

## Mirae MR20 Series

### Single Gantry and Single Conveyor



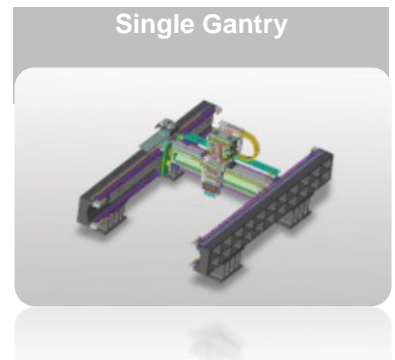
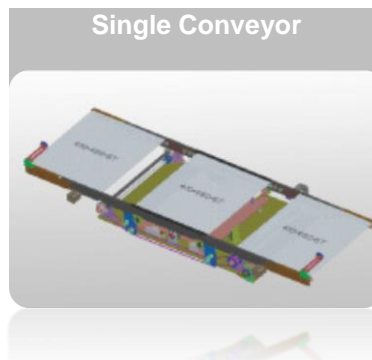
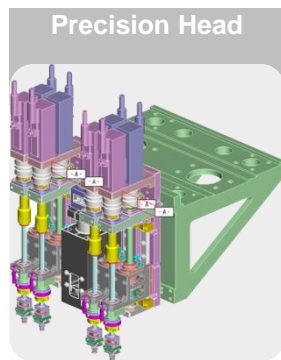
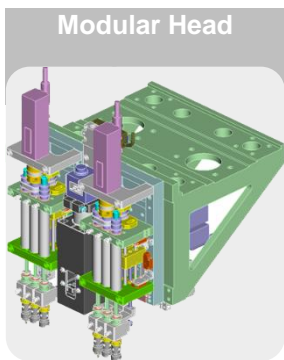
The MR Series machines are the latest chip and multifunctional machines to be released from leading manufacturer, Mirae. They are optimized for high productivity, reliability and efficiency.

#### MR20 & MR20L

- 6 axes modular head for high productivity
- 2 axes precision head for all-in-one function

#### MR20 P & MR20LP

- 4 axes precision head for flexibility
- 25mm component height



# Technical Specifications

Item		MR20	MR20P	MR20L	MR20LP
Optimal Condition	Chip (1005)	27,500CPH (0.13sec/chip)	19,500CPH (0.184sec/chip)	27,500CPH (0.13sec/chip)	19,500CPH (0.184sec/chip)
IPC-9850 Standard	Chip (1005)	21,000CPH (0.171sec/chip)	15,000CPH (0.24sec/chip)	21,000CPH (0.171sec/chip)	15,000CPH (0.24sec/chip)
	QFP 208	-	7,500CPH	-	7,500CPH
Placement Accuracy	Chip (3 $\sigma$ )	0.050mm			
	QFP (3 $\sigma$ )	0.035mm	0.025mm	0.035mm	0.025mm
Number Of Heads		6 Module (Inc. 2 P)	4 Precision	6 Module (Inc. 2 P)	4 Precision
Maximum Component Height		Module 10.5mm	Precision : 25mm	Module 10.5mm	Precision : 25mm
Component Range (FOV 36mm)	Single FOV (All Spindles)	0603~ □9mm	0603~ □11mm	0603~ □9mm	0603~ □11mm
	Single FOV (Centre Inspection)	38 x 28mm			
	Multiple FOV	~ □50mm, 90*30mm			
Minimum Lead Pitch		0.3mm			
PCB Size (L x W x H)	Minimum (L x W x T)	50 x 50 x 0.4mm			
	Single Lane	Standard	410 x 510 x 5.0mm	700 x 510 x 5.0mm	
		Option (Inline)	900(700) x 510 x 5.0mm	1,200(950) x 510 x 5.0mm	
	Dual Lane	Standard	N/A		N/A
Option (Inline)		N/A		N/A	
Conveyor Width Adjustment		Automatic Width Adjustment			
Feeder Slot	Standard	40EA (40 x 1)		60EA (60 x 1)	
	Option 1	80EA (40 x 2)		120EA (60 x 2)	
	Option 2	40EA / TF5		60EA / TF5 + 15EA or 20EA	
Power Requirements		3 Phase 200/208/220/230/240/ 380/400/415/430(V), 50/60Hz			
Power Consumption		Approx. 3 KVA			
Air Pressure		0.5 Mps		0.5 Mps	
Air Consumption		Approx. 130NI/min	Approx. 90NI/min	Approx. 130NI/min	Approx. 90NI/min
Weight		1,500Kg		1,700Kg	
Dimensions (L x W x H), Cover only		1,250 x 2,090 x 1,500 (Cover) 1,340 x 2,090 x 1,500 (Conveyor)		1,490 x 2,090 x 1,500 (Cover) 1,580 x 2,090 x 1,500 (Conveyor)	