



MR20 Series

- Single Gantry & Single Conveyor

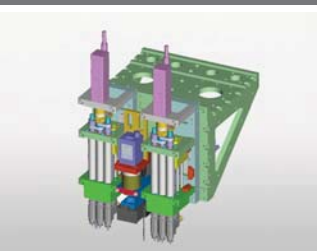


- ▶ MR20 & MR20L
 - 6 axes modular head for high productivity
 - 2 axes precision head for all-in-one function
- ▶ MR20P & MR20LP
 - 4 axes precision head for flexibility
 - 25mm component height

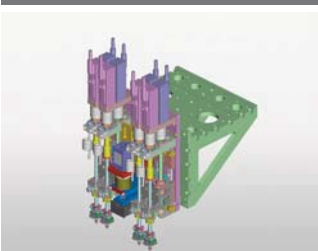
MR20 Series Specifications.

MODEL		MR20	MR20P	MR20L	MR20LP
CPH	Optimal	27,500	19,500	27,500	19,500
Head		6M(2P)	4P	6M(2P)	4P
PCB Size (mm) L x W x T	Single	Standard	410 x 510 x 5.0		700 x 510 x 5.0
		Option (2 Step)	900(700) x 510 x 5.0		1,200(950) x 510 x 5.0
Feeder Slot		Standard	40EA		60EA
		Option1	80EA (40x2)		120EA (60x2)
		Option2	40EA / TF5		60EA / TF5 + 20EA
Dimension (mm) L x W x H		1,250 x 2,090 x 1,500 (Cover)		1,490 x 2,090 x 1,500 (Cover)	

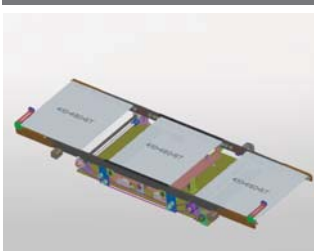
Module Head



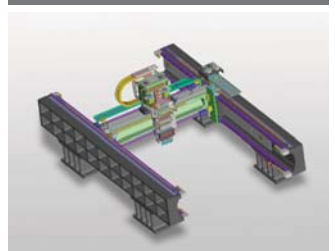
Precision Head



Single Conveyor



Single Gantry



MR Series Specifications

Item		MR20	MR20P	MR20L	MR20LP
Optimal Condition	Chip (1005)	27,500CPH (0.13sec/chip)	19,500 CPH (0.184sec/chip)	27,500 CPH (0.13sec/chip)	19,500 CPH (0.184sec/chip)
IPC-9850 Standard	Chip (1005)	21,000CPH (0.171sec/chip)	15,000 CPH (0.24sec/chip)	21,000 CPH (0.171 sec/chip)	15,000 CPH (0.24sec/chip)
	QFP (208)		7,500CPH		7,500CPH
Placement Accuracy	Chip (3 σ)	0.050mm			
	QFP (3 σ)	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		Module10.5mm	Precision : 25mm	Module10.5mm	Precision : 25mm
Component Range (FOV 36mm)	Single FOV (All Spindles)	0603 ~ □9mm	0603 ~ □11mm	0603 ~ □9mm	0603 ~ □11mm
	Single FOV (Center Inspection)	38 x 28mm			
	Multiple FOV	~ □ 50mm, 90*30mm			
Minimum Lead Pitch		0.3mm			
PCB Size	Minimum (L x W x T)		50 x 50 x 0.4mm		
	Single Lane (L x W x T)	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 (L x W x T)	Standard	N / A		N / A
Option (Inline)		N / A		N / A	
Feeder Slot	Standard		40EA (40x1)	60EA (60x1)	
	Option1		80EA (40x2)	120EA (60x2)	
	Option2		40EA / TF5	60EA / TF5 + 15EA or 20EA	
Conveyor Width Adjustment		Automatic Width Adjustment			
Power Requirements		3 phase 200 / 208 / 220 / 230 / 240 / 380 / 400 / 415 / 430 [V] , 50/60Hz			
Power Consumption		Approx. 3 KVA			
Air Pressure		0.5Mps		0.5Mps	
Air Consumption		Approx. 130NI/min	Approx. 90NI/min	Approx. 130NI/min	Approx. 90NI/min
Weight		Approx. 1,500Kg	Approx. 1,500Kg	Approx. 1,700Kg	Approx. 1,700Kg
Dimension (L x W x H), Cover Only		1,250 x 2,090 x 1,500mm (Cover) 1,340 x 2,090 x 1,500mm (Conveyor)		1,490 x 2,090 x 1,500mm (Cover) 1,580 x 2,090 x 1,500mm (Conveyor)	

* 0402mm (01005 inch) Option