JG SDH3000

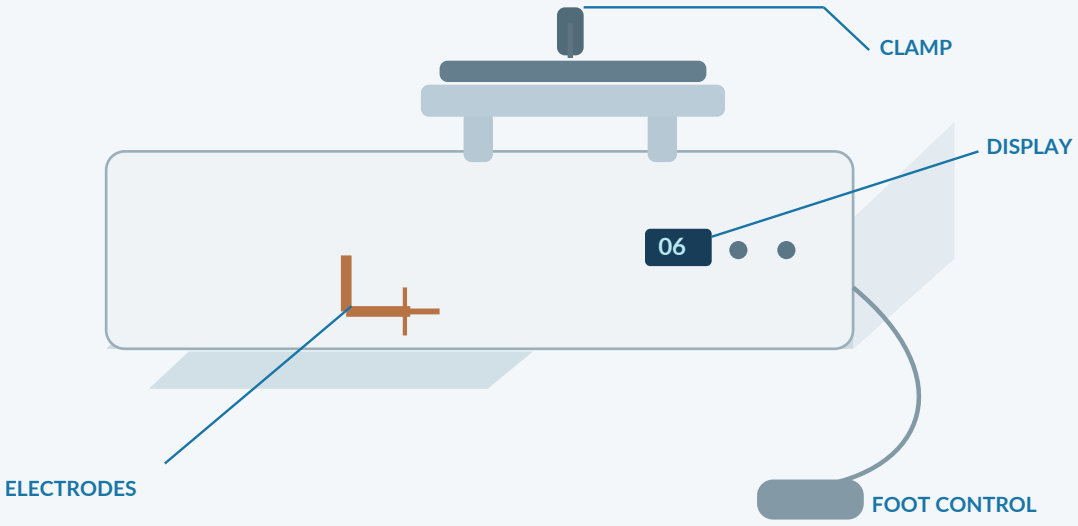
Portable Dental Lab Spot Welder

ORAL ORTHODONTIC WELDING / BRAZING / ANNEALING

A compact bench-top welding system for orthodontic wire assemblies and small dental laboratory metal components. Available in 110 V or 220 V supply configurations.

EQUIPMENT REFERENCE

ILLUSTRATIVE ONLY / NOT TO SCALE



350 W	0.2-1.6 mm	110 / 220 V
LISTED POWER	WIRE RANGE	VOLTAGE OPTIONS

THREE PROCESS FUNCTIONS

Spot welding

Localized joins for suitable orthodontic metal workpieces.

Brazing

Joining operations with suitable filler and process controls.

Annealing

Controlled heat treatment where allowed by alloy specifications.

Published Specifications

The values below describe the SDH3000 configuration offered in the cited seller listing and cross-checked against other public SDH3000 information.

PARAMETER	SPECIFICATION	QUALIFIER
Identification	JG SDH3000	Bench-top orthodontic spot welder
Supply voltage	110 V AC or 220 V AC	Variant selection; check rating plate
Power rating	350 W	Product-listed nominal power
Power frequency	50 / 60 Hz	Reported in other SDH3000 listings
Working modes	Spot welding; brazing; annealing	Selectable processes
Supported wire diameter	0.2-1.6 mm	Application range; test each alloy
Listed wire materials	Steel; NiTi; molybdenum	Others only after validation
Dimensions	470 x 290 x 160 mm	Seller-listed overall dimensions
Mass	8 kg	Seller-listed; shipping mass may vary
Equipment category	Dental laboratory equipment	For trained operators
Operator interface	Local controls; digital indicator	Control details vary by version
Actuation accessory	Foot control switch	Common kit item; confirm inclusion

DATA BOUNDARIES

Welding pulse current, pulse time, duty cycle, electrode force, and weld-joint strength are not specified in the supplied product listing. No numerical operating limits have been inferred.

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Operating Guidance

General laboratory guidance only. The equipment label and instructions supplied with the actual machine govern setup and use.

01

Confirm electrical variant

Verify that the rated input voltage and plug match the local supply before connecting power.

02

Check electrodes and fixture

Inspect electrode alignment, cleanliness and secure workpiece placement.

03

Prepare the workpiece

Remove surface contamination. Fit the correct material and wire size in the fixture.

04

Select and trial the process

Choose welding, brazing or annealing; establish a trial setting using representative scrap.

05

Validate the joint

Inspect the trial joint for fusion, deformation, discoloration and required mechanical integrity.

06

Shut down safely

Switch off after use; allow hot areas to cool and separate the electrodes for storage.

SAFETY / MATERIAL QUALIFICATION

Never fire a weld with no workpiece in place. Use suitable eye protection and local fume extraction. Keep the unit dry and ventilated; avoid impact and vibration. Wire alloys - especially NiTi - must be tested to prevent unacceptable heat-induced property changes.

Installation and Purchase Checklist

The machine configuration and supplied accessories should be checked against the purchase order and the unit nameplate.

TYPICAL SDH3000 PACKAGE

Accessory sets vary by distributor and product revision.

- Welding machine / main unit
- AC power cord
- Foot control switch (commonly listed)
- Fuse tube (reported in some kits)
- Annealing attachment (commonly listed)
- Documentation / accessories: confirm

Pre-commissioning Checks

Complete before first use and following relocation.

01 Mains identification

Verify 110 V / 220 V configuration, frequency, protective grounding and appropriate power outlet.

02 Electrical condition

Inspect cable, plug, switch and housing for transport damage or exposed conductors.

03 Work envelope

Allow stable bench space and access to controls; keep adequate ventilation around the housing.

04 Process samples

Test representative materials within the published 0.2-1.6 mm range; check joint acceptance.

05 Safety and servicing

Use trained operators. Disconnect power before any authorized inspection or servicing.

TECHNICAL NOTE | This document is an independent product summary. It is not a factory calibration certificate or a substitute for the delivered operation and safety instructions.

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