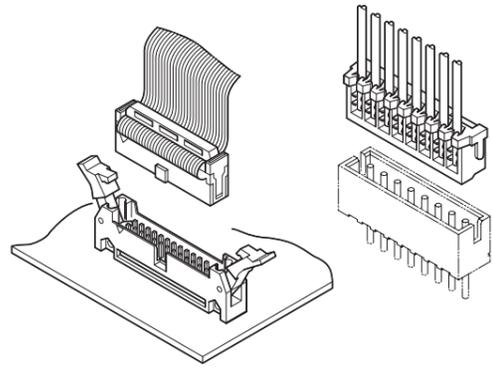


# APPLICATION TOOLING

## ID machines and tools

ID machines and tools

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 mm pitch jumper wires

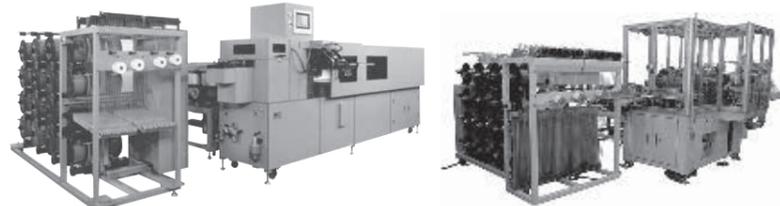
RCD-M9BE



### Auto. ID machines for multi-harnesses

CAM-M12B

CAM-M43A



**ID applicator for discrete wires and jumper wires**  
H2 series

**ID applicator for 1.27 mm pitch ribbon cables**  
HID series

**ID applicator for discrete wires and jumper wires**  
H2A series

**ID applicator for 1.27 mm pitch ribbon cables**  
FP series

**Hand press**

HPD-M2A      HPD-M2A-HID

**Specifications**

- Dimensions: (W × L × H) 130 × 280 × 383 mm
- Weight: Approx. 7 kg (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: (W × L × H) 184 × 302 × 491 mm
- Weight: Approx. 30 kg (66 lb)
- Air pressure: 490 to 690 kPa (5 to 7 kgf/sq.cm)
- Strokes: 50 max./minute
- Pressure output: Approx. 7.5 kN (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: (W × L × H) 141 × 252 × 301 mm
- Weight: Approx. 16 kg (35 lb)
- Air pressure: 490 to 690 kPa (5 to 7 kgf/sq.cm)
- Strokes: 50 max./minute
- Pressure output: Approx. 3.8 kN (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 1.27 mm 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: (W × L × H) 141 × 252 × 301 mm
- Weight: Approx. 16 kg (35 lb)
- Air pressure: 490 to 686 kPa (5 to 7 kgf/sq.cm)
- Strokes: 50 max./minute
- Applicable connectors: JST's RA, RC & RX connectors
- Pressure output: Approx. 3.8 kN (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: (W × L × H) 200 × 300 × 230 mm
- Weight: Approx. 5 kg (11 lb)
- Power source: 100/115/220/240 VAC, single-phase, 50/60 Hz
- Air pressure: 490 to 686 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: (W × L × H) 180 × 150 × 250 mm
- Weight: Approx. 10 kg (22 lb)
- Air pressure: 490 to 690 kPa (5 to 7 kgf/sq.cm)
- Dies: Dies-Main body integrated
- Strokes: 50 max./minute

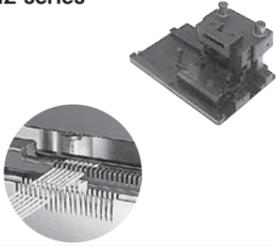
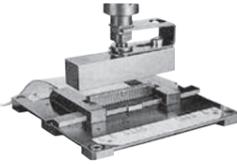
**Pistol tool for discrete wires and jumper wires**

IDB-12

<Made in Germany>

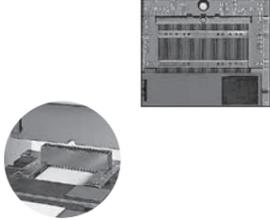
**Specifications**

- Dimensions: (W × L × H) 23 × 135 × 175 mm
- Weight: 270 g (1 lb)
- 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	-
1.25	GX	H2A-GX	H2-GX27ED-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 1)	H2A-KR/XR	H2-KR/XR20ED-X	-
	KRD	H2A-KRD	H2-KRD20DD-Y	-
	CK (Note 2)	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	-
	DS	H2-DD/DS20ED-X	H2-DD/DS20ED-X	-
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	-
2.54	RA	-	-	HID-RA/RX
	RC	-	-	HID-RC
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.

Note 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-2D	Pistol tool: IDB-12		
		Applicator	Head adaptor		
		FP series	IDH series		
					
Connector				Series	Pitch (mm)
		-	-	XSR	0.6
		-	-	SUR	0.8
		-	-	CS	1.0
		-	-	SR	
		-	-	SSR	
		-	-	ASR	1.25
		-	IDH-GX20	GX	
		-	-	CZ	
		-	-	ZR	1.5
		-	IDH-ZR12	ZR	
		-	-	ZA	
		-	-	IDH-KR12	2.0
		-	-	KR (Note1)	
		-	-	KRD	
		-	-	CK (Note2)	
		-	-	CR	
		-	IDH-DR12	DR	
		-	IDH-DA12	DA	
		-	IDH-DD/DS12	DD	
		-	-	DS	2.5
		-	IDH-NR12	NR	
		-	-	NRD	
		-	IDH-HR12	HR	
		-	IDH-DB/DC12	DB	2.54
		FCD-DS FP2-RA/RX	-	RA	
		FCD-DS FP2-RC	-	RC	
		-	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=41 mm, and 4.5 seconds for single-ended harness when L=45 mm.
- By changing the termination unit, various kinds of harnesses can be produced:- JST's 0.8 mm, 1 mm, 1.5 mm, 2 mm and 2.5 mm insulation displacement connectors, double-ended harnesses (both 1-N type and 1-1 type), single-ended harnesses either with stripping or cutting.

## Specifications

Model number	BCD-M5BP
Power source	200 VAC, Single-phase, 2.5 kVA
Air pressure	590 to 640 kPa [6 to 6.5 kgf/sq.cm]
Air consumption	Approx. 450 NL/minute
Weight	Approx. 1,060 kg (2,337 lb)
Type of harness	Double-ended harness (1-1, 1-N) Single-ended harness
Length of harness	Double-ended harness: 41 to 1,300 mm Single-ended harness: 45 to 1,300 mm [0.8 mm pitch connector: 500 mm max.]
Strip length	2.5 mm, 3 mm, 5 mm, 10 mm, [0.8 mm pitch and 1 mm pitch connectors: 1.5 mm, 2 mm, 2.5 mm, 3 mm]
Wire length accuracy	± [1 mm + preset length × 0.003]
Processing capacity	750 cycles/hour with double-ended harnesses at L=41 mm [0.8 mm pitch connector: 675 cycles/hour]
Applicable connectors	JST's 0.8 mm, 1 mm, 1.5 mm, 2 mm, and 2.5 mm pitch insulation displacement connectors
Applicable wire bobbin	JIS C 3201 P-10 or P-30 plastic bobbin

### Number of harnesses to be processed simultaneously

0.8 mm pitch	Number of circuits				Number of harnesses
	1 mm pitch	1.5 mm pitch	2 mm pitch	2.5 mm 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

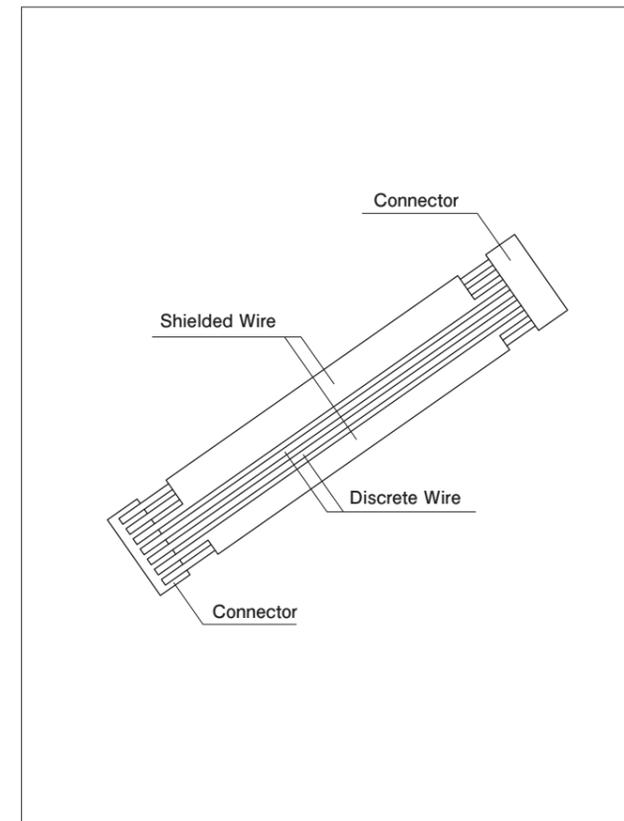
Model number	SCD-M15B				
Power source	200 VAC, 3-phase, 2.5 kVA				
Air pressure	600 to 650 kPa [6 to 6.5 kgf/sq.cm]				
Air consumption	Approx. 600 NL/minute (5 cycles/minute)				
Weight	Approx. 1,750 kg (3,863lb)				
Type of harness	Double-ended harness				
Length of harness	100 to 1,300 mm				
Wire length accuracy	± [2 mm + preset length × 0.003]				
Processing capacity	280 cycles/hour [when L=400 mm]				
Applicable ID connectors (Note 1)	JST's 1.5 mm pitch CZ, 2 mm pitch and 2.5 mm pitch connectors				
Applicable wire (Note 2)	Connector pitch	Discrete wire		Shielded wire	
		UL No.	AWG #	UL No.	AWG #
	1.5 mm CZ	10272	26	1571	28
		1571	28, 26	1691	28, 26
2 mm	1061		2791 (Note 3)		
			1691		
2.5 mm	1007	26	2791 (Note 4)	26	
Applicable wire bobbin	JIS C 3201 P-30 bobbin				

Note 1. Contact JST for details.

- 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.
- UL2791 specially designed shielded wires with 3 conductors or less.
- UL2791 specially designed shielded wires with 2 conductors or less.

### Number of harnesses to be processed simultaneously

1.5 mm pitch	Number of circuits			Number of harnesses
	2 mm pitch	2.5 mm 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 mm and 2.5 mm 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.

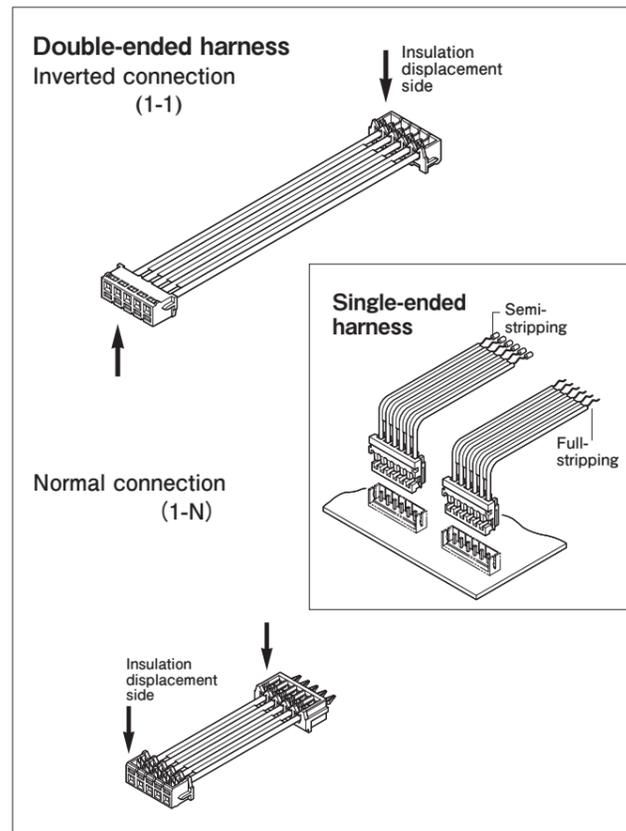
## Specifications

Model number	RCD-M9BE
Power source	200 VAC, 3-phase, 2.5 kVA
Air pressure	590 to 640 kPa [6 to 6.5 kgf/sq.cm]
Air consumption	Approx. 500 NL/minute
Installation dimensions	Approx. 6,310 × 1,250 × 1,785 mm
Weight	Approx. 1,100 kg (2,428lb)
Type of harness	• Double-ended harnesses fitted with connectors at one end and full- or semi-stripped at the other end (kinking is possible) • Single-ended harnesses
Length of harness	53 to 1,300 mm
Strip length	Semi-stripping 5 to 13 mm by every 1 mm, or 0.5 mm by changing some parts Full-stripping 3 to 13 mm by every 1 mm
Wire length accuracy	±[2 mm + preset length × 0.003]
Processing capacity	550 cycles/hour at L = 400 mm (for double-ended harnesses)
Applicable connectors	JST's 2 mm and 2.5 mm pitch insulation displacement connectors
Applicable wire bobbin	Single-row bobbin or JIS C3201 P-30 bobbin

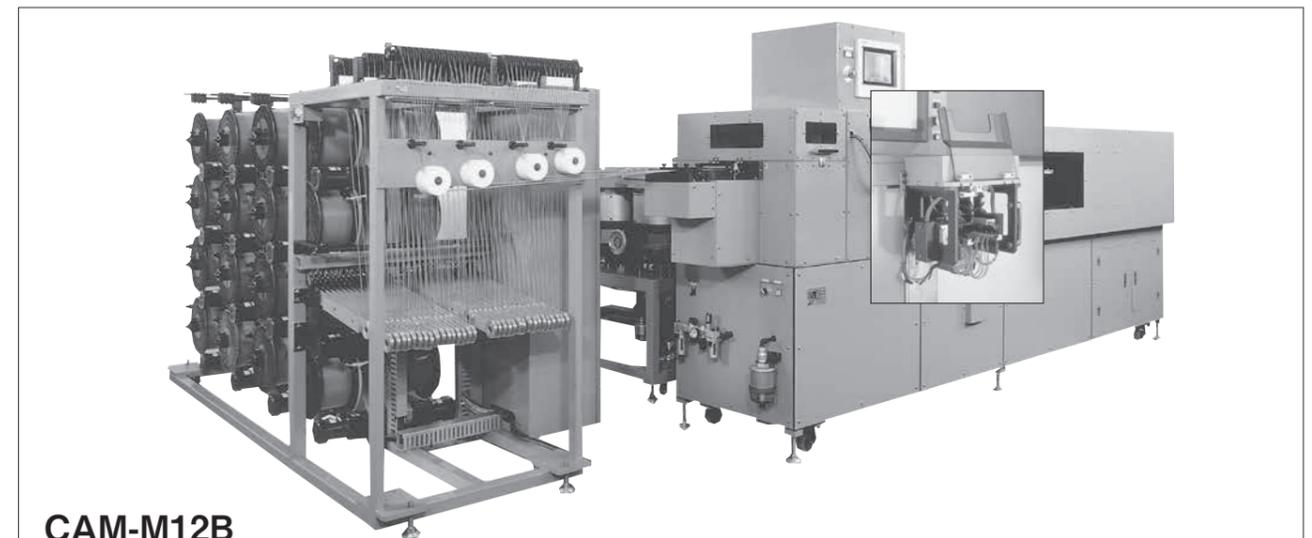
## Number of harnesses to be processed simultaneously

Number of circuits		Number of harnesses
2 mm pitch	2.5 mm 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.

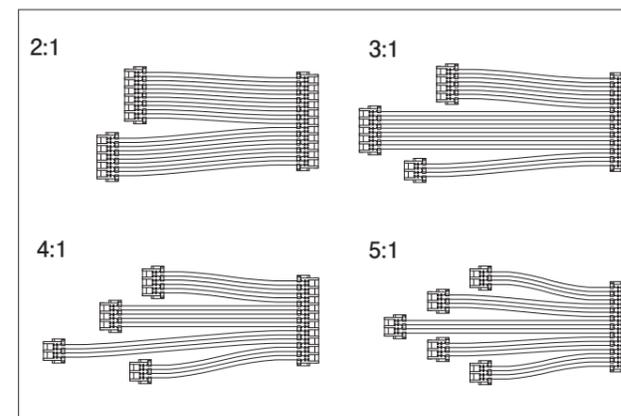


# ID machine CAM-M12B/CAM-M43A



CAM-M12B

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



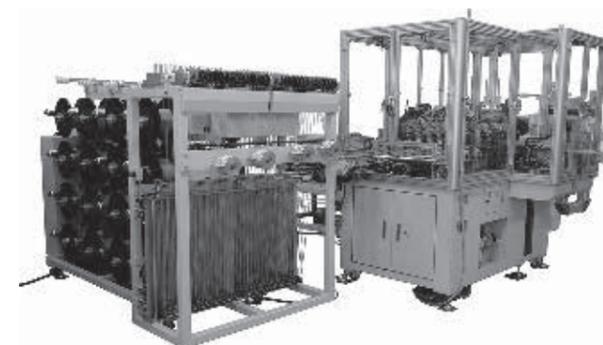
## Specifications

Model number	CAM-M12B
Power source	200 VAC, 3-phase, 6 kVA
Air pressure	490 to 540 kPa [5 to 5.5 kgf/sq.cm]
Air consumption	Approx. 200 NL/minute
Installation dimensions	Approx. 5,100 × 3,100 × 1,710mm
Weight	Approx. 3,600 kg (7,947 lb)
Type of harness	Multi type double-ended harnesses
Length of harness	120 to 2,500 mm
Wire length accuracy	±[1 mm + preset length × 0.003]
Processing capacity	500 cycles/hour at L = 500 mm [multi-harnesses (1 : 3)]
Applicable connectors	JST's 1.5 mm and 2 mm and 2.5 mm pitch insulation displacement connectors
Applicable wire bobbin	JIS C3201 P-30 bobbin

Contact JST for details.

The adoption of the batch termination at branch side and the stitching termination at converged side as the method of insulation displacement connection realizes the template-less (unnecessary template).

The adoption of roller feed method to measure the wire length realizes the processed harness length of 50 to 3,000 mm.



CAM-M43A

## Specifications

Model number	CAM-M43A	
Power source	Main body	200 to 240 VAC, 3-phase, 6 kVA
	Wire stand	200 to 240 VAC Single phase, 3 kVA
Air pressure	490 to 690 kPa [5 to 7 kgf/cm <sup>2</sup> ]	
Air consumption	500 NL /minute	
Dimensions	Main body	1,750 (W) × 1,420 (L) × 2,100 (H) mm
	Wire stand	1,150 (W) × 2,700 (L) × 1,600 (H) mm
	P.F. unit	1,300 (W) × 1,660 (L) × 1,550 (H) mm
Weight	Main body	Approx. 1,000 kg
	Wire stand	Approx. 450 kg
	P.F. unit	Approx. 450 kg
Harness processing type	Harness both ends (1 : 1) (1 : N)	
Harness processing length	50 to 3,000 mm	

Contact JST for details.