OTP Tungsten Steel Crimping Blade - DC53 Material, 60 Hardness JW-BL01

Model No. JW-BL01



SPECIFICATIONS

Material	DC53 Tungsten Steel
Hardness	60 degrees
Lifespan	50+ million cycles
Processing	Vacuum heat treatment
Application	Terminal crimping machines, wire harness manufacturing

JW-BL01 is an OTP-format crimping blade for automatic terminal crimping machines. It is the cutting element in the OTP applicator: it trims the cable end square and opens the insulation ahead of the crimp stroke, and it stays in the tool while the machine runs terminal after terminal. It is a spare part for wire harness shops rather than a machine in itself.

The blade is ground from Japanese DC53 tungsten steel and vacuum heat treated to 60 hardness. DC53 holds an edge at that hardness far longer than standard die steel, so the stripping tip does not round over on stranded copper, and the rated life is 50 million cycles or more. The flat OTP body carries a two-prong stripping tip, which cuts both sides of the insulation to the same depth and leaves a square shoulder instead of a torn one.

It fits standard OTP applicators on terminal crimping machines and replaces a worn, chipped or polished blade without changing the tool setting. Because the tip opening follows the terminal and wire specification, orders are placed against the machine model and terminal number. Holding one spare set at the line is the usual practice.

Key Features

1. Material: Japanese DC53 tungsten steel, chosen for wear resistance at high hardness rather than for toughness alone.

2. Hardness: 60 HRC after vacuum heat treatment, the range where the stripping tip keeps its edge on copper without chipping.

3. Service life: rated at 50 million cycles or more, which sets the blade change interval on a running terminal machine.

4. OTP profile: flat body with a two-prong stripping tip that cuts both insulation walls to the same depth.

5. Mounting: single round fixing hole, so the blade locates on the existing applicator pin and is held by one screw.

6. Fit: made for OTP applicators on terminal crimping machines, matched to the terminal and wire specification in use.

Technical Specifications

Parameter	Specification
Model	JW-BL01

Parameter	Specification
Blade type	OTP crimping blade
Material	DC53 tungsten steel
Hardness	60 HRC
Heat treatment	Vacuum
Service life	50+ million cycles
Fixing	Single round mounting hole (photo)
Application	Terminal crimping machines, wire harness manufacturing

Applications

— Automatic terminal crimping machines with OTP applicators - cable end trimming and insulation stripping before the crimp stroke.

— Wire harness assembly lines running PVC and XLPE insulated stranded cable, where the strip length is short and has to stay square.

— Terminal machines shared between several terminal part numbers, where the blade is changed together with the applicator.

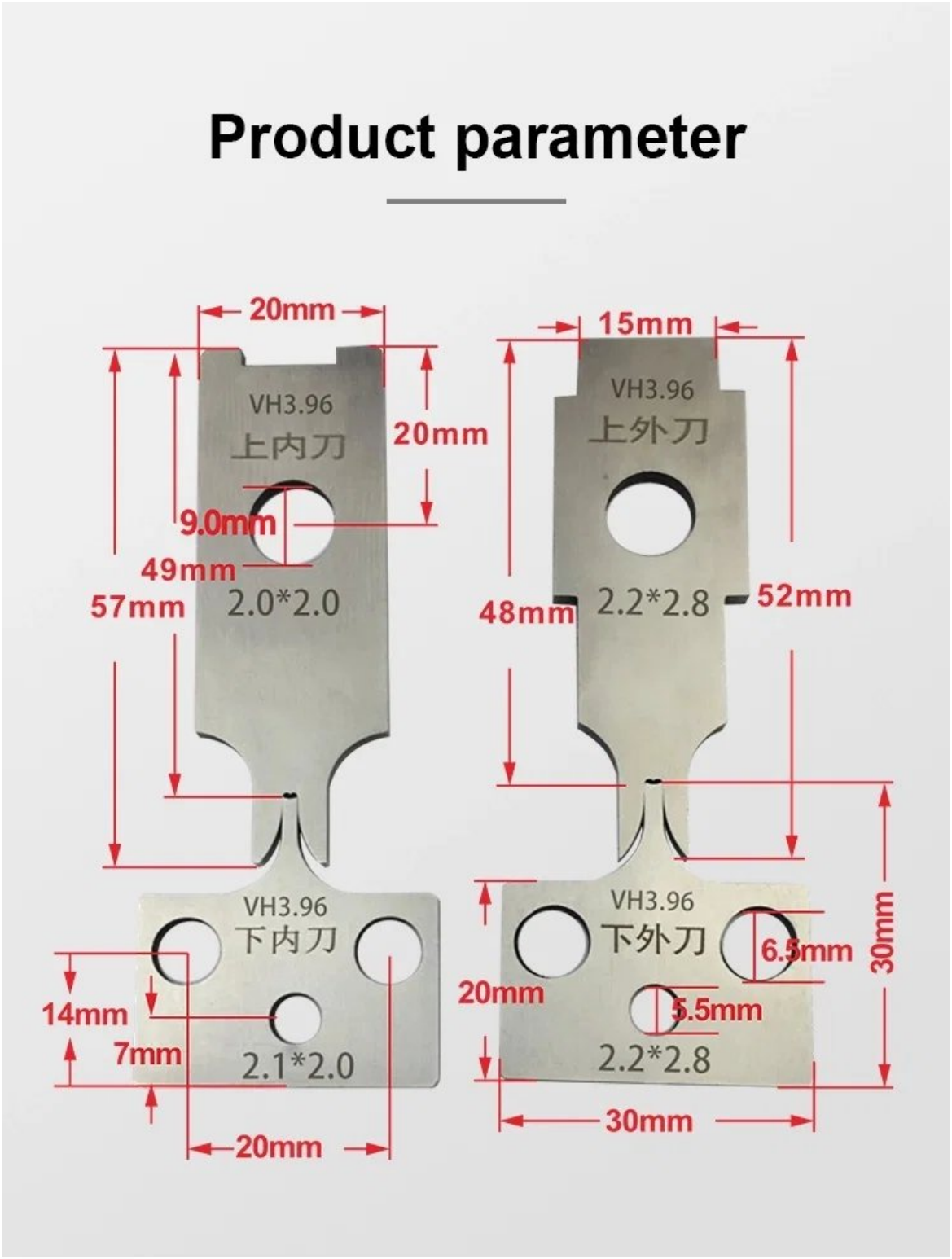
— Rebuilt or imported OTP applicators that need a replacement blade matched to the existing tool holder.

— Preventive maintenance, where the blade is renewed before edge wear shows as stray strands or a ragged insulation shoulder.

Conventional terminal machine blade

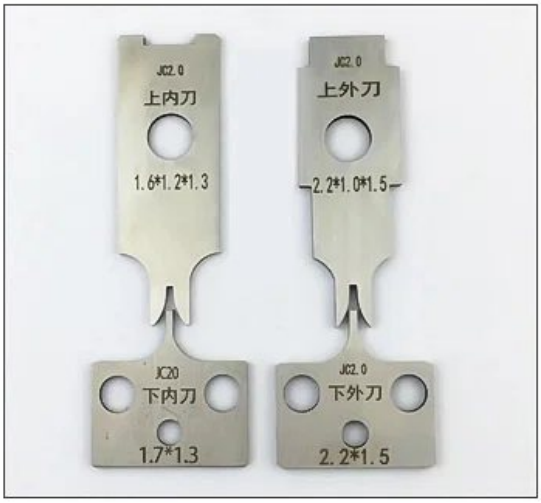


Product parameter




杜邦2.0
上内刀
1.2*1.2
杜邦2.0
上外刀
1.4*1.4
杜邦2.0
下外刀
1.4*1.4


杜邦2.54
上内刀
2.5*1.3
杜邦2.54
上外刀
2.6*1.6R
杜邦2.54
下内刀
2.6*1.3
杜邦2.54
下外刀
2.6*1.6


JC2.0
上内刀
1.6*1.2*1.3
JC2.0
上外刀
2.2*1.0*1.5
JC20
下内刀
1.7*1.3
JC2.0
下外刀
2.2*1.5


JC25
上内刀
2.6*1.2*1.5
JC25
上外刀
1.4*1.0*1.8
JC25
下内刀
2.7*1.5
JC25
下外刀
1.4*1.8


XT60
4.8*7.0*3.0
4.8*7.0*3.0


250
4.2*3.6
250
4.3*2.8
4.2*3.6
4.8*2.8

Special blade for OTP terminal machine

Tungsten steel/white steel/high speed steel

