



KELLY BAR CATALOGUE

TABLE OF CONTENTS



ABOUT US

| | |
|--------------------------------|---|
| Introducing Pile Critter | 5 |
|--------------------------------|---|

KELLY BARS

| | |
|----------------------------|---|
| About kelly bars | 7 |
| Kelly bar main types | 8 |
| Advantages | 9 |

SPECIFICATIONS

| | |
|----------------------------------|----|
| Material properties | 11 |
| Dimensions | 11 |
| Compatible with Bauer | 12 |
| Compatible with Sany | 13 |
| Compatible with Soilmec | 13 |
| Compatible with Casagrande | 14 |
| Compatible with Liebherr | 14 |
| Compatible with Zoomlion | 14 |
| Compatible with TR | 14 |
| Compatible with Delmas | 14 |
| Compatible with Jintai | 15 |
| Compatible with Sumward | 15 |
| Compatible with Mait | 15 |
| Compatible with XCMG | 15 |
| Compatible with IMTi | 15 |

CONTACTS

| | |
|-------------------------|----|
| Team contact info | 19 |
|-------------------------|----|

COMPANY

Founded in 2022, PileCrittter is a swiftly growing company in the European drilling market. Our team, though small, is rich in diversity and expertise, encompassing a range of roles from strategic leadership to market-specific business development. Fluent in multiple languages, our team is well-equipped to cater to various European markets. Together, our mission is rooted in delivering value through reliable, high-performance tools essential for construction and civil engineering.

At PileCrittter, we're driven by a relentless dedication to our customers, aiming to be the cornerstone of Europe's drilling industry. Our vision encompasses not just supplying tools but fostering growth and progress in every project we touch. We're focused on enhancing our services by developing rapid response teams, further decreasing dispatch times, and expanding our product catalogue. Join us in redefining drilling industry standards with solutions that speak of quality, efficiency, and innovation!

EU HUB

Focusing on local stock within Europe, PileCrittter has significantly reduced delivery times and improved service dependability for our European clients. This strategic move underscores our dedication to addressing the unique requirements of the European market and strengthening our position in the region.

BESPOKE SERVICE

We are eager to take on special requests, ensuring clients receive precisely what they need for their projects. We specialize in understanding unique requirements and leveraging an extensive product range to fulfill even the most specific demands. With a focus on customization and adaptability, our team is committed to turning special requests into reality, offering solutions that are not just satisfactory, but perfectly aligned with each client's unique business needs.



KELLY BARS

PileCrittter's range of Kelly bars, indispensable for hydraulic rotary drilling rigs, is engineered with high-quality materials and innovative designs to ensure efficient torque transmission and adaptability in diverse drilling conditions.

DESCRIPTION

Kelly bars, essential for hydraulic rotary drilling rigs, are expertly designed to transmit torque and pressure to drilling tools. Comprising 2 to 5 telescopic sections with drive keys and lock recesses, these bars come in interlocking, friction, and full locking types, each tailored for specific drilling requirements.

Key features include:

High-Quality Materials:

Kelly Bar Diameter < 508mm:

2 sections: inner tube 35CrMo & outside tube S355

3 sections: inner 1&2 tube 35CrMo & outside tube S355

4 sections: inner 1&2 kelly tube 35CrMo, outside 2 tubes S355

5 sections: inner 1&2&3 kelly tube 35CrMo, outside 2 tubes S355

Kelly Bar Diameter >= 508mm:

Increased strength materials are used

Design Innovation: Features like reinforcement ring structures and a long guiding design enhance performance and reliability.

Drive Rib Design: Interlocking bars have drive ribs for efficient torque transfer.

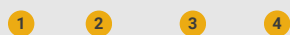
Shock Absorbing Spring: High-capacity disc springs offer adaptability and longevity..

With strict quality control and advanced manufacturing, our kelly bars are ideal for challenging drilling tasks. A one-year warranty and custom solutions have established us as a trusted supplier for major rotary drilling rig brands globally, underscoring our commitment to excellence and customer satisfaction in various piling projects.

Service for Rig Leading Brands. Special designs and dimensions are available on request. Maximum length of kelly bar and drilling depth is subject to type of drilling rig, capacity of winch and type of drilling tool. Our kelly bars are suitable for brands such as Bauer, Liebherr, Delmag, Wirth, MGF, Soilmec, Mait, CMV, IMT, Casagrande, Entego, Liamada, Junttan, BSP, APE, Ingersollrand, NIPPON, Sumitomo, KATO, Hitachi, SANY, XCMG, Sunward, CRRC, Zoomlion, Jintai.

UNDERSTANDING CODES

IK 394 / 4 / 14



1 Kelly bar type: interlockig kelly bar

2 The outer kelly bar diameter

3 The number of tubes

4 Each section length

Drilling depth = 4 sections X (14-2m) = 48m

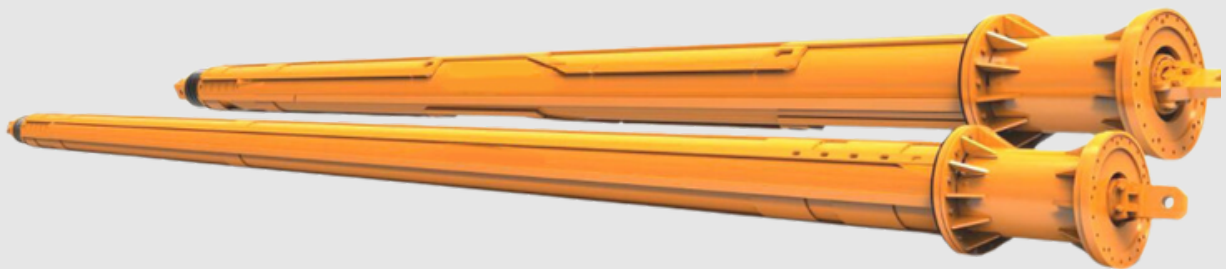
FRICITION KELLY BARS

Friction kelly bars are properly defined by their frictional contact between rail of each element.

Application: friction kelly bars are normally supplied in 4 or 5 telescopic elements, they are mostly used for drilling silt, clay and less dense sand and gravel conditions.

Kelly elements: Kelly bar 2 - 5 elements.

Size: Diameter range from 355mm-630mm.



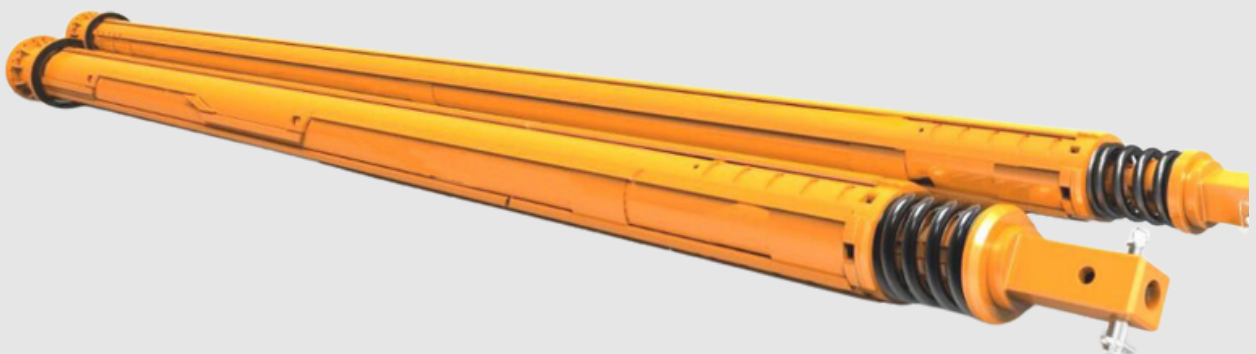
INTERLOCKING KELLY BARS

Interlocking kelly bars are provided with drive ribs which are welded with lock devices in order to transfer the maximum torque to each scope.

Application: For piling rigs for drilling in various conditions such as dense sand, gravel and hard rock conditions.

Kelly elements: 2-5 elements

Size: Diameter range from 300mm - 930mm



ADVANTAGES



We offer kelly bars with diameter up to 930mm, consisting from 5 sections, which are the largest kelly bars in the world.



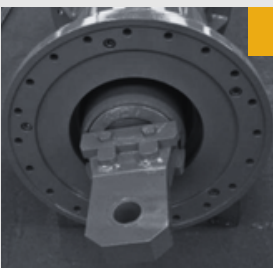
High-grade materials and special welding guarantee a high durability and wear resistance.



Our kelly bars have advantage for the super hard rock formation and for large torque rotary drilling rigs.



The key components are made of high quality steel, through special heat treatment and surface painting, with better performance in large torque, large diameter and ultra-deep drilling.



To prevent the terminal joint not to be cracking, reinforcement ring for each terminal joint is added. For the guiding sleeve, we added two baffle rings with one swivel ring, to keep the kelly bar in straightness when it is under the state of force.



We individually adapt our kelly bars to your drilling and rotary power head.

The image shows a close-up, low-angle view of a crane's mast and pulley system. The mast is a vertical, perforated metal structure that runs through the center of the frame. Several thick cables are attached to the mast, extending upwards and outwards. At the bottom of the frame, there are various mechanical components, including a large pulley wheel and structural beams. The lighting is dramatic, with the crane parts appearing as dark silhouettes against a uniform, light grey background. The overall mood is industrial and technical.

SPECIFICATIONS

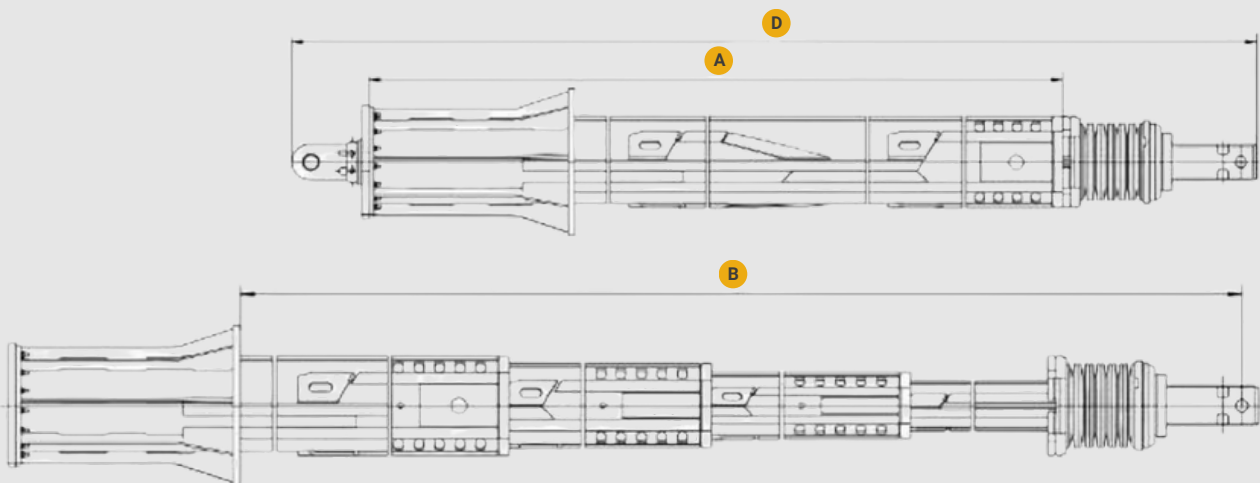
SPECIFICATIONS



MATERIAL PROPERTIES

| MATERIAL | S355 | 35CrMo4 |
|------------------------------------|--|---|
| Tensile Strength (σ [MPa]) | 345 | ≥ 985 |
| Yield Strength (R [MPa]) | 510-600 | ≥ 835 |
| Chemical Composition | C: 0.13~0.19 Si: 0.20~0.60 Mn : 1.20~1.60 Cr \leq 0.30 P<0.030 S \leq 0.030 Ni \leq 0.30 Cu \leq 0.25 | C: 0.32~0.40 Si: 0.17~0.37 Mn: 0.40~0.70 S: \leq 0.035 P: \leq 0.035 Cr: 0.80~1.10 Ni: \leq 0.030 Cu: \leq 0.30 Mo: 0.15~0.25 |

DIMENSIONS



- A The first section length
- B The extended length
- D The transport length



SPECIFICATIONS



COMPATIBLE WITH BAUER



| MODEL | KELLY BAR MODEL | | TYPE |
|-------|-----------------|--------|--------------|
| | Ø | Length | |
| BG11H | Ø368 | 3*9.2 | Interlocking |
| BG14 | Ø300 | 3*12 | Interlocking |
| BG15 | Ø340 | 4*11 | Interlocking |
| BG15 | Ø343 | 3*8 | Interlocking |
| BG15 | Ø343 | 3*10 | Interlocking |
| BG15 | Ø343 | 3*12 | Interlocking |
| BG18 | Ø368 | 3*11 | Interlocking |
| BG20 | Ø368 | 4*9 | Interlocking |
| BG20 | Ø368 | 4*15 | Interlocking |
| BG24 | Ø394 | 3*15 | Interlocking |
| BG24 | Ø394 | 4*11 | Interlocking |
| BG25 | Ø394 | 4*14.5 | Friction |
| BG25 | Ø394 | 4*17 | Interlocking |
| BG26 | Ø394 | 3*12 | Interlocking |
| BG26 | Ø394 | 4*14.5 | Interlocking |
| BG26 | Ø394 | 4*15 | Interlocking |
| BG26 | Ø419 | 4*11.1 | Interlocking |
| BG26 | Ø419 | 4*17 | Interlocking |
| BG28 | Ø406 | 4*9 | Interlocking |
| BG28 | Ø419 | 3*11.5 | Interlocking |
| BG28 | Ø419 | 3*12 | Interlocking |
| BG28 | Ø419 | 3*13 | Interlocking |
| BG28 | Ø419 | 3*17 | Interlocking |

| MODEL | KELLY BAR MODEL | | TYPE |
|-------|-----------------|--------|--------------|
| | Ø | Length | |
| BG28 | Ø419 | 3*18.5 | Interlocking |
| BG28 | Ø419 | 4*10 | Interlocking |
| BG28 | Ø419 | 4*11.5 | Interlocking |
| BG28 | Ø419 | 4*12 | Interlocking |
| BG28 | Ø419 | 4*13 | Interlocking |
| BG28 | Ø419 | 4*13 | Interlocking |
| BG28 | Ø419 | 4*19.5 | Interlocking |
| BG30 | Ø419 | 4*7.5 | Interlocking |
| BG30 | Ø419 | 4*17 | Interlocking |
| BG36 | Ø470 | 4*16 | Interlocking |
| BG36 | Ø470 | 5*20 | Friction |
| BG36 | Ø470 | 5*21 | Friction |
| BG36 | Ø559 | 4*21.5 | Interlocking |
| BG38 | Ø470 | 4*16 | Interlocking |
| BG39 | Ø470 | 4*8.5 | Interlocking |
| BG40 | Ø470 | 3*14 | Interlocking |
| BG40 | Ø470 | 4*18 | Interlocking |
| BG40 | Ø470 | 4*19 | Interlocking |
| BG46 | Ø559 | 4*18 | Interlocking |
| BG46 | Ø559 | 4*18.5 | Interlocking |
| BG46 | Ø559 | 4*20 | Interlocking |
| BG46 | Ø559 | 4*21.5 | Interlocking |
| BG55 | Ø575 | 5*17 | Interlocking |

SPECIFICATIONS



COMPATIBLE WITH SANY



| MODEL | KELLY BAR MODEL | | TYPE |
|----------|-----------------|--------|--------------|
| SR150 | Ø377 | 4*12 | Interlocking |
| SR150 | Ø377 | 4*14 | Interlocking |
| SR155C10 | Ø377 | 4*12 | Interlocking |
| SR155C10 | Ø377 | 5*12 | Interlocking |
| SR220 | Ø445 | 4*9 | Interlocking |
| SR220 | Ø445 | 4*12 | Interlocking |
| SR220 | Ø445 | 4*13 | Interlocking |
| SR220 | Ø445 | 4*13 | Friction |
| SR235 | Ø445 | 4*10 | Interlocking |
| SR235 | Ø455 | 4*15 | Interlocking |
| SR250 | Ø445 | 4*9 | Interlocking |
| SR250 | Ø445 | 4*13 | Friction |
| SR250 | Ø445 | 4*13 | Interlocking |
| SR250 | Ø445 | 4*14 | Interlocking |
| SR280 | Ø508 | 4*11.5 | Interlocking |
| SR280 | Ø508 | 4*15.5 | Interlocking |
| SR280 | Ø508 | 4*15.5 | Interlocking |
| SR280 | Ø508 | 4*16 | Interlocking |
| SR280 | Ø508 | 4*16 | Interlocking |
| SR285 | Ø508 | 3*12 | Interlocking |
| SR285 | Ø508 | 3*15 | Interlocking |
| SR285 | Ø508 | 4*12 | Interlocking |
| SR285 | Ø508 | 4*17 | Interlocking |
| SR285 | Ø508 | 6*17 | Friction |
| SR360 | Ø508 | 4*18 | Interlocking |
| SR360C10 | Ø508 | 5*17.5 | Interlocking |
| SR445 | Ø580 | 3*12 | Interlocking |
| SR445 | Ø580 | 4*12 | Interlocking |

COMPATIBLE WITH SOILMEC



| MODEL | KELLY BAR MODEL | | TYPE |
|-------|-----------------|--------|--------------|
| SR20 | Ø324 | 3*8 | Interlocking |
| SR20 | Ø325 | 3*11.5 | Interlocking |
| SR30 | Ø355 | 3*10.5 | Interlocking |
| SR30 | Ø355 | 4*9 | Friction |
| SR30 | Ø355 | 4*9.5 | Interlocking |
| SR30 | Ø355 | 4*10.5 | Interlocking |
| SR30 | Ø355 | 4*11 | Interlocking |
| SR40 | Ø355 | 4*10 | Interlocking |
| SR40 | Ø355 | 4*11.5 | Friction |
| SR60 | Ø406 | 4*10 | Interlocking |
| SR60 | Ø406 | 4*12 | Interlocking |
| SR60 | Ø406 | 3*13 | Interlocking |
| SR60 | Ø406 | 4*11 | Interlocking |
| SR60 | Ø406 | 4*12 | Interlocking |
| SR60 | Ø406 | 4*13.5 | Interlocking |
| SR60 | Ø406 | 3*14.5 | Interlocking |
| SR60 | Ø406 | 4*15 | Interlocking |
| SR60 | Ø406 | 4*16 | Interlocking |
| SR60 | Ø406 | 5*13.5 | Friction |
| SR60 | Ø406 | 5*15 | Friction |
| SR60 | Ø406 | 5*16 | Interlocking |
| SR60 | Ø406 | 5*16 | Friction |
| SR60 | Ø406 | 5*22 | Friction |
| SR60 | Ø406 | 4*11.5 | Interlocking |
| SR90 | Ø482 | 4*10 | Interlocking |
| SR90 | Ø482 | 4*14.5 | Interlocking |
| SR95 | Ø480 | 4*19.5 | Interlocking |

SPECIFICATIONS



COMPATIBLE WITH CASAGRANDE



| MODEL | KELLY BAR MODEL | | TYPE |
|-------|-----------------|--------|--------------|
| B125 | Ø355 | 4*10 | Interlocking |
| B155 | Ø355 | 4*11 | Friction |
| B155 | Ø355 | 4*12 | Friction |
| B170 | Ø355 | 4*11.5 | Interlocking |
| B175 | Ø355 | 4*12.5 | Interlocking |
| B175 | Ø355 | 4*14 | Interlocking |
| B180 | Ø419 | 4*12.5 | Friction |
| B180 | Ø419 | 5*12 | Friction |
| B250 | Ø419 | 4*15 | Interlocking |
| B300 | Ø419 | 4*14 | Interlocking |
| B300X | Ø470 | 4*16 | Interlocking |
| B300 | Ø508 | 4*9.5 | Interlocking |
| C800 | Ø508 | 4*15 | Interlocking |

COMPATIBLE WITH ZOOMLION



| MODEL | KELLY BAR MODEL | | TYPE |
|--------|-----------------|--------|--------------|
| ZR160 | Ø377 | 3*12 | Friction |
| ZR200 | Ø406 | 5*13 | Friction |
| ZR220 | Ø440 | 4*11.5 | Interlocking |
| ZR220 | Ø440 | 4*12 | Interlocking |
| ZR220 | Ø440 | 4*15 | Interlocking |
| ZR220 | Ø440 | 5*15 | Friction |
| ZR280C | Ø508 | 4*19 | Interlocking |
| ZR330 | Ø508 | 4*17.5 | Interlocking |
| ZR330 | Ø508 | 6*17.5 | Friction |

COMPATIBLE WITH LIEBHERR



| MODEL | KELLY BAR MODEL | | TYPE |
|-------|-----------------|--------|--------------|
| LB24 | Ø419 | 4*17.5 | Interlocking |
| LB24 | Ø419 | 5*17 | Friction |
| LB35 | Ø470 | 4*17 | Interlocking |
| LB36 | Ø470 | 4*15 | Interlocking |
| LB36 | Ø470 | 4*16 | Interlocking |
| LB36 | Ø470 | 4*17 | Interlocking |
| LB36 | Ø470 | 4*22 | Interlocking |
| LB44 | Ø559 | 4*18 | Interlocking |
| LB44 | Ø559 | 5*23 | Interlocking |
| LB44 | Ø559 | 5*25 | Interlocking |

COMPATIBLE WITH TR



| MODEL | KELLY BAR MODEL | | TYPE |
|---------|-----------------|--------|--------------|
| TR288 | Ø508 | 4*15.5 | Interlocking |
| TR360HB | Ø503 | 4*17.6 | Interlocking |

COMPATIBLE WITH DELMAS



| MODEL | KELLY BAR MODEL | | TYPE |
|-------|-----------------|-------|--------------|
| RH12 | Ø349 | 3*9.5 | Interlocking |
| | Ø370 | 4*11 | Interlocking |

SPECIFICATIONS



COMPATIBLE WITH JINTAI



| MODEL | KELLY BAR MODEL | | TYPE |
|--------|-----------------|--------|--------------|
| SD25A | Ø445 | 4*16 | Interlocking |
| SH36 | Ø540 | 4*19.5 | Interlocking |
| SD30W | Ø470 | 4*16 | Interlocking |
| SH46AW | Ø630 | 4*10 | Interlocking |
| SH46AW | Ø630 | 4*11 | Interlocking |
| SH46AW | Ø630 | 4*15 | Interlocking |
| SH46AW | Ø630 | 5*11 | Friction |

COMPATIBLE WITH SUNWARD



| MODEL | KELLY BAR MODEL | | TYPE |
|-----------|-----------------|--------|--------------|
| SWDM 150 | Ø377 | 3*11 | Interlocking |
| SWDM 150 | Ø377 | 4*8 | Interlocking |
| SWDM 280 | Ø470 | 4*13.5 | Interlocking |
| SWDM 280 | Ø470 | 5*16.5 | Interlocking |
| SWDM 300 | Ø470 | 4*9 | Interlocking |
| SWDM 360H | Ø508 | 4*17.4 | Interlocking |

COMPATIBLE WITH MAIT



| MODEL | KELLY BAR MODEL | | TYPE |
|----------|-----------------|--------|--------------|
| MAIT 150 | Ø368 | 3*8.5 | Interlocking |
| MAIT 180 | Ø355 | 4*14 | Interlocking |
| MAIT 180 | Ø377 | 4*9.5 | Interlocking |
| MAIT 180 | Ø445 | 5*11.5 | Interlocking |

COMPATIBLE WITH XCMG



| MODEL | KELLY BAR MODEL | | TYPE |
|--------|-----------------|--------|--------------|
| XR150 | Ø377 | 4*12.5 | Friction |
| XR220 | Ø406 | 4*14.5 | Interlocking |
| XR220 | Ø440 | 4*11.5 | Interlocking |
| XR220 | Ø440 | 4*14.5 | Interlocking |
| XR280 | Ø508 | 4*12.5 | Interlocking |
| XR400 | Ø530 | 4*15 | Interlocking |
| XR550 | Ø630 | 5*24 | Interlocking |
| XR550 | Ø630 | 6*25 | Friction |
| XR1050 | Ø580 | 4*12.5 | Interlocking |

COMPATIBLE WITH IMT



| MODEL | KELLY BAR MODEL | | TYPE |
|-----------|-----------------|------|--------------|
| IMT A150 | Ø377 | 5*8 | Friction |
| IMT A215 | Ø406 | 5*15 | Interlocking |
| IMT AF220 | Ø406 | 4*16 | Full lock |
| IMT AF280 | Ø482 | 5*15 | Mixing |



We will cater our service to the needs of your company.

We are committed to catering to each client's specific needs, offering the flexibility to discuss and arrange dedicated stock on a case-by-case basis.

Our team excels in tailoring solutions to meet unique project requirements, ensuring that every client receives exactly what they need.

With a focus on personalised service and adaptability, we are dedicated to providing customised solutions that align precisely with your unique business and project demands.



Connect with us for a personalised service.

Reach out to be assigned your dedicated account manager, ready to assist with all your project needs:

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