carbided ones)
- Pilots
- Kelly boxes
- Casing screw bolts, conical rings, threaded rings
- Casing stopper key inserts
- Twister “U” inserts
- Weld-on bars and many more...

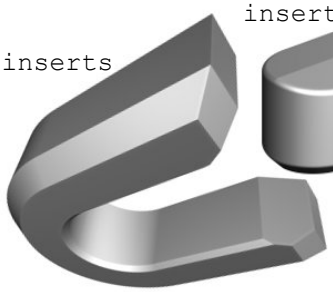

Round picks


Superior
HD pick holders

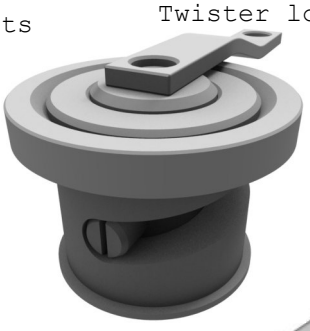

Weld-on bars

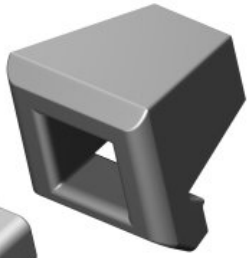

Rock pilots
“Hot forged”

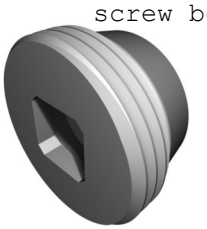

Stopper key
inserts


“U” inserts

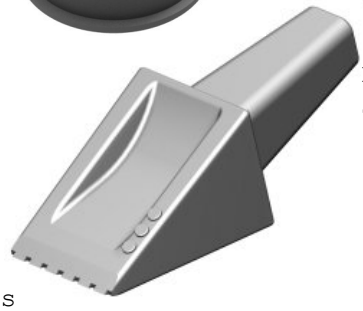

Soil pilots

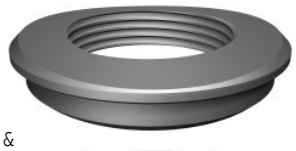

Twister locks

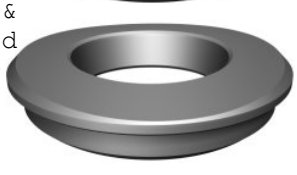

Flat teeth
systems


Casing
screw bolts

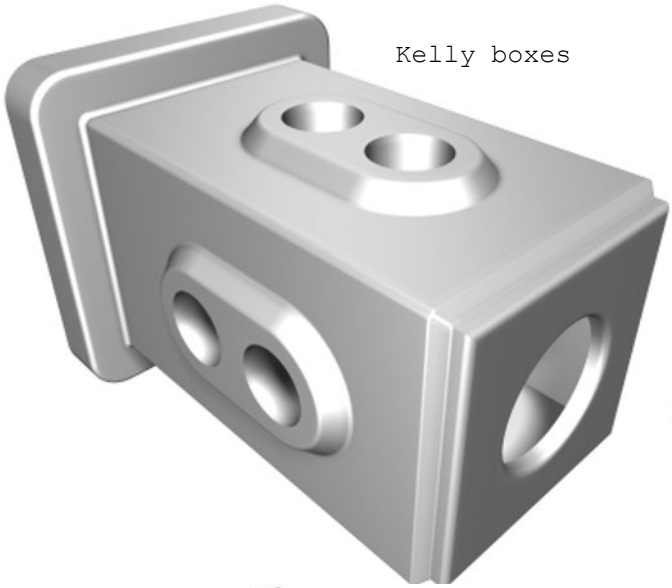

Pilot holders






Threaded &
unthreaded
rings for
casings

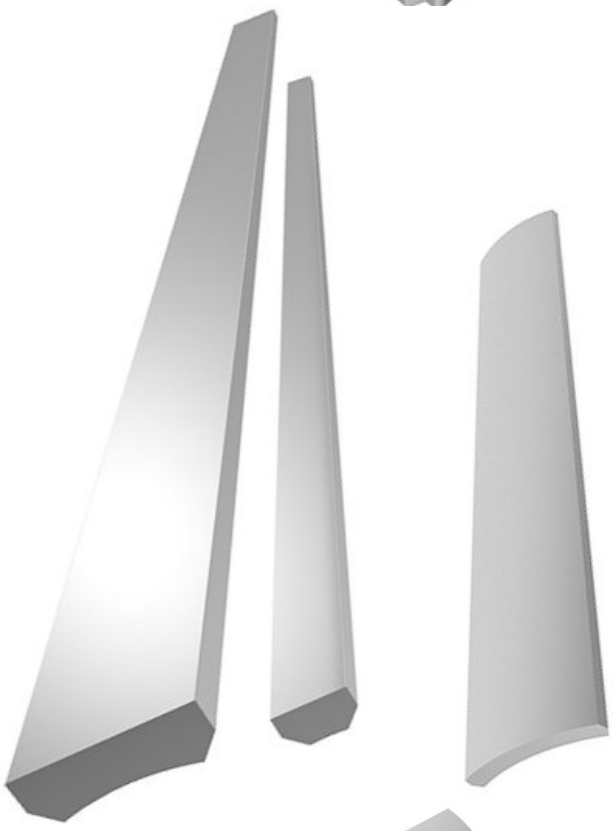
Kelly boxes



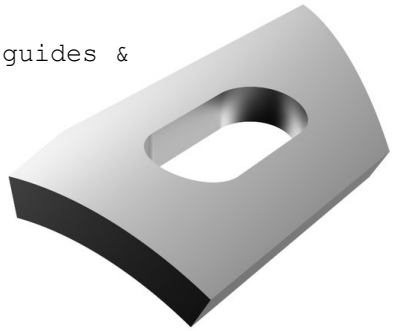
Kelly pins



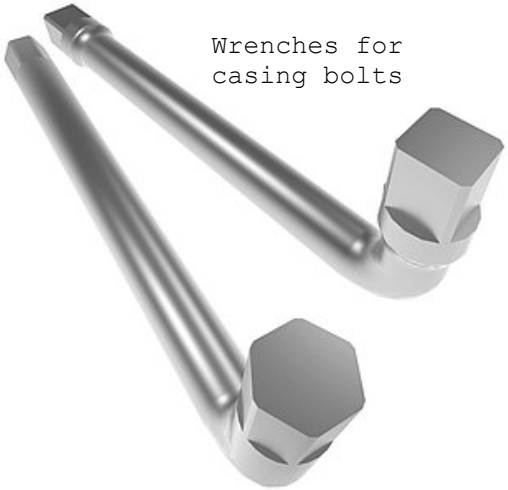
Kelly pin
"Improved secure design"

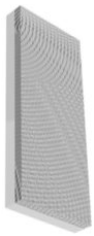


Kelly guides & locks



Wrenches for casing bolts





Wear protection plates



Pick extractor





Tremie rope extractors (pullers) for different rope designs

New!



Please ask us for more detailed brochure and information regarding our complete wear and spare parts supply.

Notes & Remarks

Passion, Devotion, Strength™

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www.instagram.com/armadorpilingtools