

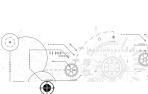
Plot Number 43, Sector 5, IMT Manesar, Gurgaon - 122050, Haryana, India e: info@yontro.com; p: +91 9871008473, 9717389287

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The age of efficiency is here. It demands absolutely that you extract your money's worth, from every piece of equipment that you utilize. Throughout the entire Production industry, professionals on the firing line are determined to replace antiquated elements of their facilities, with sophisticated up-to-date equipment.

Archaic methods and technique are a profit drain, which no one can afford to accept or overlook anymore. Consequently, plants are re-evaluating the importance of bottom line price, considering it less as an end to itself, and more as an element of cost reduction through improved production.

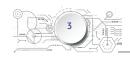
Production professionals are committed like never before to maximising operational efficiency by upgrading the backward elements of their facilities.

At Yontro, it is our endeavour to supply the most efficient equipments to the production professionals. Striking the right cord between the cost of equipment, maximum throughput and minimum down time.











WAVE SOLDERING MACHINE—FINGER CONVEYOR

MODEL WSM 350 FC LF



GENERAL		
Power Supply	380V AC, 50 Hz 3 Ph, 15 KW	
Dimensions (With Conv.Length)	L-3300 W-1220 H-1550 mm	
Weight	1050 Kg	
Construction	Floor Model	
Control Touch Screen (PLC+HMI)		
SOLDER BATH		
Solder Bath Capacity	300 Kg	
Wave Width	350 mm	
Max. Wave Height	O-10mm	
Warm up Time	75 min	
Solder Bath Power	8.0 KW	
SPRAY FLUXER		
Air Supply	Clean Dry & Oil Free Air at 4-6 bar, 100- 120 Lt/min	
Nozzle Air Consumption	40 Lt /min at 1 bar	

FOAM FLUXER & AIR KNIFE

Spraying Width

Spray Angle

Glider Speed

Flux Spray Pressure

1 O/M 1 Pao/Lett o / Mt ttim 2		
Flux Capacity 4.5 Ltr.		
Air Supply	Clean Dry & Oil Free Air at 5 bar, 900 Lt/min	
CONVEYOR		
Conveyor Speed	0-2.5 M/min	
Conveyor Angle	4-10 degrees stepless	
PRE-HEATER		
Pre Heater Length	1200 mm	
Zones	N3	

0-3.0 bar

GENERAL

- · Available in Lead Free Soldering
- · Finger type conveyor for Carrier less PCB Transport
- · Dual Wave in Single Bath
- Touch Screen Control (HMI + PLC Control)
- · Choice of Spray or Foam Fluxer
- · Dual Exhaust Hood with 6 inch blower

SOLDER BATH

- · Choice of SS 316, Nitride coated or Ti Solder Pot
- · Adjustable Wave width for minimum Dross
- · Interval sensor with timer mode
- · Solder pump driven by AC 3 ø Motor
- · Wave Height Control through VFD
- \cdot PID controller for accurate temperature controls

PRE-HEATER

- · Three Stage Hot air convection pre-heater zone
- \cdot PID Controller for accurate Temperature Control

FOAM FLUXER WITH AIR KNIFE

- · SS 304 construction
- · Special Plastic Foaming Tube
- · Interval sensor with timer mode
- · Fitted with air filter, regulator and indicator
- · External air supply required
- · Upgradable to spray fluxer as well

CONVEYOR

- · Carrier less Conveyor
- · Choice of SS or Ti Finger
- · Automatic Finger cleaning with magnetic pump
- · Conveyor Driven by AC 3 ø Motor
- · Conveyor speed control through VFD
- · Step-less angle adjustment





Pre Heater Power



6.5 KW



Full Cone dia. of 60mm at spray distance

50 to 95 degree (75 degree at 1 bar)

0-20 M/min, 0-300mm travel







WAVE SOLDERING MACHINE—CARRIER TYPE

MODEL WSM 300 D



GENERAL			
Power Supply	440V AC, 50 Hz 3 Ph, 12.0KW		
Dimensions (With Conv.Length)	L-3550 W-1100 H-1550 mm		
Weight	850 Kg		
Construction	Floor Model		
Wave Width	300 mm		
Control Option	Touch Screen / Discreet		
SOLDER BATH			
Solder Bath Capacity	115 x2=230Kg		
Max. Wave Height	O-8mm		
Warm up Time	90 min		
Solder Bath Power 3.6 x 2= 7.2KW			
SPRAY FLUXER			
Air Supply	Clean Dry & Oil Free Air at 4-6 bar, 100-120 Lt/min		
Nozzle Air Consumption	40 Lt /min at 1 bar		
Spraying Width	Full Cone dia. of 60mm at spray distance of 60mm		
Spray Angle	50 to 95 degree (75 degree at 1 bar)		
Glider Speed 0-20 M/min, 0-300mm travel			
Flux Spray Pressure	0-3.0 bar		
FOAM FLUXER & AIR KNIFE			
Flux Capacity	4 Ltr.		
Air Supply	Clean Dry & Oil Free Air at 5 bar, 900 Lt/min		
CONVEYOR			
Conveyor Speed	0-2.5 M/min		
Conveyor Angle	4-10 degrees stepless		
PRE-HEATER O			

900 mm

4.5 KW

Pre Heater Length
Pre Heater Power

GENERAL

- · Available in Lead Free Version
- · Carrier type Conveyor
- Choice of Touch Screen (PLC+HMI) or Discreet Controller
- · Choice of Spray or Foam Fluxer
- · Dual Exhaust Hood with 6 inch blower

SOLDER BATH

- · High Grade SS Solder Pot
- Independent Solder Bath for Laminar Wave and Jet Illave
- · Choice of purchasing single or dual wave machine
- · Solder pump driven by AC 3 ø Motor
- · Wave Height Control through VFD
- · PID controller for accurate temperature control
- · Interval sensor with Timer

PRE-HEATER

- · Hot air convention pre heater
- · PID controller for accurate temperature control

FOAM FLUXER WITH AIR KNIFE

- · High Grade SS construction
- · Special Plastic Foaming Tube
- · Interval sensor with Digital Timer
- · Fitted with Air filter, regulator & indicator
- · External air supply required

CONVEYOR

- · Chain Type Conveyor
- · High Grade aluminum profile
- · Conveyor Driven by AC 3 ø Motor
- · Conveyor speed control through VFD
- · Step less angle adjustment







WAVE SOLDERING MACHINE—TABLE TOP

MODEL WSM 300 TT



GENERAL			
Power Supply	440V AC, 50 Hz 3 Ph, 8.5 KW		
Dimensions (With Conv.Length)	L-2650 W-900 H-850 mm		
Weight	300 Kg		
Construction	Table Top Model		
Control	Discreet		
SOLDER BATH			
Solder Bath Capacity	115 Kg		
Wave Width	300 mm		
Max. Wave Height	O-8mm		
Warm up Time	70 min		
Solder Bath Power	3.5 KW		
FOAM FLUXER & AIR KNIFE			
Flux Capacity	4 Ltr.		
Air Supply	Clean Dry & Oil Free Air at 5 bar, 900 Lt/min		
CONVEYOR			
Conveyor Speed	0-2.5 M/min		
Conveyor Angle	4-7 degrees in steps of 1 degree		
PRE-HEATER			
Pre Heater Length	700 mm		
Pre Heater Power	4.5 KW		

FEATURES

GENERAL

- · Available in Lead Free Version
- · Carrier type Conveyor
- · Singe Solder Bath with choice of Lambda or Jet Wave
- · Discreet Controller
- · Foam Fluxer
- · Dual Exhaust Hood with 6 inch blower

SOLDER BATH

- · High Grade SS Solder Pot
- · Solder Bath available for Laminar Wave and Jet Wave
- · Solder pump driven by AC 3 ø Motor
- · Wave Height Control through VFD
- · PID controller for accurate temperature control
- · Interval sensor with Timer

PRE-HEATER

- · Hot air convention pre heater
- · PID controller for accurate temperature control

FOAM FLUXER WITH AIR KNIFE

- · High Grade SS construction
- · Special Plastic Foaming Tube
- · Interval sensor with Digital Timer
- · Fitted with Air filter, regulator & indicator
- · External air supply required

CONVEYOR

- · Chain Type Conveyor
- · High Grade aluminum profile
- · Conveyor Driven by AC 3 ø Motor
- · Conveyor speed control through VFD
- · Angle adjustment in steps of 1 degree













REFLOW SOLDERING MACHINE - 6 ZONE / 8 ZONE



Model Features	YMS-6600-LF	YMS-8800-LF	
Moder realities	11413-0000-L1	11413-0000-L1	
Heating Zone Length	2900 mm	3600 mm	
Dimension	L-3950 W-1250 H-1500 mm	L-4700 W-1250 H-1500 mm	
Weight	1300 Kg	1750 Kg	
Power Supply	440V AC, 50 Hz, 3 Ph,	440V AC, 50 Hz, 3 Ph,	
Power- Start up	28 KW	38KW	
Power - Operation	8 KW	12 KW	
Heating Time	80 minutes	80 minutes	
Control Type	Touch Screen Control (PLC+HMI)		
Heat Type	Upper/Bottom Zones -Forced Hot Air Convection		
Temperature Control	Close Loop PID + SSR		
Temperature Range	Ambient - 350 Degree C		
Temperature Accuracy	+/- 2 Degree C		
Cooling	Fan Cooling Outside Tunnel	Fan Cooling Outside Tunnel	
Conveyor Type	Stainless Steel Mesh Belt + Pin Chain Conveyor		
Conveyor Height	900 mm +/- 20 mm		
Conveyor Speed	0-1.8 M/min		
Conveyor Direction	Left to Right		
Belt Width	450 mm		
PCB Size	50-350 mm		
PCB Clearance -Height	25 mm		
Solder Type	Lead Free / Leaded Solder		







- · Touch Screen Operation (PLC+HMI Control)
- · Forced Hot air convection.
- · Stainless Steel Wire mesh conveyor
- · Pin Chain Conveyor driven on aluminium alloy profiles
- Designed for high rigidity and less distortion
- Motorised Hood Lifting
- Independent PID Control for each top & bottom heating zones
- · Three Channel Built in Profiler
- Central oil reservoir system for chain lubrication
- · Battery Back-up for Conveyor (UPS)



REFLOW SOLDERING MACHINE — TABLE TOP

MODEL YMS 5500 TT



SPECIFICATIONS		
Model/Features	YMS-5500-TT	
Machine Type	Table Top Model	
Heating zones	3 Top + 2 Bottom	
Heating zone length (mm)	1000 mm	
Dimensions (mm)	L - 1400 W - 700 H - 650	
Weight	150 Kg	
Power supply	440V AC, 50 Hz, 3 Ph	
Power	5.0 KW	
Heating time	20 min	
Control type	Discreet control	
Heat Type	Upper/Bottom Zones -Forced Hot Air Convection	
Temperature Control	Close Loop PID + SSR	
Temperature Range	Ambient - 300 Degree C	
Temperature Accuracy	+/- 2 Degree C	
Cooling	Fan Cooling external	
Conveyor Type	Stainless Steel Mesh Belt	
Conveyor Height	300 mm +/- 20mm	
Construction	Table top model	
Conveyor speed	0-1.2 Mtr/Min	
Conveyor Direction	Left to Right	
Belt width	300 mm	
PCB Size	Up-to 300 mm	
PCB Clearance -Height	25 mm	
Solder Type	Lead Free / Leaded Solder	



- · Discreet Control
- · Forced Hot air convection.
- · Stainless Steel Wire mesh conveyor
- Independent PID Control for each top & bottom heating zones











SEMI-AUTOMATIC STENCIL PRINTER





Model Features	YMS-680-SP	YMS-1200-SP	
Description	Suitable for printing solder paste and glue for all kinds of thick or thin PCB (Single or Double)		
Power Requirement	220V AC, 50 Hz, 1 Phase		
Power Consumption	150 W		
PCB Thickness Range	0.2 - 3.0 mm		
Table Adjustment	Front/Back +/- 10mm R/L +/- 10)mm	
Fine Adjustment of Platform	+ 0.05 mm		
Respectable Precision	+ 0.02 mm		
Air Supply	4 - 6 Kg/cm sq		
Control	Touch Screen (PLC+HMI)		
Squeegee Motor Speed	Settable from 10 to 70 mm/sec		
Temperature Range	Ambient - 350 Degree C		
Printing Platform	320 x 500 mm	320 x 1270 mm	
Stencil Dimension	370x470 to 550x650mm	370x470 to 1400x470mm	
PCB Dimension	450 x 300 mm	1200 x 300 mm	
PCB Positioning Method	PCB Outer or Positioning Pin	PCB Outer or Positioning Pin	
Squeegee Motor Speed	Stencil Movement Stencil Movement		
Dimension	L-900, W-700, H-1500mm	L-1700, W-700, H-1500mm	
Weight	250 Kg	300 Kg	

- PLC control with Touch Screen offering high reliability and ease of operation
- High Precision Dual Linear Guides for smooth and perfect movement of Squeegee Head
- This printer can automatically set the running parameters to comport with all kind of products and get best performance according to different characteristic of glue and solder paste.
- Adjustable Squeegee angle up-to 30° for both Squeegees
- Flexible stencil arms can be adjusted toward right or left to match different size of PCB.
- The squeegee head can be tilted to 45¹² upward then fixed, for convenient cleaning & replacement of squeegee and stencils.
- \cdot Fine X, Y ,0 adjustments conveniently located for easy alignment of PCB with stencil
- Dual Squeegee head with controllable squeegee pressure
- Programable Snap off distance and speed

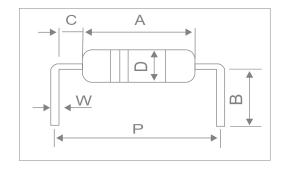


FOR HORIZONTAL CUTTING AND BENDING OF AXIALS

Model: UAP 850 H

Automatic Cut & Bend Machine for Taped Axials Heavy (Thick Lead)





DIM	UAP850/MAP860	UAP850 H
Α	3.5-12.0	3.5-12.0
В	3.0-20.0	3.0-20.0
С	1.3/1.0 min	2.0 min
D	Ø3.0-Ø10.0	Ø3.0-Ø10.0
W	Ø 0.5- Ø 0.8	Ø 0.5- Ø 1.2
Р	A+2C+W	A+2C+W

SPECS	MAP 860	UAP 850	UAP 850 H
Output	10000-18000 pcs/hr	1 4000 pcs/hr	12000 pcs/hr
Power		220V AC, 50 Hz, 100W	220V AC, 50 Hz, 200W
Dimensions	L-160 W-160 H-155 mm	L-330 W-160 H-155 mm	L-330 W-160 H-155 mm
Weight	3 Kg	10 Kg	15 Kg

Model: MAP 860

Manual Cut & Bend Machine for Taped Axials

Model: UAP 850

Automatic Cut & Bend Machine for Taped Axials

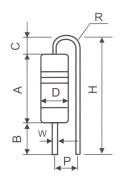


FOR VERTICAL CUTTING AND BENDING OF AXIALS

Model: MAP 301 V

Manual Forming for Taped Axials in Vertical Configuration





A	4-18
В	2.5-10
С	3 min
D	1.5-8
W	0.35-1
Р	2.5-13.5
Н	A+B+C

Model: UAP 301 V

Automatic Forming for Taped Axials in Vertical Configuration

SPECIFICATIONS			
MODEL	MAP-301V	UAP-301V	
Output	10000-18000 pcs/hr	14000 pcs/hr	
Power		220V AC,	
50 Hz, 100W			
Dimensions	L-200 W-280 H-200 mm	L-500 W-180 H-220 mm	
Weight	5 Kg	20 Kg	

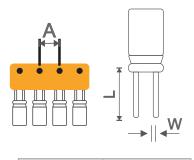


FOR TAPED RADIALS CUTTING

Model: MAP 850 R

Manual Forming for Taped Radials





A	12.7/15.0
L	3.0-20.0
W	Ø 0.4 -Ø 0.8

Model: UAP 850 R

Automatic Forming for Taped Radials

SPECIFICATIONS			
MODEL.	MAP 860 R	UAP 850 R	
Output 10000-14000 pcs/hr		8000 pcs/hr	
Power		220V AC, 50 Hz, 100W	
Dimensions	L-160 W-160 H-155	L-330 W-160 H-155 mm	
Weight	3 Kg	10 Kg	



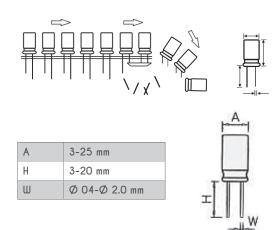




FOR LOOSE RADIALS CUTTING

Model: ARP 360 Loose Radial Lead Cutter





	MODEL'	ARP 366	ARP 360
	Output	100-250 pcs/min	100-200 pcs/min
	Power	220V AC, 50 Hz, 40W	220V AC, 50 Hz, 100W
Model: ARP 366 Automatic Loose Radial Lead Cutter with Bowl	Dimensions	L-1100 W-650 H-1050 mm	L-500 W-400 H-450 mm
feeder and Trolley	Weight	145 Kg	30 Kg

SPECIFICATIONS







DIGITAL SLEEVE CUTTING MACHINE

Model AWS 300



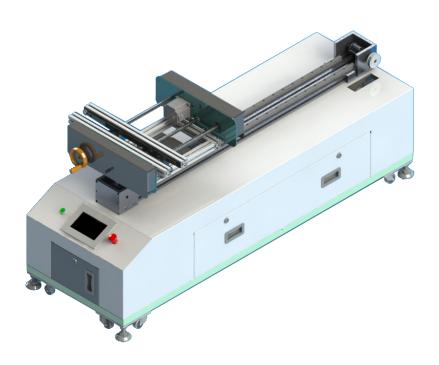
SPECIFICATIONS		
Cutting Length	0 - 9999.9 mm	
Cutting Width	2 - 300	
Cutting Speed	10800 cycles per hour	
Dimensions	L-600 W- 400 H- 300 mm	
Weight	45 Kg	
Power	220V AC, 50 Hz, 200 W	

FEATURES

- · Suitable for Cutting
 - · PVC & Nylon Sleeves
 - · Heat Shrinkable Tube
 - · Flat Ribbon Cable
 - Ni Strip and Grid for Lithium ion battery spot welding
- · Stepper Motor Driven
- · Accuracy +/- 0.5mm (depending on material)
- · PU Roller and HSS blade for Ni strip

SHUTTLE CONVEYOR

Model: YMS-BH-SH-17060



SPECIFICATIONS		
Power Supply	220V AC, 50 Hz 1 Phase	
Power Consumption	500W max	
Dimensions	L-600 W-1800 H-1100 mm Customised width available as per traverse distance required	
Weight	110 Kg	
Control	Touch Screen (HMI+PLC)	
PCB Width	50-350 mm	
Conveyor Height	750mm for Wave Soldering machine and 900mm for Reflow	
Speed	O-800mm/min	
PCB Thickness	0.5mm to 3.0mm	
Communication	SMEMA Plux (optional)	

APPLICATION

- Wave Soldering Machine For transporting the output from a dual track MI Line to input conveyor of the Finger type Wave Soldering Machine.
- Reflow Soldering Machine For transporting the output of two Pick & Place machine onto the dual track Reflow oven.

- · User friendly touch panel control
- PCB width adjustment through Manual lead screw mechanism or motor driven (optional)
- Carriage and PCB conveyor drive through stepper motor
- PLC Control















LOW COST SOLDERING EQUIPMENTS

Model: DIP 905

Automatic DIP Soldering Machine



SPECIFICAT	IONS	
Bath Size	14" x 14"	18" x 14"
Solder Capacity	35 Kg	45 Kg
Power Supply 220 V AC, 50 Hz		220 V AC, 50 Hz
Heater Power	3.2 KW	4.0 KW
Heat up Time	35 min	35 min
Bath Depth	50mm	50mm
Dimensions	L-690 W-460 H-360mm	L-790 W-460 H-360mm
Weight (without solder)	45 Kg	50 Kg
Standard Accessories		PCB Carrier-1 no
		Scrapper- 1 no
		L/N Key Kit- 1 set

FEATURES

- · Digital Temperature Controller for Solder Bath
- · Electronic Timer for setting dwell (solder) time
- · Easy mechanical adjustments for depth setting
- \cdot Versatile PCB Carrier for fixing multiple PCB's





SPECIFICAT	IONS	
General	Dimensions	L-775 W-525 H-375 mm Channel Length-1200mm
	Weight	25 Kg
Flux Bath &	Foam Width	350 mm
Air Knife	Foam Height	10 mm
Pre-Heater	Power Supply	220V AC, 50 Hz, 1.6 KW
Standard Accessories	PCB Carrier	1 no
Utilities	Air Supply	Compressed air with FR unit

FEATURES

- · For fluxing and Pre heating PCB's before soldering
- · Carrier supplied compatible with Model DIP 905
- · Manual carrier movement on conveyor rails
- · Digital Temperature controller for pre-heater

Model: DSP 925 Solder Pot



Pot Size	Dimension (mm)	Weight	Power	Solder Capacity
6.0" x 6.0"	555 x 255 x 230	13 Kg.	220V, 50 Hz, 900W	8 Kg
8.0" x 8.0"	610 x 300 x 230	15 Kg	220V, 50 Hz, 1200W	13 Kg
10.0" x 10.0"	770 x 210 x 230	22 Kg	220V, 50 Hz, 1400W	20 Kg

- · For fluxing and Pre heating PCB's before soldering
- · Carrier supplied compatible with Model DIP 905
- · Manual carrier movement on conveyor rails
- · Digital Temperature controller for pre-heater



MANUAL FEED PCB LEAD CUTTING MACHINE

Model: LC M 66

Manual Feed PCB Lead Cutting Machine



SPECIFICATIONS		
Suitable for Tungsten Carbide Blade	ID- 70 mm , OD - 200 mm & 250mm both size	
Thickness of PCB	0.8mm to 2.5mm	
Max. PCB Size	500mm (L) x 300mm (W)	
Power	220 V AC, 50 Hz	
Main Spindle Speed	4500 RPM	
Main Motor Power	□ HP	
Cutting Height	0.6 mm Minimum	
Weight	95 Kg	

FEATURES

- The machine is designed to trim the extra leads of PCBA after the soldering process
- The fast turning tungsten carbide blade cuts the wire leads while the PCB are fed on the machine track manually
- For safety, it is absolutely required to push the PCBA by handle

Model: LC G 250

Cutting Blade Sharpening Machine



SPECIFICAT	IONS
Angle of sharpening	18° - 25°
Dimension of blade	Max. Ø 250
Speed of blade revolving	2500 RPM
Grinding Wheel Type	Diamond Wheel
Power supply	AC 220V, 50Hz
Weight	125 KG

FEATURES

- Blade cutter grinder is a grinding equipment for tungsten steel blades of circuit board cutting m/c.
- Complete enclosed design, grinding dust to be discharged and collected.
- Use of high precision parts, Diamond grinding wheel, good grinding consistency.
- Adjustable grinding angle, smooth speed, low noise and high efficiency.

Model: PAJ 450 PCB Assembly Jig (PCB Size 400 x 300 mm) Model: YMS 901 D Digital Soldering Station Model: DSP 909 D

Digital Soldering & De-soldering station



















CONVEYOR SYSTEMS

MOTORISED DOUBLE SIDED MI LINE



MANUAL DOUBLE SIDED MI LINE



INPUT CONVEYOR FOR WAVE SOLDERING SINGLE SIDED



MOTORISED SINGLE SIDED MI LINE



MANUAL SINGLE SIDED MI LINE



INPUT CONVEYOR FOR WAVE SOLDERING DOUBLE SIDED



CONVEYOR SYSTEMS



OUTPUT WAVE COOLING CON-VEYOR ANTISTATIC PVC BELT



LINKING / INSPECTION CONVEYOR



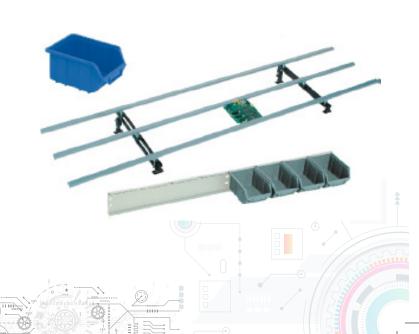
LEAD CUTTING TABLE



OUTPUT WAVE COOLING CONVEYOR SS MESH BELT



MANUAL PCB INSERTION CHANNEL FMC 350







CONVEYOR SYSTEMS

ASSEMBLY / TOUCH UP BELT CONVEYOR WITH DOUBLE SIDE WORKING PLATFORM



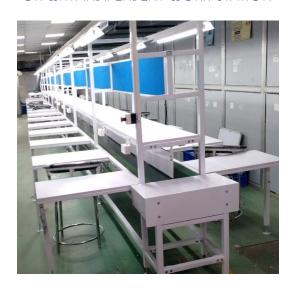
FINAL ASSEMBLY MOTORISED FREE FLOW CONVEYOR



AGEING CONVEYOR - RING TYPE



ASSEMBLY / TOUCH UP BELT CONVEY-OR WITH INDIPENDENT WORK STATION



FINAL ASSEMBLY MANUAL FREE FLOW CONVEYOR WITH BALL TRANSFER TABLE



AGEING CONVEYOR - SLAT / BATTEN TYPE



