



Zhuzhou Kimberly CARBIDE Introduction

Zhuzhou Kimberly Carbide Co.,Ltd.



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Company Introduction

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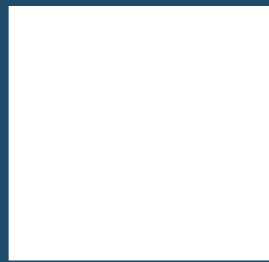
Our Team

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Products & Cases



KB Carbide



✓ About us

✓ Awards

✓ History

✓ Culture

✓ Qualification

诚信
INTEGRITY

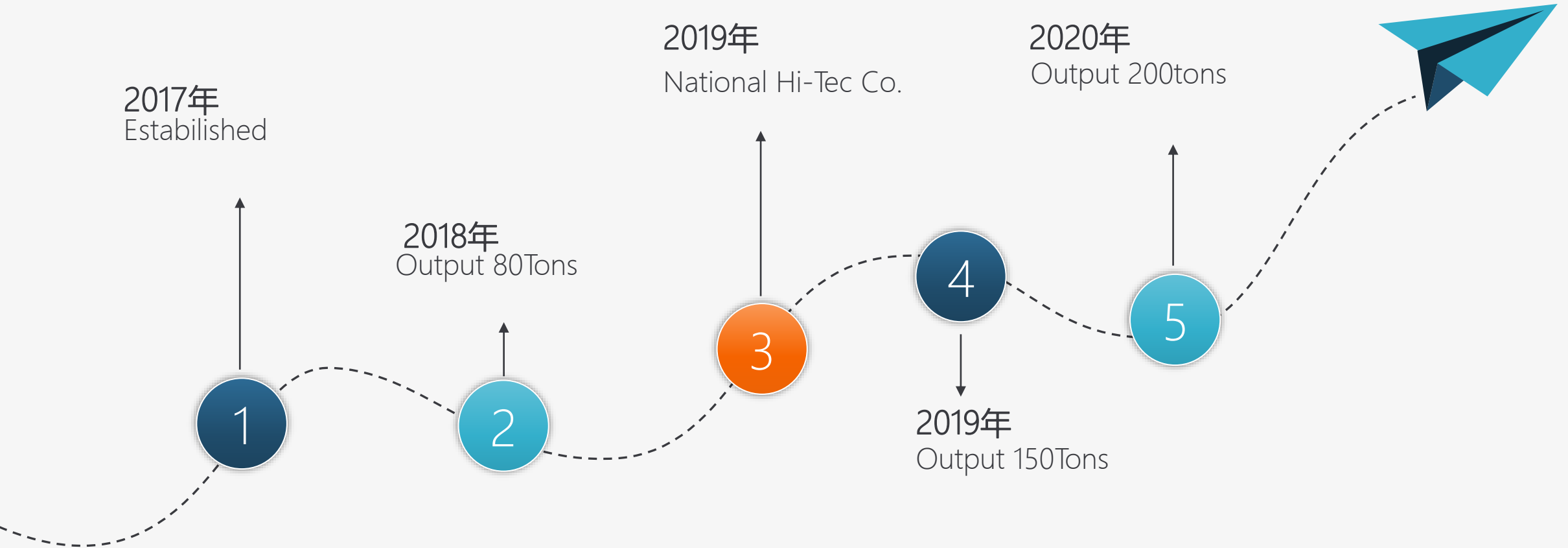
创新
INNOVATE

合作
COOPERATION



- KB Carbide was established in 2017, the main engineers are from ZCC, the technology is from Sandvik, and raw materials are from H.C Starck. All equipment are most advanced.
- The company focus on Mining carbide prouduts, the main products are mining and contruction carbide buttons, and inserts.
- Best and consistent quality and professional service are our advantage







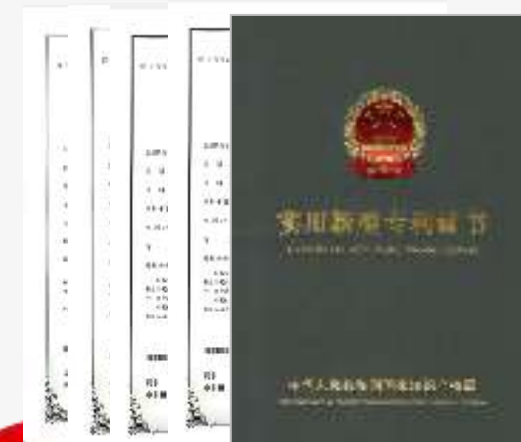
2019 ISO9001



2019 OHSMS



2019 EMS



4patents



- 1 2019 National Hi-Tech enterprises Awards
- 2 2019 The Vice Chairman Company of China Carbide Industries Association
- 3 2019 Registered Exports Products Trade Mark: "KB"

2 Out Team 1



Carbide Engineers and Experts

Carbide Experts



Qin Lin

Founder, GM

2000-2017, He was engineer and experts of ZCC Group, During this 18years, He got 2 National awards, 3 State awards, 4Patents. He is the experts of Sandvik Carbide Production Technology.

Qin Lin Awards



National Prize for Progress in Science



State Prize for Progress in Science

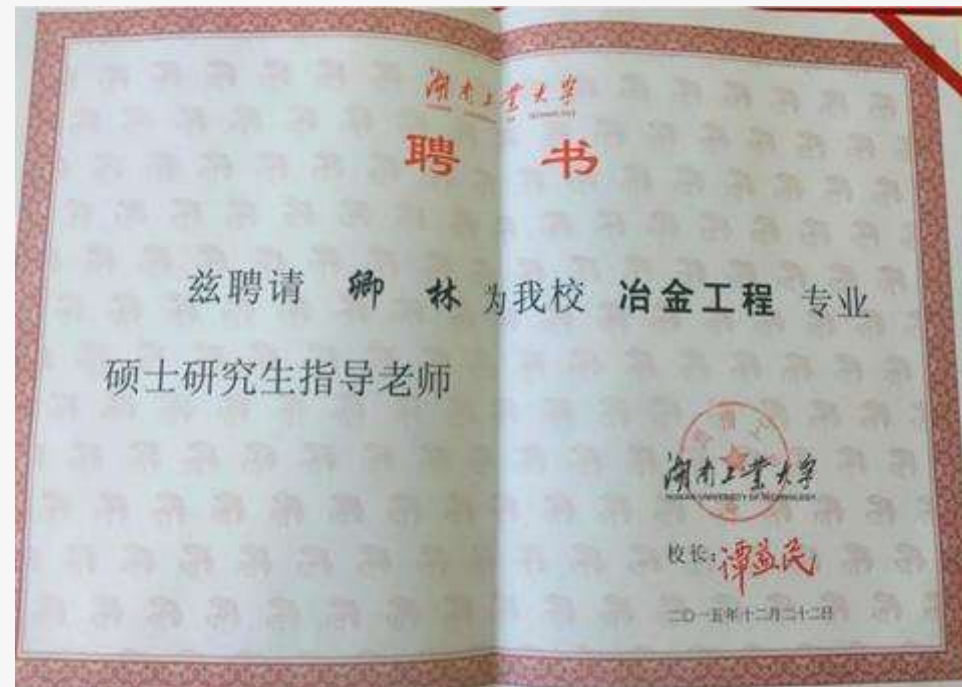


City Prize for Progress in Science

卿林荣誉证书



Ministry of nonferrous industry Awards



Research supervisor graduate teacher Certificate

9 Cases



✓ KD05 Carbide buttons

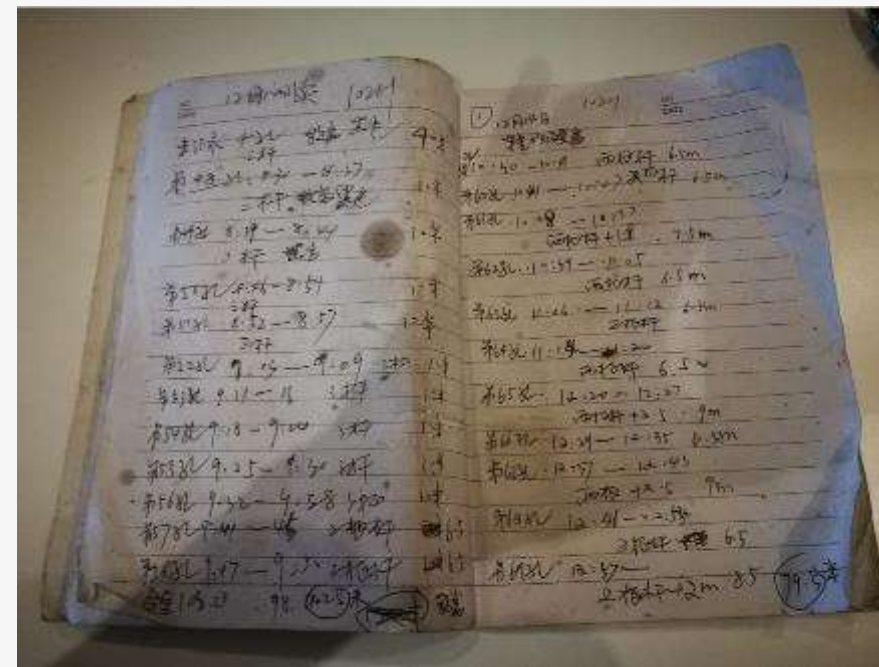
✓ KD205 Carbide inserts

✓ Contracts



Hydraulic thread drill work in high-Power、 High rotation speed、 High Torsion, we develop specially KD05 grade, which grade have good hardness and high impact toughness. After many times field test, the performance is better than YK05 about 15%。

LOGO 设计案例
Design case



2019,Dec KD05 buttons in Inner Monglia ALSAN Open Coal Mine testing

表一 12月11日钻进普通硬度砾岩

| 序号 | 开始时间 | 停止时间 | 时长(分) | 深度(米) | 合金状况(MM) | 备注 |
|------|------|------|-------|-------|----------|-------------|
| 第1孔 | 1:40 | 1:52 | 0:12 | 13.7 | 104.57 | |
| 第2孔 | 1:53 | 2:04 | 0:11 | 13.7 | | |
| 第3孔 | 2:10 | 2:22 | 0:12 | 13.7 | | |
| 第4孔 | 3:15 | 3:25 | 0:10 | 13.7 | | |
| 第5孔 | 3:28 | 3:38 | 0:10 | 13.7 | 104.22 | |
| 第6孔 | 3:41 | 3:50 | 0:09 | 13.7 | | |
| 第7孔 | 3:52 | 4:01 | 0:09 | 13.7 | | |
| 第8孔 | 4:04 | 4:14 | 0:10 | 13.7 | 103.82 | |
| 第9孔 | 4:18 | 4:27 | 0:09 | 13.7 | | |
| 第10孔 | 4:30 | 4:39 | 0:09 | 13.7 | | 合金和库体均见轻微磨损 |
| 第11孔 | 4:43 | 4:53 | 0:10 | 13.7 | | |
| 第12孔 | 4:56 | 5:05 | 0:09 | 13.7 | | |
| 第13孔 | 5:08 | 5:17 | 0:09 | 13.7 | | |
| 第14孔 | 5:20 | 5:28 | 0:08 | 13.7 | 103.78 | |
| 第15孔 | 5:32 | 5:42 | 0:10 | 13.7 | | |
| 第16孔 | 5:46 | 5:57 | 0:11 | 13.7 | | |
| 第17孔 | 6:01 | 6:09 | 0:08 | 13.7 | | |
| 第18孔 | 6:12 | 6:21 | 0:09 | 13.7 | | |
| 第19孔 | 6:24 | 6:33 | 0:09 | 13.7 | | |
| 第20孔 | 6:34 | 6:43 | 0:09 | 13.7 | | |
| 第21孔 | 6:45 | 6:54 | 0:09 | 13.7 | | |
| 第22孔 | 6:57 | 7:07 | 0:10 | 13.7 | 103.52 | 中齿磨损较多 |
| 合计 | | | 3:32 | 301.4 | | |

表二 12月12日钻进白色高硬砂岩

| 序号 | 开始时间 | 停止时间 | 时长(分) | 深度(米) | 合金状况(MM) | 备注 |
|------|-------|-------|-------|-------|----------|-------------|
| 第23孔 | 8:57 | 9:02 | 0:05 | 6.5 | | |
| 第24孔 | 9:03 | 9:08 | 0:05 | 6.5 | | |
| 第25孔 | 9:10 | 9:15 | 0:05 | 5.5 | | |
| 第26孔 | 9:18 | 9:22 | 0:04 | 6.5 | | |
| 第27孔 | 9:28 | 9:32 | 0:04 | 5.5 | | |
| 第28孔 | 9:35 | 9:40 | 0:05 | 6.5 | | |
| 第29孔 | 9:41 | 9:47 | 0:06 | 8 | | |
| 第30孔 | 9:49 | 9:55 | 0:06 | 7.5 | | |
| 第31孔 | 9:59 | 10:08 | 0:09 | 10 | | |
| 第32孔 | 10:10 | 10:19 | 0:09 | 8.5 | | |
| 第33孔 | 10:21 | 10:26 | 0:05 | 6.5 | | |
| 第34孔 | 1:50 | 1:58 | 0:08 | 10 | | 未现场记录, 机手提供 |
| 第35孔 | 2:00 | 2:08 | 0:08 | 10 | | 未现场记录, 机手提供 |
| 第36孔 | 2:10 | 2:18 | 0:08 | 10 | | |
| 第37孔 | 2:22 | 2:32 | 0:10 | 10 | 103.32 | 库体磨损, 露齿1mm |
| 第38孔 | 2:36 | 2:47 | 0:11 | 10 | 103.25 | |
| 合计 | | | 1:48 | 127.5 | | |

表三 12月13日钻进普通硬度砾岩

| 序号 | 开始时间 | 停止时间 | 时长(分) | 深度(米) | 合金状况(MM) | 备注 |
|------|-------|-------|-------|-------|----------|----|
| 第39孔 | 9:29 | 9:36 | 0:07 | 7.5 | | |
| 第40孔 | 9:38 | 9:44 | 0:06 | 8.5 | | |
| 第41孔 | 9:47 | 9:54 | 0:07 | 10 | | |
| 第42孔 | 9:57 | 10:01 | 0:04 | 6.5 | | |
| 第43孔 | 10:02 | 10:05 | 0:03 | 5.5 | | |
| 合计 | | | 0:27 | 38 | | |

12月14日钻进中风化软岩

| 序号 | 开始时间 | 停止时间 | 时长(分) | 深度(米) | 合金状况(MM) | 备注 |
|------|------|------|-------|-------|----------|-----------|
| 第44孔 | 7:53 | 7:58 | 0:05 | 10 | | 未记录, 机手提供 |
| 第45孔 | 8:03 | 8:08 | 0:05 | 10 | | 未记录, 机手提供 |
| 第46孔 | 8:12 | 8:17 | 0:05 | 10 | | 未记录, 机手提供 |
| 第47孔 | 8:21 | 8:26 | 0:05 | 10 | | 未记录, 机手提供 |
| 第48孔 | 8:30 | 8:35 | 0:05 | 10 | | |
| 第49孔 | 8:39 | 8:44 | 0:05 | 10 | | |
| 第50孔 | 8:46 | 8:51 | 0:05 | 10 | | |
| 第51孔 | 8:52 | 8:57 | 0:05 | 10 | | |
| 第52孔 | 9:03 | 9:09 | 0:06 | 10 | | |
| 第53孔 | 9:11 | 9:16 | 0:05 | 10 | | |
| 第54孔 | 9:18 | 9:24 | 0:06 | 10 | | |
| 第55孔 | 9:25 | 9:30 | 0:05 | 10 | | |
| 第56孔 | 9:32 | 9:38 | 0:06 | 10 | | |
| 第57孔 | 9:41 | 9:45 | 0:04 | 6.5 | | |
| 第58孔 | 9:47 | 9:50 | 0:03 | 6.5 | 103.23 | |
| 合计 | | | 1:15 | 143 | | |

After 4days non-stop testing, KD05 buttons drill bits finished 73holes, total depth is 725.4meters, including High-hardness sandstones 243m, Normal-hard sandstones 339.4m, Soft sandstones 143m, result is much better than competitor's buttons.

LOGO 设计案例
Design case



2019, Dec. IN FUJIAN Province, Ningde Hydro power station project, KD05 CARBDIE BUTTONS IN DRILL BITS-89T51, the edge buttons size is SZ1319-F12Q。

表一 2019年12月30日石英岩现场

| 序号 | 开始时间 | 停止时间 | 时长(分) | 深度(米) | 备注 |
|------|-------|-------|-------|-------|------|
| 第1孔 | 12:53 | 12:55 | 0:02 | 3 | |
| 第2孔 | 12:57 | 13:00 | 0:03 | 4 | |
| 第3孔 | 13:04 | 13:12 | 0:08 | 4.5 | 中间暂停 |
| 第4孔 | 13:18 | 13:22 | 0:04 | 5.5 | |
| 第5孔 | 14:22 | 14:25 | 0:03 | 4.5 | |
| 第6孔 | 14:31 | 14:39 | 0:08 | 6.5 | |
| 第7孔 | 14:41 | 14:47 | 0:06 | 6.5 | |
| 第8孔 | 14:49 | 14:53 | 0:04 | 5 | |
| 第9孔 | 14:56 | 14:59 | 0:03 | 6 | |
| 第10孔 | 15:04 | 15:08 | 0:04 | 6.5 | |
| 第11孔 | 15:19 | 15:26 | 0:07 | 6.5 | |
| 第12孔 | 15:49 | 15:57 | 0:08 | 6.5 | |
| 第13孔 | 15:59 | 16:06 | 0:07 | 6.5 | |
| 第14孔 | 16:09 | 16:13 | 0:04 | 5 | |
| 第15孔 | 16:20 | 16:28 | 0:08 | 6.5 | |
| 第16孔 | 16:30 | 16:38 | 0:08 | 6.5 | |
| 第17孔 | 16:40 | 16:49 | 0:09 | 6.5 | |
| 第18孔 | 18:15 | 18:19 | 0:04 | 5 | |
| 第19孔 | 18:22 | 18:26 | 0:04 | 5 | |
| 第20孔 | 18:30 | 18:37 | 0:07 | 6.5 | |
| 第21孔 | 18:39 | 18:44 | 0:05 | 6.5 | |
| 第22孔 | 18:47 | 18:57 | 0:10 | 6.5 | |
| 第23孔 | 19:00 | 19:07 | 0:07 | 6.5 | |
| 合计 | | | 2:13 | 132 | |



In this test, totally drill 23holes and Depth is 132meters. Solve the problem of breakage and wear fast. The operator is very satisfactory.

LOGO 设计案例
Design case



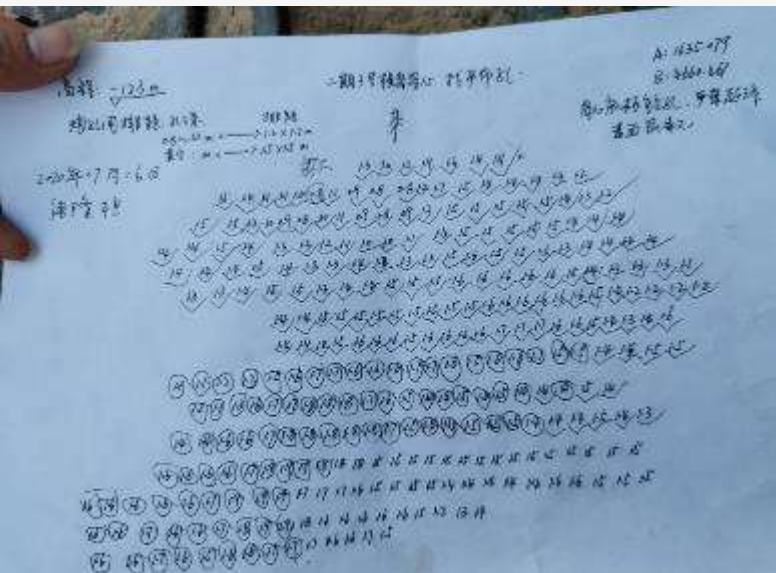
2020, Jun, , IN FUJIAN PROVINCE, Zhouning Construction site, KD05 Carbide buttons in Tread drill bits. Total depth is 1089meters.

LOGO 设计案例
Design case



2020, July, KD05 carbide buttons in Drill bit 89T51, in Hainan province, Changjiang nuclear power station.

LOGO 设计案例 Design case



Total depth is 1109meters

LOGO 设计案例
Design case



2019, Dec, in Hunan Province, Changsha xiangjiang quarry KD05 Carbide buttons in DTH BITS

LOGO 设计案例
Design Case

KD05 高风压球齿实验数据

| 序号 | 时 间 | 完成孔数 | 进尺(米) | 合金尺寸 | 记录人 |
|----|-------------|------|-------|--------|-----|
| 1 | 2019年12月18日 | 5 | 75 | 112.89 | 胡志祥 |
| 2 | 2019年12月19日 | 4 | 60 | | 廖师傅 |
| 3 | 2019年12月20日 | 10 | 150 | 111.38 | 胡志祥 |
| 4 | 2019年12月22日 | 9 | 135 | | 廖师傅 |
| 合计 | | 28 | 420 | | |



In this test, KD05 Carbide buttons in High wind pressure DTH Drill bits, total drill 28holes, and total depth is 420meter.

LOGO 设计案例
Design case



FUJIAN province, ningde cast industrial park construction site, KD05 carbide buttons in short shank Drill bits-115, total depth 96m, compare product is YK05, which is 85m。



KD05 Carbide buttons have very good hardness and toughness, quality is consistent, Compare with the main competitor's buttons, our buttons have longer life.

Now our products already replaced old player's big share in Chinese domestic market, Changsha Heijingang, Hunan New Diamond, Shandong EUMA are our regular customers.

We just started our export, and we will be success in the international market too.

LOGO 设计



KD205 is made from super oversize grain powder, the grain size is 8-12um, much bigger than normal size of 2.4um, the grade is excellent in Rotary Drilling, tunneling, and coal mining.

LOGO 设计案例
Design case



IN Hebei Province, Jizhong Coal Mine, KD205 carbide inserts in mining test.

LOGO 设计案例
Design case

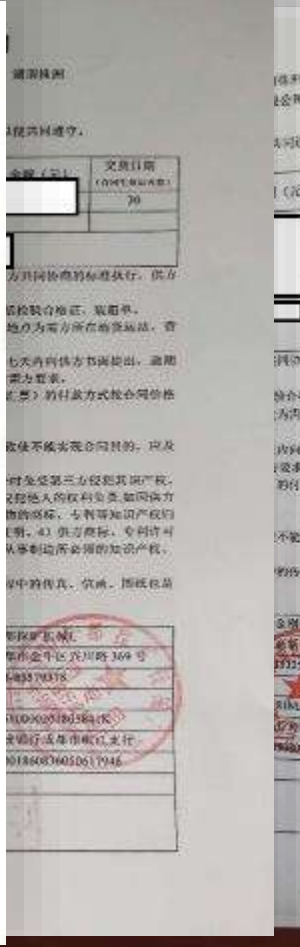


KD205 Carbide inserts have longer life than the foreign competitor's.

LOGO 设计案例



IN ZHEJIANG Province , SHAOXIN City, YONGJIN Highspeed Railway Project site, KD205 Carbide inserts in rotary drill test. Test result is satisfactory.



Above are the contracts from our big regular customers.



Thanks for your time



Zhuzhou Kimberly Carbide Co.,Ltd