



DUAL VANTAGE® 800
ENGINE-DRIVEN WELDER/GENERATOR





K3996-5 Dual Vantage 800 shown

The Power of Two

On the construction site, along the pipeline or in any other rugged environment, welding must get done on time and with minimal rework. The mathematical solution is simple: two operators on the same engine drive can work twice as fast as one.

The Dual Vantage® 800 – driven by a 69 horsepower Cummins® Turbo Diesel – delivers plenty of power for two welding arcs with enough left over to run lights, grinders, plasma cutters and other tools. Gouge thick materials with up to a half-inch carbon while enjoying a smooth and controllable arc. And with the double stator design, the AC generator power circuit is completely separate from the weld circuits.

Double the potential of a single machine – and save time in the process – with the Dual Vantage 800.



Easy to Use, Easy on the Budget

Save Money

The Dual Vantage 800 saves you money not only at the time of purchase but every time you start it up. You're lowering your capital investment costs and your maintenance costs because you're buying and servicing one engine rather than two.

Weld Right

Whether stick or wire welding, construction welders rarely use more than 300 amps. The Dual Vantage 800 delivers that and more to each operator while providing outstanding puddle control, even for difficult joints and positions.

Protection from the Elements

Standard stainless steel roof, side panels and engine-access door deliver added protection, durability and corrosion resistance.

Processes »

Stick, TIG, MIG, Flux-Cored, Arc Gouging

Applications »

Mining, General Construction, Maintenance and Repair

Output »



Input »



Product Number »

· K3996-5 Base Unit



STEEL FAB.

LINCOLN
ELECTRIC

MACHINE SPECIFICATIONS

Product Name	Product Number	Rated Output @ 104°F(40°C) Current/Voltage/Duty Cycle	Rated Output ⁽¹⁾ @ 104°F(40°C) - Welder and Generator			H x W x D in (mm)	Net Weight lbs (kg)
			Output Range	Open Circuit Voltage	Auxiliary Power ^{(2) (3)}		
Dual Vantage® 800 Cummins® T4i	K3996-5	Single Mode			60 Max OCV @ 1860 RPM	120/240 VAC Single Phase: 12,000 WATTS, 60Hz. Three Phase: 20,000 WATTS, 60 Hz.	Machine Only 36.9 x 28.5 x 77.0 (937 x 724 x 1956)
		650A/44V/100% 700A/42V/100% 800A/36V/100%	30 - 800 Amps CC/CV 20 - 250 Amps TIG				
		Dual Mode					
		300A/32V/100% 400A CV/31V/100% 400A CC/34V/100%	30 - 400 Amps CC/CV 20 - 250 Amps TIG				

ENGINE SPECIFICATIONS

Product Name	Make/Model	Description	Speed (RPM)	HP @ Speed (RPM)	Displacement	Starting System	Capacities
Dual Vantage® 800 Cummins® T4i	Cummins® B3.3T ⁽⁴⁾ Turbo charged Diesel Engine EPA TIER 4 Interim	4 Cylinder, 4 Cycle, 69 HP (51.4 kw) Turbo-Charged Water Cooled Diesel Engine	High Idle 1800 Low Idle 1500	69 @ 1860	199 cu. In. (3.3L) Bore x Stroke 3.74 in x 4.53 in (95 mm x 115 mm)	12VDC Battery and Starter with Automatic Glow Plugs	Fuel: 25 US gal (94.6 L) Oil: 2 US gal (7.6 L)

⁽¹⁾ High Altitude: For maximum rating derate the output 5% for every 1,640 ft. (500 m) above 1,312 ft. (400 m).

⁽²⁾ Output rating in watts is equivalent to volt-amperes at unity power factor. When welding, available auxiliary power will be reduced. Output voltage is within +/- 10% at all loads up to rated capacity.

⁽³⁾ Circuits cannot be wired in parallel to operate the same device.

⁽⁴⁾ Cummins® engine warranty is 3 years/3000 hours, 3 years/10,000 hours for major components.

ACCESSORIES	Product Number	Dual Vantage 800 Base Unit (K3996-5)
GENERAL		
Large Welder Trailer - For heavy-duty road, off-road, plant and yard use. Includes pivoting jack stand, safety chains, and 14 in. (356 mm) wheels. Stiff .120 in. (3.0 mm) welded rectangular steel tube frame construction is phosphate etched and powder coat painted for superior rust and corrosion resistance. Low sway suspension gives outstanding stability with manageable tongue weight. Wheel bearings are packed with high viscosity, high pressure, low washout Lubriplate® grease. Includes a Duo-Hitch® – a 2 in. (51 mm) Ball/Lunette Eye combination hitch. Overall width 60 in. (1524 mm). Overall length 124 in. (3150 mm).	K2637-2	•
Fender Kit - Allows use of trailer at night and as required by local regulations. Includes fenders, lights with guards, mounting brackets, wiring and hardware.	K2639-1	•
Cable Rack - For storage of approximately 100 ft. (30.5 m) of 2/0 (70 mm ²) welding cable per side.	K2640-1	•
Power Plug Kit (20 amp) - Provides four 115V plugs rated at 20 amps each, and one dual voltage, full KVA plug rated at 115/230V, 50 amps. (Not for use with K1418-2, K1419-2 or K1616-1 CSA machines with GFCI receptacles.)	K802N	•
Full-KVA Power Plug (1-phase)	T12153-9	•
Full-KVA Power Plug (3-phase)	T12153-10	•
Full-KVA Adapter Kit (1-Phase) - Provides convenient connection of Lincoln Electric equipment having a 240V AC 1-phase plug (NEMA 6-50P) to the full-KVA receptacle on engine-driven welders.	K1816-1	•
Four-Wheeled Steerable Yard Trailer - For off-road, plant and yard use. Includes an automatically engaging drawbar lock when the drawbar is raised to the vertical position. 13 in wheels. Wheel bearings are packed with high viscosity, high pressure, low washout Lubriplate® grease. Stiff 3/16 in welded rectangular steel frame construction is phosphate etched and powder coat painted for superior rust and corrosion resistance. Also includes a Duo-Hitch™ - a 2 in Ball/Lunette Eye combination hitch. Overall width 55 in.	K2641-2	•
Accessory Kit - For stick welding. Includes 35 ft. (10.7m) 2/0 electrode cable with lug, 30 ft. (9.1m) 2/0 work cable with lugs, headshield, filter plate, work clamp and electrode holder.	K704	•
STICK		
Remote Output Control - 25 ft (6 pin connector) - Portable current control provides the same dial range as the current control on the welder. Consists of a 6-pin Amphenol connector which plugs into the remote control Amphenol. 25 foot cable length.	K857	•
Remote Output Control - 100 ft (6 pin connector) - Includes control box, cable and 6-pin MS-Type connector.	K857-1	•
Remote Output Control - 25 ft (12 pin connector) - Permits remote adjustment of output. Requires K3001-2 Stick/TIG User Interface. 25 ft. (7.6 m) when used with Power Wave® S350.	K857-2	•
Remote Output Control with 120V AC Receptacles - 100 ft	K2627-2	•
TIG		
Pro-Torch™ PTA-26V TIG Torch	K1783-9	•
Magnum® Parts Kit for PTA-26V TIG Torch	KP509	•
Foot Amptrol™	K870	•
Hand Amptrol™	K963-3	•

• Optional

ACCESSORIES	Product Number	Dual Vantage 800 Base Unit (K3996-5)
MULTI-PROCESS		
Invertec® V350 PRO Multi-Process Welder (Construction Model)	K1728-5	•
WIRE FEEDER		
LN-8 Wire Feeder	K297	
Magnum® SG Spool Gun	K487-25	•
SG Control Module	K488	•
Input Cable (for SG Control Module)	K691-10	•
LN-25 Ironworker® Wire Feeder	K2614-9	•
K126™ PRO Innershield® Gun	K126-12	•
PLASMA CUTTING		
Tomahawk® 1000	K2808-1	•

• Optional

CUSTOMER ASSISTANCE POLICY

The business of The Lincoln Electric Company[®] is manufacturing and selling high quality welding equipment, consumables, and cutting equipment. Our challenge is to meet the needs of our customers and to exceed their expectations. On occasion, purchasers may ask Lincoln Electric for information or advice about their use of our products. Our employees respond to inquiries to the best of their ability based on information provided to them by the customers and the knowledge they may have concerning the application. Our employees, however, are not in a position to verify the information provided or to evaluate the engineering requirements for the particular weldment. Accordingly, Lincoln Electric does not warrant or guarantee or assume any liability with respect to such information or advice. Moreover, the provision of such information or advice does not create, expand, or alter any warranty on our products. Any express or implied warranty that might arise from the information or advice, including any implied warranty of merchantability or any warranty of fitness for any customers' particular purpose is specifically disclaimed.

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