CATALOG 2026 AUTO ELECTRICAL TESTING EQUIPMENT

SCA designs and manufactures specialized Auto Electrical Testing Equipment and Production Automation Systems for critical automotive components and assemblies. Modern automotive manufacturing demands accuracy, repeatability and dependable testing at every stage.



CERTIFIED ISO 14001:2018 COMPANY

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About Us

Super Control & Automation (SCA) is an engineering and manufacturing company specializing in Solar PV and PV Cell testing equipment, aluminium die-cast mold manufacturing and spares, auto-electrical testing equipment, and programmable DC power supplies. Driven by strong in-house capabilities and technical expertise, we deliver high-precision, dependable solutions tailored to industrial applications. Through engineering excellence and responsive support, SCA is committed to building lasting business partnerships based on quality and performance

Auto Electrical Testing Solutions

Modern automotive manufacturing demands precision, consistency and reliable testing at every stage of production.

SCA delivers application-specific Auto electrical Testing Equipment and Production Automation Systems engineered to help manufacturers improve testing accuracy, reduce process variability and enhance production efficiency.

From component testing to automated production processes, our solutions are built to deliver repeatable performance, dependable results and greater manufacturing confidence.

Precision Testing. Reliable Performance. Smarter Manufacturing

Why Industries **Choose Us?**



21+YEARS
of Engineering Excellence

20+
In-House Service Engineers

24 HRS
In-House Service Engineers

ISO
Certified Quality System

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India's Only Manufacturer of Solar PV Module Testing Equipment

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OUR CERTIFICATION

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QUALITY RESEARCH ORGANIZATION

Certificate of Registration

This is to certify that

SUPER CONTROL & AUTOMATION

PLOT NO. 5, NANGLA GUJRAN, NEAR SHYAM DHARAM KANTA, SOHNA ROAD, FARIDABAD -121004, HARYANA, INDIA

has been independently assessed by QRO and is compliant with the requirement of:

ISO 9001:2015

Quality Management System

For the following scope of activities:

DESIGN, MANUFACTURING, SUPPLY, INSTALLATION OF PROCESS AUTOMATION & MACHINE AUTOMATION SYSTEM, AS WELL AS SPECIAL PURPOSE TESTING EQUIPMENTS & MACHINES, SOLAR PV MODULE TESTING EQUIPMENTS, DIE AND MOULDS

Date of Certification: 8th September 2026
1st Surveillance Audit Due: 7th September 2027
2nd Surveillance Audit Due: 7th September 2028
Certificate Expiry: 7th September 2029

Certificate Number: 305026090861Q

Head of Certification

Validity of this certificate is subject to annual surveillance audits to be done successfully on or before 365 days from date of the audit. (In case surveillance audit is not allowed to be conducted: this certificate shall be suspended / withdrawn).
The Validity of this certificate can be verified at www.qrocert.org
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has been independently assessed by QRO and is compliant with the requirement of:

ISO 14001:2015

Environmental Management System

For the following scope of activities:

DESIGN, MANUFACTURING, SUPPLY, INSTALLATION OF PROCESS AUTOMATION & MACHINE AUTOMATION SYSTEM, AS WELL AS SPECIAL PURPOSE TESTING EQUIPMENTS & MACHINES, SOLAR PV MODULE TESTING EQUIPMENTS, DIE AND MOULDS

Date of Certification: 8th September 2026
1st Surveillance Audit Due: 7th September 2027
2nd Surveillance Audit Due: 7th September 2028
Certificate Expiry: 7th September 2029

Certificate Number: 305026090863E

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has been independently assessed by QRO and is compliant with the requirement of:

ISO 45001:2018

Occupational Health and Safety Management System

For the following scope of activities:

DESIGN, MANUFACTURING, SUPPLY, INSTALLATION OF PROCESS AUTOMATION & MACHINE AUTOMATION SYSTEM, AS WELL AS SPECIAL PURPOSE TESTING EQUIPMENTS & MACHINES, SOLAR PV MODULE TESTING EQUIPMENTS, DIE AND MOULDS

Date of Certification: 8th September 2026
1st Surveillance Audit Due: 7th September 2027
2nd Surveillance Audit Due: 7th September 2028
Certificate Expiry: 7th September 2029

Certificate Number: 305026090862HS

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Our Clientele

Every product across all three verticals — Testing Equipment, Die Cast Mould Components, and Special Purpose Machinery — is designed, fabricated, assembled and calibrated within SCA's own Make-in-India Manufacturing Facility in Faridabad, Haryana. Nothing is outsourced to third-party job shops for critical build or service work.

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Horn Assembly Production Line



Technical Specifications

Parameters	Description
Machine Name	Horn Assembly Line
Production Capacity	1500-2000 Pcs/ Day
Horn Type	72,82,90 Dia
Assembly Position	Face to Face
Supply Voltage	380-415V, AC 50hZ

SCA's Horn Assembly Production Lines are engineered to streamline the assembly process while maintaining consistent quality, process control and production efficiency. Designed around specific manufacturing requirements, the system can integrate multiple assembly operations into a structured production workflow

Technical Specifications

Model No:-	SMTB-1.5KW	SMTB-2.5KW	SMTB-4.5KW	SMTB-6KW	SMTB-7.5KW	SMTB-10KW
Max. Testing Load	300 Amps	400 Amps	650 Amps	800 Amps	1000 Amps	1500 Amps
Starter Testing Voltage	12/24 VDC					
Rating of DC Motor	5 HP/3.7 KW, 2880 RPM	7.5 HP/5.5 KW, 2880 RPM	10 HP/7.5 KW, 2880 RPM	15 HP/11 KW, 2880 RPM	15 HP/11 KW, 2880 RPM	20 HP/15 KW, 2880 RPM
Rating of DC Drive (Inverter)	5 HP/3.7 KW	7.5 HP/5.5 KW	10 HP/7.5 KW	15 HP/11 KW	15 HP/ 11 KW	20 HP/15 KW
Pulley Type	N/A					
Max. Allowable Starter Motor RPM	10000					
Max. Efficiency of SMTB	80%					
Input Power Supply Rating	3 Phase, 380-415 VAC, 50Hz					
Power Consumption (KW)	4.0	6.0	8.0	12.0	12.0	16.0
Parameters Measured	Starter Motor RPM, Starter Motor Current, Starter Motor Voltage,					
Monitoring Display	Touch Screen , 10", Colored					
Testing Modes	Automatic/Manual					
RPM Step Settings	06 Programmable steps as per OEM recommendation					
RPM Step Delay Settings	Programmable as per OEM recommendation					
Max. No. of STR. settings	08 Nos. of Starter Motor process parameter settings data can be					
Graphical Data	RPM vs. Load(Current) graph & Ripple pattern/waveform trend					
Fail/Pass Indication	(AVAILABLE) on Process page and on Printing report page					
Testing Data Print Out	(AVAILABLE) Performance testing report printing including all					
Safety Door	AVAILABLE					

Starter Motor Testing Machine



SCA's Starter Motor Testing Machines are designed to provide controlled and repeatable testing of starter motor performance. The systems help manufacturers establish consistent testing parameters and identify performance variations during production.

Rectifier Testing Machines

Technical Specifications



Technical Specifications	
Dimensions WxHxD	600x1700x600 MM
Weigh	250 Kg.
Number of Diode Testing	12 Nos.
mV Drop Test Range	1.000 Volt
mV Drop Test Resolution	0.001 Volt
Load Current Range	100.00 Amps
Load Current Resolution	00.01 Amps
DC Voltage Range	32.00 VDC
DC Voltage Resolution	00.01 VDC
Programable DC Power Supply Capacity for Drop Test	0-32 VDC, 0-100 Amps
Reverse Current Test Rang	2.000 mA
Reverse Current Test Voltage	0-1000 VDC, 0-1.6 Amps
Testing Operation	Automatic/Manual
Testing Fixture	As per Rectifier Assembly
PC Configuration	15" All in One Industrial PC
Monitoring Software	LabView
Data Recording and Report	Available in Excel & PDF
Input Power Supply	380-415 VAC 50 Hz
Power Consumption	2.00 Kw

SCA's Rectifier Testing Machines are engineered to verify the functional performance of automotive rectifier assemblies through controlled testing processes. Designed for manufacturing environments, these systems help improve testing consistency and reduce dependence on manual inspection.

Alternator Testing Machines

Technical Specifications

Model No:-	ATB-50	ATB-75	ATB-100	ATB-150	ATB-250	ATB-250
Max. Testing Load	40 Amps	60 Amps	80 Amps	120 Amps	160 Amps	200 Amps
Alternator Testing Voltage	12/24 VDC					
Rating of AC Motor	5 HP/3.7 KW, 2880 RPM	7.5 HP/5.5 KW, 2880 RPM	10 HP/7.5 KW, 2880 RPM	15 HP/11 KW, 2880 RPM	15 HP/11 KW, 2880 RPM	20 HP/15 KW, 2880 RPM
Rating of AC Drive (Inverter)	5 HP/3.7 KW	7.5 HP/5.5 KW	10 HP/7.5 KW	15 HP/11 KW	15 HP/ 11 KW	20 HP/15 KW
Pulley Type	Multi-groove, A-Groove, B-Groove					
Max. Allowable Alternator RPM	10,000					
Max. Efficiency of ATB	80%					
Input Power Supply Rating	3 Phase, 380-415 VAC, 50Hz					
Power Consumption (KW)	4.0	6.0	8.0	12.0	12.0	16.0
Parameters Measured	Alternator RPM, Battery Voltage, Load Current, Alternator					
Monitoring Display	Touch Screen , 10", Colored					
Testing Modes	Automatic/Manual					
RPM Step Settings	06 Programmable steps as per OEM recommendation					
RPM Step Delay Settings	Programmable as per OEM recommendation					
Max. No. of ALT. settings	08 Nos. of Alternator process parameter settings data can be					
Graphical Data	RPM vs. Load(Current) graph & Ripple pattern/waveform trend					
Fail/Pass Indication	(AVAILABLE) on Process page and on Printing report page					
Testing Data Print Out	(AVAILABLE) Performance testing report printing including all					
Safety Door	AVAILABLE					



SCA's Alternator Testing Machines are developed to support accurate and repeatable testing of automotive alternators. Designed for industrial production environments, the systems provide a controlled platform for evaluating alternator performance and maintaining consistent quality standards.

Horn Endurance Test Setup



Technical Specifications

Parameter	Description
Test Cycle	1 Sec ON & 3 Sec OFF
No. of Horn in 1 Zone	4 Nos.
Power Supply Voltage	0-30 VDC
Power Supply Amps.	0-30 Amps
Control System	PLC Based
Screen	HMI
Chamber Inner Size	1200x1200xx800 mm
Chamber Type	CANOPY

SCA's Horn Endurance Test Setups are engineered to evaluate the long-term functional performance and durability of automotive horns through controlled, repeatable testing cycles. Designed for manufacturing environments, these systems help ensure consistent performance, improve testing reliability and reduce dependence on manual testing processes.

Technical Specifications

Parameter	Description
Model No.	SCA-HP-60-26A
Outer Dimensions : WxLxH	600x2800x1950 MM
Approx Weight	350 Kg.
Test Horn	12/24 VDC
Output Voltage Step Mode 12V DC	4 Step (Step voltage setting can be Editable)
Output Voltage Step Mode 24V DC	4 Step (Step voltage setting can be Editable)
Maximum Current Range	26.00 Amps
DC Current Resolution	00.01 Amp.
DC Voltage Range	60.00 VDC
DC Voltage Resolution	00.01 VDC
DB Range	0-130 DB
DB Resolution	0.1 DB
Frequency Range	0-1000 Hz
Frequency Resolution	1 Hz
Programable DC Power Supply Capacity	0-60 VDC & 0-26.5 Amps
Distance Between DB & Horn	2.00 Mtr.
Testing Operation	Automatic/Manual
Horn Clamping Fixture	Pneumatic Type
Data Setting Recipe	25 Nos.
HMI Configuration	10" Touch Screen Panel (Mitsubishi)
PLC	FX-5U Series (Mitsubishi)
Software	Mitsubishi
Data Recording and Report	Available in Excel through by Memory Stick
Supply Air	4-6 Bar
Input Supply Voltage	220-240 VAC 50 Hz
Power Consumption	2.00 Kw Max.

Horn Performance Test Rig



SCA's Horn Performance Test Chambers are engineered to evaluate the functional performance of automotive horns under controlled environmental and operating conditions. Designed for manufacturing environments, these systems help ensure reliable performance, improve testing consistency and validate product quality across defined test parameters.

Solenoid Switch Testing Machine



Technical Specifications

Model No:-	SSTB (FULLY AUTOMATIC)	SSTB (SEMI AUTOMATIC)
Incoming Power supply	3 phase, 380-415 VAC, 50 Hz	
Rectifier (0-24VDC)	Required (Oil cooled ServoBased/Air cooled IGBT based)	
Load Bank Capacity	300 Amps	
Process Parameters	Closing & Opening volt., Coil holding & Pull current, Load current, mV drop, Sec. travel & total plunger travel	Closing & Opening volt.,Coil current, Load current, mV drop.
Monitoring Display Type	HMI (Touch Screen)	Digital indicators
Testing Modes	Automatic/Manual	Semi-Automatic/Manua
Fail/PassIndication	AVAILABLE	NOT AVAILABLE
Testing Data Print out	AVAILABLE via USB Device	NOT AVAILABLE
Monitoring Display Type	HMI (Touch Screen) with Data holding	Digital Indicators (no data holding)
Process Data Holding	AVAILABLE	NOT AVAILABLE

SCA's Solenoid Switch Testing Machines provide a controlled testing environment for evaluating the functional performance and consistency of automotive solenoid switches.Engineered for manufacturing applications, the systems help streamline testing while maintaining process reliability.

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