

Denyo

High Performance and Eco-Friendly
**DENYO SOUNDPROOF TYPE
DIESEL ENGINE WELDER**



DAW Series



DLW Series

Denyo Co., Ltd.

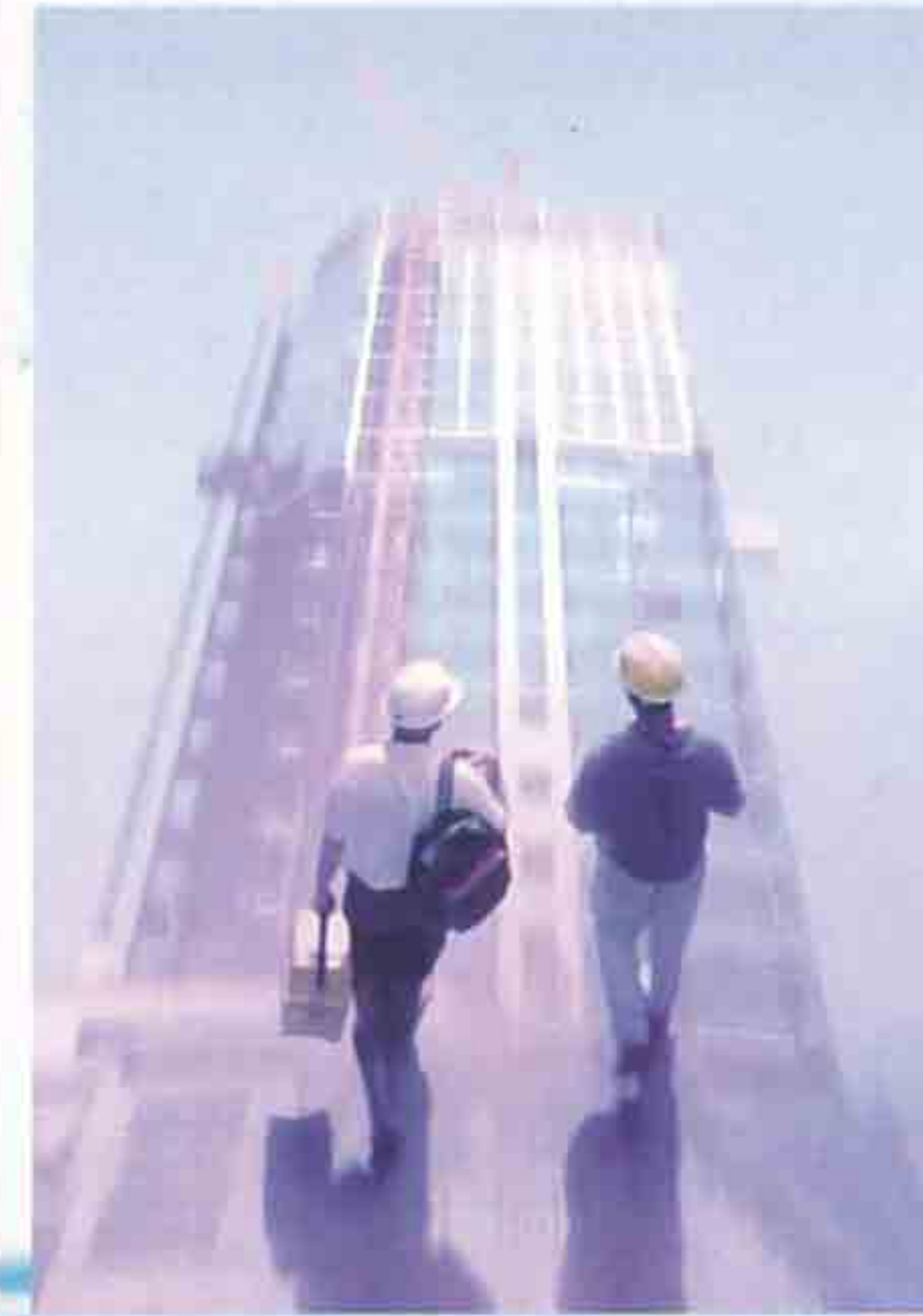
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Global Standard Denyo Welders Featuring Advanced Technology and Minimal Environmental Impact

Denyo is proud to introduce its next-generation welders, featuring low fuel consumption, minimal noise, outstanding performance, superior ease of operation, advanced technology and minimal environmental impact.

All the products listed in this brochure are provided with the following functions.

Clean Engine

The engine equipped with the Closed Breathing System which keeps the blow-by gas in the machine, and the aluminum radiator which does not cause lead pollution is categorized as a construction machine that satisfies the emission gas regulation stage 2, enforced by the Ministry of Land, Infrastructure and Transport (except for DAW-180SS)

Slowdown device reduces noises and saves

The Slowdown unit automatically lowers engine speed during no-load, reducing noise and increasing fuel efficiency.



Easy Daily Inspection & Maintenance

Daily inspection and maintenance can be carried out on one side of the machine. In addition, the radiator can be cleaned easily by removing the front cover.



Switch key operation restarts the engine without vented automatically

The generator is equipped with an automatic air-venting unit that eliminates air by turning a switch key when restarting the engine after fueling.

Alternator requires maintenance free

The use of brushes or slip rings in the alternator eliminates the need for maintenance.

Various protective systems assuring safety

This machine can

- automatically cut the power off when over-loading DC output. (except for TLW-230ES)
- protect over-loading AC output by shutting down its circuit breaker.
- automatically stop the engine with the warning indicators, at low lub.oil pressure, high water temperature, and insufficient charging of the battery.
- prevent from electrical leaking with its relay. (optional for DAW-180SS, DAW-300SS, TLW-230ES)

Options:

Four-wheel kit, exhaust pipe attachment, remote controller, measures against salt damage.

DAW SERIES

DAW-180SS

Lightweight and compact design with water-cooled 2-cylinder diesel engine.



DAW-300SS

Non-step automatic control with a microcomputer assures optimum engine revolutions under any load conditions, with slow-down (low-speed) revolutions kept under no load.

The fuel cost can thus be reduced, ultra-low fuel consumption achieved, and ultralow noise level maintained under any working conditions.



The best arc-welding characteristics

The e-AVC300's microcomputer-aided welding control assures quiet, optimum operation that will accommodate any kind of welding rod.

e-AVC300

TLW SERIES

TLW-230ES

Lightweight and compact design with water-cooled 2-cylinder diesel engine.



tal Impact.

DLW SERIES

The improved diesel engine welder achieves low fuel consumption and low noise in newly developed e-mode operations.

High-quality AC power can be used while welding is being performed.



DLW-300ES

Low fuel consumption and low noise in e-mode operations.



DLW-300ESW

Two persons can perform welding simultaneously in e-mode operations. Provided with short-circuit current regulator.



DLW-400ESW

E-mode Function Reduces Fuel Consumption and Noise Level

With e-mode operation (idling speed), the unit controls welding current up to 160A on DLW-300ES/DLW-300ESW and 240A on DLW-400ESW respectively, reducing fuel consumption by 25~30% compared with other standard welders. In addition, newly developed hood structure incorporating a new cooling system dramatically reduces noise level.

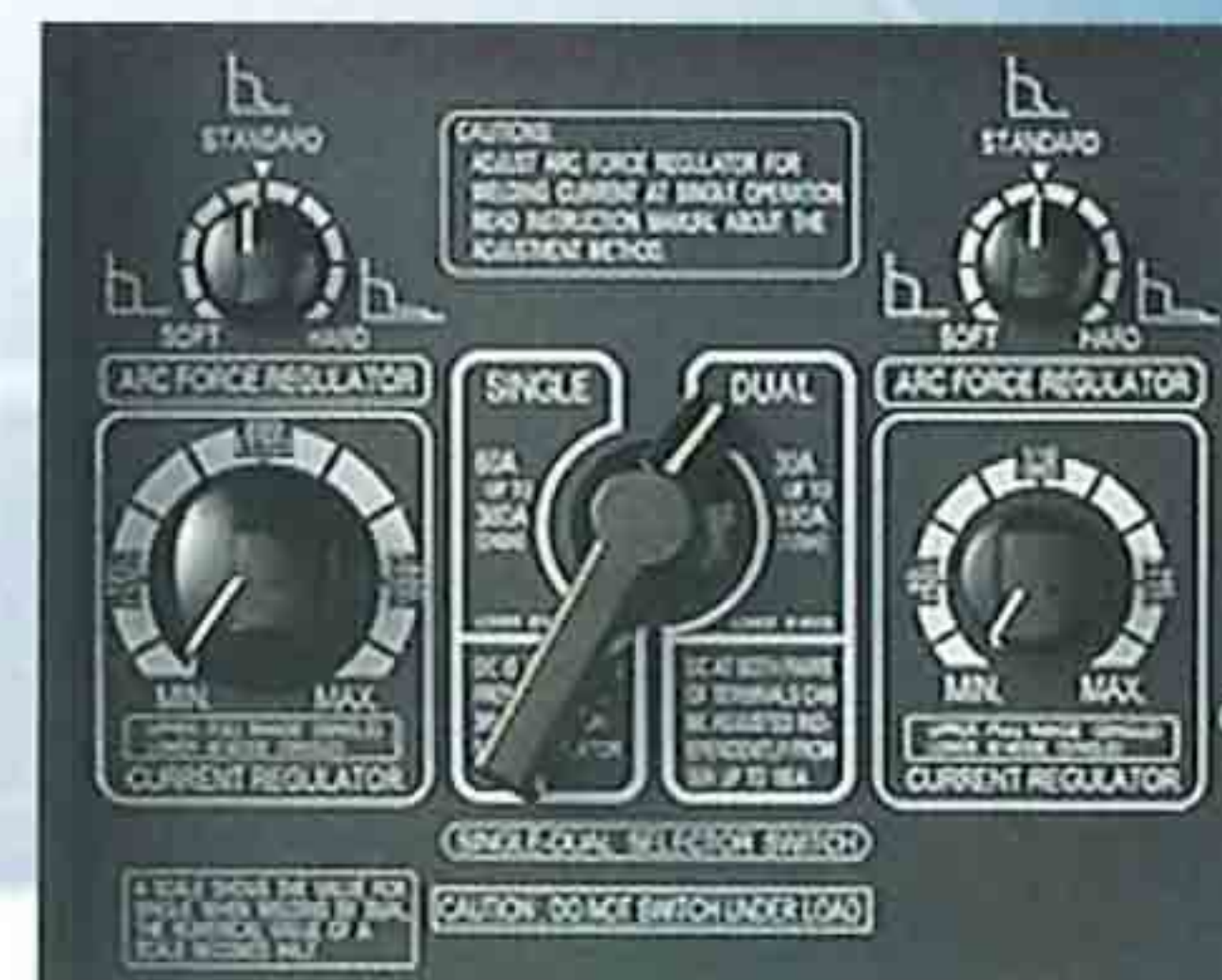
Superior Design

Fuel gauge will indicate with red signal when level is low, and readability have been enhanced in other gauges and meters, such as Hour Meter, Frequency Meter, etc.



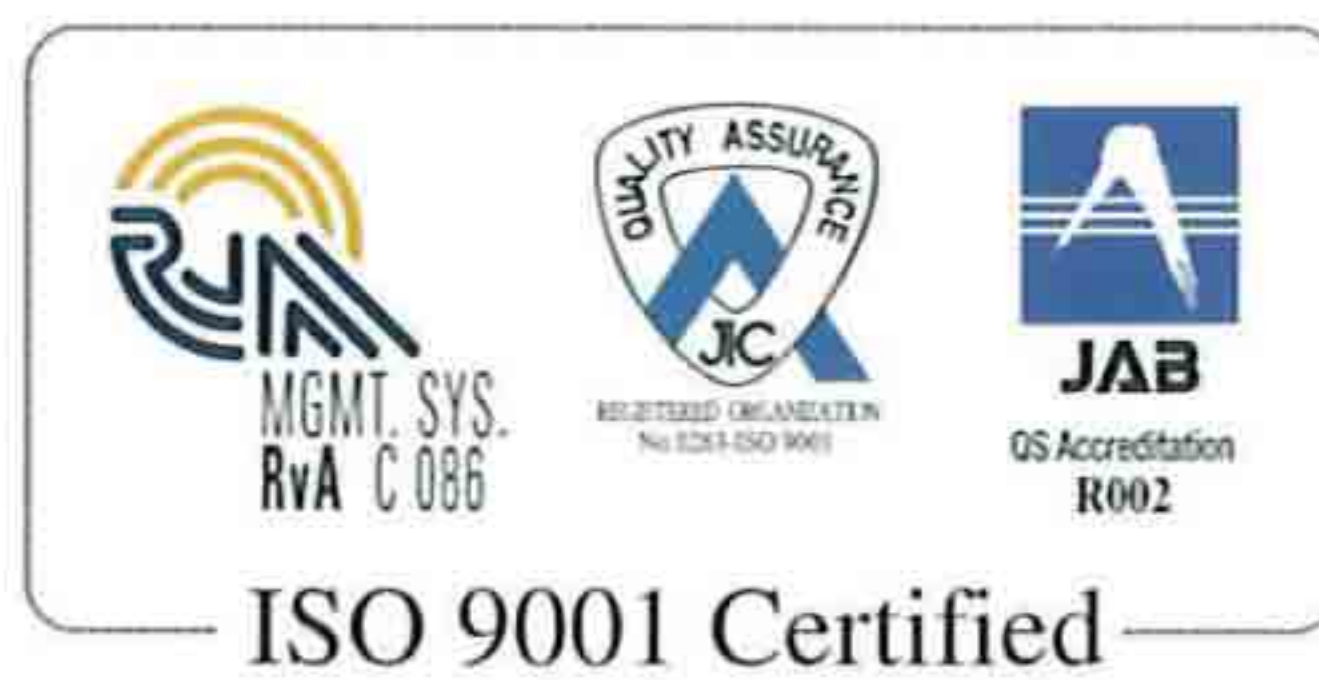
Welding characteristics changeable with a turn of a dial

The welding conditions can be adjusted from hard to soft finish by turning the arc force trimmer dial. In addition DLW-300ESW/400ESW-series welders can be adjusted separately with two persons. The stability of welding current is excellent at soft positions, facilitating high-quality welding (pipe welding, vertical-position welding etc.) Arcing can be started easily at hard positions.



SPECIFICATION TABLE

Item	Model	DAW-180SS	DAW-300SS	TLW-230ES	DLW-300ES	e-mode	DLW-300ESW	e-mode	DLW-400ESW	e-mode
DC Welding Power										
Rated Output (kW)		4.5	8.7	5.6	7.90/8.74	4.22	Single 7.90/8.74 Dual 3.28×2/3.58×2	4.22 1.86×2	Single 10.96/11.90 Dual 4.39×2/4.73×2	7.10 2.98×2
Rated Current (A)		170	280	200	260/280	160	Single 260/280 Dual 130/140	160 80	Single 330/350 Dual 165/175	240 120
Rated Voltage (V)		26.8	31.2	28	30.4/31.2	26.4	Single 30.4/31.2 Dual 25.2/25.6	26.4 23.2	Single 33.2/34.0 Dual 26.6/27.0	29.6 24.8
Welding Current Range (A)		30~180	30~300 (2200~3000min ⁻¹)	50~230	30~280/30~300	30~160	Single 60~280/60~300 Dual 30~140/30~150	60~160 30~80	Single 60~380/60~400 Dual 30~190/30~200	60~240 30~120
Rated duty cycle (%)		50			50	100	50	100	60	100
Applicable electrode (mm)		2.0~4.0	2.0~6.0	2.6~5.0	2.0~6.0	2.0~4.0	Single 2.6~6.0 Dual 2.0~3.2	2.0~4.0 2.0~2.6	Single 2.0~8.0 Dual 2.0~4.0	2.0~5.0 2.0~3.2
AC Power Source										
Frequency (Hz)		50/60								
Rated Output (kVA)		3.0		5.0/5.5		10.0			15.0	
Rated Voltage (V)		100/110/120/200/220/230/240			200/220 or 380~440					
No. of Phase		1-Phase, 2wire			3-Phase, 4wire					
Power Factor		1.0			0.8 (Lagging)					
Diesel Engine										
Model		Kubota Z402	Kubota D722-KB	Kubota Z482-K2A	Yanmar 3TNE68-U	Kubota D905-KA		Kubota D1005-KA		
Type		4-cycle, vertical, water cooled with radiator								
Rated Output (kW)		7.28	11.7	9.6	12.9/15.1	14.7/17.3		16.5/19.1		
Rated Speed (min ⁻¹)		3600	3000	3600	3000/3600					
Displacement (L)		0.4	0.719	0.479	0.784	0.898		1.001		
Fuel		ASTM No.2 diesel fuel or equivalent								
Fuel consumption (L/h)		1.31	2.1	1.6	2.08/2.37	1.28	2.33/2.69	1.46	3.24/3.76	2.18
Fuel Tank Capacity (L)		15	19		36			42		
Battery x Quantity		36B20L×1	55B24L×1	36B20L×1	55B24L×1					
Dimensions/Weight										
Length x Width x Height (mm)		990×590×750	1270×680×740	1220×610×720	1410×680×760	1410×680×770		1520×720×770		
Dry Weight (kg)		181	300	285	384	405		460		
Noise										
7mdB (A)		65	64	60/63	63/65	57	64/67	58	63/66	59



Direct inquiries to the nearest Denyo distributor or to Denyo co.,Ltd.



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