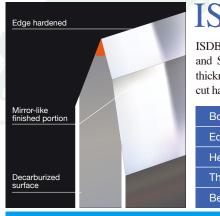
#### **Applications**

	plication	)113															
					J	ара	n						Th	nai			
				Ground Coated			Shaved Ground				d						
		ISDB	PL blade	R- type	G- type	WG- type	Label	TK coating	B- BLAST	S	SP	ws	WSP	М	R	Plus	RF
Advantage	Reduce angel hair (dust)			<b>√</b>	<b>√</b>	<b>√</b>									<b>√</b>	<b>✓</b>	<b>✓</b>
	Increased die life time					<b>✓</b>						<b>✓</b>	<b>√</b>	<b>✓</b>			
	Reduce cutting pressure				<b>√</b>											<b>✓</b>	
	Non-adherent							<b>✓</b>	<b>✓</b>								
Appl	Card board			<b>√</b>	<b>✓</b>	<b>✓</b>				<b>√</b>	<b>√</b>	<b>✓</b>	<b>√</b>	<b>√</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>
Application	Laminated card board			<b>✓</b>	<b>✓</b>	<b>✓</b>					<b>✓</b>		<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>
_	Small lot card board Cigarette									<b>✓</b>	<b>✓</b>	<b>√</b>	<b>√</b>				
	Laminated cigarette case			<b>√</b>	<b>✓</b>	<b>✓</b>					<b>✓</b>		<b>√</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>
	Paper container			<b>✓</b>	<b>✓</b>	<b>✓</b>				<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>√</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>
	Greeting cards			<b>✓</b>	<b>✓</b>	<b>✓</b>									<b>√</b>	<b>√</b>	<b>√</b>
	Thin corrugated board									<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>√</b>				
	Thick Corrugated board			<b>√</b>											<b>✓</b>		<b>✓</b>
<b>Plastics</b>	PE,PVC,PP	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>										<b>✓</b>	<b>✓</b>	<b>✓</b>
ics	PET	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>										<b>✓</b>	<b>✓</b>	<b>✓</b>
	Polycarbonate	<b>✓</b>	<b>✓</b>														
	Vacuum forming			<b>✓</b>	<b>✓</b>										<b>✓</b>	<b>✓</b>	<b>✓</b>
Electronics	Layered material labels (Paper&Plastic)						<b>✓</b>									<b>✓</b>	
nics	Protect film			<b>✓</b>	<b>✓</b>		<b>✓</b>								<b>✓</b>	<b>✓</b>	<b>✓</b>

#### JAPAN Products Hardness HV HRC HS

Since our establishment in 1951, Tsukatani has been making an exhaustive study of the quality of "cutting and punching". Manufacturing high quality, high precision and sharp cutting fine ground cutting blades.

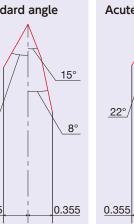
To support world famous cutting-die, we develop every possible technique and provide high precision and elaborate top quality products.



#### **ISDB**

ISDB is a product combined strong points of CB, SB and SDB. The edge top exists on the center of rule thickness, it is easily replaced in case using CB. It can cut hard and thick products straight.

ard and thek products straight.							
ody hardness	HV300~480						
dge hardness	HV620 / HV670						
eight	23.6mm / 23.8mm						
hickness	0.71mm (2pt)						
evel type	Special profile						
Nine and							



ISDB/PL blade

Purposes

**Cut materials:** 

\* Paper + laminated film

\* Paper packaging + laminated film

\* Card board + cardboard with film

\* Cigarette boxes + laminated film

\* Pharmaceutical boxes + laminated film

# Acute angle

#### PL blade

The PL blade is a steel cutting rule developed to die cut thin plywood and jigsaw puzzles. Since the PL blade has triple long bevel profile with a long edge portion, it is able to cut thick materials such as Styrofoam and cushions without causing cut resistance.

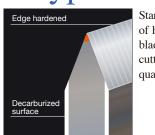
		-				
	Body hardness	HV300∼445				
 	Edge hardness	HV545 / HV670				
	Height	23.6mm / 23.8mm				
	Thickness	0.71mm (2pt)				
	Bevel type	Triple				
•						

#### \* Corrugated boxes board \* Leather

#### \* Plastic: PP, PVC, PET, foam \* Gaskets

#### \* Electronics: Film

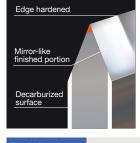
### R-type (Standard type)



andard cutting blade. With a wide variety of hardness combination of edge top and blade body, it applies to the balance of cutting force and durability and high quality various materials and shapes.

Body hardness	HV300~480							
Edge hardness	HV550 / HV610 / HV620 / HV670							
Height	23.6mm / 23.8mm							
Thickness	0.71mm (2pt) / 1.07mm (3pt)							
Bevel type	CB (30° or 42° or 53°) / CDB (55°) / SB,SDB (51							
	Ground Ground							

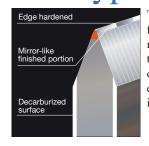
#### G-type



The super G type is applied mirror-like inishing to provide an exceedingly sharp edge, thus it eliminates damage to cutting material and reduces cutting force. The mirror-like finishing has effect in providing smooth and beautiful cut surface and also reventing printed material from peeling or detaching, which can not be obtained by

Body hardness	HV300~480					
Edge hardness	HV550 / HV610 / HV620 / HV670					
Height	23.6mm / 23.8mm					
Thickness	0.71mm (2pt)					
Bevel type	CB (30° or 42°)					
Mirror						

#### WG-type



ne super WG Type has been developed for the prevention of paper dust. We apply mirror-like finishing to the first facet of the double bevel rule profile to provide an optimal wear status for the edge without legrading the sharpness of the edge, thus makes possible to prevent paper dust.

dness	HV300~480	
dness	HV620 / HV670	
	23.6mm / 23.8mm	/
5	0.71mm (2pt) / 1.07mm (3pt)	
e	Special profile	

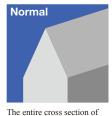
Mirror on top & Ground

#### TK coating Non-adhesive coating



r the issue of paste adhesion on blade edge, this cutting blade is processed by special coating. But the edge is not coated considering cutting force leteriorated by coating. It is used for preventing paste adhesion and cutting thick sheet sharply.

#### Base material







section of the blade is made of decarburized steel, providing excellent bending workability and elastic

Code: DS · DMHE ·

#### Edge hardness

The surface layer of cross

bending workability.

Code : SF  $\cdot$  MHF  $\cdot$  HF

section of the blade is made

Normal	J-1	J-2	Hardness	Code	Hardness
S	DS	SF	HV300~325	70	HV550
_	DMHE	_	HV360	75	HV610
MH	DMH	MHF	HV385∼390	80B	HV620
Н	DH	HF	HV430~450	80	HV670
HH	_	_	HV480		

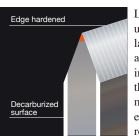
• t=0.7mm h=23.6~23.8mm

■ Body hardness

#### Cutting load

0		
Products	Cut PVC (N)	
R-type	∠30° ∠42°	~80
C time	∠30°	~30
G-type	∠42°	~50
ISDB	∠36°	~50
WG-type	∠50°	~60

#### Label



abel cutting rule is a steel cutting rule used to cut adhesive sheets such as seal labels, double-sided adhesive tapes and adhesion parts. Since this blade is bent into complexed profiles, they have thin thickness and different heights to adapt to machine specifications. The ground edge enables cutting adhesive sheets with a esin coating with small resistance.

	e
Body hardness	HV325 / HV390
Edge hardness	HV545 / HV640
Height	$5.2\sim 12$ mm
Thickness	0.45mm (1.3pt)
Bevel type	CB (42°) / SDB (47°)

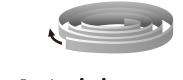
#### B-BLAST Non-adhesive coating

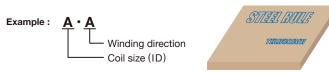


his is also for the issue of paste adhesion on blade edge. B-BLAST is coated on the whole of blade. It is effective when it is required to prevent paste adhesion completely.

#### **Packaging**

Diameter	Α	В
ID	270	330
OD (t = 0.7)	400	450









20110, THAILAND Phone: +66(0)38-347-371 Fax: +66(0)38-347-372 e-mail/info@tsukatani.co.th

TSUKATANI (THAILAND) CO.,LTD.

150/92 M.9 T.Nongkham, A.Sriracha, Chonburi,

 $\checkmark$   $\checkmark$   $\checkmark$ 

Pinthong Industrial Estate2,

#### **Mother Company**

TSUKATANI HAMONO MFG. CO.,LTD. 5-30 Kusunecho, Yao City, Osaka 581-0814 Japan

International Sales Department Phone: +81-72-996-8774 Fax: +81-72-996-7715 e-mail: ex-import@tsukatani-hamono.co.jp

https://www.tsukatani-hamono.co.jp

■ Contents and product specifications in this catalogue are subject to changes without notice. If you need detailed information on availability and specifications of the products, etc., please contact with us.

2021.06.2000

**Conversion tables** 

66.4 860 65.9 92

65.3

64.0

62.5

820 64.7 90

740 61.8 84

710 — 82 690 59.7 —

670 58.8 80 58.3 650 57.8 78

59.2

57.3

56.3

54.1 575 — — 53.6

52.3

535 — —

525 — —

49.1

490 48.4 — 47.7

475 — —

460 46.1 62

445 — — 440 44.5 59

430 43.6 —

42.7 410 41.8 —

40.8

395 — —

370 37.7 —

36.6

340 34.4 47 330 33.3 —

325 — — 32.2

**Soft** 345 35.0 48

✓ ✓ ✓

39.8 —

\_ \_

35.5 —

46.9

53.0 71

- -51.7

51.1 68

50.5 67 510 49.8 —

630 56.8 —

610 55.7 — 55.2 590 54.7 —

61.0 83

63.3 87



Tsukatani Thailand was established in 2013 with Japanese specialized processing technology and knowledge. We mainly manufacture shaved blades that are used around the world and also work with ground blades, applying the most advanced technology of Japan taking care of a wide range of customers. We provide the best suited blade to meet customers' requirement.

Cut materials:

\* Thick corrugated boxes

\* Thick Paper

\* Card board

\* Paper packaging

laminated film

laminated film

#### Shaved edge





1.5pt

Soft

Soft

(0.53mm

SP

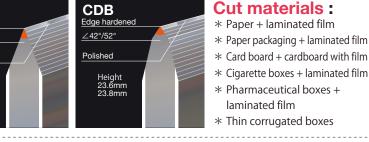


#### Cut materials : Paper + laminated film Paper packaging + laminated film Card board + cardboard with film Cigarette boxes + laminated film Pharmaceutical boxes +

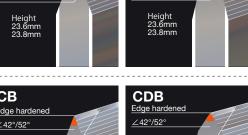


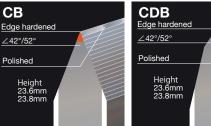












WSP

 $\leq$ 

Body bendability / hardness

HV345 / HS48 / HRC35 "

Soft



HV380 / HS52 / HRC39



CDB

HV450 / HS60 / HRC45

for extra longevity

CDB

#### **Cut materials:** \* Thick Paper

\* Paper packaging \* Card board \* Thick corrugated boxes

k Paper

Edge hardness

Cut materials:

\* Paper packaging

\* Cigarette boxes

Pharmaceutical boxes

Thin corrugated boxes

\* Card board

#### jobs

Advantages:

Advantages:

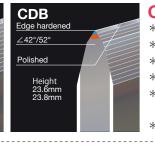
Advantages:

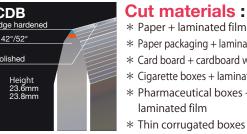
\* Thick corrugated boxes and hard cardboard and long run

\* General standard dieboard

and long run jobs

## Soft Medium





#### Paper + laminated film Paper packaging + laminated film Card board + cardboard with film \* Cigarette boxes + laminated film \* Pharmaceutical boxes + laminated film Thin corrugated boxes

Cut materials:

\* Thick corrugated boxes +

laminated film

Cut materials :

\* Thin paper + long run job

\* Card board + long run job

\* Pharmaceutical boxes +

Cut materials:

\* Cigarette boxes + long run job

\* Thin paper packaging +

long run job

long run job

long run job

long run job

## cut material with film and long run jobs

## Advantages:

\* General standard dieboard

#### \* Thick Paper + laminated film \* Thick corrugated boxes and Repare Packaging + laminated film hard cardboard and long run Card board + laminated film jobs

\* Especially long run jobs for

paper packaging

Advantages:

Advantages:

## Plus typ **2pt** (0.71mm)

Body bendability / hardness

HV345 / HS48 / HRC35 "

**Ground edge** 

Soft

Soft

Decarburized surfa

Soft

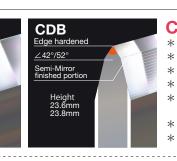
Soft

HV380 / HS52 / HRC39

Soft

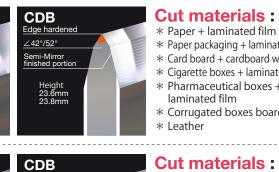






HV450 / HS60 / HRC45

















#### **Cut materials:** Paper + laminated film

- \* Plastic: PP, PVC, PET, foam \* Paper packaging + laminated film \* Card board + cardboard with film Advantages: \* Cigarette boxes + laminated film \* Reduce paper dust, clear cut
- \* Pharmaceutical boxes + \* Super Sharp laminated film \* Very Low pressure ~ 80N k Corrugated boxes board \* Strong \* Mirror Type

Edge hardness

Purposes

Cut materials:

\* Paper + laminated film

\* Pharmaceutical boxes +

k Corrugated boxes board

Cut materials:

\* Paper + laminated film

\* Pharmaceutical boxes +

\* Corrugated boxes board

Cut materials:

\* Paper + laminated film

\* Pharmaceutical boxes +

\* Corrugated boxes board

laminated film

\* Paper packaging + laminated film

\* Card board + cardboard with film

\* Cigarette boxes + laminated film

laminated film

\* Paper packaging + laminated film

laminated film

\* Cigarette boxes + laminated film \* Reduce paper dust, clear cut

Cigarette boxes + laminated film \* Reduce paper dust, clear cut.

\* More Sharp

\* Low pressure

\* Easy bending

\* Electronics: Film

\* More Sharp ~ 100N

\* Plastic: PP, PVC, PET, foam

\* Reduce paper dust, clear cut.

\* Plastic: PP, PVC, PET, foam

\* Very Low pressure ~ 80N

\* Easy bending

\* Electronics: Film

\* More Sharp ~ 100N

\* Low pressure

\* Super Sharp

\* Easy bending

\* Electronics: Film

\* Mirror Type

\* Gaskets

\* Strong

\* Gaskets

\* Gaskets

\* Card board + cardboard with film Advantages:

\* Card board + cardboard with film Advantages:

\* Plastic: PP, PVC, PET, foam

\* Plastic: PP, PVC, PET, foam

## **Cut materials:**

- \* Gaskets
  - \* Electronics: Film

\* Plastic: PP, PVC, PET, foam

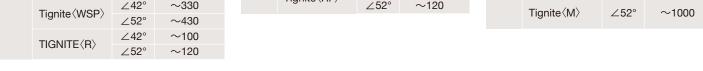
- \* Reduce paper dust, clear cut.
- \* Easy bending

#### **Crease Rules**

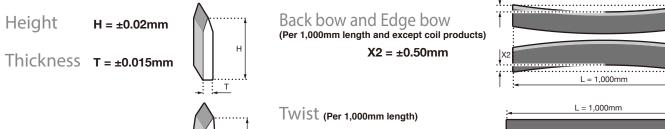


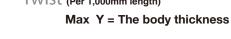
#### **Cutting Load**

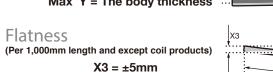
Pt	Product	s	Cut PVC (N)	t PVC (N) Pt Prod		cts Cut PVC (N)		Pt	Products		Cut PVC(N
	Tignite (S)	∠42°	~330			∠30°	~80		Tignite(S)	∠42°	~380
	rignite(5)	∠52°	~430		Tignite (PLUS)	∠42°	~80			∠52°	~480
)t	Tignite (SP)	∠42°	~230	2pt		∠52°	~100		Tignite (SP)	∠52°	~380
		∠52°	~330		Tignite (M)	∠42°	~1000	3pt			
	Tignite (WS)	∠42°	~430			∠52°	~1000	Spt	Tignite (R)	∠42°	~100
2pt		∠52°	~530		Tignite (RF)	∠42°	~100			∠52°	~120
	Tignite (WSP)	∠42°	~330			∠52°	~120		Tignite (M)	∠52°	~1000
	rignite (WSP)	∠52°	~430						rigriite (ivi/	232	1000
	TIGNITE(R)	∠42°	~100								
	HGNHE(R)										



#### **Tolerance**





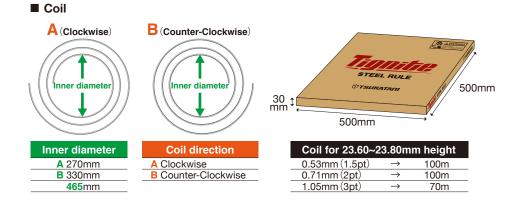




#### **Packaging**

Dish / Camber

 $X1 = \pm 0.10\%$  of height.(H)



For example 1:"BA"=ID330mm and Clockwise For example 2:"465B"=ID465mm and Counter-Clockwise

#### ■ Straight Steel cutting rule 1000mm Standard length



Ollaight Oloci	patting i	uic
0.53mm (1.5pt)	$\rightarrow$	140pcs
0.71mm (2pt)	$\rightarrow$	100pcs
1.05mm (3pt)	$\rightarrow$	70pcs

## Cut materials:

\* Thick Paper + laminated film \* Thick corrugated boxes and \* Paper packaging + laminated film hard cardboard \* Card board + laminated film

\* Thick corrugated boxes +

laminated film

\* General standard dieboard

Advantages:

Advantages:

\* Easy bending

Advantages:

Advantages:

\* Thick corrugated boxes

and hard cardboard

## Soft Medium

Soft



## long run job

#### \* Thick paper + long run job \* Especially long run jobs for paper packaging Thick paper packaging +

\* Thick Card board + long run job \* Thick Cigarette boxes +

## 2pt/3pt (0.71mm) (1.05mm) Decarburized surface Soft Medium













#### \* Paper + laminated film \* Paper packaging + laminated film \* Card board + cardboard with film

\* Cigarette boxes + laminated film Advantages: \* Pharmaceutical boxes +

Corrugated boxes board

\* Very Sharp ~ 100N

\* Low pressure