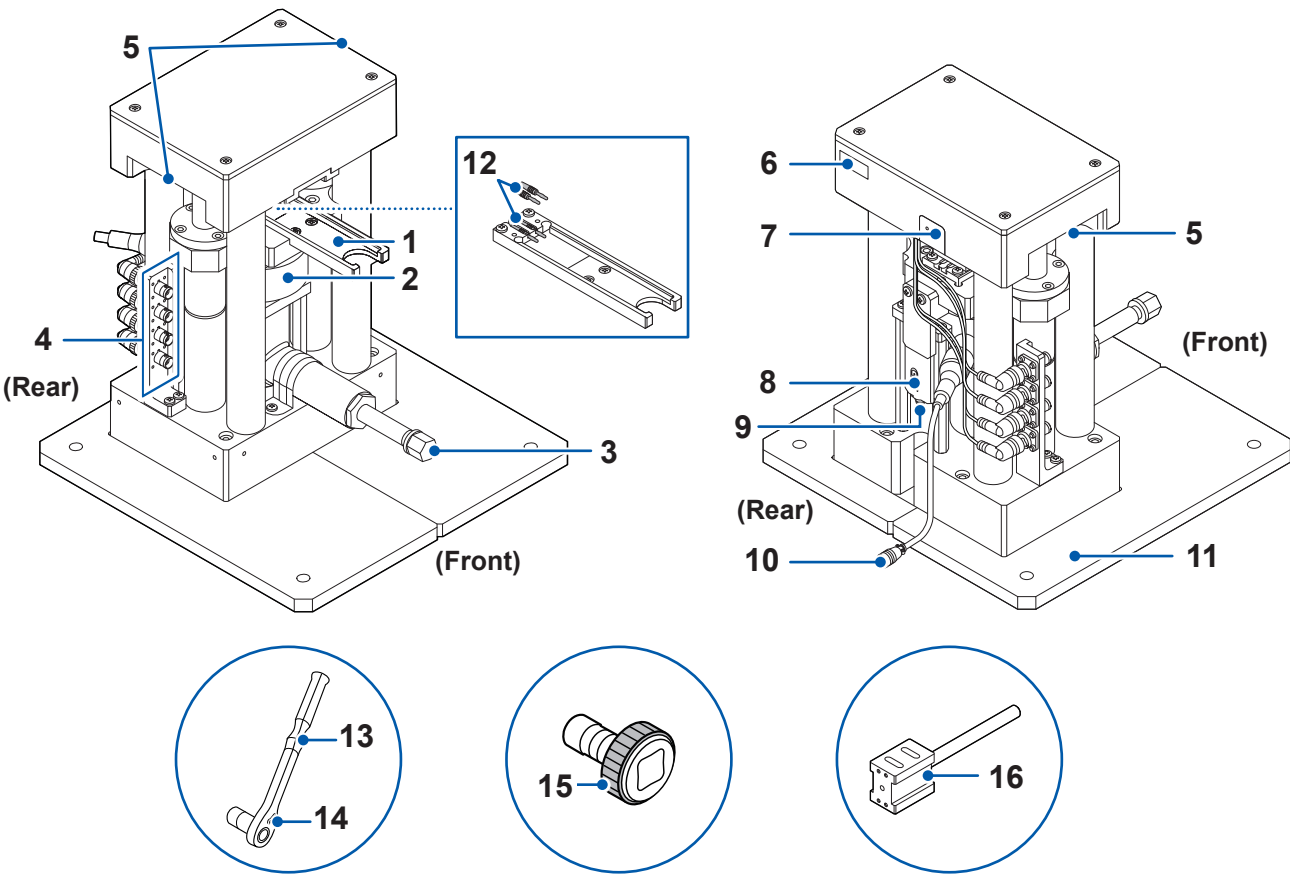


To position the SA9004-01 Test Fixture in the device, see “4.2 Positioning the Test Fixture in the Press Unit” in the Powder Impedance Measurement System Instruction Manual.

Part Names and Functions



No.	Name	Function
1	Rail	Allows the SA9004-01 Test Fixture to be inserted.
2	Load cell	Measures the load on the powder.
3	Hydraulic jack	Applies load to the powder filled in the SA9004-01 Test Fixture.
4	BNC terminals	Connect the L2280 Connection Cable here.
5	Handles	Grasp to carry the device.
6	Serial number	The serial number consists of nine digits. The first two digits indicate the year of manufacture, while the second two digits indicate the month of manufacture. Do not remove this sticker because the number is required for product tracking.
7	Functional ground terminal	Reduces the effect of noise. For use in noisy locations, connect the functional ground terminal of the SA2654 Sensor Unit and that of the SA9003 Press Unit using the functional ground cable supplied with the SA2654 Sensor Unit.
8	Displacement meter	Measures the load on the powder.
9	Displacement-meter terminal	Connect the displacement-meter connector of the SA2654 Sensor Unit here.
10	Load-cell connector	Connect the load-cell connector of the SA2654 Sensor Unit here.
11	Bases	Prevent the SA9003 Press Unit from falling. Use the four M12 screw holes on the bases for fixing.
12	Banana plugs	Connects to the SA9004-01 Test Fixture terminals.
13	Ratchet handle	Attach to the hydraulic jack of the SA9003 Press Unit to apply the load. The ratchet handle comes with a socket. (width between parallel sides: 17 mm)
14	Switch lever	Use to switch between two ratchet handle modes: tightening mode (clockwise) and loosening mode (counterclockwise).
15	Quick spinner	Attach to the hydraulic jack of the SA9003 Press Unit to adjust the gap between the upper electrode of the Test Fixture and the Press Unit.
16	Short-compensation block	Use to perform the short compensation.

Specifications

Dimensions	Approx. 300W × 322H × 300D mm (11.8W × 12.7H × 11.8D in., excluding protrusions)	
Weight	Approx. 20.7 kg (45.6 lb.)	
Frequency at which measurements can be made	DC to 8 MHz	
Structure	Four-terminal structure	
Connectable test fixture	SA9004-01 Test Fixture	
Residual impedance	Residual resistance when the terminals are short-circuited: 0.2 mΩ or less (with the short-compensation block connected, frequency: 100 Hz, with the L2280-01 connected) Stray capacitance between electrodes: 10 pF or less (the SA9004-01 electrode spacing: 1 mm, frequency: 1 MHz, with the L2280-01 connected)	
Connection means	Test Fixture	Banana plugs with a 2 mm diameter
	Connection cable	BNC connector
	Load cell	Dedicated connector
	Displacement meter	Dedicated connector
Product cables	1.5D-2V equivalent length: 200 mm	
Shield connection	The shield of the L2280-01/L2280-03 Connection Cable and the body of the SA9003 Press Unit are connected.	
Functional ground connection	The SA2654 Sensor Unit and the body of the SA9003 Press Unit are connected.	
Up/down stroke	Range of motion	0 mm to 8.5 mm
	Equipment	Hydraulic jack (screw type)
Load application	Load range	0 kN to 60 kN
	Equipment	Hydraulic jack (screw type)
Load measurement	Using the load cell	
	Measurement precision	±3% f.s.
Thickness measurement	Using the contact-type displacement meter	
	Measurement error	±10 μm
	(under a constant temperature environment, after calibration is performed) (within a load range of 10 kN to 60 kN, only with increasing load)	
Handle position	Bottom of the top plate	
Operating temperature and humidity range	23°C ±5°C (73°F ±9°F), 80% RH or less (non-condensing)	
Storage temperature and humidity range	−10°C to 50°C (14°F to 122°F), 80% RH or less	
Operating environment	Indoor use, pollution degree 2, altitude up to 2000 m (6562 ft.)	
Included accessories	See “Inspecting package contents.”	
Product warranty duration	1 year	

Maintenance and Service

Cleaning

CAUTION

- To clean the device, wipe it using a soft cloth moistened with water or a neutral detergent.
- ! Using solvent-containing detergents, such as benzene, alcohol, acetone, ether, ketone, thinner, and gasoline, or wiping the device with excessive force could cause deformation or discoloration.