



CO-MAX MACHINERY TOOLS LIMITED

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产品册

柯麦斯机械工具有限公司

CO-MAX MACHINERY TOOLS LIMITED

产品宣传册

Pamphlet

电子行业-精密超薄切割工具

The electronics industry

Precision ultra-thin cutting tools

CO-MAX MACHINERY TOOLS LIMITED

10 Anson Road #26-04 International Plaza, Singapore (079903). Tel: +65 90255373 Fax: +65 64461885



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Electronics industry

原廠設備需

原廠品質



电子行业
The electronics industry

精密超薄切割工具
Precision ultra-thin cutting tools

精工制造勿

說說而已



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COMaX™ PCB V-Cut 锯片刀

PCB V-Cutting Saw Blade



V-CUT刀又称为微刻刀、V槽刀。主要对印制的(PCB)电路板进行加工切削出V槽,方便电路板成型。

It is V-CUT blade is also called Micro carving blade or V-groove blade. It's mainly on the printed circuit board (PCB) cut out the "V" groove so as to facilitate the forming of the circuit board.

在电路板印制行业中,随着制作工艺以及工作效率的不断提升,研发出了V-CUT刀(包括合金V-CUT刀和金刚石V-CUT刀),它相对于原始刀具更适合电路板的精密加工,其使用寿命更长,硬度更高,抗磨损度增加,切割V槽更光滑,无毛刺,刀刃锋利等产品特点,大幅度提高生产效率和PCB品质。

In the circuit board printing, with the continuous improvement of production process and work efficiency, V-CUT blade was invented (including alloy V-CUT blade and diamond V-CUT blade). It is more suitable for the precision machining of the circuit board than the original tools. Owing to its longer service life, higher hardness, wear resistance increases, cutting V groove is more smooth, no burr, sharp blade edge and other characteristics, greatly improve the production efficiency and quality of PCB.

外径*内径*厚度 (Od*Id*Thickness)	(Number of Teeth)	(Angle)
56.3*25.0*2.4	48	20°, 25°, 30°, 35°, 40°, 45°, 50°, 55°, 60°
51.3*25.0*2.4	48	20°, 25°, 30°, 35°, 40°, 45°, 50°, 55°, 60°
51.3*25.0*2.0	48	20°, 25°, 30°, 35°, 40°, 45°, 50°, 55°, 60°
39.5*17.0*2.4	48	20°, 25°, 30°, 35°, 40°, 45°, 50°, 55°, 60°
32.0*17.5*2.4	48	20°, 25°, 30°, 35°, 40°, 45°, 50°, 55°, 60°
28.0*15.0*2.0	48	20°, 25°, 30°, 35°, 40°, 45°, 50°, 55°, 60°

COMaX™ 超薄金刚石晶圆切割片

Ultra-thin Diamond Wafering Blade



精密超薄晶圆切割片用于电路板切削,由于直行性能显著提高而降低了工件切割中的过渡损耗,同时刀刃的超薄化也使得工件成品率大为提高。

Precision ultra-thin blade was used for circuit board cutting, due to the increased straight line performance, significantly reducing the cutting loss. Edge's ultra thin makes the rate of finished product is greatly improved.

当切小,易碎或硬质材料时精密金刚石刀具可以更精确的进行切削工作,从而减少被切削材料的损失和变形。

When cutting small, fragile or very hard materials, precision diamond cutting tools can ensure more accurate cutting of metal, make less material loss and distortion.

刀片的选择是基于被切削材料类型而做出选择。

The blade selection is based on the type of cut materials.



产品特点:
Product features

- 精密超薄金刚石切割片,切割工件表面光洁度可达0.05μm,提升研磨效率。
The precision ultra-thin diamond wafering blade, the surface RA of cutting work pieces can be up to 0.05μm, improve the grinding efficiency.
- 超薄切割片切口仅为0.5mm,最大程度的减少切割对材料的浪费,节约成本。
The incision of ultra-thin blade is only 0.5mm, maximum cut less cutting materials waste to cost saving.
- 金刚石超薄切割片,硬度更高,适合多种硬质及其脆性材料的切割,切割范围更广,使用率更高。
The precision ultra-thin diamond wafering blade with Higher hardness, apply to a variety of cutting of hard and brittle materials, making wider cutting range and higher frequency of use.

COMaX™ PCB切脚机刀片

PCB Lead Wire Cutter Blade



CMPB系列线路板切脚机刀片,适用于对电子线路板上电子元件插件脚进行切削作业。

CMPB series PCB lead wire cutter blade is used to cutting the operation of electronic components on the electronic circuit board.

该系列产品特性如下:
The characteristics of the series are as follows:

高耐磨性,使用寿命比一般钨钢材质产品高40倍;
High wear resistance, the service life of it 40 times higher than general tungsten steel material products;

高硬度(86~90HRA,相当于69~78HRC);
High hardness (86~90HRA, equivalent to 69~78HRC);

良好的热硬性(可达900~1000℃,保持60HRC);
Favourable thermosetting (up to 900~1000℃, keep 60HRC);

极强的抗弯强度(MPa4000)使得产品具有良好的韧性,几乎无崩刃、卷刃现象。
Extremely strong bending strength(MPa4000) makes the products have good toughness, the edge has almost no tipping and bending.

抗腐蚀性极高的化学惰性。
Corrosion resistance of high chemical inertness.

产品名称 Product name	CMPB-200	CMPB-250
Product specifications	200mm*70mm*3.5mm (8inch)	250mm*70mm*3.5mm (10inch)
Product hardness	HRA90.3	HRA90.3
产品密度 Product density	14.6-14.9 g/cm³	14.7-14.9 g/cm³
产品强度 Product strength	2800 N/mm²	2800 N/mm²