SMART SOLUTIONS

i FLEX

Quality in a smart flexible package

Combining quality, intelligent flexibility, cost control and efficiency in one smart solution

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70% LESS rework costs

< 1 DPM QUALITY

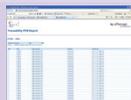*Best board quality in industry (< 1 DPM*), also 01005!*

First time right programs
- High quality CAD importers, incl. board and shape definitions
- Virtual sticky tape
- Graphical setup lists

Detailed level traceability data
- Batch and pcb traceability
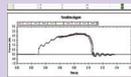- Open CAMX interface, connects to any MES system

First time right setups
- Approved parts only
- Continuous setup check

Controlled pick to place cycle
- Continuous component monitoring
- Closed loop placement force control

* lab conditions

100% setup flexibility

FLEXIBILITY

Fast flexible setups and changeovers

Setup and changeover flexibility
- Fast segmented changeovers
- Feeder anywhere and hot feeder swap
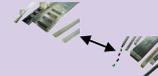- Fast feeder loading

Independent dual lanes
- Two lanes independently at different heartbeats
- NPI in one lane, volume on other lane
- Lane independent changeover and setup

Material flexibility
- Automatically adapts program when reel size, part vendor or supply-form changes

NPI flexibility for fast time to volume
- Edit last moment changes at any iFlex module
- First-time-right pick from feeders

> 20% more line throughput

EFFICIENCY

Highest line-throughput in the industry

Hardware for efficiency over all jobs, all the time
- Large component range per head
- High pick rate from feeders
- Unique tray caching for high tray output
- In machine PCB buffering positions

Reducing number of changeovers
- Clustering and feeder grouping
- Scheduling software

Highest machine availability in industry
- Continue production at errors
- Real time performance monitoring
- Designed for low maintenance

50% lower energy costs

COST CONTROL

Keep your operational costs to a bare minimum

Most products per hour
- Lowest amount of waste and scrap
- Minimum maintenance required
- Remote assisted diagnostics
- No operator training required

Lowest energy consumption
- Low mass fiber beams = low in energy
- Single head concept = low in air usage

GO GREEN

Lowest costs of recall
- Detailed traceability data
- Open CAMX interfacing (to MES)

Assembléon

assembleon.com

	iFlex T4	iFlex T2	iFlex H1
Maximum output per hour	70,000 cph	35,000 cph	9,000 cph
IPC 9850 output per hour	51,000 cph	24,300 cph	7,100 cph
Placement quality*	< 1 dpm	< 1 dpm	< 1 dpm
Placement accuracy CpK > 1	40 micron for chips	40 micron for chips	40 micron for chips
		35 micron for QFP	25 micron for QFP
Minimum component size (L x W)	0.4 x 0.2 mm (01005)	0.4 x 0.2 mm (01005)	0.6 x 0.3 mm (0201)
Maximum component size (L x W)	17.5 x 17.5 mm	45 x 45 mm	120 x 52 mm
Maximum component height	15 mm	15 mm	35 mm
Programmable placement force (lower forces on request)	1.5 to 8 N	1.5 to 8 N	4.0 to 40 N
Minimum board size (L x W)	50 x 50 mm	50 x 50 mm	50 x 50 mm
Standard maximum board size (L x W):			
- Single lane	555 x 558 mm	555 x 558 mm	555 x 558 mm
- Dual lane	555 x 254 mm (per lane)	555 x 254 mm (per lane)	555 x 254 mm (per lane)
- Dual lane in Single lane mode	555 x 460 mm	555 x 460 mm	555 x 460 mm
Optional maximum board length	845 mm	845 mm	845 mm
Board thickness	0.3 to 6 mm	0.3 to 6 mm	0.3 to 6 mm
Automatic toolbit exchange	nozzles	nozzles	nozzles, grippers
Maximum tape feeding lanes (8 mm)	64 single tapes	64 single tapes	73 single tapes
	128 twin tapes	128 twin tapes	142 twin tapes
Feeding options (other feeders on request)	tape, stick	tape, stick	tape, stick, tray, tubes, others
Data interface	CAMX	CAMX	CAMX
Footprint (L x W, excluding feeders)	1,170 x 1,844 mm	1,170 x 1,844 mm	1,170 x 1,844 mm

* Lab conditions

Increased modularity: One iFlex is 1 up to 8 modules

Typical high output line:

T4 + T4 + H1 with tray

Upto **302** feeder lanes, **30** tray positions, dual or single lane operation with outputs up to **109,000** cph

T4   T4   H1

Typical flex line:

T2 + T2 + T2 + H1 with tray

Upto **452** feeder lanes, **30** tray positions, dual or single lane operation with outputs up to **80,000** cph

T2   T2   T2   H1

Typical high volume flex line:

T4 + T4 + T2 + T2 + H1 with tray

Up to **580** feeder lanes, **30** tray positions, dual or single lane operation with outputs up to **157,100** cph

T4   T4   T2   T2   H1

ASIA-PACIFIC
Assembléon Asia Limited
T: +852 2167 1000

EUROPE
Assembléon Netherlands B.V.
T: +31 40 272 3000

THE AMERICAS
Assembléon America Inc.
T: +1 770 751 4420

assembleon.com

Assembléon