



AUTOTRANSFORMER

208/240 VAC to 380/415 VAC

Many Series 700 and Series 800 Lasers manufactured by Lee Laser have ultimate end-user destinations outside of the United States, where power mains line voltage is not 208 VAC (wye) or 240 VAC (delta), 3-phase, 60 Hz, as we have in the U.S. and Canada. Most common is 380 VAC, 3-phase, 50 Hz, for most of Europe, Africa, the Middle East, and parts of Central America, South America and the Pacific rim. Common among British Commonwealth nations (England, Ireland, India, Australia, etc.) is 415 VAC, 3-phase, 50 Hz.

The Series 700 and Series 800 Lasers may be configured at the factory to operate from any of these. To arrange this, customers need only specify it on their purchase order. Normally there is no additional charge for an alternate configuration.

To operate these lasers at the Lee Laser factory, we use a multitap autotransformer that will accept either 208 or 240 VAC input voltage and will generate 380 or 415 VAC output. By doing this, we can test the lasers under the voltage conditions that exist at the end-user's facility. Although the line frequency input at Lee Laser is 60 Hz, operation at a user's facility that has 50 Hz will have little effect on the performance of the laser (other than a 17% reduction in water pump speed).

Lee Laser offers the same type autotransformer to U.S. customers so they also may test their lasers under end-user line voltage conditions.

Summary Specifications:

Part Number	010168
Dimensions:	21" L x 16" W x 16" H (includes castors)
Weight (approx):	200 lbs (90 kg)
Power Capacity:	8 kW
Input Line Cord:	4-Wire for 208/240 VAC input. 8 feet long.
Output Voltage:	Taps for 208, 240, 380, 415, 480 VAC, and Neutral and Ground connection terminals

The transformer is housed inside a sheet-metal cabinet of above dimensions. A circuit breaker is not included, so the input line must be connected to a fused wall outlet box.

For a determination of the line voltage that exists at an end-user installation, customers must consult their end user or customer. When making the inquiry, to avoid misinterpretation, you must specify line voltage as measured ***line-to-line***. Be certain that the reported voltage has not been measured line-to-ground. Also, for the most accurate reporting, ask the end user to actually measure the line voltage. Do not rely on what is "believed" to be the local line voltage based on information from general statements or tables of line voltages that are used in the country or area. These often are incorrect and may not reflect the actual conditions at the end-user facility.

Series 700 and Series 800 Lasers that have been configured for 380/415-VAC operation will be fitted with 5-conductor line cord having European color coded conductors:

Current Carriers:	black, black, brown
Neutral:	blue
Ground (earth):	green/yellow stripe

Customers that may have questions about connection of the autotransformer or internationally configured power supplies should contact Lee Laser.