

# Abrasive Cutting

CK200M/CK200B



Fit any  
kinds of  
samples

Easy to use

## Instruction

Model No.: CK200B



## Features



**CK200B**

Automatic operation panel



**CK200M**

Manual operation panel



### Standard accessories

#### Recirculation coolant system

Quick connector

Built in coolant fluid level gauge easy to check the water level

Metal filtration panel prevent sample from falling into tank during cutting



### Option

#### Magnetic filtration recirculation coolant system

CK-003 (120L)

CK-003-1(160L)

CK-003-2(200L)



### Option-horizontal movement vise

With the right/left vise a movement 25mm in X-axis



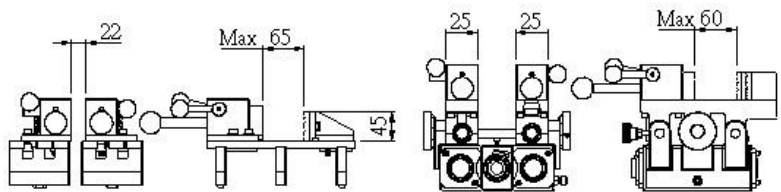
### Standard vise-

#### Separated vise with feeding table

Fit with various kinds of samples

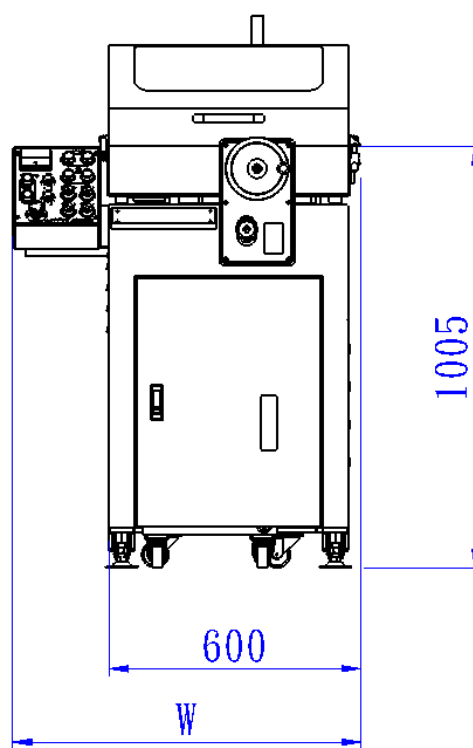
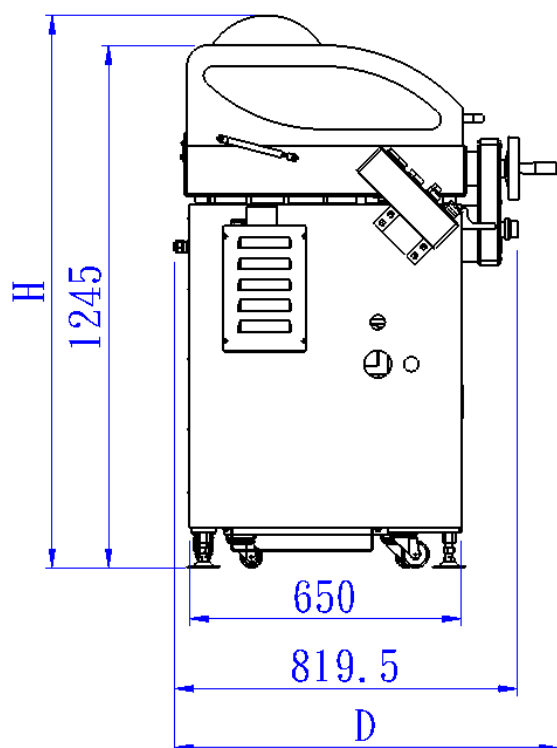
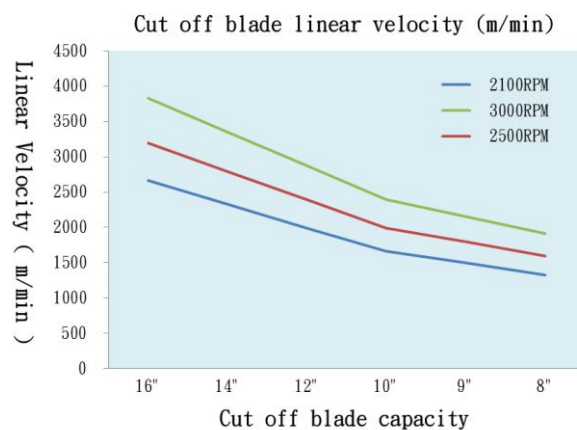
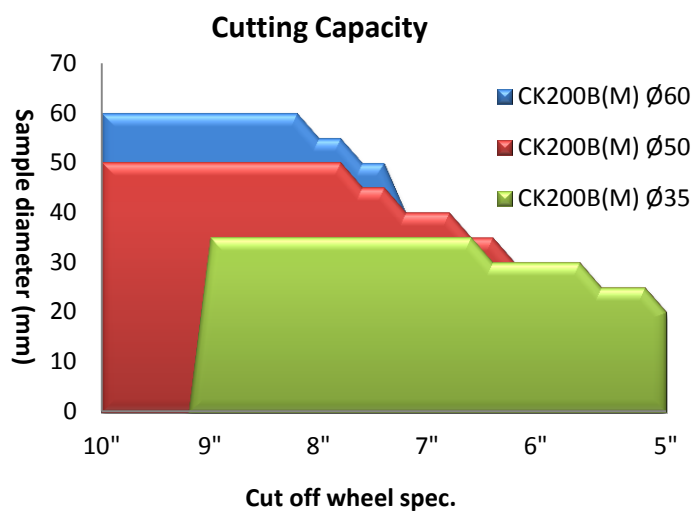


## Specifications

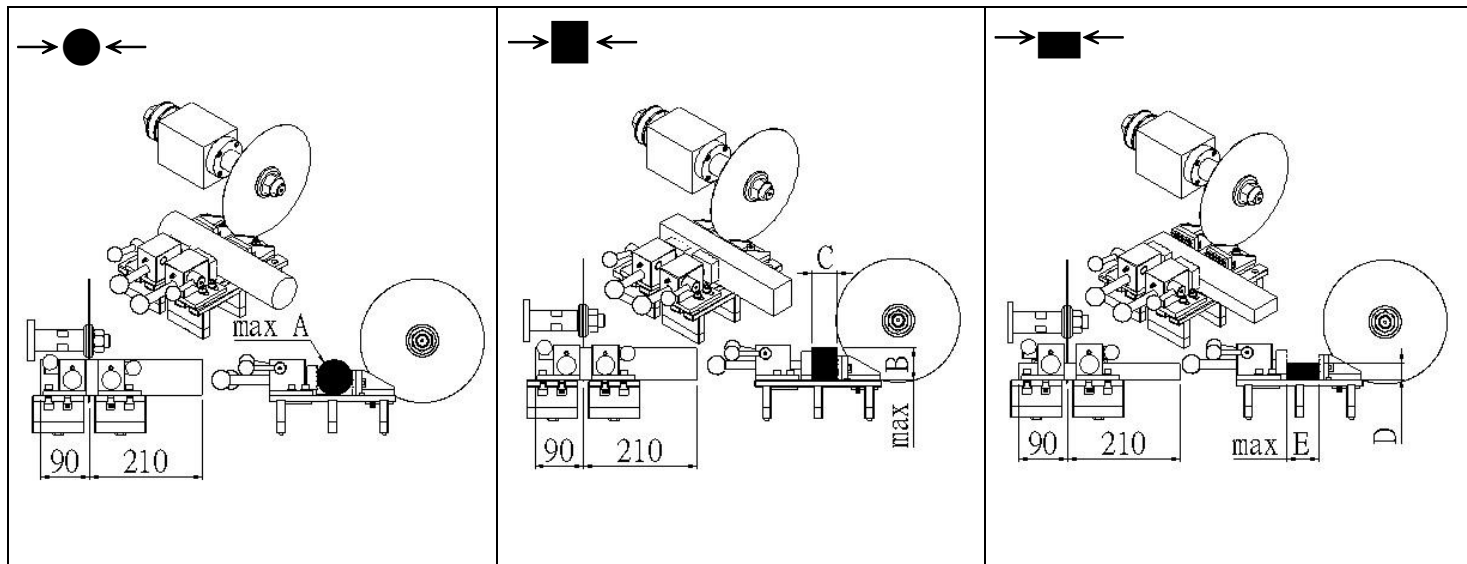
| Model No.                         | 200M                                                                                 |                 |         | 200B                                  |                 |         |
|-----------------------------------|--------------------------------------------------------------------------------------|-----------------|---------|---------------------------------------|-----------------|---------|
| Vise Travel                       | 200 mm                                                                               |                 |         |                                       |                 |         |
| Motor Power                       | 1HP                                                                                  | 2HP             | 3HP     | 1HP                                   | 2HP             | 3HP     |
|                                   | 750W                                                                                 | 1500W           | 2300W   | 750W                                  | 1500W           | 2300W   |
| Noise Level (idling)              | 70~72dB                                                                              | 70~74dB         | 70~75dB | 70~72dB                               | 70~74dB         | 70~75dB |
| Cutting capacity                  | <a href="#">Appendix 1</a> 、 <a href="#">Appendix 2</a>                              |                 |         |                                       |                 |         |
| Cutting Chamber                   | <a href="#">Appendix 3</a>                                                           |                 |         |                                       |                 |         |
| Abrasive Wheel (Diameter & Arbor) | Ø230 x Ø31.75mm                                                                      | Ø255 x Ø31.75mm |         | Ø230 x Ø31.75mm                       | Ø255 x Ø31.75mm |         |
| Flange Diameter                   | Ø60mm                                                                                |                 |         | Ø60mm                                 |                 |         |
| Feed Rate                         | Manual: Hand wheel                                                                   |                 |         | 50~150 mm/min                         |                 |         |
| Feed Method                       | Manual: Hand wheel                                                                   |                 |         | Manual: Button & Hand wheel control   |                 |         |
|                                   |                                                                                      |                 |         | Auto: Home point return after cutting |                 |         |
| Rotational Speed                  | 3000RPM(60Hz) / 2500RPM(50Hz)                                                        |                 |         |                                       |                 |         |
| Vise                              | Separated vise with feeding table                                                    |                 |         |                                       |                 |         |
| Vise Dimension (WxH)              |  |                 |         |                                       |                 |         |
| Movement in X-axis                |                                                                                      |                 |         |                                       |                 |         |
| Pump Motor Power                  | 1/8HP (95W) Single phase                                                             |                 |         |                                       |                 |         |
| Recirculation Cooling System      | 50L                                                                                  |                 |         |                                       |                 |         |
| Machine Dimension (WxDxH)         | 830 x 850 x 1300mm                                                                   |                 |         | 830 x 900 x 1300mm                    |                 |         |
| Machine Weight                    | 212Kg                                                                                | 218Kg           | 230Kg   | 226Kg                                 | 230Kg           | 250Kg   |
| Voltage                           | AC 220V/380V /415V/440V Three phases<br>(Special voltage can be customized)          |                 |         |                                       |                 |         |
| Standard Accessories              | Wrenchx2pcs, cut off bladex2pcs, coolant 3L                                          |                 |         |                                       |                 |         |

## Parameter

For reference only



## Appendix 1 – Separated vise + feeding table (Standard)



| Model no.     | ●     |                                  | ■     |          | ■     |          | Order no. |
|---------------|-------|----------------------------------|-------|----------|-------|----------|-----------|
|               | A(mm) | A cutting area(mm <sup>2</sup> ) | B(mm) | B x C    | E(mm) | E x D    |           |
| CK200M(B)-1HP | Ø35   | 961.625                          | 35    | 35x27.5  | 65    | 65x14.8  | C35K1006B |
| CK200M(B)-2HP | Ø50   | 1962.5                           | 50    | 50x39.25 | 65    | 65x30.19 | C35K1006B |
| CK200M(B)-3HP | Ø60   | 2826                             | 60    | 60x47.1  | 65    | 65x43.48 | C35K1006B |

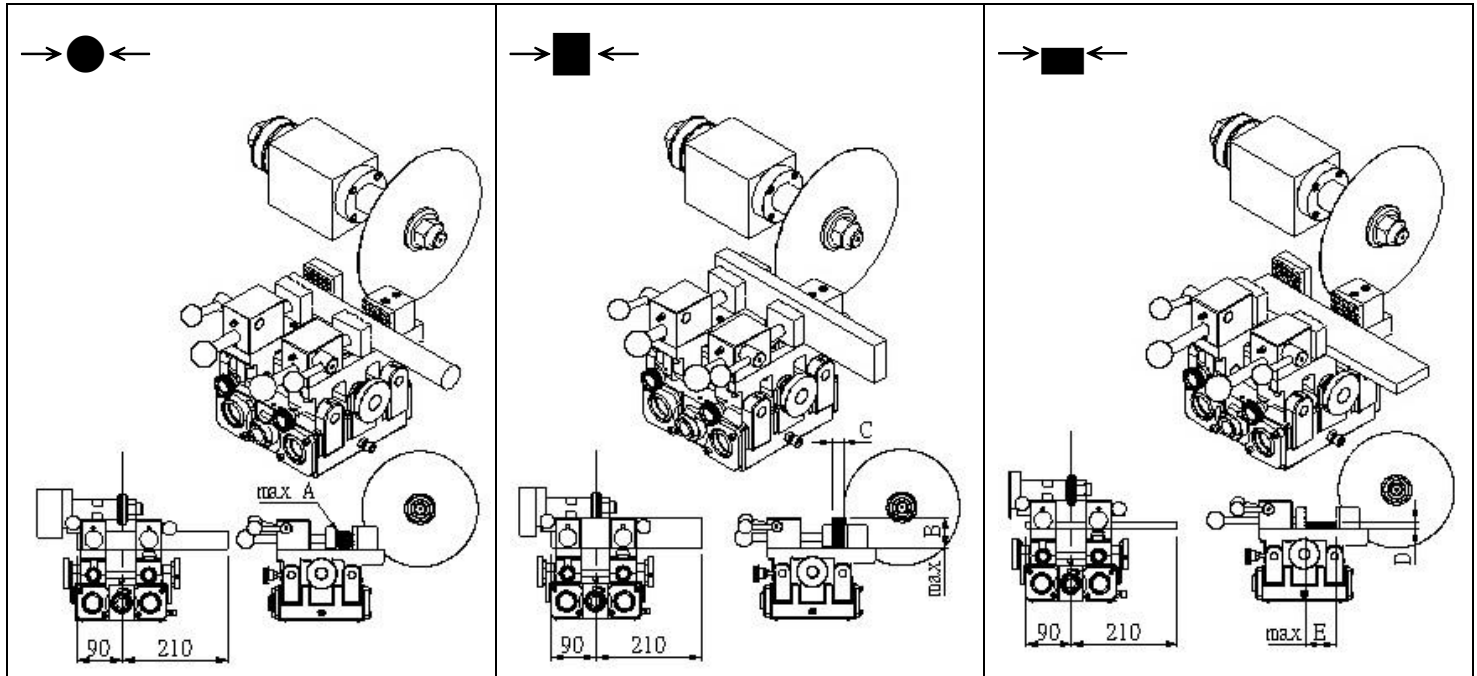
**Square area surface calculation method:**

The maximum height is B, the maximum width is E.  $B \times C$  or  $E \times D \leq A$  surface area.

**Material application:** Alloy tool steel SKS, SKD, SKT, SUP as heat treatment mechanical metal components, ordinary carbon steel, mechanical structure steel S-C series, tool steel SK series, and soft steel SS series.

Surface area can be cut in according to its degree of heat treatment

## Appendix 2 –Separated horizontal movement vise



| Model no.     | ●     |                                  | ■     |          | ▭     |          | Order no. |
|---------------|-------|----------------------------------|-------|----------|-------|----------|-----------|
|               | A(mm) | A cutting area(mm <sup>2</sup> ) | B(mm) | B x C    | E(mm) | E x D    |           |
| CK200M(B)-1HP | Ø35   | 961.625                          | 35    | 35x27.5  | 60    | 60x16.02 | C35K1006  |
| CK200M(B)-2HP | Ø50   | 1962.5                           | 50    | 50x39.25 | 60    | 60x32.7  | C35K1006  |
| CK200M(B)-3HP | Ø60   | 2826                             | 60    | 60x47.1  | 60    | 60x47.1  | C35K1006  |

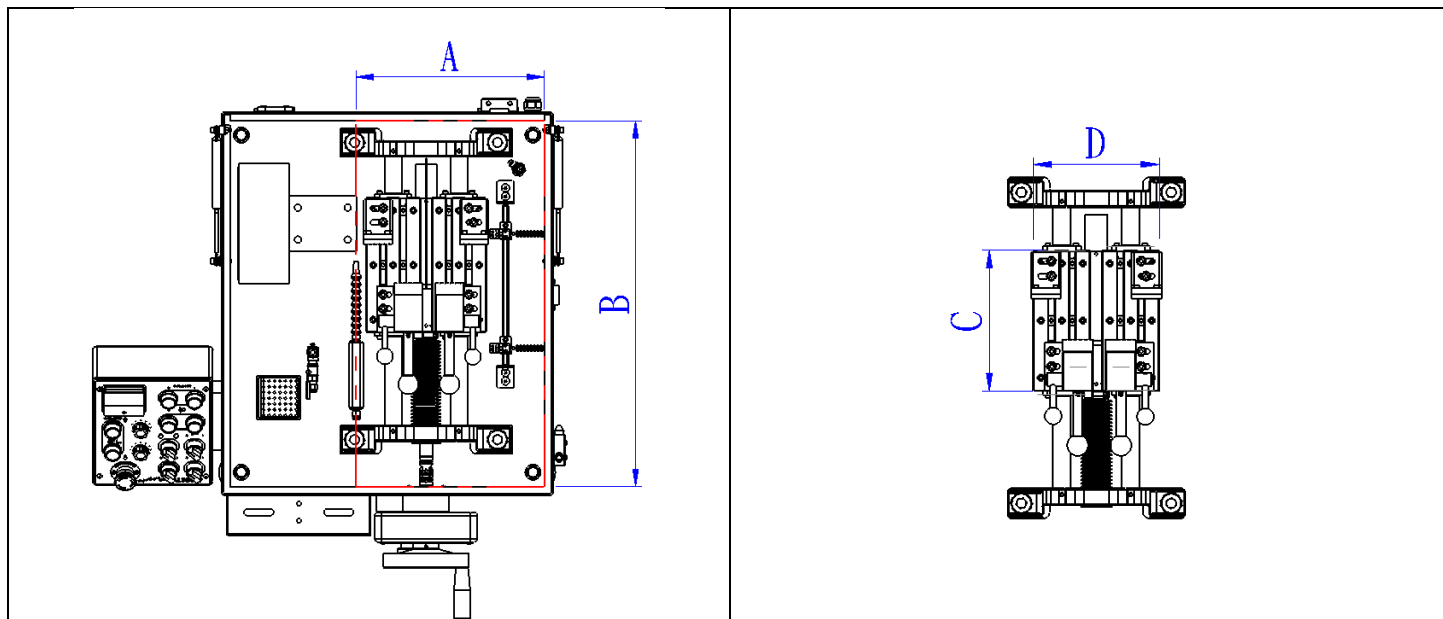
**Square area surface calculation method:**

The maximum height is B, the maximum width is E.  $B \times C$  or  $E \times D \leq A$  surface area.

**Material application:** Alloy tool steel SKS, SKD, SKT, SUP as heat treatment mechanical metal components, ordinary carbon steel, mechanical structure steel S-C series, tool steel SK series, and soft steel SS series.

Surface area can be cut in according to its degree of heat treatment

## Appendix 3 – Cutting chamber capacity



| Model no.     | A(mm) | B(mm) | C(mm) | D(mm) |
|---------------|-------|-------|-------|-------|
| CK200M(B)-1HP | 320   | 620   | 235   | 210   |
| CK200M(B)-2HP | 320   | 620   | 235   | 210   |
| CK200M(B)-3HP | 320   | 620   | 235   | 210   |



## Consumables

### Abrasive Wheel

| Order No.        | Materials                                                                                              | Model no.       | Diameter*<br>Arbor*Thickness | MOQ |
|------------------|--------------------------------------------------------------------------------------------------------|-----------------|------------------------------|-----|
| <b>S02A0101</b>  | Alloy tool steels SKS、SKD、SKT<br>、SUP heat treatment metal                                             | CK200(B)(1HP)   | 9"(Ø230XØ31.75X1)            | 10  |
| <b>S02A0103</b>  | Alloy tool steels、<br>Heat treatment metal                                                             | CK200(B)(1HP)   | 9"(Ø230XØ31.75X1.5)          | 10  |
| <b>S02B0101A</b> | Ordinary carbon steel、mechanical<br>structural steel S-C series、tool<br>steel、<br>soft steel SS series | CK200(B)(1HP)   | 9"(Ø230XØ31.75X1)            | 10  |
| <b>S02C0101</b>  | Special alloy steel、<br>high-speed steel and other heat<br>treatment components                        | CK200(B)(1HP)   | 9"(Ø230XØ31.75X1)            | 10  |
| <b>S02C0901</b>  | Special alloy steel、high speed steel<br>and other high hardness<br>heat treatment components           | CK200(B)(1HP)   | 9"(Ø230XØ32X1)               | 10  |
| <b>S02D0101</b>  | Ordinary cast iron FC for casting                                                                      | CK200(B)(1HP)   | 9"(Ø230XØ31.75X1)            | 10  |
| <b>S02E0101</b>  | Non-iron metals、copper alloy                                                                           | CK200(B)(1HP)   | 9"(Ø230XØ31.75X1)            | 10  |
| <b>S02F0101</b>  | Bakelite、Plastic、sapphire                                                                              | CK200(B)(1HP)   | 9"(Ø230XØ31.75X1)            | 10  |
| <b>S02A0202</b>  | Alloy tool steels SKS、SKD、SKT<br>、SUP heat treatment metal                                             | CK200(A)(2&3HP) | 10"(Ø255XØ31.75X1.2)         | 10  |
| <b>S02B0202A</b> | Ordinary carbon steel、mechanical<br>structural steel<br>S-C series、tool steel、<br>soft steel SS series | CK200(B)(2&3HP) | 10"(Ø255XØ31.75X1.2)         | 10  |
| <b>S02C0202</b>  | Special alloy steel、<br>high-speed steel and other heat<br>treatment components                        | CK200(B)(2&3HP) | 10"(Ø255XØ31.75X1.2)         | 10  |
| <b>S02D0202</b>  | Ordinary cast iron FC for casting                                                                      | CK200(B)(2&3HP) | 10"(Ø255XØ31.75X1.2)         | 10  |
| <b>S02D1002B</b> | Ordinary cast iron FC for casting                                                                      | CK200(B)(2&3HP) | 10"(Ø255XØ32X1.2)            | 10  |
| <b>S02E0202</b>  | Non-iron metals、copper alloy                                                                           | CK200(B)(2&3HP) | 10"(Ø255XØ31.75X1.2)         | 10  |
| <b>S02F0202</b>  | Bakelite、Plastic、Sapphire                                                                              | CK200(B)(2&3HP) | 10"(Ø255XØ31.75X1.2)         | 10  |



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|                     |                                                                                                    |                 |                   |    |
|---------------------|----------------------------------------------------------------------------------------------------|-----------------|-------------------|----|
| <b>S02N10AD</b>     | Ordinary carbon steel 、 mechanical structural steel S-C series 、 tool steel 、 soft steel SS series | CK200(B)(2&3HP) | 10"(Ø250XØ32X1.6) | 10 |
| <b>S02N10ATC</b>    | Alloy tool steels SKS 、 SKD 、 SKT 、 SUP heat treatment metal                                       | CK200(B)(2&3HP) | 10"(Ø250XØ32X1.6) | 10 |
| <b>S02N10ATS</b>    | Special alloy tool steel 、 High-speed steel 、 heat treatment material                              | CK200(B)(2&3HP) | 10"(Ø250XØ32X1.6) | 10 |
| <b>S02N10NF(SS)</b> | Ordinary carbon steel 、 mechanical structural steel tool steel 、 soft steel series                 | CK200(B)(2&3HP) | 10"(Ø250XØ32X1.6) | 10 |



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## Consumables

### Diamond Saw

| Order No.   | Materials                                                                            | Model no.           | Diameter*<br>Arbor*Thickness | MOQ | Remark         |
|-------------|--------------------------------------------------------------------------------------|---------------------|------------------------------|-----|----------------|
| HW21111207  | Non-iron material 、 non-metal material 、 precision cutting 、 high molecular material | CK200(B)<br>(1HP)   | 8"(Ø200XØ25.4X1)             | 1   | Electroforming |
| HW21111208H | Non-iron material 、 non-metal material 、 precision cutting 、 high molecular material | CK200(B)<br>(1HP)   | 8"(Ø200XØ25.4X1.2)           | 1   | Electroforming |
| HW21121203L | Non-iron material 、 non-metal material 、 precision cutting 、 high molecular material | CK200(B)<br>(1HP)   | 8"(Ø200XØ25.4X0.6)           | 1   | Metal-bonded   |
| HW21121207L | Non-iron material 、 non-metal material 、 precision cutting 、 high molecular material | CK200(B)<br>(1HP)   | 8"(Ø200XØ25.4X1)             | 1   | Metal-bonded   |
| HW21121510L | Non-iron material 、 non-metal material 、 precision cutting 、 high molecular material | CK200(B)<br>(2&3HP) | 10"(Ø250XØ31.75X2)           | 1   | Metal-bonded   |

### CBN

| Order No.   | Materials                                                                                 | Model no.           | Diameter*<br>Arbor*Thickness | MOQ | Remark |
|-------------|-------------------------------------------------------------------------------------------|---------------------|------------------------------|-----|--------|
| HW21221503H | Iron material 、 chilled steel 、 chilled cast iron 、 super alloy 、 thermal spray materials | CK200(B)<br>(2&3HP) | 10"(Ø250XØ31.75X2)           | 1   |        |
| HW21221510L | Iron material 、 chilled steel 、 chilled cast iron 、 super alloy 、 thermal spray materials | CK200(B)<br>(2&3HP) | 10"(Ø250XØ31.75X2)           | 1   |        |

## Coolant

| Order No. | Model   | Capacity | Feature                     | MOQ | Remark |
|-----------|---------|----------|-----------------------------|-----|--------|
| S01001    | Coolant | 20L      | Creamy and high oil content | 20L |        |
| S01002    | Coolant | 1L       | Creamy and high oil content | 1L  |        |

**Remark: Welcome to get the more detail information of consumables in the follow link**

<http://toptech.synology.me/Consumables/CuttingEN.pdf>





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