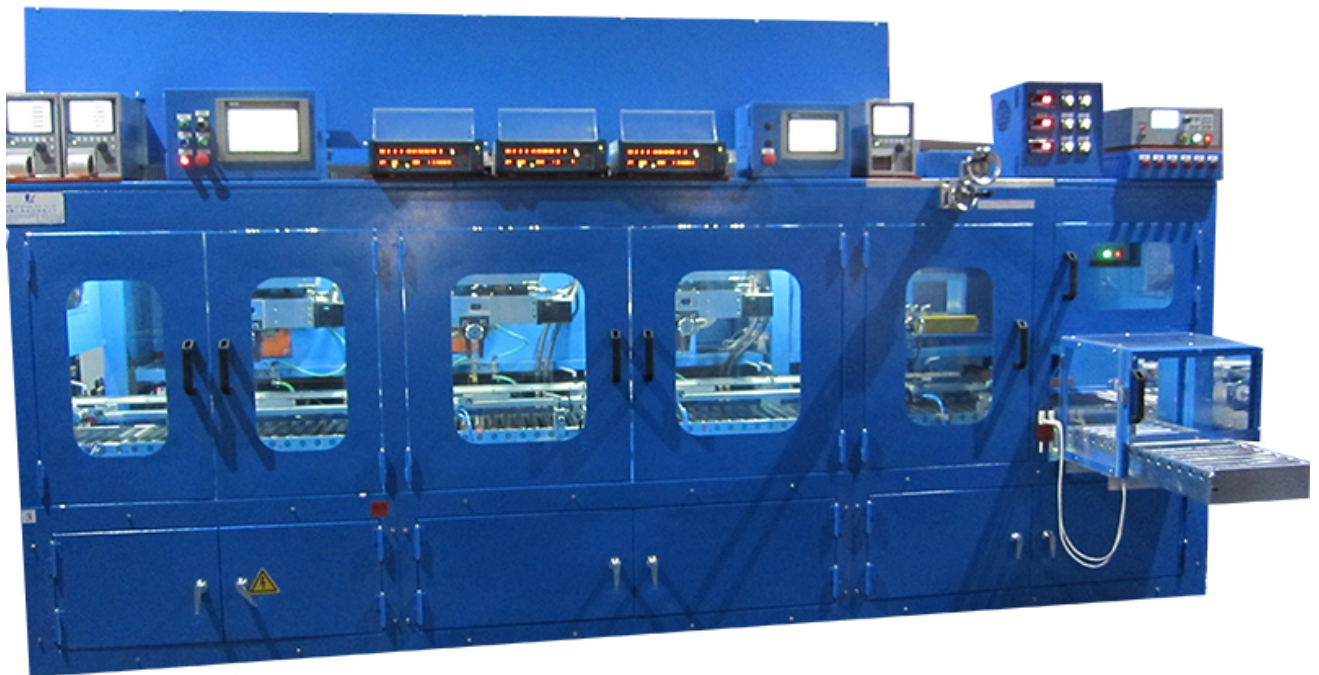




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## Welding & Short Circuit Testing Machine for AMB

TCKS-3AC (R)



### Description

TCKS-3AC(R) is specially designed to high strength TTP welding for all types of SLI lead acid battery. This machine is equipped with 3 welding heads which squeezing power is generated by individual hydraulic power. Connector (Flag) alignment structure is combined with welding head to give straight position of connector while welding is carried out for reducing splash possibility. Short Circuit Testing is equipped after 3 TTP welding stations. A unique wiring diagram is equipped which is capable to check

- a.) Cell no Contact
- b.) Testing Jig Wiring Connection
- c.) Testing Probe No Contact with Element



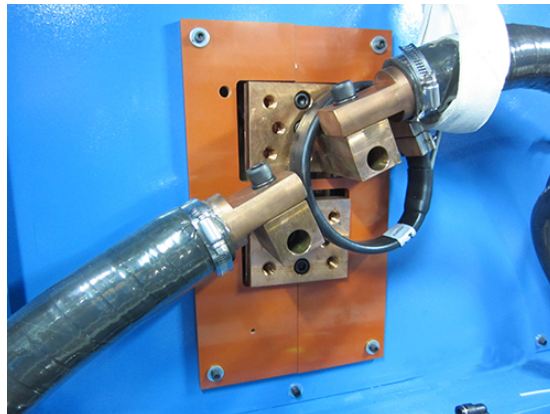
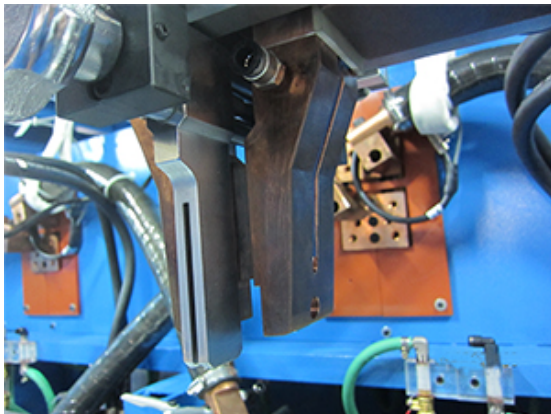
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## Feature

- \* Capable to work 1x6 & 2x3 layout
- \* Individual hydraulic system with 80KVA transformer on each station
- \* 3 axis servo control welding head
- \* Close-loop cooling water circulation on welding jaw, transformer, SCR & oil tank
- \* Temp. control on jaw, SCR, & oil tank
- \* Connector/Flag alignment system
- \* Rigid roller conveyor with battery central system to avoid scratch
- \* HMI Control with receipt memory
- \* Easy change-over & Integrated operation safety system
- \* Short test tooling could be universal type or individual model
- \* Defected battery alarm with cell indication
- \* Equipped with rejection station
- \* Equipped with auto-stop at no feeding and auto-start at re-feeding system
- \* Welding controller & Current monitor
- \* Advanced Element Tester with peak 3,000 testing volts
- \* At short test, testing probe no contact detection

## Optional

- \* Mounted load cell to check hydraulic cylinder output pressure
- \* Proportional valve + electric ruler
- \* Chain conveyor system
- \* Implementation of production traceability





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SPEC	TC
Full auto servo / no operator	V
DC / AD solutions	V
Miyachi Spot welding Accuracy	±2%
Capacity	4.3 batts /min
Three-stage weld type	V
Welding schedules	15
Current monitor/power angle monitor	V
Auto connection filter	V
Hole Diameter	8-16mm
Welding tongs	1/2/3
High current pulse	V
Welding tips design (oval / circle)	V
Welding Parameters	V
Hydraulic cylinder squeezing pressure	V
Independent hydraulic & cooling systems	3
Automatic lug Alignment	V
Quick set up for jaw distance	V
Auto Integration Jaw / Tongs Distance Control	V
Auto welding tip usage control	V
Integration cooling system {chiller}	V
Temperature monitor on welding jaw / hydraulic oil	V
Number of recipes	V



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<b>Hardware Specification</b>			
<b>Application</b>	All SLI automotive battery (1x6, 2x3, 10V, 8V, 6V, tubular & inverter battery)	<b>PLC Sequencer</b>	customization
<b>Servo Drive</b>	customization	<b>Pneumatic</b>	SMC/Air Tac
<b>Transformer</b>	80KVA	<b>Electricity</b>	380V/415V-50Hz/3P (Customization)
<b>Installation Power</b>	100KVA	<b>Compressed Air Consumption</b>	40nl/min at 6Kg/cm2
<b>Short Test Equipment</b>	Element Tester 1657	<b>Current Controller &amp; Monitor</b>	CY-210C & MM-370C
<b>Chiller</b>	30L with 2.4KW Cooling Capability	<b>Production Capability</b>	3 ~ 4 batt./min
<b>Machine Color</b>	Customization	<b>Machine Dimension</b>	Approx. 4,480.5(L)x 1,800(W) x 2,200(H) in mm
<b>Approx. Weight</b>	2,600 KGS		