



MODEL 1920

Key Features

- 7 in 1
(ACW / DCW / IR / IWT / DCR / L / Q / Phase)
- Complete tests programmability
- Impulse (IWT) and Hi-pot test with Vacuum
- A/B DUT switching
- System software with data collection

Software Platform

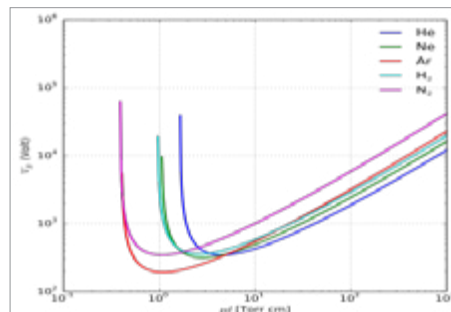
- Program editor
- Data collection
- Report query
- Failure statistical analysis
- User management

MOTOR STATOR TEST SYSTEM

MODEL 1920

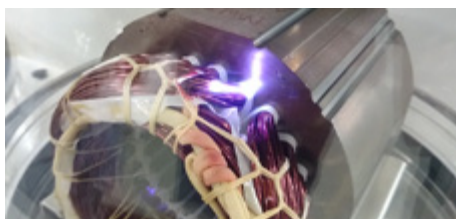
Chroma 1920 integrated Chroma 19036 Wound Component EST Analyzer which equipped with AC&DC Hi-Pot testing, insulation resistance measurement, 4-terminals DC resistance measurement, and impulse winding testing capabilities with 10 ports scanner; Chroma 3252 LCR Meter for Ls/Q and winding phase measurement; vacuum system and test fixture. It also provides standard software for system control and tested data collection.

Per Paschen's Law, gas CIV (Corona Inception Voltage) is nearly proportional to the air pressure (p) at a fixed gap distance (d) which is not extremely short, while the pressure is not extremely low. Therefore, it is possible to find winding defects at lower Hi-Pot and Impulse Winding testing voltage, if to control the pressure to be lower, and is easier to find them at lower damage energy which even enable customer to not just judge the device to fail but also to fix the defect because at lower discharge energy and the gas discharge is normally visible.

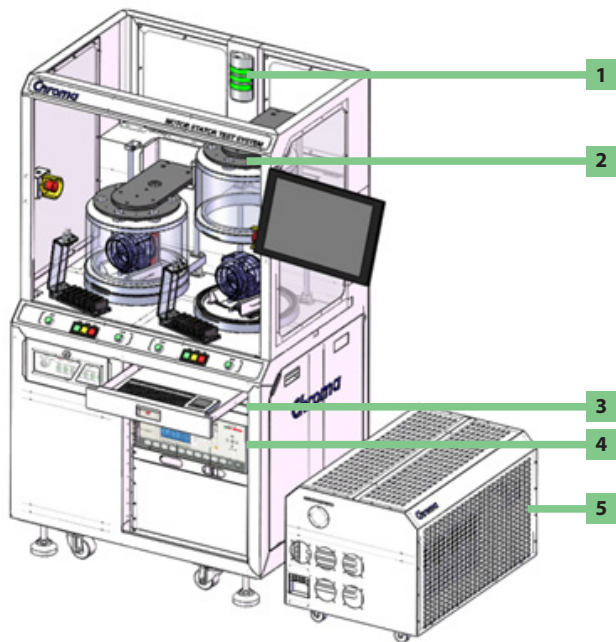


Chroma 1920 test system can be used for not just electrical safety testing, but also quality testing as it provides completed function for motor stator coil inspection.

The Ls/Q (Quality factor) check enable to find some defect coil which may run looks normally but become hotter than general after it assembled as a completed motor. Rotation check is normally to check if the winding connector assembly is correctly performed or not. Chroma 1920 can provide phase detection with LCR Meter, Hall Sensor or general rotor rotation test options for this. It also can provide swappable test fixture to fasten production speed. Operation system software provides user friendly test program edit interface and tested results display, record and filing management to complete the system to be a best choice for motor stator coil production and quality assurance testing.



ARCHITECTURE



1. Indicator
2. Vacuum
3. IPC
4. Wound Component EST Analyzer : Refer to Chroma 19036
5. Vacuum Pump

BRIEF SPECIFICATIONS

Wound Component EST Analyzer	
Model	19036
Main Function	ACW / DCW / IR / DCR / IWT
ACW	5kV / 100mA
DCW	6kV / 20mA
Insulation Resistance(IR)	5kV / 0.1M Ω ~ 50G Ω
Impulse	6kV
DCR	0.1 m Ω ~ 500K Ω

Automatic Transformer Tester	
Model	3252
Main Function	LCR meter (L, Q, Phase)
Test Frequency	20Hz ~ 200KHz
L	0.00001uH ~ 9999.99H
Q	0.00001 ~ 99999

Vacuum Pump		
Model	VC-100	
Nominal suction capacity (m3/h)	50Hz	100
	60Hz	120
Ultimate partial pressure [mbar(abs.)]	0.1	
Ultimate vacuum (with gas ballast) mbar (abs.)	0.5	
Motor rating (kW)	50Hz	3.0
	60Hz	3.6
Speed (min-1)	50Hz	1450
	60Hz	1750
Average noise level [dB(A)]	50Hz	66
	60Hz	69

*All specifications are subject to change without notice.

HEADQUARTERS
CHROMA ATE INC.
 66 Huaya 1st Road,
 Guishan, Taoyuan
 33383, Taiwan
 T +886-3-327-9999
 F +886-3-327-8898
 www.chromaate.com
 info@chromaate.com

U.S.A.
CHROMA SYSTEMS
SOLUTIONS, INC.
 19772 Pauling, Foothill Ranch,
 CA 92610
 T +1-949-600-6400
 F +1-949-600-6401
 www.chromausa.com
 sales@chromausa.com

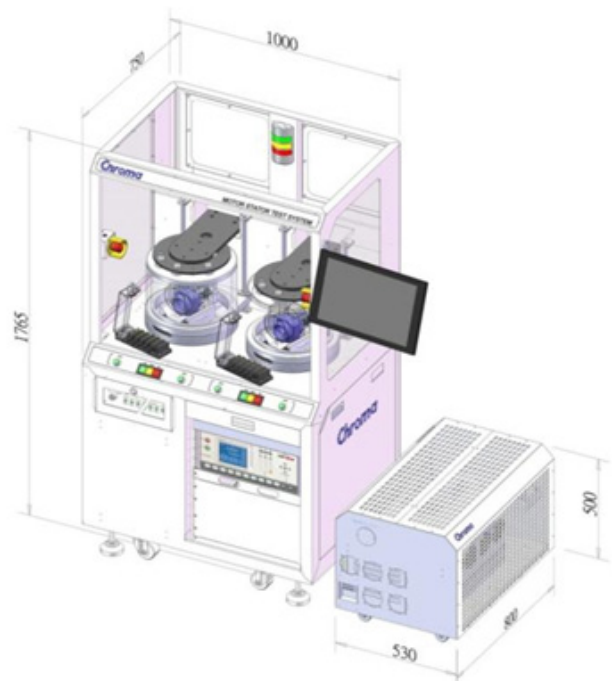
EUROPE
CHROMA ATE EUROPE B.V.
 Morsestraat 32, 6716 AH Ede,
 The Netherlands
 T +31-318-648282
 F +31-318-648288
 www.chroma.eu.com
 sales@chroma.eu.com

JAPAN
CHROMA JAPAN CORP.
 472 Nippa-cho, Kouhoku-ku,
 Yokohama-shi, Kanagawa,
 223-0057 Japan
 T +81-45-542-1118
 F +81-45-542-1080
 www.chroma.co.jp
 info@chroma.co.jp

CHINA
CHROMA ELECTRONICS
(SHENZHEN) CO., LTD.
 8F, No.4, Nanyou Tian An
 Industrial Estate, Shenzhen,
 China PC: 518052
 T +86-755-2664-4598
 F +86-755-2641-9620

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SOFTPANEL



Main Page



Test Program Editor

ORDERING INFORMATION

1920 : Motor Stator Test System

19036 : Wound Component EST Analyzer

3252 : Automatic Transformer Tester