

Grinding Machine and Grinding Cups





MAXDRILL

Bit Wear Overview

• Sharp Bit

The percussive energy transferred into the rock is optimized, large rock chips are produced and the penetration rate is maximized.

• Flats Developing

The energy utilization is less effective after flats develop. Button penetration is decreased, more material is pulverized and smaller rock chips are produced.Less percussive energy is transferred into the rock and the unused energy is reflected back up the drill string, dissipating as heat and vibration. Bits should be sharpened before the wear flat widths reach 1/3 of the button diameter.Drilling with the wear flat wider than 1/3 of the button diameter.Drilling with the wear flat wider than 1/3 of the button diameter.

Flats Developing

At this point button penetration is typically at its lowest. Much of the material in contact with the buttons is pulverized beneath the wear flats. The steel bit face is making contact with the hole bottom. Fewer and smaller rock chips are produced and much of the energy is reflected back up the drill string. This sacrifices the life of the drill string components and increases the wearand tear on your drill rig components. Additional crushing and pulverizing of the drill cuttings trapped between the bit matrix and the hole bottom occurs, further reducing penetration

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Bit Wear Patterns



Gauge Wear

In some materials such as hard sand stone and quartzite, the wear tends to be greater on the bit circumference. Thus, when the buttons are sharpened, the diameter across the gauge buttons will be less than the diameter of the bit shoulders and the bit will tend to bind in the hole. Consider bit replacement.

Body Wash



When drilling in non-abrasive materials, where carbide wear is minimal, extended drilling intervals are possible. This allows for prolonged chip removal around the bits and will wear away the bit body to a greater extent than the buttons. Similar wear occurs in fractured and loose materials where excessive agitation and grinding of the materials is required for hole cleaning and to keep the hole open during retraction. To prevent tearing out buttons and

button shear under these conditions, the protrusion should be reduced by scheduling grinding intervals to grind down the buttons.



• Over Drilling

The detrimental effects of over drilling bits may not be immediately apparent. However, running dull bits not only slows down the drilling rates but escalates drilling costs by reducing life on the drilling tool components, the rock drills and the drill rig components. Premature button bit insert failures are reduced substantially when over drilling is eliminated and proper sharpening is performed.

MAXDRILL PRODUCT SERVICING Grinding Machine and cups

Chisel Reshaping

Button Reshaping

Grinding Cups

Chisel Reshaping

-Pneumatic integral rod/chisel bits grinder



◆ This pneumatic machine is designed for grinding the chisel bits and integral drill rods. Your worn bit or rod can be reused after being grinded by our grinding machine, to prolongtheir service life and save your money. It's hand-held using, very convenient.

OKEMAICO

Model No.	MPCG1.0
Rotation speed	3500RPM max
Motor Power	2Hp
Sharpening angle	110°
Sharpening radius	125mm
Working air pressure	e 5-7 bar (100 psi)
Air consumption at	6 bar 1.5m ³ /min
Abrasive grinding w	heel 125*63*32mm
Transport dimension	ns 650*450*300mm
Anchor hole diamet	er 32mm
Weight	27kg

-Pneumatic integral rod/chisel bits grinder Packing







-Hand-Held Pneumatic Bit Regrinding Machine

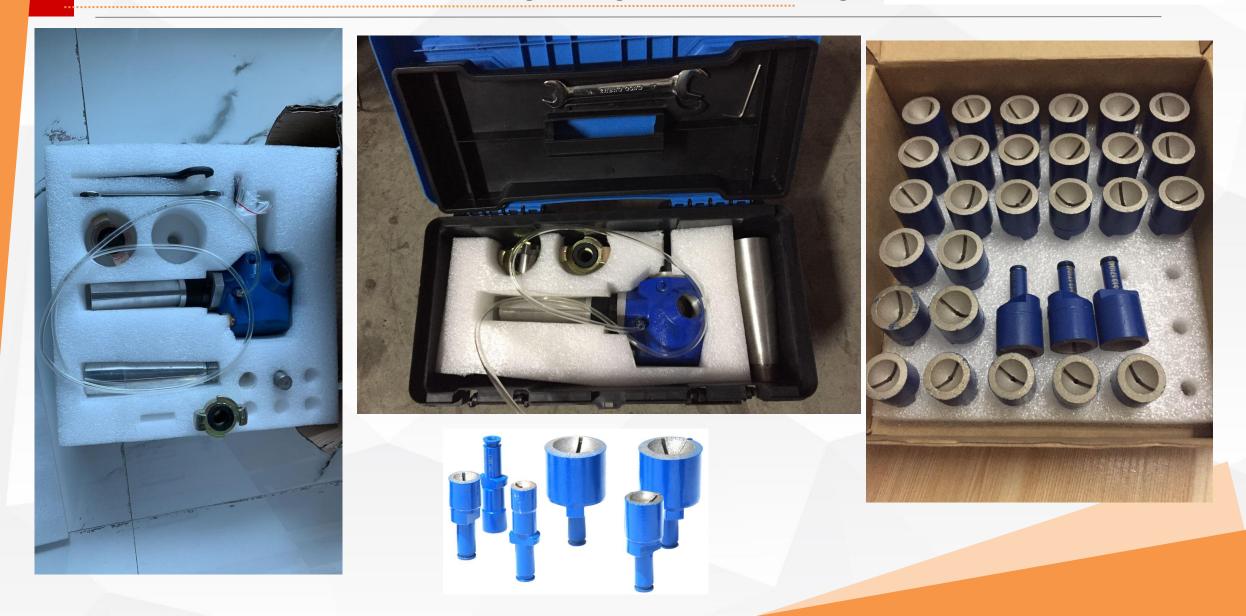






Model No.	MPHG1.0	
Max gear grinding size of button bit	<200mm	
Working air pressure	7bar(100psi)	
Air consumption	2m³/min	
Motor power	1.5Kw	
Rotation speed	22,000 r.p.m	
Max. water pressure	4bar(60psi)	
Internal diameter of trachea	12mm	
Water hose diameter	4mm	
Weight excl. packaging	3.6Kg	
Sound level	90dB	
Transport dimensions	34.5*34.5*15C	
	Μ	
Transport dimensions	40*20*20CM	

-Hand-Held Pneumatic Bit Regrinding Machine Packing



-Light Weight Pneumatic Bit Regrinding Machine







Model No.	MSRG1.0
Туре	semi-automatic
Max gear grinding size of button bit	<200mm
Working air pressure	5-7bar(100psi)
Air consumption	2.2m3/min (80ft3/min)
Motor power	1.5Kw
Aax.water pressure	4bar(60psi)
Internal diameter of trachea	19mm
Water hose diameter	4mm
Weight excl. packaging	120Kg
Sound level	92dB
Transport dimensions	122*62*69cm

-Light Weight Pneumatic Bit Regrinding Machine Packing



-Electric Robot Arm Button Bits Grinder









Model No.	MRG100
Туре	Automatic-Electric
Max gear grinding size of button bit	≤300mm(standard)
Max gear grinding size of button bit	300mm-400mm(big size one)
Rotation speed	20000 rpm
Motor power	1.5 KW
Working air pressure	5-7 bar (100 psi)
Air consumption	2.2 m3 / min (80ft3/min)
Max. water pressure	4 bar (60 psi)
Air hose diameter	19 mm
Water hose diameter	6 mm
Weight excl. packaging	600 Kg
Weight incl. packaging	720 Kg
Transport dimensions	1200*1200*1850mm
Sound level	92 dB(A)

-Pneumatic Robot Arm Button Bits Grinder Packing CMAICO





-Pneumatic button bits grinder





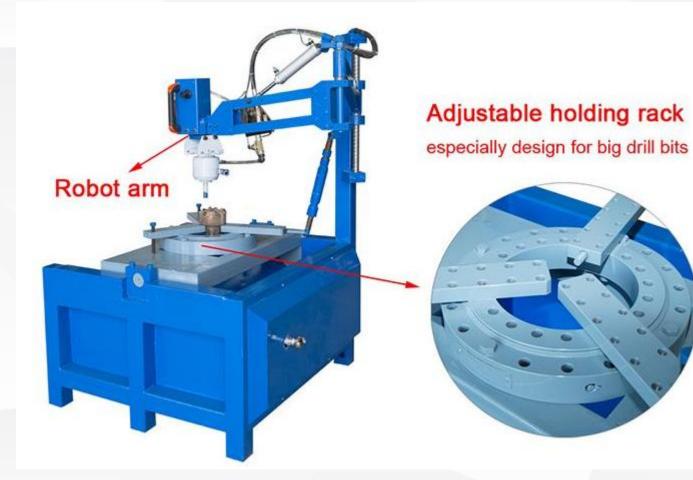
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MRPG100
Automatic-Pneumatic
≤300mm(standard)
300mm-400mm(big size one)
20000 rpm
1.5 KW
5-7 bar (100 psi)
2.2 m3 / min (80ft3/min)
4 bar (60 psi)
19 mm
6 mm
600 Kg
720 Kg
1200*1200*1850mm
92 dB(A)

-Pneumatic button bits grinder





Grinding Cups for grinding machines

-CME Grinding Cups

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Grinding Cups for grinding machines -ATLAS COPCO Grinding Cups







Guide of Product Code

i.e. G08K-07-66

G08	К	-	07	-	66
G08 : Granding cups	C : CME K : King A : Atlas S : Sandvik		07 : button bit size 7mm 08 : button bit size 8mm 09 : button bit size 9mm		66 : Spherical 65 : Ballistic

Grinding Cups for grinding machines

Sutton Bits Size	CME	KING	ATLAS	SANDVIK
7mm	G08C-07-66	G08K-07-66	G08A-07-66	G08S-07-66
VIIIII	G08C-07-65	G08K-07-65	G08A-07-65	G08S-07-65
8mm	G08C-08-66	G08K-08-66	G08A-08-66	G08S-08-66
	G08C-08-65	G08K-08-65	G08A-08-65	G08S-08-65
9mm	G08C-09-66	G08K-09-66	G08A-09-66	G08S-09-66
5000	G08C-09-65	G08K-09-65	G08A-09-65	G08S-09-65
10mm	G08C-10-66	G08K-10-66	G08A-10-66	G08S-10-66
10000	G08C-10-65	G08K-10-65	G08A-10-65	G08S-10-65
11mm	G08C-11-66	G08K-11-66	G08A-11-66	G08S-11-66
11000	G08C-11-65	G08K-11-65	G08A-11-65	G08S-11-65
12mm	G08C-12-66	G08K-12-66	G08A-12-66	G08S-12-66
12000	G08C-12-65	G08K-12-65	G08A-12-65	G08S-12-65
13mm	G08C-13-66	G08K-13-66	G08A-13-66	G08S-13-66
Taum	G08C-13-65	G08K-13-65	G08A-13-65	G08S-13-65
14mm	G08C-14-66	G08K-14-66	G08A-14-66	G08S-14-66
14000	G08C-14-65	G08K-14-65	G08A-14-65	G08S-14-65
15mm	G08C-15-66	G08K-15-66	G08A-15-66	G08S-15-66
13000	G08C-15-65	G08K-15-65	G08A-15-65	G08S-15-65
16mm	G08C-16-66	G08K-16-66	G08A-16-66	G08S-16-66
10000	G08C-16-65	G08K-16-65	G08A-16-65	G08S-16-65
17mm	G08C-17-66	G08K-17-66	G08A-17-66	G08S-17-66
17000	G08C-17-65	G08K-17-65	G08A-17-65	G08S-17-65
18mm	G08C-18-66	G08K-18-66	G08A-18-66	G08S-18-66
10000	G08C-18-65	G08K-18-65	G08A-18-65	G08S-18-65
19mm	G08C-19-66	G08K-19-66	G08A-19-66	G08S-19-66
13000	G08C-19-65	G08K-19-65	G08A-19-65	G08S-19-65
20mm	G08C-20-66	G08K-20-66	G08A-20-66	G08S-20-66
2011111	G08C-20-65	G08K-20-65	G08A-20-65	G08S-20-65
21mm	G08C-21-66	G08K-21-66	G08A-21-66	G08S-21-66
21000	G08C-21-65	G08K-21-65	G08A-21-65	G08S-21-65
22mm	G08C-22-66	G08K-22-66	G08A-22-66	G08S-22-66
22mm	G08C-22-65	G08K-22-65	G08A-22-65	G08S-22-65
23mm	G08C-23-66	G08K-23-66	G08A-23-66	G08S-23-66
2011111	G08C-23-65	G08K-23-65	G08A-23-65	G08S-23-65
24mm	G08C-24-66	G08K-24-66	G08A-24-66	G08S-24-66
	G08C-24-65	G08K-24-65	G08A-24-65	G08S-24-65



Our factory



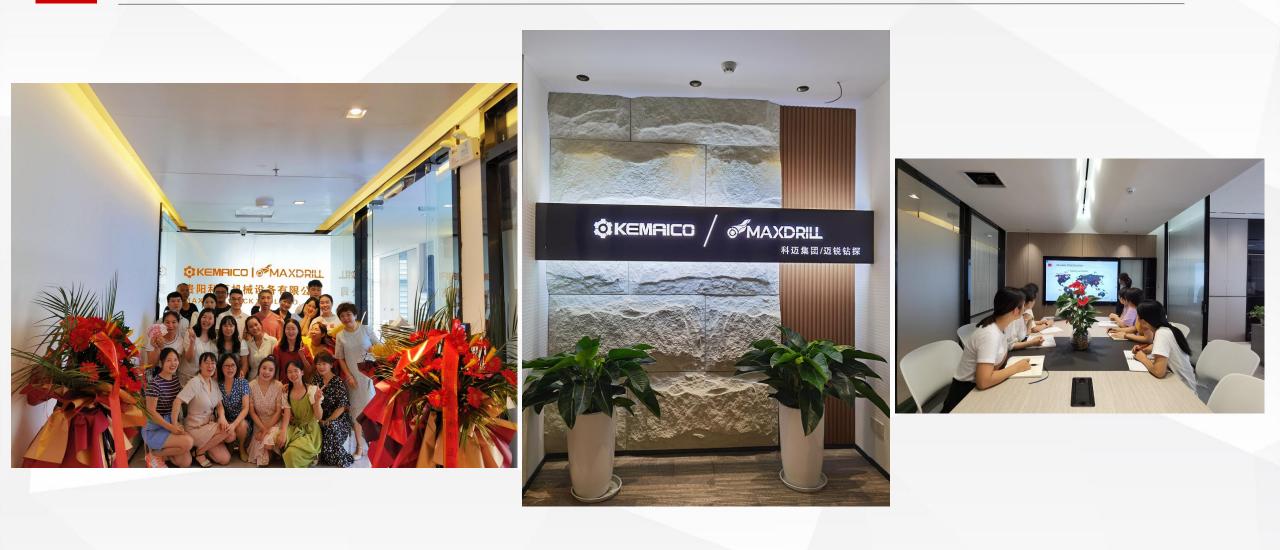






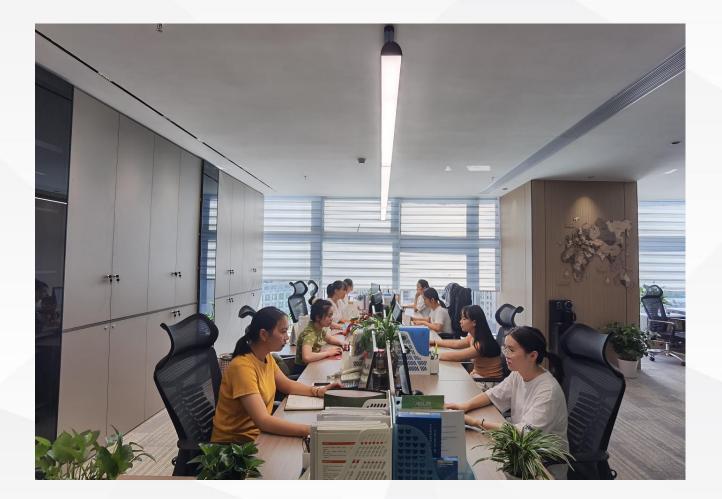












- Professional
- Accurate
- Timely

Our QC Team



Material Analysis
Process Inspection
Product Inspection



Our Technical Team





Committed to developing drilling tools which can meet different customers' requirements

CKEMAICO

2022



THANKS !