KWS®

PRODUCTS CATALOG
YIBAI TOOLS

GERMAN TECHNOLOGY
EXPORTED TO 68 COUNTRIES

High precision arbor
Patented Micrometer with H6,
Ovality Deviation <0.005MM.

Rare alloy steel plate
Patented YB09 steel plate
with 5 kinds of rare metal elements
enables 3 times anti- resistance.

Ultra-high-pressure treatment
Patented technology:
72 hours of continuous heat treatment,
more uniform and tighter steel plate structure,
natural leveling surface.

Big data based test for tension
Tension inspection based on big data,
precise tension value for each saw blade.

German welding technology
Tooth firmness and durability:
German Gerling welding machine,
German Umicore sandwich solder.

Precision grinding
Multi-sided and multi-wheel fine grinding craft:
grinding on 6 sides by 6 types of different grinders.

Balanced polishing technology
Patented Technology:
Balanced polishing technology.

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BRIEF INTRODUCTION

Chengdu Yibai Technology Co., Ltd. is a manufacturer of cutting tools， which is located in Chengdu China. With ‘KWS’ as its well-known brand, Yibai has been devoting it self into R&D of PCD saw blades, TCT saw blades, cold saw blades, finger joint cutter, drill bits, router bits and spiral cutter head since its establishment in 2002.

Yibai's facility including 8 Buildings covering more than 40000m² with annual output of more than 1 million pieces. Yibai has setup automatic production line with famous machines that from worldwide (automatic rate above 90%)like Mitsubishi Laser cutting, Gerling Automatic welding machine and Automatic machine etc.

With more than 20 R&D personnels' continuous hard work, Yibai is working closely with customers to improve its quality Till now, we have got 22 national patents. The company has become one of the few manufacturers in the saw blade industry to obtain ISO 9001,45001,14001 system certification

Till now, KWS products have been exported to more than 68 countries and awarded high reputation. Meanwhile Yibai has more than 100 chain stores nationwide for better service.

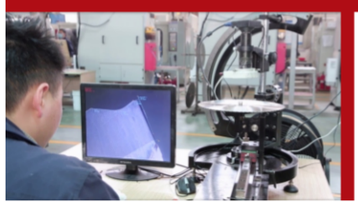
Yibai spares no efforts to provide professional quality products & service to our clients constantly. We sincerely hope to develop long term cooperation with all customers base on Win-Win conditions

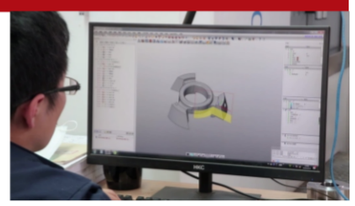
ISO

ISO9001 ISO14000 ISO45001

PATENT

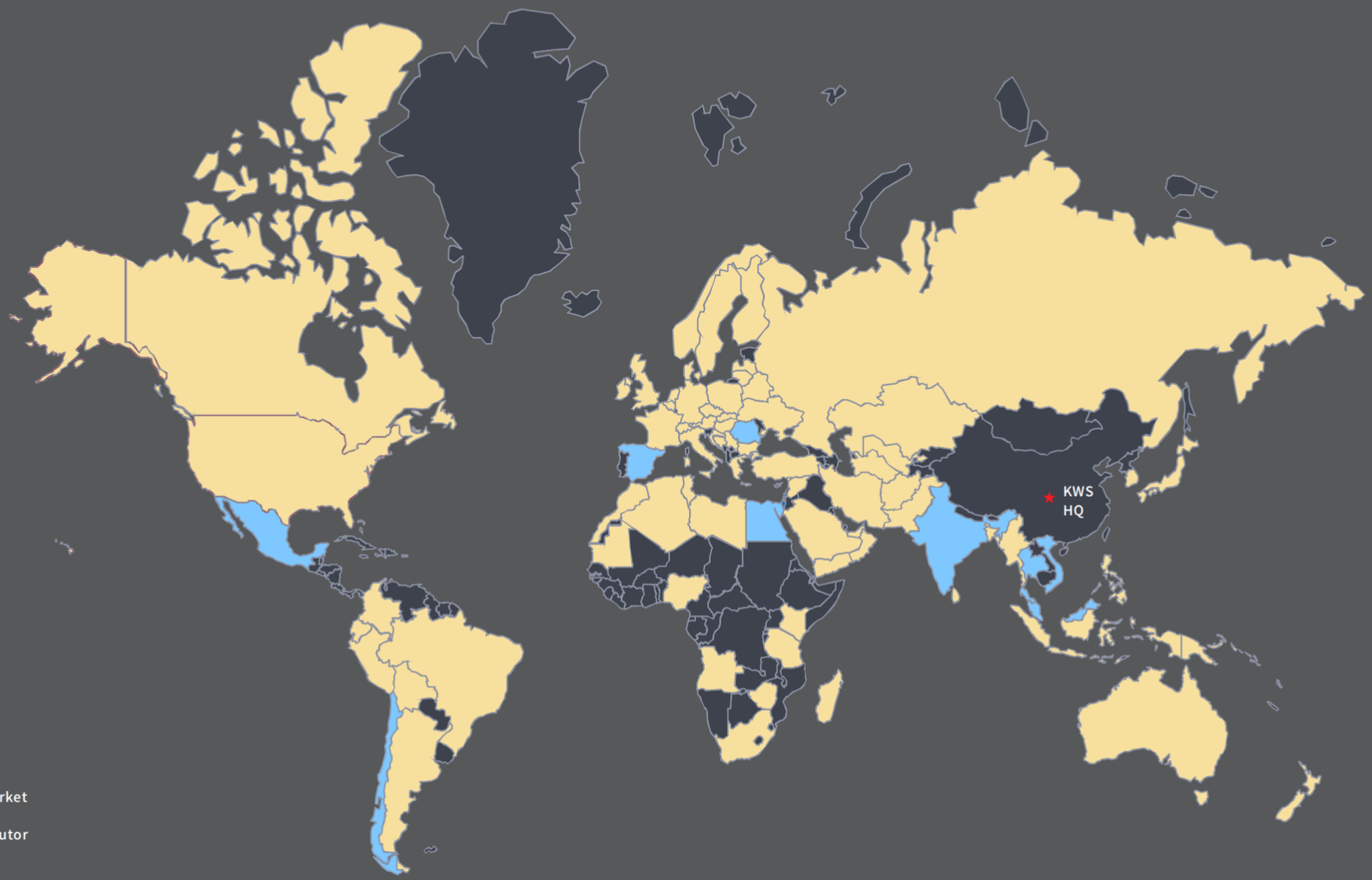
QUALITY CONTROL





Introduction Of

KWS



TIPS FOR THE CORRECT USE OF A SAW BLADE

In order to obtain the best performance, we suggest to follow these instruction
*The machine must be in good condition, no vibrations.
*The spindle must be 100% straight and with an H7 tolerance
*The blade must be secured with the same diameter, at least 1/3 of the saw blade's diameter
*The flanges must be parallel to each other. Also check tolerances on diameters, sides and concentricity, by using a clock gauge (Fig. 2)
*The spacers must be perfectly parallel (Fig. 2)
*After used for a certain long period. Please remove the blade and clean it.
*The blades must be sharpened while it become dull. Must maintaining the original tooth angles
* While sharpening, please use the correct grinding wheels with cooling liquid.
*Keep spacers and flanges clean
*While sharpening, the shoulder of the teeth must not be lowered more than needed, otherwise the risk of breaking the tip or upsetting the blade balance will happened
*On ripping machines, the feeding track must be levelled with the fixed table. Before starting the cut of the material, make sure the blade is correctly locked according to the machine's specifications.

SAW BLADE ALIGNMENT ON A TABLE SAW

In order to obtain the best performance, we suggest to follow these instruction
*The machine must be in good condition, no vibrations.
*The spindle must be 100% straight and with an H7 tolerance
*The blade must be secured with the same diameter, at least 1/3 of the saw blade's diameter
*The flanges must be parallel to each other. Also check tolerances on diameters, sides and concentricity, by using a clock gauge (Fig. 2)
*The spacers must be perfectly parallel (Fig. 2)
*After used for a certain long period. Please remove the blade and clean it.
*The blades must be sharpened while it become dull. Must maintaining the original tooth angles
* While sharpening, please use the correct grinding wheels with cooling liquid.
*Keep spacers and flanges clean
*While sharpening, the shoulder of the teeth must not be lowered more than needed, otherwise the risk of breaking the tip or upsetting the blade balance will happened
*On ripping machines, the feeding track must be levelled with the fixed table. Before starting the cut of the material, make sure the blade is correctly locked according to the machine's specifications.

MOUNTING THE SAW BLADE ONTO THE TABLE

The precise measuring instruments are requested to using while mounting your saw blade
Make sure the saw blade is clean then mount the saw blade onto the arbor.
Adjust the arbor to its maximum height, With the aid of the most precise measuring instrument available, verify that the saw blade is parallel to the miter gauge slots.
Adjust it if needed. Which is necessary to obtain crosscuts
With the maximum in quality finish and for setting up the fence for ripping

POSITIONING THE FENCE FOR RIPPING

After positioned the saw blade to be parallel to the miter gauge slot you may proceed with setting the fence. The fence should be parallel to the saw blade. it is necessary to leave a slight margin of clearance on the exit side of the cut so as to avoid the wood becoming wedged in between the fence and the saw blade
Adjust the fence so as when it is aligned to the miter gauge slots, there is a space of
0. 1 mm (for the correct adjustment, reference to the machine's instruction manual)
The maximum RPM of a circular saw blade varies according to the diameter of the blade itself. If you exceed this limit, the cutting performance and the life cycle of the blade will be affected heavily, and the dangers may incur and leads to injury.
The saw blade's projection (T) with respect to the workpiece must be at least equal to the height of the blade's tooth (ig, 9), adjust the projection of the saw blade to improve the quality of the cutting finish
The number of teeth cutting must be between 3 or 4. With less than three teeth cutting, the saw blade begins to vibrate leading to an uneven cut. If you want to cut workpieces with increased thicknesses but wish to use the same diameter saw blade, then use a blade with less teeth If you want to cut workpieces with a reduced thickness, but also maintain the same diameter saw blade, then use a blade with more teeth.

To obtain the pitch (P)of a blade (the distance between teeth: fg. 11–(see formula "a") multiply the thickness of the workpiece by 1.4142 and divide by 3 (if you want 3 teeth cutting) or by 4 (if you want 4 teeth cutting
Formula "b" to obtain the number of teeth (Z) of the saw blade, multiply the diameter D of the saw blade by 3.14(π)and divide by the pitch of the saw blade -obtain from the previous formula. The shorter formula " c " allows you to obtain the nr. of the saw blade's teeth. knowing its diameter and the thickness of the workpiece.

Formula A	Formula B	Formula C
$P=\frac{Sx1.4142}{3}$	$Z=\frac{Dx3.14}{P}$	$Z=\frac{Dx8}{S}$

THE MEANING OF LETTER:

P= pitch
S= thickness of the workpiece
Z= Qty of teeth of the saw blade
D= diameter of the saw blade

ATTENTION:

These formulas are valid for crosscutting and cutting other wood composites of (MDE plywood, chipboard and laminated panels) and cannot be applied for ripping

Inquiry of purchasing and distribution authorization, please contact:

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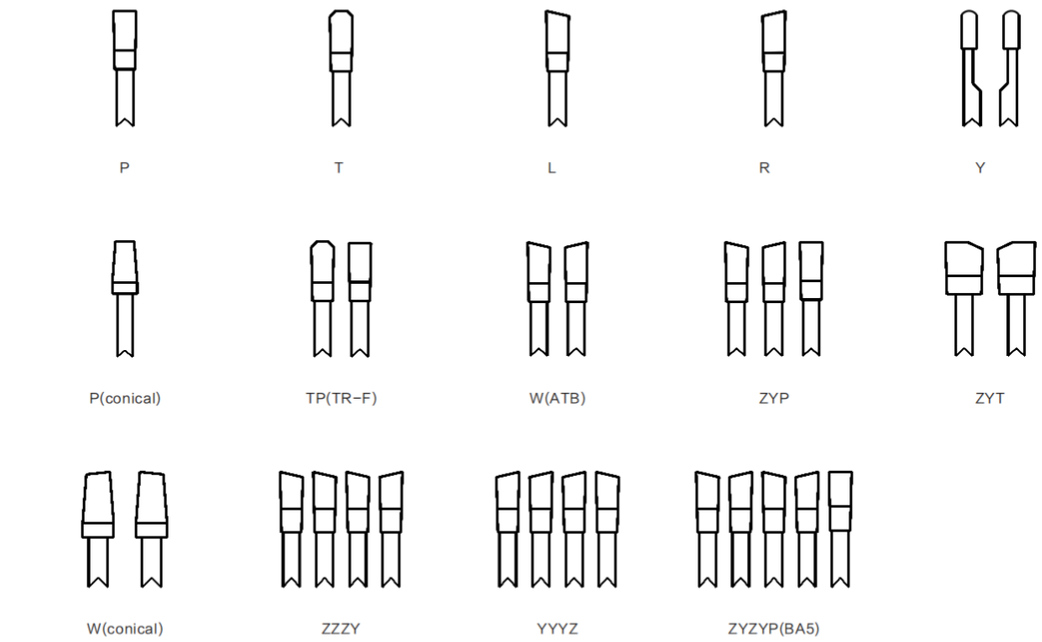
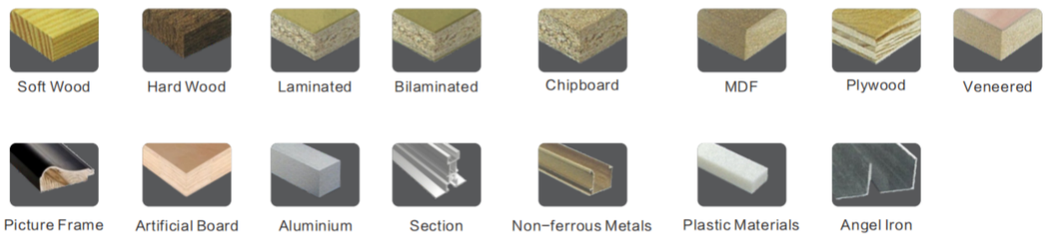
◉Tooth configuration



◉Workpiece Diagrams



items&pages

TCT Saw blade ---------- *01-12*
profile cutter ---------- *13-23*
PCD Saw blade ---------- *24-30*
Router bit series ---------- *31-34*
Finger joint cutters ---------- *35-36*
Planer knives ---------- *37-40*
Drill bit ---------- *41-46*
Grinding wheel ---------- *47-47*

[TCT Saw blade]

TCT Universal sawblades

Material

Machines: Table Saw, panel saw and cross cut saw machine etc.
Application: Rip&cross cut for solid wood (hard&soft); laminated panels like particle board, MDF and plywood etc.
Features: New CP technology. Alternate top bevel (W), Triple chip flat (TP) and BA5 (ATB+Flat) etc.
Advantages: High grade of carbide tipped and steel plate provides perfect cutting performance and working service life.

Teeth Feature

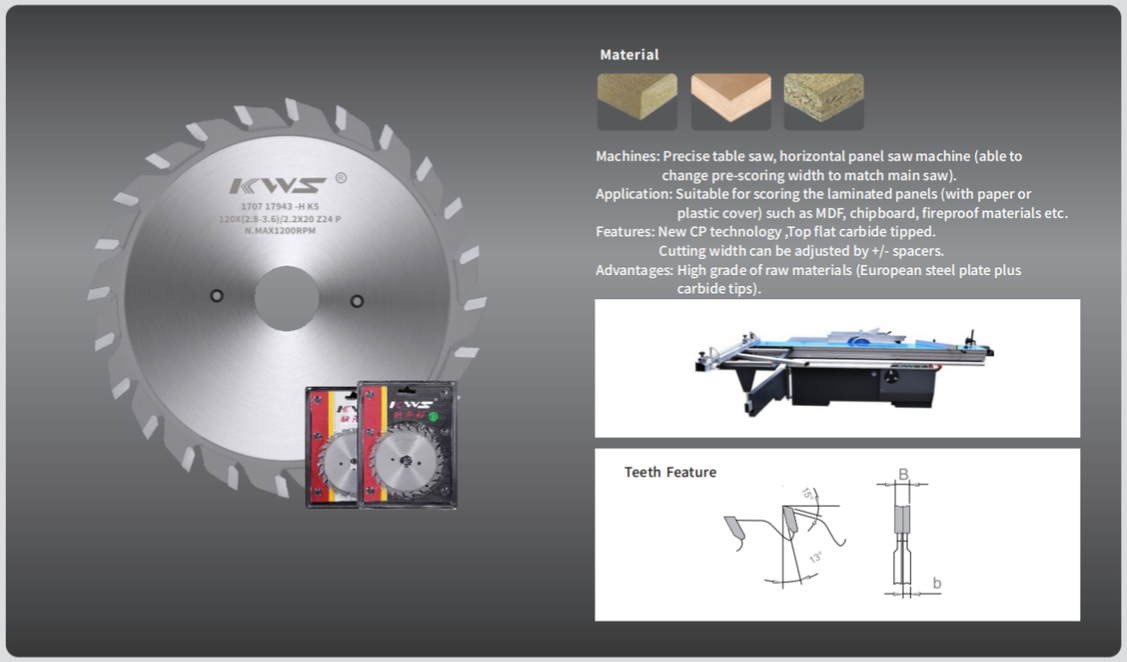
Stock: ● Yes ○ No

No.	D	d	B	Z	TF	3000	K5
1	180	30	3.2	40	W	●	●
2	180	30	3.2	60	W	●	●
3	200	30	3.2	60	W	●	●
4	230	25.4/30	3.2	60	W	●	●
5	250	30	3.2	40	W	●	○
6	250	25.4/30	3.2	60	W	●	●
7	250	25.4/30	3.2	80	TP	●	●
8	250	25.4/30	3.2	80	W	●	●
9	255	50	4.0	80	W	●	○
10	255	25.4/30	3.0	100/120	ZYZYP	●	○
11	300	30	3.2	24/36	W	●	○
12	300	30	3.2	48	W	●	●
13	300	30	3.2	60	W	●	●
14	300	30	3.2	72	TP	●	●
15	300	30	3.2	72	W	●	●
16	300	30	3.2	80	TP	●	○
17	300	30	3.2	80	W	●	○
18	300	30	3.2	96	TP	●	●
19	300	25.4/30	3.2	96	W	●	●
20	305	30	3.0	36	W	○	○
21	305	30	3.0	100/120	ZYZYP	●	○
22	350	30	3.5	40	W	●	○
23	350	30	3.5	60	W	●	●
24	350	30	3.5	72	TP	○	●
25	350	30	3.5	72	W	●	●
26	350	30	3.5	84	TP	●	●
27	350	30	3.5	84	W	●	●
28	350	30	3.5	108	TP	●	●
29	350	30	3.5	108	W	●	●
30	355	30	3.5	36	W	●	○

Stock: ● Yes ○ No

No.	D	d	B	Z	TF	3000	K5
31	355	30	3.5	120	ZYZYP	●	●
32	400	30	4.0	40/72/96	W	●	●
33	400	30	4.0	120	ZYZYP	●	●
34	400	30	4.0	54	W	●	●
35	450	30	4.0	84	W	○	●
36	450	30	4.0	84	W	●	●
37	450	30	4.0	120	ZYZYP	●	●
38	450	30	4.0	40/60/84	W	●	●
39	500	30	4.0	60/72	W	●	●
40	500	30	4.0	120	ZYZYP	●	●
41	600	30	4.0	72	W	●	●

TCT Adjustable scoring sawblades



Material

Machines: Precise table saw, horizontal panel saw machine (able to change pre-scoring width to match main saw).
Application: Suitable for scoring the laminated panels (with paper or plastic cover) such as MDF, chipboard, fireproof materials etc.
Features: New CP technology ,Top flat carbide tipped.
Cutting width can be adjusted by +/- spacers.
Advantages: High grade of raw materials (European steel plate plus carbide tips).

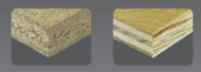
Teeth Feature

Stock: ● Yes ○ No

No.	D	d	B	Z	TF	3000	K5
1	100	20/22	2.8/3.6	24	P	○	●
2	120	20/22	2.8/3.6	24	P	●	●

TCT Panel sizing sawblades

Material



Machines: Panel sizing machine and double milling machine.
Application: To size board with/without laminated cover (MDF, chipboard, plywood and etc.)
Features: New CP technology,triple chip flat (TP) carbide tipped.
Advantages: Optimized tooth profile parameters improve the cutting quality, wear-resistant and stable cutting.

Teeth Feature

Stock: ● Yes ○ No

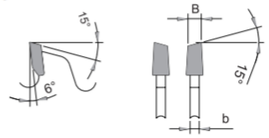
No.	D	d	B	Z	TF	3000	K5
1	355	60	3.5	84	V	○	●
2	355	25.4/30	3.5	96	TP	○	●
3	350	30	4.0	84	TP	○	●
4	350	30	4.4	72	TP	○	●
5	350	30/60/75	4.4	84	TP	○	●
6	350	80	3.5	84	TP	○	●
7	360	60/75	4.4	84	TP	○	○
8	380	60	3.5	84	TP	○	○
9	380	60	4.4	72	TP	○	●
10	380	60/75/80	4.4	84	TP	●	●
11	380	60	4.4	96	TP	○	○
12	400	30/60/75/80	4.4	84	TP	●	●
13	400	80	4.4	72	TP	○	●
14	400	60/80	4.4	72	W (2-15-100/2-16-105)	○	●
15	400	60	4.4	84	W (2-15-100/2-16-105)	○	●
16	400	60	4.4	96	TP	○	●
17	430	80	4.4	72	TP	○	○
18	450	60	4.8	72	TP	○	○
19	450	60/75/80	4.8	84	TP	○	●60

Conical scoring sawblades

Material

Machines: Precise table saw, panel sizing saw, horizontal panel saw.
Application: Suitable for scoring the laminated panels (with paper or plastic cover), fireproof materials etc.
Features: New CP technology. Alternate top bevel carbide tipped. Cutting width varies by adjusting the spindle.
Advantages: Excellent cutting performance without any chipping Durable and precise.

Teeth Feature



Stock: ● Yes ○ No

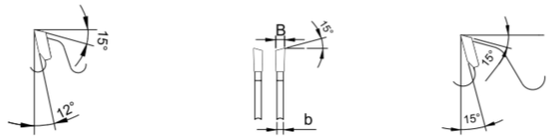
No.	D	d	B	Z	TF	3000	K5
1	120	20/22	3.0-4.0	24	W	●	●
2	160	25.4/30	3.4-4.4	36	W	○	●
3	160	55	4.3-5.3	40	W	○	○
4	160	24.5	3.4-4.4	40	W	○	●
5	160	45	4.3/5.4	36	W	○	●
6	160	30/55	3.4/4.4	40	W	○	○
7	180	2.5/30	3.9-4.9	36	W	○	●
8	180	30	3.4-4.4	40	W	○	●
9	180	30/45	4.3-5.3	40	W	○	●
10	180	45	4.7-5.7	40	W	○	●
11	200	45/50/75	4.3-5.3	40	W	○	●

TCT Thin-kerf cutting sawblades

Material

Machines: Single unit cut-off machine, table saw, vertical plane machine.
Application: Suitable for cutting ultra thin materials, solid wood, valuable timber, panels, acrylic, plastic and organic etc.
Features: Alternate top bevel (W) and BA5 (LRLRF) tooth feature.
Advantages: Less material loss.

Teeth Feature

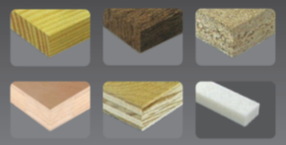


Stock: ● Yes ○ No

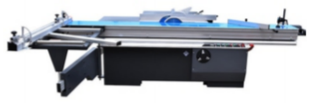
No.	D	d	B	Z	TF	3000	K5
1	182	25.4	1.8	40	W	●	●
2	182	25.4	1.8	80	W	●	●
3	182	25.4	1.8	60	W	●	●
4	182	25.4	2.2	60	W	●	●
5	205	25.4	2.0	60	W	●	●
6	205	25.4	2.0	80	W	●	●
7	230	25.4	2.2	60	W	●	○
8	230	25.4	2.2	80	W	●	○
9	250	25.4	2.2	60	W	●	○
10	250	25.4	2.2	80	W	●	○
11	250	25.4	2.2	100	W	●	○
12	250	25.4	2.8	60	W	●	○
13	250	25.4	2.8	80	W	●	○
14	255	25.4/30	2.0	80	W	●	○
15	255	25.4/30	2.0	100	BA5	●	○
16	255	30	2.0	120	BA5	●	○
17	305	25.4/30	2.2	100	BA5	●	○
18	305	30	2.2	120	BA5	●	○
19	350	30	2.8	120	BA5	●	○
20	355	30	3.2	120	BA5	●	○

TCT Grooving sawblades

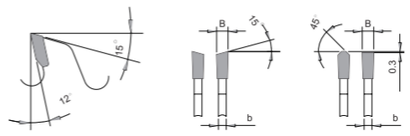
Material



Machines: Table saw, horizontal panel sizing machine, slotting device, double end milling machine etc.
Application: Rip & cross cut for solid wood and laminated panels with paper or plastic cover eg. particle board, MDF,plywood and composite materials etc.
Features: ATB+Flat (ZYP), Flat (P), Triple Chip Flat (TP) and LRLR+Flat (ZYZYP).
Advantages: Better performance on plates with iron, stone and other debris. Smooth cutting without burs
Note: Single or combination usage



Teeth Feature



Stock: ● Yes ○ No

No.	D	d	B	Z	TF	3000	K5
1	63	20	1.0/1.2/1.5	12	P	●	○
2	63	20	1.8/2.0/2.2	12	P	●	○
3	63	20	2.5/2.8/3.0	12	P	●	○
4	63	20	3.5/4.0/4.5	12	P	●	○
5	63	20	5.0/5.5/6.0	12	P	●	○
6	63	20	7.0/8.0	12	P	●	○
7	80	20	2.0/2.5/3.0	18	ZYP	●	○
8	80	20	3.5/4.0/4.5	18	ZYP	●	○
9	80	20	5.0/5.5/6.0	18	ZYP	●	○
10	80	20	7.0/8.0	12	ZYP	●	○
11	100	20	2.0/3.0/4.0	24	ZYP	●	○
12	100	20	5.0/5.5/6.0	24	ZYP	●	○
13	125	20	1.5/1.8	24	ZYP	●	○
14	125	20/35	2.0/2.5/3.0	24	ZYP	●	○
15	125	20/35	3.5/4.0/4.5	24	ZYP	●	○
16	125	20/35	5/5.5/5.8/6	24	P	●	○
17	125	20/35	7.0	20	ZYZYP	●	○
18	125	20/35	8.0	20	ZYZYP	●	○
19	150	30/35	3.0/4.0/4.5	36	ZYP	●	○
20	150	35	5.0/5.5/6.0	18	ZYP	●	○
21	150	30/35	5.0/5.3/6.0	36	ZYP	●	○
22	150	30	7.0/8.0	20	ZYZYP	●	○
23	180	30	1.5/1.8/2.0	40	ZYZYP	●	○
24	180	30	2.2/2.5/2.8	40	ZYZYP	●	○
25	180	30/35	3.0/3.5/4.0	40	ZYZYP	●	○
26	180	30/35	4.5/5.0/5.5	40	ZYZYP	●	○
27	180	30/35	6.0	40	ZYZYP	●	○

Stock: ● Yes ○ No

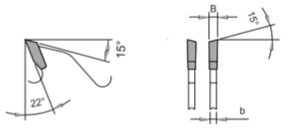
No.	D	d	B	Z	TF	3000	K5
28	200	30/35	3.0/3.5/4.0	40	ZYZYP	●	○
29	200	30/35	4.5/5.0/5.5/6.0	40	ZYZYP	●	○
30	250	30	4.0/4.5/5.0	40	ZYZYP	●	○
31	250	30	5.5/6.0	40	ZYZYP	●	○
32	300	30	4.0/5.0/5.5	96	TP	●	○
33	180	30	3.0/3.5	40	TP	○	●
34	180	30	4.0/4.5/5.0	60	TP	○	●
35	180	30	5.5/6.0	60	TP	○	●
36	200	30	4.0/4.5/5.0	60	TP	○	●
37	200	30	5.5/6.0	60	TP	○	●
38	250	30	4.0/4.5/5.0	60	TP	○	●
39	250	30	5.5/6.0	60	TP	○	●

TCT sawblades for single chip

Material

Machines: Edge trimmer and single rip-cut saw machine.
Application: Single rip cut for solid wood or edge trimming before assembling.
Features: New CP technology reduces the friction between body and workpiece.
Advantages: Special tooth shape (ATB with face angle) enables a nearly knife mark free cut finish. Subsequent sanding or planingcan be reduced. Advance materials and durable.
Note: Commonly used pin hole: ϕ14*2, center hole: 50.8mm.

Teeth Feature



Stock: ● Yes ○ No

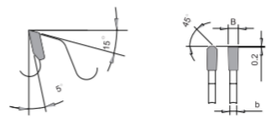
No.	D	d	B	Z	TF	K5+
1	305	25.4/30	3.2	48	W	●
2	305	25.4/30	4.0	48	W	●
3	355	30	3.5	54	W	●
4	355	50.8	4.0	70	W	●
5	355	50.8	5.0	70	W	●
6	405	50.8	5.0	70	W	●
7	455	50.8	5.0	70	W	●

TCT Aluminum cut sawblade

Material

Machines: Auto panel saw, double head mitre saw, manual cut-off saw and other CNC machines etc.
Application: Suitable for cutting aluminum, reinforced plastic and non-ferrous metal etc..
Features: Small or negative hook angle with triple chip flat (TP) tooth, low noise line applied.
Advantages: Silence slot effectively reduce the noise. TP tooth design brings smooth cutting surface and free of burrs. Long service life.

Teeth Feature



Stock: ● Yes ○ No

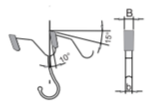
No.	D	d	B	Z	TF	3000	K5
1	255	25.4/30	2.8	100	TP	●	●
2	255	25.4/30	2.8	120	TP	●	●
3	305	25.4/30	3.0	120	TP	●	●
4	355	25.4/30	3.2	120	TP	○	●
5	405	25.4	3.2	120	TP	○	●
6	405	30	3.8	120	TP	○	●
7	405	25.4/30	3.5	120	TP	○	●
8	450	30	4.0	120	TP	○	●
9	500	25.4/30/32	4.4	120	TP	○	●
10	550	0	4.6	120/144	TP	○	○
11	550	30	4.6	144	TP	○	○
12	600	30/38	4.8	144	TP	○	○

TCT Grooving sawblades for aluminum processing

Material

Machines: Horizontal panel saw, slotting device, double milling machine etc.
Application: Aluminum profile, rods and bars etc.
Features: Complete flat (P) tooth feature.
Advantages: Precise slotting and smooth cutting.

Teeth Feature



Stock: ● Yes ○ No

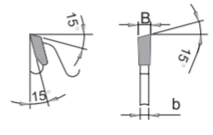
No.	D	d	B	Z	TF	K5
1	160	32	5.0/6.0/6.5/8.0	30	P	●
2	160	32	10/12	30	P	●
3	200	32	5.0/6.0/6.5	36	P	●
4	200	32	8.0/10/12	36	P	●
5	250	32	3.5/5.0/6.0	40	P	●
6	250	32	6.5/8.5/13	40	P	●
7	250	32	8.0	40	P	●

TCT sawblades for edge banding

Material

Machines: Automatic edge bander, straight or bent edge banding machine.
Application: Suitable for all panels or solid wood banding.
Features: Alternate top bevel (W) and ATB+Flat (ZYP) tooth.
Advantages: Large hook angle design with super sharpness, high cutting quality.

Teeth Feature

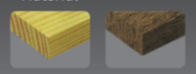


Stock: ● Yes ○ No

No.	D	d	B	Z	TF	K5
1	104	22	3.0	30	W	●

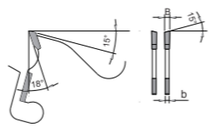
TCT Multiripping sawblades with rakers

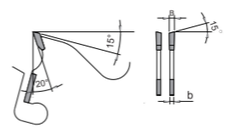
Material



Machines: Multi rip cut machines.
Application: It is mostly used for wet materials with a moisture content of more than 15%
Features: Chrome plated surface treatment avoid glue and dust Raker design decrease the friction
Advantages: Smooth cutting surface, high grade saw body provides stable cutting performance and good heat-resistance.

Teeth Feature





Stock: ● Yes ○ No

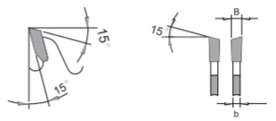
No.	D	d	B	Z	TF	K5+
1	150	45	2.2/1.7	24	3T	●
2	160	50	2.5/2.0	24	3T	●
3	180	50	2.5/2.0	24	3T	●
4	205	50	2.5/2.0	30	3T	●
5	230	40/45	2.2/1.7	30	3T	●
6	230	40/50	2.5/2.0	30	3T	●
7	255	50	2.5/2.0	30	4T	●
8	305	50/70	3.0/2.4	36	4T	●
9	355	60	3.2/2.5	36	4T	●
10	405	60	3.4/2.7	36	6T	●

TCT High speed optimizion quick cut saw blade

Material

Machines: Smart and optimized quick cut saw machine.
Application: Smart and optimized cross-cut for solid wood,especially contains a lot of dead knots.
Features: Alternate top bevel (ATB) with face angle.Special hook angle andface angle design ensures the sharpness and easy cutting

Teeth Feature

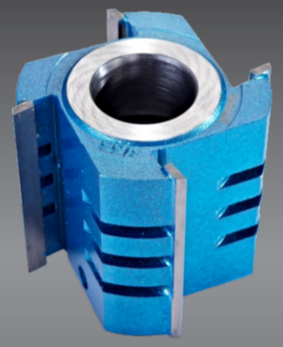


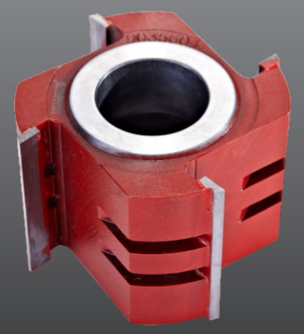
Stock: ● Yes ○ No

No.	D	d	B	Z	TF	K5
1	400	25.4	3.4	120	W	●
2	400	25.4	3.0	120	W	●
3	500	25.4/30	4.8	144	W	●

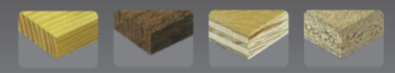
[Profile Cutter]

Panel cutter





Material

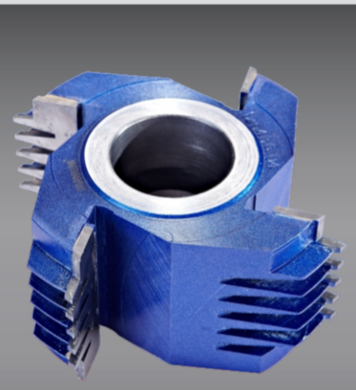


Machine：Vertical milling machine,Four Side Moulder
Application：Solid wood, MDF, Chipboard,
Feature：chip conveyor design
Advantage：The processed surface is more smooth, long lifespan and endurance

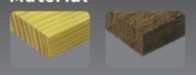
Teeth Feature

No.	OD	ID	H	Z
1	90	35	20	4
2	90	35	30	4
3	90	35	40	4
4	90	35	50	4
5	90	35	60	4
6	90	35	70	4
7	90	35	80	4
8	90	35	90	4
9	90	35	100	4
10	90	35	120	4
11	125	40	40	4
12	125	40	60	4
13	125	40	80	4
14	125	40	100	4
15	125	40	120	4
16	125	40	40	6
17	125	40	60	6
18	125	40	80	6
19	125	40	100	6
20	125	40	120	6

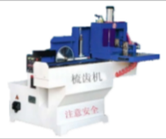
Integreted Finger Joint Cutter



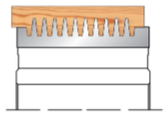
Material



Machines:Vertical Milling machine,Four-side Moulder,
Finger joint machine
Application:Solid wood joint
Advantage: No gap;durable

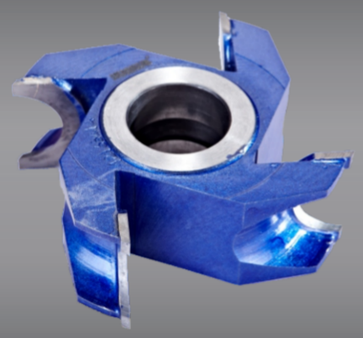


Teeth Feature

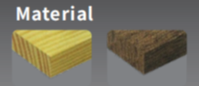


No.	OD	ID	H	Z	Finger
1	125	40	28	4	1F
2	125	40	36	4	2F
3	125	40	44	4	3F
4	125	40	52	4	4F
5	125	40	60	4	5F
6	125	40	68	4	6F
7	125	40	76	4	7F
8	125	40	84	4	8F
9	125	40	92	4	9F
10	125	40	100	4	10F
11	125	40	116	4	11F

Half round cutters

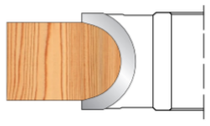


Material



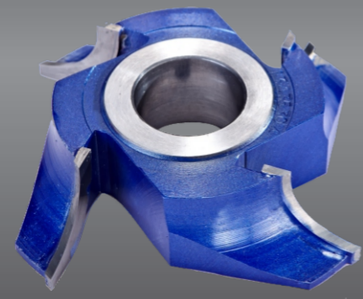
Machines: Vertical milling machine, Four-side Moulder
Application: Solid wood,MDF or edge chamfering.
Features: Small production tolerance.

Teeth Featuer

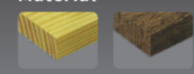


No.	OD	ID	R	Z
1	90	35	10	4
2	90	35	12	4
3	90	35	15	4
4	90	35	17.5	4
5	90	35	20	4
6	90	35	25	4

1/4 corner round cutters



Material

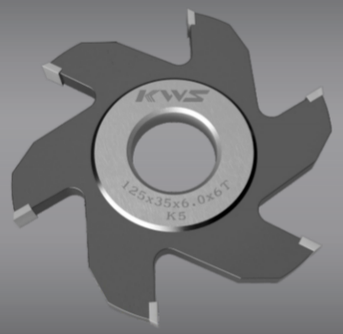


Machines:Vertical milling machine,Four-side moulder
Application:Edge chamfer of wood、MDF
Advantage: high quality alloy, more endurable and life span

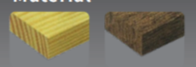
Teeth Featuer

No.	OD	ID	R	Z	Shape
1	90	35	12	4	R
2	90	35	15	4	R
3	90	35	18	4	R
4	90	35	20	4	R
5	90	35	22	4	R
6	90	35	25	4	R
7	90	35	30	4	R
8	90	35	35	4	R
9	90	35	40	4	R

Grooving cutters

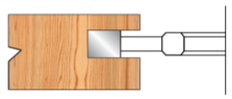


Material



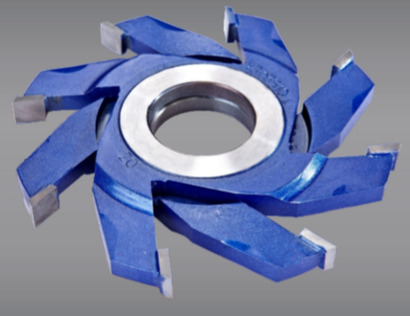
Machine：Vertical milling machine,Four-side moulder
Application：Solid wood、MDF、Chipboard etc.
Advantage：High quality alloy，perfect Chip conveyor design

Teeth Featuer

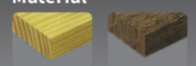


No.	OD	ID	Thickness	Z
1	120	35	3.0	6
2	120	35	4.0	6
3	120	35	5.0	6
4	120	35	6.0	6
5	120	35	7.0	6
6	120	35	8.0	6
7	120	35	9.0	6
8	120	35	10.0	6
9	120	35	12.0	6

Adjustable grooving cutters

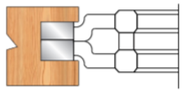


Material



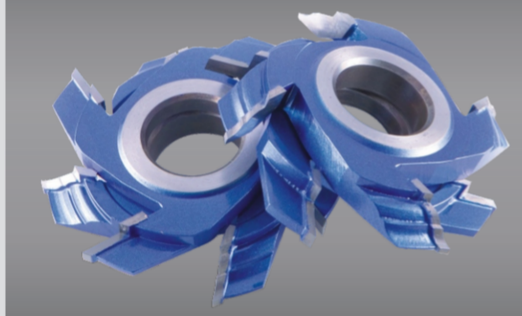
Machine：Vertical milling machine,four side moulder
Application：Wood processing
Advantage: Combination design, great flexibility. The required groove width can be adjusted according to requirements

Teeth Featuer

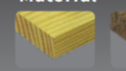


No.	D	d	H	Z
1	130	35	6	4
2	130	35	8	4
3	130	35	10	4

Cabinet door cutters

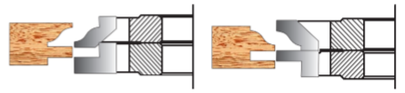


Material

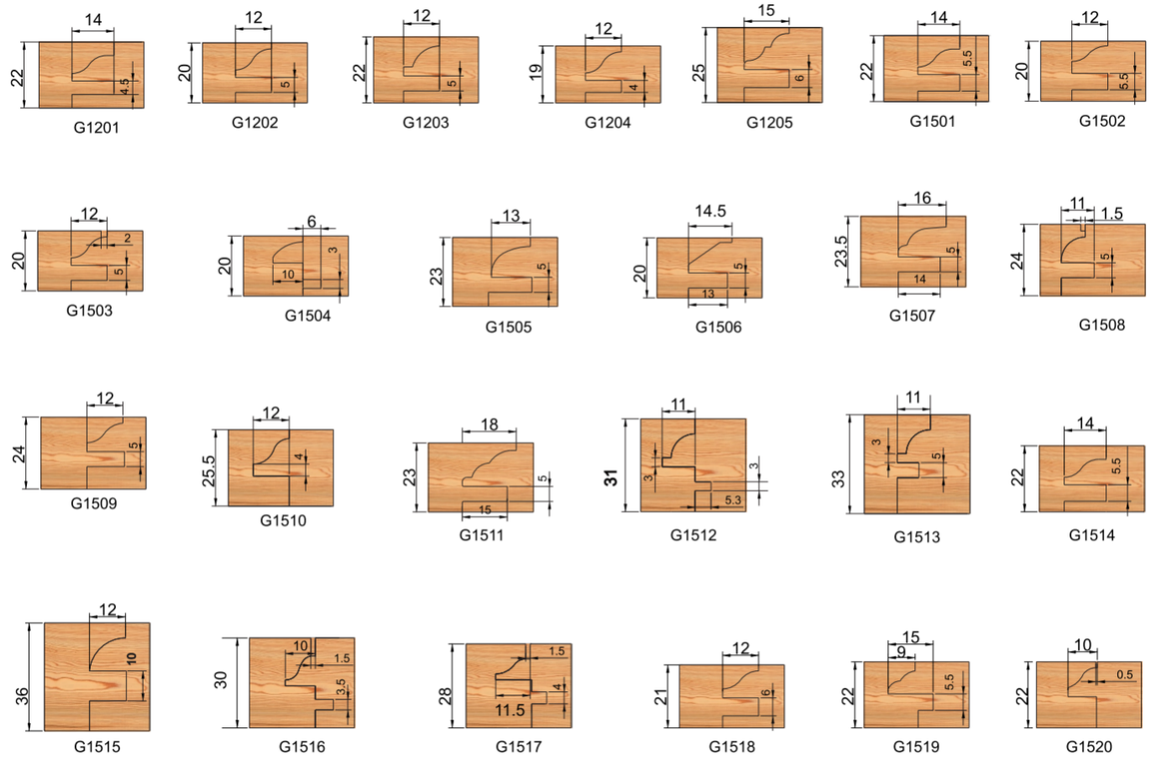


Machines：Vertical milling machine、Processing center
Application：Solid wood,door frame
Design：Two blades or four blades as combination
Advantage：Easy to adjust the mating of tenon and groove

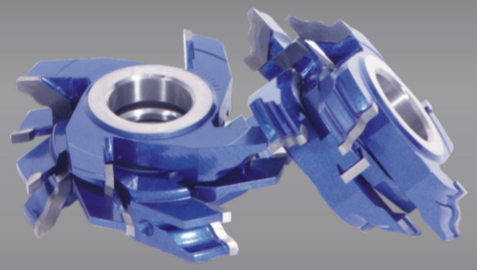
Teeth Featuer



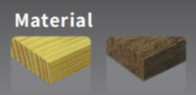
No.	SPECIFICATION
1	G1201(4cutters/Set)
2	G1202(4cutters/Set)
3	G1203(4cutters/Set)
4	G1204(4cutters/Set)
5	G1205(4cutters/Set)



Door frame cutters

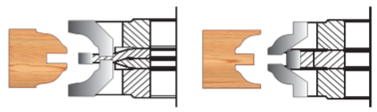


Material

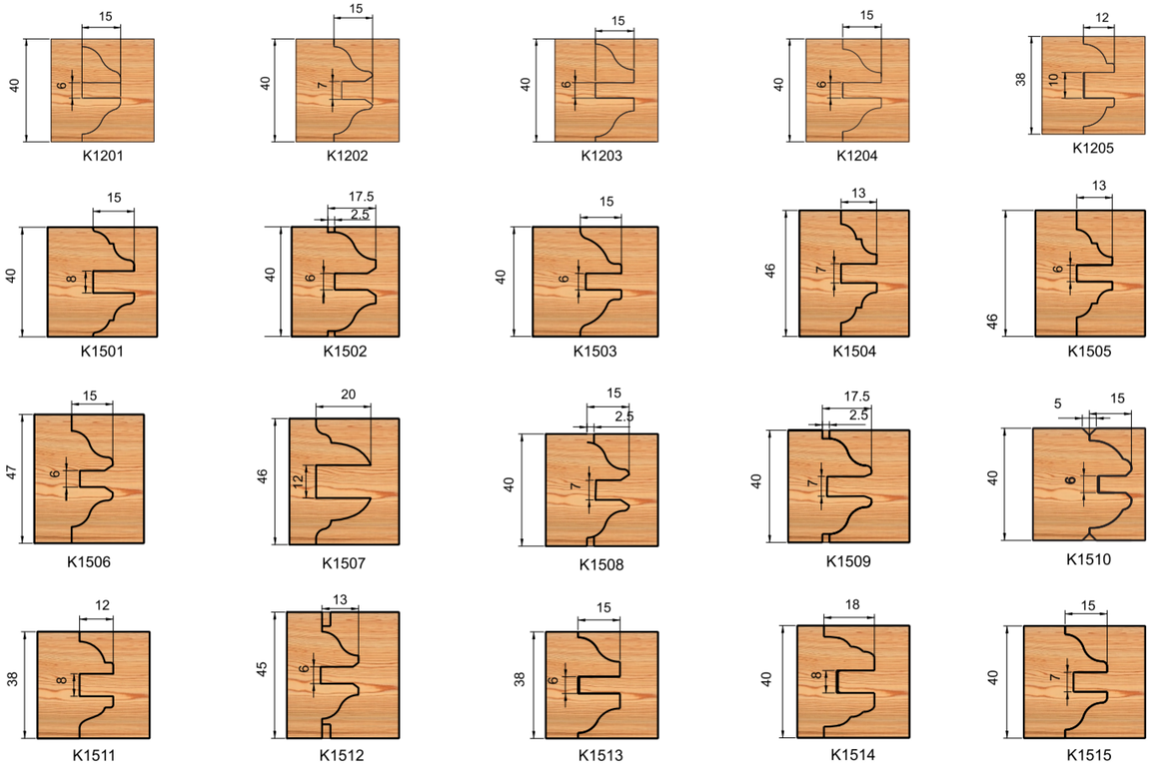


Machine:Vertical milling machine,four-side moulder
Application:Door frame
Features:2 Blades or 7 blades as combination
Advantage: 7 blades combinations can make the linearity better coordinated

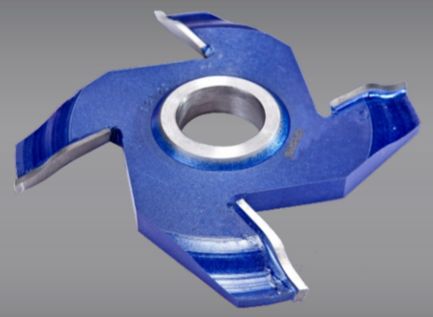
Teeth Featuer



No.	SPECIFICATION
1	K1201(7 cutters/Set)
2	K1202(7 cutters/Set)
3	K1203(7 cutters/Set)
4	K1204(7 cutters/Set)
5	K1205(7 cutters/Set)



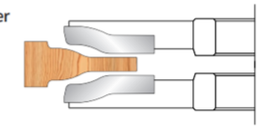
Door plank cutters



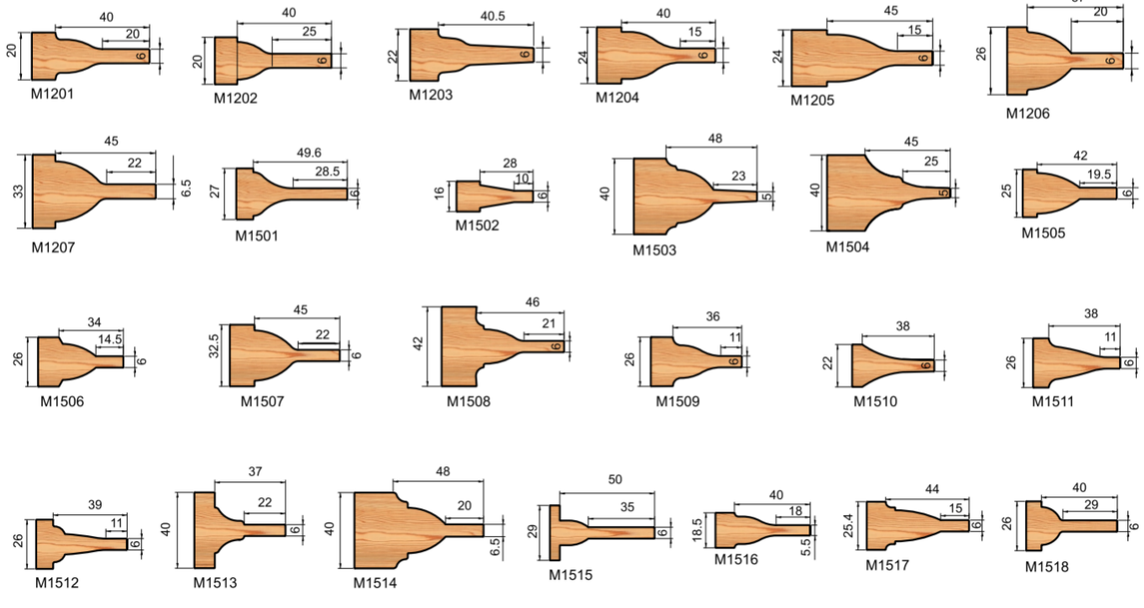
Material

Machine:Vertical milling machine,processing center
Application:Solid wood door plank processing
Features:1 or 2 pieces flexible usage, tenon width adjustable

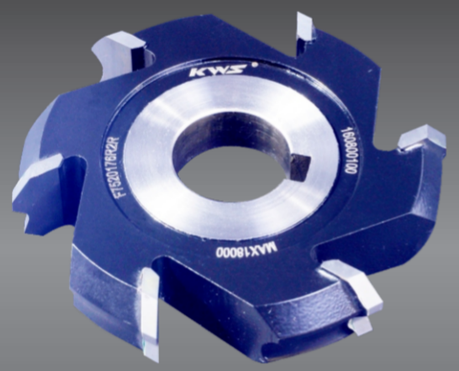
Teeth Featuer



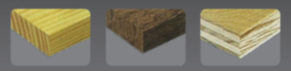
No.	SPECIFICATION	H
1	M1201(2 cutter/Set)	20
2	M1202(2 cutter/Set)	20
3	M1203(2 cutter/Set)	22
4	M1204(2 cutter/Set)	24
5	M1205(2 cutter/Set)	24
6	M1206(2 cutter/Set)	26
7	M1207(2 cutter/Set)	33
8	M1208(2 cutter/Set)	22
9	M1209(2 cutter/Set)	25
10	M1210(2 cutter/Set)	25.5
11	M1211(2 cutter/Set)	32
12	M1212(2 cutter/Set)	33



Edge banding cutters

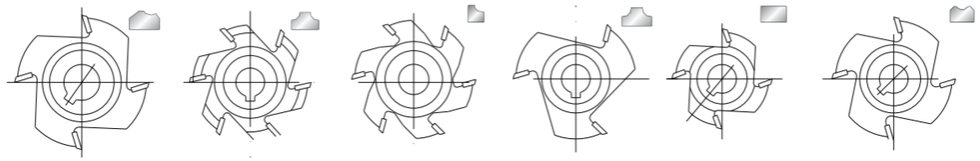


Material



Machine：Edge banding machine
Application：Trimming MDF,Chipboard,plywood
Design：Standard R2/R3 with 4 blade or 6 blades
Advantage：Good dynamic balance,
Good edge surface
Remark: ODM/OEM supported

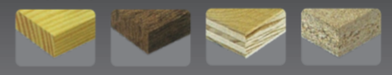
Teeth Featuer



No.	OD	ID	H	Spiral	Z	R
1	67	16	13	4	R2	
2	75	20	17	4	R2	L/R
3	75	20	17	4	R3	L/R
4	58	16	12	6		
5	56	16	14	4		
6	80	20	20	6		
7	70	16	17	3	R2.5	
8	56	20	14	4		
9	60	16	11	6	R2	
10	60	16	11	6	R3	
11	68	16	16	6	R2	
12	68	16	16	6	R3	
13	69	16	13	4	R3	
14	69	16	13	6	R2	
15	69	16	13	6	R3	
16	75	20	17	6	R2	
17	75	20	17	6	R3	

Tenon cutters

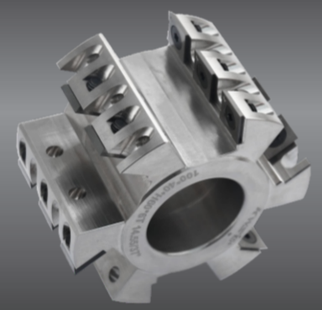
Material



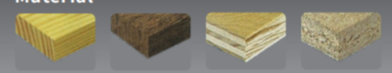
Machine：Tenoning machine
Application：Solid wood
45°、135°、90° Tenon processing
Advantage：Special design for saw blade installation and
Replacement
Including 1 piece PCD saw blade

No.	Specification	saw blade	Machine
1	100*70*25(Oblique blade)	Yes L	MAS MSZ2000
2	100*70*25(Oblique blade)	Yes R	MASMSZ2000
3	112*30	Yes	QCM MX3810B
4	123*30	Yes	QCM MX3815C
5	130*30(Oblique blade)	PCD Saw	MAS MDK3113B1

Planer cutter with replacable blade



Material

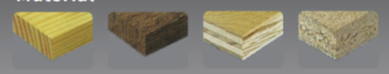


Machine：Vertical milling machine,Four Side Moulder
Application：Solid wood, MDF, Chipboard,
Feature：chip conveyor design replacable inserts
Advantage：The processed surface is more smooth, long
lifespan and endurance

No.	OD	ID	Height	Z
1	90	35	40-120	4
2	100	35	40-130	6
3	125	35	60-230	6

Helical Cutter Block

Material



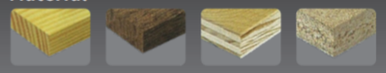
Machine:Vertical Milling machine,Four-side moulder
Application:Wood , MDF, HDF
Advantage:High quality helix structure,
Inserts can be replaced
High efficiency, Silence,

No.	OD	ID	Height	Z	Blade Angle	Type
1	90	35	60	6	30°	light duty
2	90	35	80	6	30°	light duty
3	90	35	100	6	30°	light duty
4	90	35	120	6	30°	light duty
5	100	35	60	6	30°	light duty
6	100	35	80	6	30°	light duty
7	100	35	100	4	30°	light duty
8	100	35	120	6	30°	light duty
9	125	40	60	6	30°	light duty
10	125	40	80	6	30°	light duty
11	125	40	100	6	30°	light duty
12	125	40	120	6	30°	light duty
13	125	40	150	6	30°	light duty
14	90	35	40	6	37°	heavy duty
15	90	35	60	6	37°	heavy duty
16	90	35	80	6	37°	heavy duty
17	90	35	100	6	37°	heavy duty
18	90	35	120	4	37°	heavy duty
19	90	35	130	6	37°	heavy duty
20	100	40	40	6	37°	heavy duty
21	100	35	60	6	37°	heavy duty
22	100	35	80	6	37°	heavy duty
23	100	35	100	6	37°	heavy duty
24	100	35	120	6	37°	heavy duty
25	125	40	60	6	37°	heavy duty
26	125	40	80	6	37°	heavy duty
27	125	40	100	6	37°	heavy duty
28	125	40	120	4	37°	heavy duty
29	125	40	150	6	37°	heavy duty
30	125	40	180	6	37°	heavy duty
31	125	40	200	6	37°	heavy duty

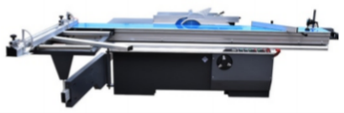
[PCD Saw blade]

PCD universal sawblades

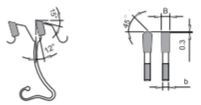
Material



Machine：Table saw,Panel saw,reciprocating saw
Application：Solid wood, Particleboard, MDF, and Combe board with veneers
Advantage：New Chrome treatment, New CP technology, Long working life,30 times more than TCT saw blade



Teeth Featuer



Stock: ● Yes ○ No

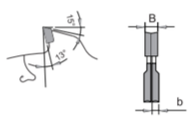
No.	D	d	B	Z	TF	K5
1	300	30	3.2	60	TP	●
2	303	30	2.6	60	凹	●
3	300	30	3.2	72	TP	●
4	300	30/80	3.2	96	TP	●
5	350	30	3.5	84	TP	●

PCD adjustable scoring sawblades

Material

Machine：Table Saw/Precision Sliding Table Saw
Application：MDF,Chipboard,plywood with laminated veneer
Advantage：New Chrome treatment, New CP technology,Scoring width can be adjustedHigh quality steel and PCD alloy Long life

TEETH FEATUER



Stock: ● Yes ○ No

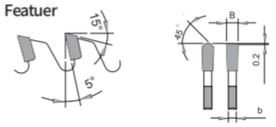
No.	D	d	B	Z	TF	K5
1	120	20/22	(2.8-3.6)	(12+12)	Y	●

PCD Aluminum sawblades

Material

Machine：Panel saw machine, double-shaft miter saw machine, Cross cutting saw, CNC center
Appliation:Aluminum profile
Advantage:Small face angle design, TP teeth shape
Silence line design,
Smooth cutting surface.
Long working life

Teeth Featuer

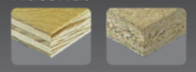


Stock: ● Yes ○ No

No.	D	d	B	Z	TF	K5
1	420	30	4.0	108	TP	●
2	450	30	4.0	120	TP	●
3	450	32	4.2	120	TP	●
4	500	25.4/30/32/80	4.4	120	TP	●
5	550	30	4.4	120	TP	●
6	550	30	4.4	144	TP	●
7	600	30/38	4.8	144	TP	●

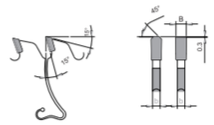
PCD panel sizing sawblades

Material



Machine：Panel sizing saw,Double end milling machine
Application：For plain board and veneer particle board,
medium density and high density veneer
and stacked cut
Advantage：New Chrome treatment, New PC technology,
Be efficient at Glue or rust scenario,
PCD blade leads to long working life,

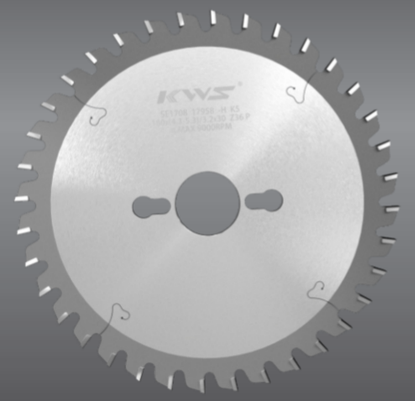
Teeth Featuer



Stock: ● Yes ○ No

No.	D	d	B	Z	TF	K5
1	300	80	4.0	96	T	●
2	350	30	4.0	84	T	●
3	350	30	4.4	72	T	●
4	350	30/60/75	4.4	84	TP/T	●
5	355	25.4	3.5	96	T	●
6	355	60	3.5	84	TP/T	●
7	360	65	4.4	84	T	●
8	380	60	4.4	72	T	●
9	380	60/75	4.4	84	TP/T	●
10	400	60	4.4	72	T	●
11	400	60/75	4.4	84	TP/T	●
12	450	60/75	4.8	84	TP/T	●

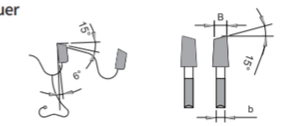
PCD conical scoring sawblades



Material

Machine：Table Saw,Panel sizing saw etc.
Application：MDF、Chip board、Plywood etc.
Feature：New Chrome treatment, New PC technology,
left and right trapezoidal teeth
Advantage：Be efficient at Glue or rust scenario,
PCD blade leads to long working life,

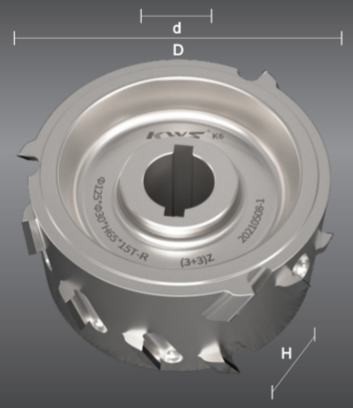
Teeth Featuer



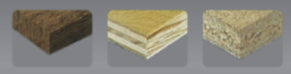
Stock: ● Yes ○ No

No.	D	d	B	Z	TF	K5
1	120	20/22	3.0-4.0	24	P	●
2	120	20/22	2.5-3.5	24	P	●
3	125	22	3.4-4.4	24	P	●
4	160	30	3.4-4.4	36	P	●
5	160	55	3.1-4.1	36	P	●
6	160	45	4.3-5.3	36	P	●
7	160	55	3.9-4.9	36	P	●
8	180	30	3.4-4.4	36	P	●
9	180	30	3.9-4.9	36	P	●
10	180	30/45	4.3-5.3	36	P	●
11	180	45	4.7-5.7	36	P	●
12	200	45/50/75	4.3-5.3	36	P	●
13	200	50	4.7-5.7	36	P	●

PCD pre-milling cutter



Material



Machine：Edge Banding Machine
Application：MDF、Chipboard、Multi layer board
Design：Oblique blade design，Avoid bursting
Advantage：Good performance on Chip removal，
Endurable Low noise.
Remark:ODM/OEM supported

Stock: ● Yes ○ No

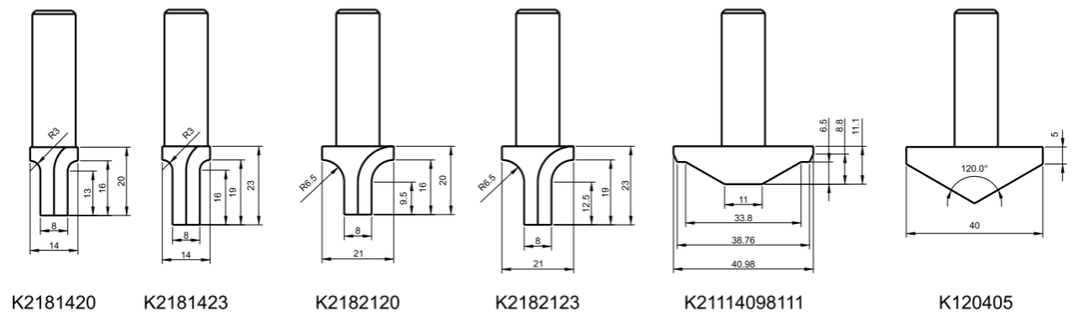
No.	OD	ID	Height	Z	K6
1	100	30	48	15	●
2	125	30	35	6	●
3	125	30	40	9	●
4	125	30	43	12	●
5	125	30	65	15	●
6	150	30	35	8	●
7	150	30	12	12	●
8	150	30	18	15	●

PCD Router bit

Material

Machine：Computer engraving machine,
CNC machining center, engraving and milling machine
Application：MDF、Chipboard、fireproof board etc.
Advantage： PCD blade，endurable ，long working life

Remark: ODM/OEM Supported



Stock: ● Yes ○ No

No.	Specification	Shank dia	Blade dia	Blade Length	K5
1	K2181420				○
2	K2181423				○
3	K2182120				●
4					○
5	K2182123				○
6	K21114098111				○
7	120°V type bit 1/2*40				○
8	Straight bit(bottom clean)	1/2	10	25	○
9	125°V type bit 1/2*40 Straight bit(bottom clean)	1/2	12	25	○
10	Straight bit(bottom clean)	1/2	1/2	30	●
11	Straight bit(bottom clean)	1/2	10	30	○
12	Straight bit(bottom clean)	1/2	12	30	○
13		1/2	1/2	28	○
14				20	●

Router bit series]

TCT straight bits

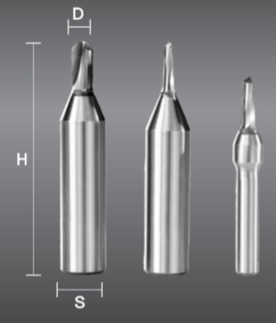
Material

Machines：Engraving machine,
CNC machining center etc
Application：Wood、MDF、Bamboo
Features ：Dual flute made of TCT alloy
Advantages: High quality alloy, unique welding process,
excellent quality, super long life and durable

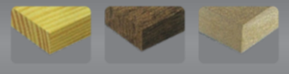
Stock: ● Yes ○ No

No.	S	D	H	Z	K6
1	1/2	2	6	2T	●
2	1/2	2.5	6	2T	●
3	1/2	3	12	2T	●
4	1/2	3.5	12	2T	●
5	1/2	4	12	2T	●
6	1/2	4	15	2T	●
7	1/2	4.5	15	2T	●
8	1/2	5	15	2T	●
9	1/2	5.5	15	2T	●
10	1/2	6	15	2T	●
11	1/2	6	20	3T	●
12	1/2	6	22	3T	●
13	1/2	6	28	3T	●
14	1/2	8	20	3T	●
15	1/2	8	22	3T	●
16	1/4	2	6	2T	●
17	1/4	2.5	6	2T	●
18	1/4	3	12	2T	●
19	1/4	3.5	10	2T	●
20	1/4	4	12	2T	●
21	1/4	4	15	2T	●
22	1/4	4.5	15	2T	●
23	1/4	5	15	2T	●
24	1/4	5.5	15	2T	●
25	1/4	6	15	2T	●

TCT cove box bit



Material

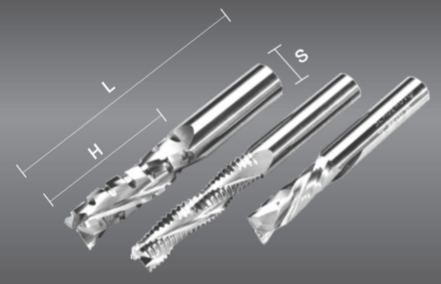


Machine: Engraving machine、CNC centre、
CNC mortise machine
Application: Solid Wood、Density board
Advantage: Dual flutes made of TCT alloy, Longer life
Large chip removal space More cutting force

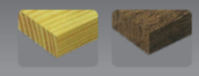
Stock: ● Yes ○ No

No.	S	D	H	K5
1	1/2	3	8	●
2	1/2	4	8	●
3	1/2	5	8	●
4	1/2	6	8	●
5	1/4	3	8	●
6	1/4	4	8	●
7	1/4	5	8	●
8	1/4	6	8	●

TCT milling cutters



Material



Machine: Engraving machine
CNC machining center,
CNC tenon and grooving machine
Application: Trimming, mortise and groove, strip hole
Advantages: Sharp, durable;
Accuracy,
Stable quality

Stock: ● Yes ○ No

No.	NAME	SHANK DIA	BLADE DIA	TOTAL L	Z	K5
1	TCT milling cutter	16	16	165	3	●
2	TCT milling cutter	16	18	165	3	●
3	TCT milling cutter	16	20	165	3	●