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Астрахань (8512)99-46-04
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Брянск (4832)59-03-52
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Красноярск (391)204-63-61
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Технические характеристики на наборы напильников для штамповки компании **TSUBOSAN**

DIE SINKER'S-ASSORTED FILES

5-PCS Total Length: 215 mm file Length: 110 mm
(Total Length ・ file Length both in the shape of each dimension)



CUTTING NO.TABLE

	Bastard (red)	Second (green)	Smooth (yellow)	Dead smooth (black)
*	01	02	03	04

*Roughness of cutting is varied by last two digits of the item no.

Example: HI00501→5 Pcs hand Bastard

*The color of the end cap is changed cutting No.
Bastard/01[orange / red]. Second-cut/02 [orange / green]
smooth/03 [orange / yellow]. Dead Smooth/04 [orange / black]

Left photo, second-cut [orange / green].

hand		<table><tr><th>width</th><th>thickness</th><th>ITEM NO.</th></tr><tr><td>11mm</td><td>3.5mm</td><td>HI005**</td></tr></table>	width	thickness	ITEM NO.	11mm	3.5mm	HI005**
width	thickness	ITEM NO.						
11mm	3.5mm	HI005**						
half round		<table><tr><th>width</th><th>thickness</th><th>ITEM NO.</th></tr><tr><td>12mm</td><td>4mm</td><td>HA005**</td></tr></table>	width	thickness	ITEM NO.	12mm	4mm	HA005**
width	thickness	ITEM NO.						
12mm	4mm	HA005**						
round		<table><tr><th>Diameter</th><th>ITEM NO.</th></tr><tr><td>φ5.5</td><td>MA005**</td></tr></table>	Diameter	ITEM NO.	φ5.5	MA005**		
Diameter	ITEM NO.							
φ5.5	MA005**							
square		<table><tr><th>width</th><th>thickness</th><th>ITEM NO.</th></tr><tr><td>6mm</td><td>6mm</td><td>KA005**</td></tr></table>	width	thickness	ITEM NO.	6mm	6mm	KA005**
width	thickness	ITEM NO.						
6mm	6mm	KA005**						
triangular		<table><tr><th>width</th><th>thickness</th><th>ITEM NO.</th></tr><tr><td>9mm</td><td>9mm</td><td>SA005**</td></tr></table>	width	thickness	ITEM NO.	9mm	9mm	SA005**
width	thickness	ITEM NO.						
9mm	9mm	SA005**						
5 pcs set	Above 5 different files into to one set.							
		<table><tr><th>ITEM NO.</th><td>ST008**</td></tr></table>	ITEM NO.	ST008**				
ITEM NO.	ST008**							

8-PCS Total Length: 200 mm file Length: 100 mm
(Total Length ・ file Length both in the shape of each dimension)



CUTTING NO.TABLE

	Bastard (red)	Second (green)	Smooth (yellow)	Dead smooth (black)
*	01	02	03	04

*Roughness of cutting is varied by last two digits of the item no.

Example: HI00501→5 Pcs hand Bastard

*The color of the end cap is changed cutting No.

Bastard/01[orange / red]. Second-cut/02 [orange / green]
smooth/03 [orange / yellow]. Dead Smooth/04 [orange / black]

Left photo, second-cut [orange / green].

hand		<table><tr><th>width</th><th>thickness</th><th>ITEM NO.</th></tr><tr><td>9mm</td><td>3.5mm</td><td>HI008**</td></tr></table>	width	thickness	ITEM NO.	9mm	3.5mm	HI008**	面
width	thickness	ITEM NO.							
9mm	3.5mm	HI008**							
half round		<table><tr><th>width</th><th>thickness</th><th>ITEM NO.</th></tr><tr><td>9.5mm</td><td>3mm</td><td>HA008**</td></tr></table>	width	thickness	ITEM NO.	9.5mm	3mm	HA008**	面
width	thickness	ITEM NO.							
9.5mm	3mm	HA008**							
round		<table><tr><th>Diameter</th><th>ITEM NO.</th></tr><tr><td>φ4.3</td><td>MA008**</td></tr></table>	Diameter	ITEM NO.	φ4.3	MA008**	面		
Diameter	ITEM NO.								
φ4.3	MA008**								
square		<table><tr><th>width</th><th>thickness</th><th>ITEM NO.</th></tr><tr><td>4.3mm</td><td>4.3mm</td><td>KA008**</td></tr></table>	width	thickness	ITEM NO.	4.3mm	4.3mm	KA008**	面
width	thickness	ITEM NO.							
4.3mm	4.3mm	KA008**							
triangular		<table><tr><th>width</th><th>thickness</th><th>ITEM NO.</th></tr><tr><td>7.5mm</td><td>7.5mm</td><td>SA008**</td></tr></table>	width	thickness	ITEM NO.	7.5mm	7.5mm	SA008**	面
width	thickness	ITEM NO.							
7.5mm	7.5mm	SA008**							
trape zoid		<table><tr><th>width</th><th>thickness</th><th>ITEM NO.</th></tr><tr><td>9.5mm</td><td>3mm</td><td>SI008**</td></tr></table>	width	thickness	ITEM NO.	9.5mm	3mm	SI008**	面
width	thickness	ITEM NO.							
9.5mm	3mm	SI008**							
flat		<table><tr><th>width</th><th>thickness</th><th>ITEM NO.</th></tr><tr><td>9mm</td><td>3mm</td><td>SH008**</td></tr></table>	width	thickness	ITEM NO.	9mm	3mm	SH008**	面
width	thickness	ITEM NO.							
9mm	3mm	SH008**							
oval		<table><tr><th>width</th><th>thickness</th><th>ITEM NO.</th></tr><tr><td>9mm</td><td>4.5mm</td><td>DE008**</td></tr></table>	width	thickness	ITEM NO.	9mm	4.5mm	DE008**	面
width	thickness	ITEM NO.							
9mm	4.5mm	DE008**							
8pcs set	*Above 8 different files into to one set.		<table><tr><th>ITEM NO.</th><td>ST008**</td></tr></table>	ITEM NO.	ST008**				
ITEM NO.	ST008**								

**10-PCS Total Length: 185mm file Length:85mm
(Total Length・file Length both in the shape of each dimension)**



CUTTING NO.TABLE

	Bastard (red)	Second (green)	Smooth (yellow)	Dead smooth (black)
*	01	02	03	04

*Roughness of cutting is varied by last two digits of the item no.

Example: HI00501→5 Pcs hand Bastard

*The color of the end cap is changed cutting No.

Bastard/01[orange / red]. Second-cut/02 [orange / green]
smooth/03 [orange / yellow]. Dead Smooth/04 [orange / black]

Left photo, second-cut [orange / green].

hand		width	thickness	ITEM NO.	 図面	
		7mm	2.5mm	HI010**		
half round		width	thickness	ITEM NO.	 図面	
		7.3mm	2.5mm	HA010**		
round		Diameter	ITEM NO.	 図面		
		φ3.2	MA010**			
square		width	thickness	ITEM NO.	 図面	
		4.3mm	4.3mm	KA010**		
triangular		width	thickness	ITEM NO.	 図面	
		6mm	6mm	SA010**		
trapezoid		width	thickness	ITEM NO.	 図面	
		7.3mm	2.5mm	SI010**		
flat		width	thickness	ITEM NO.	 図面	
		7mm	2.5mm	SH010**		
oval		width	thickness	ITEM NO.	 図面	
		7mm	3.4mm	DE010**		
knife		width	backs	blade	ITEM NO.	 図面
		8.2mm	2.5mm	1.0mm	KH010**	
balance		width	thickness	ITEM NO.		

edge



7.3mm

2.5mm

HM010**



10pcs set

Above 10 different files into to one set.

ITEM NO. ST010**

12-PCS Total Length: 170mm file Length:70mm (Total Length ・ file Length both in the shape of each dimension)



CUTTING NO.TABLE

	Bastard (red)	Second (green)	Smooth (yellow)	Dead smooth (black)
*	01	02	03	04

*Roughness of cutting is varied by last two digits of the item no.

Example: HI00501→5 Pcs hand Bastard

*The color of the end cap is changed cutting No.

Bastard/01[orange / red]. Second-cut/02 [orange / green]
smooth/03 [orange / yellow]. Dead Smooth/04 [orange / black]

Left photo, second-cut [orange / green].

hand



width thickness ITEM NO.

4mm

2mm

HI012**

half
round

width thickness ITEM NO.

4.2mm

2mm

HA012**



round



Diameter ITEM NO.

φ2.5

MA012**



square



width thickness ITEM NO.

2.5mm

2.5mm

KA012**



triangular



width thickness ITEM NO.

4.0mm

4.0mm

SA012**



trapezoid



width thickness ITEM NO.

4.2mm

2mm

SI012**



flat

width thickness ITEM NO.

4mm

2mm

SH012**

					+ 面	
oval		width	thickness	ITEM NO.	+ 面	
		4mm	2.5mm	DE012**		
knife		width	backs	blade	ITEM NO.	+ 面
		4.5mm	2mm	1mm	KH012**	
balance edge		width	thickness	ITEM NO.	+ 面	
		4.2mm	2mm	HM005**		
clam		width	backs	blade	ITEM NO.	+ 面
		4.2mm	2.2mm	1mm	HG012**	
auri-form		width	thickness	ITEM NO.	+ 面	
		4mm	2.2mm	RK012**		
12pcs set	Above 12 different files into to one set.				ITEM NO. ST012**	

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