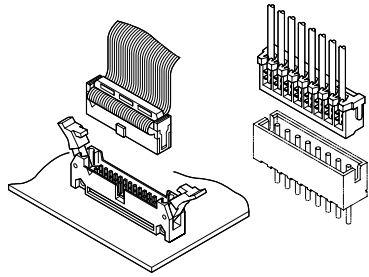


# APPLICATION TOOLING

## ID tools and machines

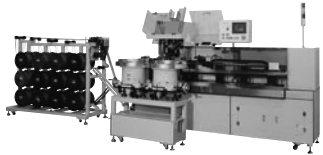
## ID tools and machines

The arrow mark indicates the press that is applicable to the applicator.



Auto. ID machines for discrete wires

BCD-M5BP



Auto. ID machines for shielded wires

SCD-M15B



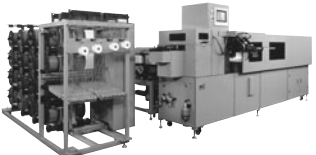
Auto. ID machines for 2.5 mm  
& 2.0 mm pitch jumper wires

RCD-M9BE



Auto. ID machines for multi-harnesses

CAM-M12B

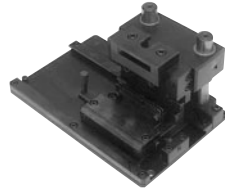


CAM-M35B



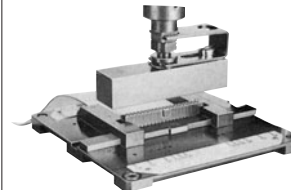
### ID applicator for discrete wires and jumper wires

H2 series



### ID applicator for 1.27mm pitch ribbon cables

HID series



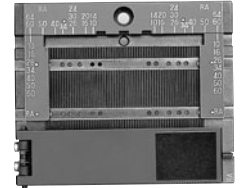
### ID applicator for discrete wires and jumper wires

H2A series



### ID applicator for 1.27mm pitch ribbon cables

FP series



### Hand press

HPD-M2A

HPD-M2A-HID



#### Specifications

- Dimensions: (WxLxH) 130x280x383mm
- Weight: Approx. 7kg(15 lb)

Note: The difference between the HPD-M2A and the HPD-M2A-HID is the main shaft.  
HPD-M2A is for the H2A series applicators  
HPD-M2A-HID is for the HID series applicators

### Pneumatic press

AP-2H

Versatile press applicable to various ID applicators.

#### Specifications

- Dimensions: (WxLxH) 184x302x491mm
- Weight: Approx. 30kg(66 lb)
- Air pressure: 490 to 690 kPa (5 to 7 kgf/sq.cm)
- Strokes: 50 max./minute
- Pressure output: Approx. 7.5kN (Approx. 760 kgf) when air pressure is 490 kPa (5 kgf/sq.cm)
- Operation method: Air-operated foot valve
- Dies: Applicator replacement

### Pneumatic press

AP-2

Versatile press applicable to various ID applicators.

#### Specifications

- Dimensions: (WxLxH) 141x252x301mm
  - Weight: Approx. 16kg(35lb)
  - Air pressure: 490 to 690 kPa (5 to 7 kgf/sq.cm)
  - Strokes: 50 max./minute
  - Pressure output: Approx. 3.8kN (390 kgf) when air pressure is 490 kPa (5 kgf/sq.cm)
  - Operation method: Air-operated foot valve
  - Dies: Applicator replacement
- Note: For the HR connectors, please use AP-2H press that provides bigger pressure output.

### Pneumatic press

AP-2D

Pneumatic press for 1.27mm ribbon cable connectors. Operation is easy and safe as the connector and cable can be set while the sliding applicator is drawn out of the terminating section.

#### Specifications

- Dimensions: (WxLxH) 141x252x301mm
- Weight: Approx. 16kg(35lb)
- Air pressure: 490 to 690 kPa (5 to 7 kgf/sq.cm)
- Strokes: 50 max./minute
- Applicable connectors: JST's RA, RC & RX connectors
- Pressure output: Approx. 3.8kN (Approx. 390 kgf) when air pressure is 490 kPa (5 kgf/sq.cm)
- Operation method: Air-operated foot valve
- Dies: Applicator replacement

### Optional: Control unit for pneumatic presses

MP-CU

The filter regulator & pressure switch help to make reliable operation even under the air condition is not stable. Light and compact.

#### Specifications

- Dimensions: (WxLxH) 200x300x230mm
- Weight: Approx. 5kg(11 lb)
- Power source: 100/115/220/240V AC, single-phase, 50/60 Hz
- Air pressure: 490 to 690 kPa (5 to 7 kgf/sq.cm)
- Accessories: Foot switch, power cord



### Pneumatic press

MP-2A



Simple and compact pneumatic press without electrically controlled unit.

#### Specifications

- Dimensions: (WxLxH) 180x150x250mm
- Weight: Approx. 10kg(22lb)
- Air pressure: 490 to 690kPa (5 to 7 kgf/sq.cm)
- Dies: Dies-Main body integrated
- Strokes: 50 max./minute

### Pistol tool for discrete wires and jumper wires

IDB-12



<Made in Germany>


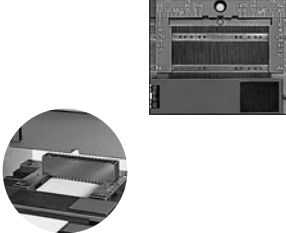
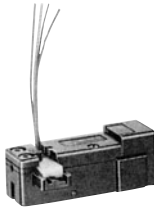
#### Specifications

- Dimensions: (WxLxH) 23x135x175mm
- Weight: 270g(1lb)
- Dies: Head adaptor (IDH series) replacement
- Compact, light and maintenance free. No inspection or lubrication is necessary.

		Hand press: HPD-M2A Pneumatic press: AP-2 or AP-2H	Hand press: HPD-M2A	Hand press: HPD-M2A-HID
		Applicator	Applicator	Applicator
		H2A series 	H2 series 	HID series 
Connector				
Pitch (mm)	Series			
0.6	XSR	H2A-XSR	H2-XSR33ED-X	—
0.8	SUR	H2A-SUR	H2-SUR30ED-X	—
1.0	CS	H2A-CSR	H2-CSR31ED-X	—
	SR	H2A-SR	H2-SR20ED-X	—
	SSR	H2A-SSR	H2-SSR20ED-X	—
	ASR	H2A-ASR	H2-ASR20ED-X	—
1.5	CZ	H2A-CZ	H2-CZ20ED-X	—
	ZR	H2A-ZR	H2-ZR20ED-X	—
	ZA	H2A-ZA	H2-ZA20ED-X	—
2.0	KR (Note 3)	H2A-KR/XR	H2-KR/XR20ED-X	—
	KRD	H2A-KRD	H2-KRD20DD-Y	—
	CK (Note 4)	H2A-KR/XR	H2-KR/XR20ED-X	—
	CR	H2A-CR	H2-CR20ED-X	—
	DR	H2A-DR	H2-DR20ED-X	—
	DA	H2A-DA	H2-DA20ED-X	—
	DD	H2-DD/DS20ED-X	H2-DD/DS20ED-X	—
	DS			
2.5	NR	H2A-NR	H2-NR20ED-X	—
	NRD	H2A-NRD	H2-NRD20DD-Y	—
	HR	H2A-HR	H2-HR20ED-X	—
	DB	H2A-DB	H2-DB20ED-X	—
	DG	H2A-DG	H2-DG20ED-X	—
	BR	H2A-BR	H2-BR20ED-X	—
2.54	RA	—	—	HID-RA/RX
	RC	—	—	HID-RC
	RX	—	—	HID-RA/RX
3.96	VR	H2A-VR	H2-VR15DD-Y	—
Ribbon cable cutter		—	—	HID-FC

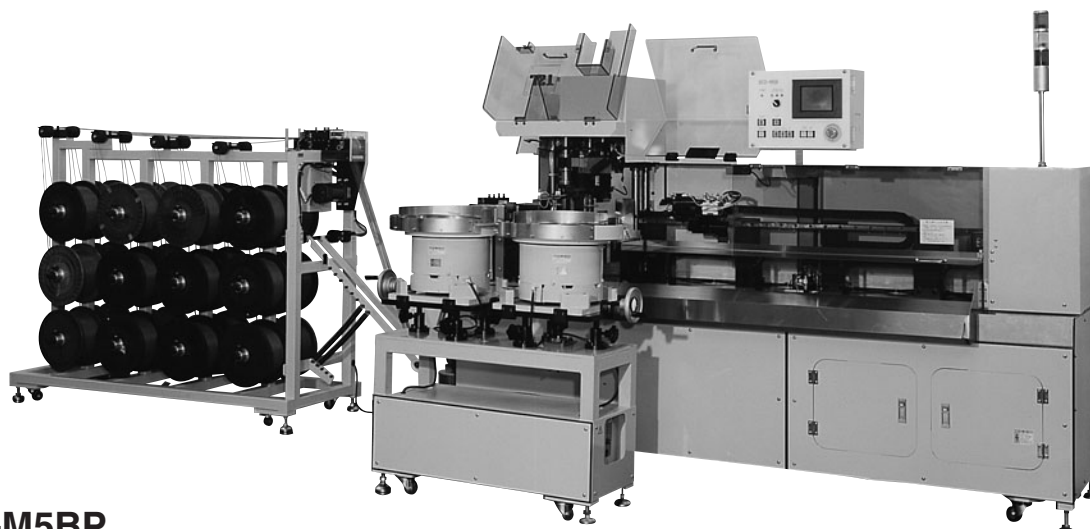
Note 1: ID tools for the standard KR series connectors are not applicable to the ( )KR-4K-\*\* connectors. For ( )KR-4K-\*\*, use the tools for the CR series connectors.

2: ID tools for the standard CK series connectors are not applicable to the ( )CK-6H-\*\* connectors. For ( )CK-6H-\*\*, use the tools for the KR/XR series connectors.

Pneumatic press: AP-2H Electric press: AP-K2N	Pneumatic press: AP-2D	Pistol tool: IDB-12		
Applicator	Applicator	Head adaptor		
MKD-LR with die set	FP series	IDH series		
			<b>Connector</b>	
			<b>Series</b>	<b>Pitch (mm)</b>
—	—	—	XSR	0.6
—	—	—	SUR	0.8
—	—	—	CS	1.0
—	—	—	SR	
—	—	—	SSR	
—	—	—	ASR	
—	—	—	CZ	1.5
—	—	IDH-ZR12	ZR	
—	—	—	ZA	
MKD - LR + MKD-LR-DS-KR	—	IDH-KR12	KR( <i>Note3</i> )	2.0
—	—	—	KRD	
—	—	—	CK( <i>Note4</i> )	
—	—	—	CR	
—	—	IDH-DR12	DR	
MKD - LR + MKD-LR-DS-DA	—	IDH-DA12	DA	
—	—	IDH-DD/DS12	DD	
—	—	—	DS	2.5
—	—	IDH-NR12	NR	
—	—	—	NRD	
MKD - LR + MKD-LR-DS-HR	—	IDH-HR12	HR	
MKD - LR + MKD-LR-DS-DB	—	IDH-DB/DC12	DB	
—	—	—	DG	
—	—	—	BR	
—	FCD-DS FP2-RA/RX	—	RA	2.54
—	FCD-DS FP2-RC	—	RC	
—	FCD-DS FP2-RA/RX	—	RX	
—	—	IDH-VR12	VR	3.96
—	—	—	Ribbon cable cutter	

# ID machine BCD-M5BP

(BEAM)



BCD-M5BP

## Features

- The color touch-panel indicates various information, such as the set conditions of harness length, production quantity and alarm contents.
- AC servo-motor is equipped for length measuring system. The harness length can be measured by digital method, thus, required time length adjustment can be reduced sharply.
- With the use of the new type sequence controller, high-speed production is possible, i.e. 4.8 seconds/cycle for double-ended harness when L=41mm, and 4.5 seconds for single-ended harness when L=45mm.
- By changing the termination unit, various kinds of harnesses can be produced:- JST's 0.8mm, 1.0mm, 1.5mm, 2.0mm and 2.5mm insulation displacement connectors, double-ended harnesses (both 1-N type and 1-1 type), single-ended harnesses either with stripping or cutting.

## Specifications

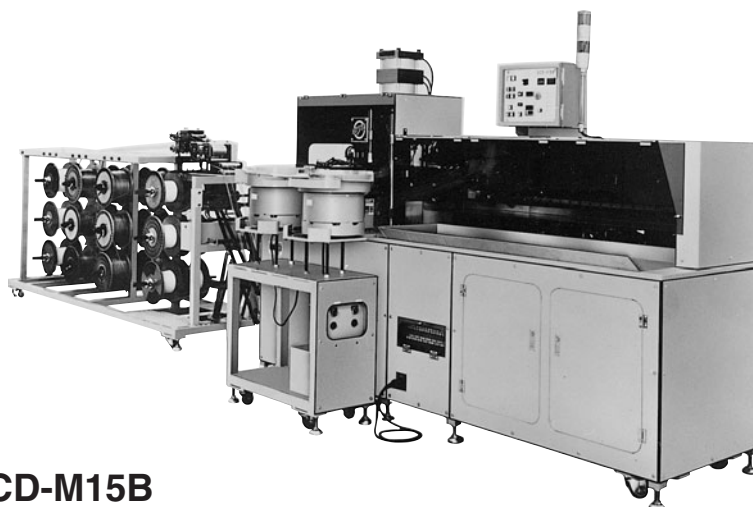
Power source	200V AC, Single-phase, 2.5kVA
Air pressure	590 to 640kPa[6 to 6.5kgf/sq.cm]
Air consumption	Approx. 450N ℓ /minute
Weight	Approx. 1,060kg(2,337 lb)
Type of harness	Double-ended harness(1-1, 1-N) Single-ended harness
Length of harness	Double-ended harness: 41 to 1,300mm Single-ended harness: 45 to 1,300mm [0.8mm pitch connector: 500mm max.]
Strip length	2.5mm, 3mm, 5mm, 10mm, [0.8mm pitch and 1mm pitch connectors: 1.5mm, 2.0mm, 2.5mm, 3mm]
Wire length accuracy	±[1mm+preset length×0.003]
Processing capacity	750 cycles/hour with double-ended harnesses at L=41mm [0.8mm pitch connector: 675 cycles/hour]
Applicable connectors	JST's 0.8mm, 1.0mm, 1.5mm, 2.0mm, and 2.5mm pitch insulation displacement connectors
Applicable wire bobbin	JIS C 3201 P-10 or P-30 plastic bobbin

### Number of harnesses to be processed simultaneously

Number of circuits					Number of harnesses
0.8mm pitch	1.0mm pitch	1.5mm pitch	2.0mm pitch	2.5mm pitch	
2 to 5	2 to 5	*2 to *5	*2 to *4	*2,*3	5
6, 7	6, 7	6, 7	5	4	4
8 to 10	8 to 10	8 to 10	6, 7	5, 6	3
11 to 16	11 to 16	11 to 16	8 to 12	7 to 10	2
17 or more	17 or more	17 or more	13 or more	11 or more	1

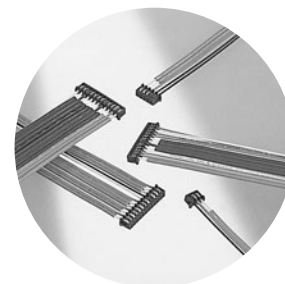
Note: With connector circuits marked\*, the number of harnesses to be processed simultaneously may be 4 sets max. depending on the type of connectors.

# ID machine SCD-M15B



**SCD-M15B**

***This SCD-M15B series machine can make the hybrid harnesses which consist of shielded wires and discrete wires that effectively reduce the crosstalk or electromagnetic interference inside of the electronic equipment.***



## Specifications

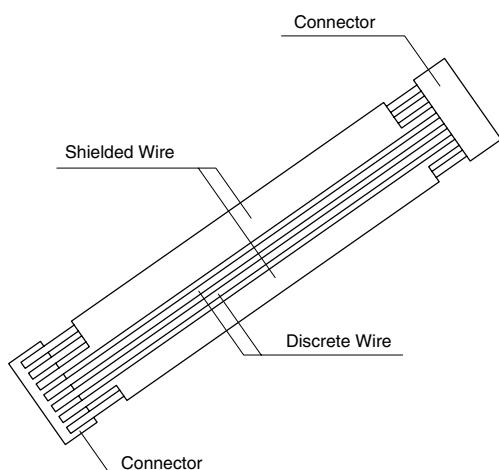
Power source	200V AC, 3-phase, 2.5 kVA				
Air pressure	600 to 650kPa [6 to 6.5 kgf/sq.cm]				
Air consumption	Approx. 600 N ℓ (5 cycles/ minute)				
Weight	Approx. 1,750kg (3,863lb)				
Type of harness	Double-ended harness				
Length of harness	100 to 1,300mm				
Wire length accuracy	± [2mm+preset length×0.003]				
Processing capacity	280 cycles/hour [when L=400mm]				
Applicable ID connectors (Note 1)	JST's 1.5mm pitch CZ, 2.0mm pitch and 2.5mm pitch connectors				
Applicable wire (Note 2)	Connector pitch	Discrete wire		Shielded wire	
		UL No.	AWG #	UL No.	AWG #
	1.5mm CZ	10272	26	1571	28
	2.0mm	1571	28, 26	1691	28, 26
		1061		2791 (Note 3)	
	2.5mm	1007	26	1691	26
				2791 (Note 4)	
Applicable wire bobbin	JIS C 3201 P-30 bobbin				

Note 1. Contact JST for details.

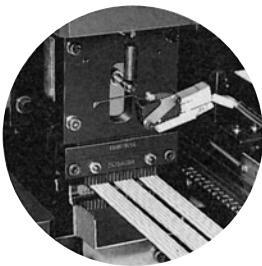
2. • Contact JST for details. Minor changes may be required depending on the type of shielded wires or the processing arrangement.
- Contact JST for other wires than the ones shown here.
3. UL2791 specially designed shielded wires with 3 conductors or less.
4. UL2791 specially designed shielded wires with 2 conductors or less.

## Number of harnesses to be processed simultaneously

Number of circuits			Number of harnesses
1.5mm pitch	2.0mm pitch	2.5mm pitch	
2 to 5	2 to 4	2 to 3	5
6, 7	5	4	4
8 to 10	6, 7	5, 6	3
11 to 16	8 to 12	7 to 10	2
17 or more	13 or more	11 or more	1



# ID machine RCD-M9BE



RCD-M9BE

*This automatic machine processes 2.0mm and 2.5mm pitch jumper wires, including cutting to predetermined length, slotting, semi- or full-stripping and kinking. It also simultaneously fits insulation displacement connectors to one or both ends of the cable.*

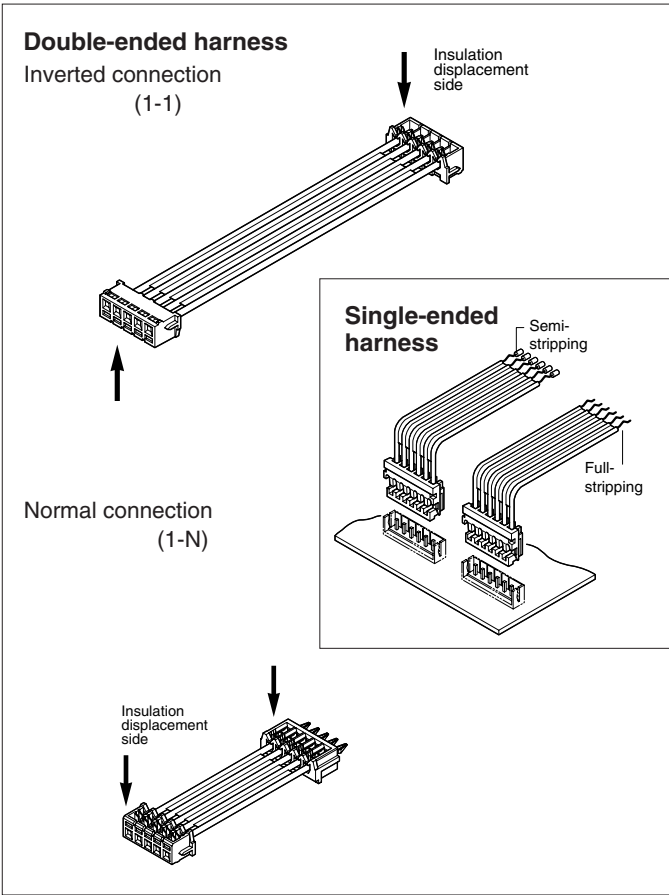
## Specifications

Power source	200V AC, 3-phase, 2.5kVA
Air pressure	590 to 640 kPa[6 to 6.5 kgf/sq.cm]
Air consumption	Approx. 500N ℓ /minute
Installation dimensions	Approx. 6,310×1,250×1,785mm
Weight	Approx. 1,100kg(2,428lb)
Type of harness	<ul style="list-style-type: none"><li>• Double-ended harnesses</li><li>• Single-ended harnesses</li></ul> <div>fitted with connectors at one end and full- or semi-stripped at the other end (kinking is possible)</div>
Length of harness	53 to 1,300mm
Strip length	Semi-stripping 5 to 13mm by every 1mm, or 0.5mm by changing some parts Full-stripping 3 to 13mm by every 1mm
Wire length accuracy	±[2mm+preset length×0.003]
Processing capacity	550 cycles/hour at L =400mm(for double-ended harnesses)
Applicable connectors	JST's 2.0mm and 2.5mm pitch insulation displacement connectors
Applicable wire bobbin	Single-row bobbin or JIS C3201 P-30 bobbin

## Number of harnesses to be processed simultaneously

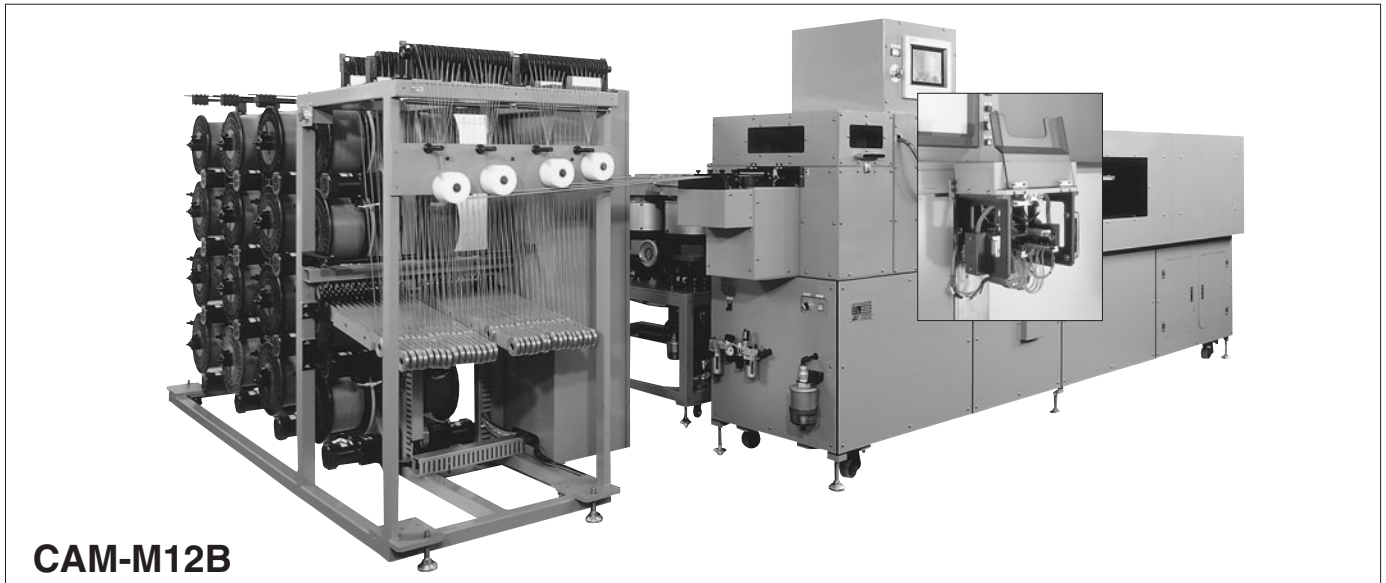
Number of circuits		Number of harnesses
2.0mm pitch	2.5mm pitch	
*2 to *4	*2 to *3	5
5	4	4
6, 7	5, 6	3
8 to 12	7 to 10	2
13 or more	11 or more	1

*Note: With connector circuits marked \*, the number of connectors to be processed simultaneously may be reduced to four, depending on the connector.*



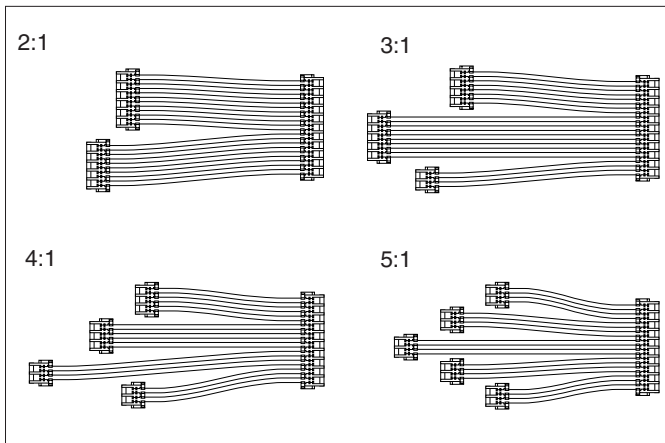


# ID machine CAM-M12B/CAM-M35B



**CAM-M12B**

**The CAM-M12B automatic machine can produce multi-harnesses.  
The moving chuck measures the wire lengths for each branch harness.**

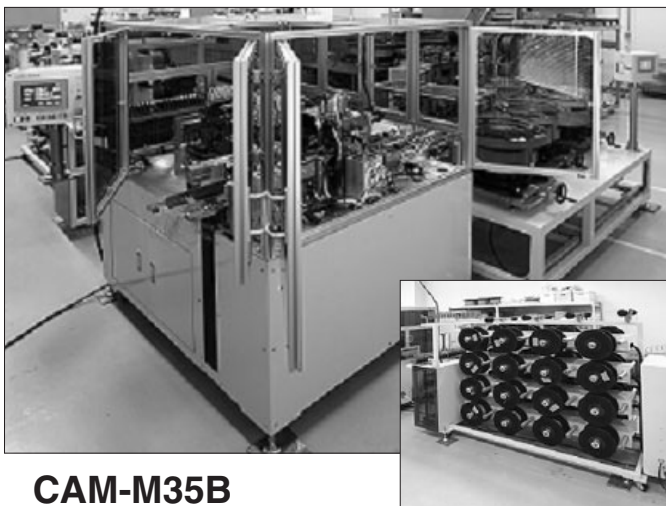


## Specifications

Power source	200V AC, 3-phase, 6kVA
Air pressure	490 to 540 kPa [5 to 5.5 kgf/sq.cm]
Air consumption	Approx. 200Nr/minute
Installation dimensions	Approx. 5,100 X 3,100 X 1,710mm
Weight	Approx. 3,600kg (7,947lb)
Type of harness	Multi type double-ended harnesses
Length of harness	120 to 2,500mm
Wire length accuracy	±[1mm+preset length X 0.003]
Processing capacity	500 cycles/hour at L = 500mm (for multi-harnesses of 1:3)
Applicable connectors	JST's 1.5mm and 2.0mm pitch insulation displacement connectors
Applicable wire bobbin	JIS C3201 P-30 bobbin

Contact JST for details.

**As for the termination method, the batch termination be cylinder is adopted at converging side and termination per circuit be servomotor is adopted at diverging side. Therefore a template is unnecessary. The roller feed method by servomotor drive to measure the wire length is adopted and 3,000 mm maximum can be measured as harness length by it.**



**CAM-M35B**

## Specifications

Model number	Main body	CAM-M35B
	Wire stand	RSU35B-R32
Power source	Main body	200 to 230 VAC, 3-phase, 6kVA
	Wire stand	200 to 230 VAC Single phase, 3kVA
Air pressure		490 to 686 kPa [5 to 7 kgf/cm <sup>2</sup> ]
Air consumption		Approx. 555Nℓ/minute
Dimensions	Main body	1,400(W) X 1,650(L) X 1,760(H) mm
	Wire stand	2,580(W) X 1,100(L) X 1,660(H) mm
	P.F. unit	1,450(W) X 1,800(L) X 1,627(H) mm
Weight	Main body	Approx. 850kg
	Wire stand	Approx. 450kg
	P.F. unit	Approx. 800kg
Harness processing type		Harness both ends 1-1 & 1-N
Harness processing length		150 to 3,000mm

Contact JST for details.