CHANGING THE NAME OF THE GAME

Truth In Numbers... Output at a Glance

Comparing welding machines based solely on their model names has been a confusing process for many. When searching for a welder to purchase, what really matters is the **true amperage** and **horsepower**. That's why we are making it clear that you're getting what you pay for with our new Vantage[®] engine driven welder nameplates.



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Get What you Pay for A Direct Comparison

If you take a closer look, our competitors do not consistently display important product information on their nameplates. This can cause customers to make misguided decisions based solely upon the machine's name, instead of the true specifications. This will negatively affect your ability to perform the job. Don't believe us? Look beyond the names and compare the specs to see for yourself.

LINCOLN VANTAGE 322 OUTPUT					Big Blue [®] 400 Pro			
Amperage	Volts	Duty Cycle			Amperage	Volts	Duty Cycle	
300	32V	100%	IEC		300	32V	100%	
400	23V	100%	Max		400	24V	100%	
Horsepower				Horsepower				
22 HP Kubota®				20.2 HP Kubota				

What it Means for You

The Vantage 322 and Big Blue[®] 400 Pro welders are similar, but you are getting more output information with the Lincoln machine. The Big Blue 400 Pro welder is not a true 400 class machine, it is a 300 class machine by IEC standards.

					Big Blue [®] 500 Pro			
Amperage	Volts	Duty Cycle			Amperage	Volts	Duty Cycle	
525	41V	100%	IEC		500	40V	100%	
575	38V	60%	Max		500	40V	100%	
Horsepower				Horsepower				
49.4 HP Deutz				48.9 HP Kubota				

What it Means for You

Both of these machines are true 500 class machines since they align with the IEC formula, but only one displays its features most accurately, and that's the Vantage 549X welder. You will be getting more amperage, voltage, and horsepower by welding with the Lincoln model.

Quick Reference Guide Which Machine Do You Need?

Below you can compare more machines head-to-head and see what you are really getting out of your welders. Notice that the Lincoln model names have been revised in order to provide more accuracy to the machines' capabilities, while most of the competitor model names are not based on the IEC output standard.

ΕΡΑ Τ	IER 4 FINAL COMPLI	ANT
Lincoln M	Competitor Model	
State <th< th=""><th>New Name Vantage 322 300A/32V/100% - IEC 400A/23V/100% - Max 22hp Kubota K2405-5</th><th>Big Blue 400 Pro 300A/32V/100% - IEC 400A/24V/100% - Max 20.2hp Kubota</th></th<>	New Name Vantage 322 300A/32V/100% - IEC 400A/23V/100% - Max 22hp Kubota K2405-5	Big Blue 400 Pro 300A/32V/100% - IEC 400A/24V/100% - Max 20.2hp Kubota
Vantage 520 SD 400A/36V/100% - IEC 520A/30V/60% - Max 34.8hp Deutz K4107-1	Vantage 435X 400A/36V/100% - IEC 520A/30V/60% - Max 34.8hp Deutz K4107-3	No Tier 4 Final Model
No Tier 4 Final Model	Vantage 549X 525A/41V/100% - IEC 575A/38V/60% - Max 49.4hp Deutz K3534-2	Big Blue 500 Pro/ Big Blue 600 Pro 500A/40V/100% - IEC 600A/42V/40% - Max (Big Blue 600 Only) 48.9hp Kubota
Vantage 600 SD 575A/43V/100% - IEC 600A/40V/60% - Max 65.7hp Deutz K3239-1	Vantage 566X 575A/43V/100% - IEC 600A/40V/40% - Max 65.7hp Deutz K3239-3	No Tier 4 Final Model
Air Vantage[®] 600 SD 575A/43V/100% - IEC 600A/40V/60% - Max 65.7hp Deutz K3242-1	Air Vantage 566X 575A/43V/100% - IEC 600A/40V/60% - Max 65.7hp Deutz K3242-3	Big Blue 600 Air Pak™ 575A/43V/100% - IEC 600A/44V/60% - Max 65.7hp Deutz
Air Vantage[®] 600 SD Hydraulic 575A/43V/100% - IEC 600A/40V/60% - Max 65.7hp Deutz K4343-1	Air Vantage 566X Hydraulic 575A/43V/100% - IEC 600A/40V/60% - Max 65.7hp Deutz K4343-3	No Tier 4 Final Model

Frequently Asked Questions

Aren't all machine names consistent with their true output?

Not necessarily. A machine may be called a 400, for example, but really only be a 300 amp machine by industry ratings. That's why the IEC (International Electrotechnical Commission) adopted the ratings method that they use. IEC is the accepted rating for CC/CV diesel engine powered welders. Recently, contractors have purchased or rented the wrong machine based on name alone. We want to provide complete transparency so that correct decisions are made on the front end.

What should I look for when comparing machines?

It is best to compare the IEC rating of each machine. Sometimes the current ratings of two machines will match but the voltage or duty cycles are different. Higher voltages, duty cycles, and horsepower mean more output.

What is the IEC formula and how is it calculated?

The IEC formula for stick (CC) ratings is actually a very simple formula, stating 0.04x(Current)+20=Voltage. It says that the welding voltage at 100% duty cycle should be the welding current multiplied by 0.04, add 20. For example, at 300 amps the welding voltage should be (300 x 0.04) +20 = 32V. Therefore, in this example, a rating on any machine lower than 300A/32V/100% would not meet IEC criteria for this machine.

What is changing in these Lincoln machines?

The only physical changes to these machines are the new nameplates. The machine is still the same as the previous model, but the nameplates have been updated. The only other change is the ordering number, which is required to order any machine. For example, if you typically ordered a K2409-4 Vantage 300 welder in the past, you will now order the K2409-5 Vantage 322 welder. The Quick Reference Guide outlines the ordering numbers for each machine.

Why not compare CV ratings instead of CC?

That is acceptable as long as both machines are rated using the same method. Again, using the IEC ratings is the best way to assure you get what you pay for.

What about comparing auxiliary output ratings?

Engine welders also generate auxiliary power that can be used to run lights, pumps, power tools, and more. The two ratings often used are peak power and contunuous power. Peak power is higher than continuous but can only be sustained for a short time, about 30 seconds or less. It is needed for certain applications like starting pumps or some appliances. Continuous power is just that, sustainable as long as the machine is running. Always be sure you are comparing peak ratings to peak ratings and continuous to continuous.

To view the online version, visit the site at www.lincolnelectric.com/VantageRename

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 fitness for any customers' particular welful disclaimed. Lincoln Electric is a responsive manufacturer, but the selection and use of specific products sold by Lincoln Electric is solely within the control of, and remains the sole responsibility of the customer. Many variables beyond the control of

Lincoln Electric is a responsive manufacturer, but the selection and use of specific products sold by Lincoln Electric is solely within the control of, and remains the sole responsibility of the customer. Many variables beyond the control of Lincoln Electric affect the results obtained in applying these types of fabrication methods and service requirements.

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