Calculating the required Generator kVA to operate 3-phase machines such as HTC grinders and vacuum units, Hydrostress wall and wire saws, etc.

1. **Calculate your Wattage:**
   If you do not know the Wattage of your machine, then use this formula to work it out:

   $$V \times A \times \sqrt[3]{} = Wattage$$

   Example: 400V x 32A x 1.73 = 22,144W or 22.144kW

   Formula explained:

V	Volt
A	Ampere
$\sqrt[3]{}$	Cube Root 1.73
W	Wattage
kW	Kilo Wattage

2. **Apply Power Factor:**
   Now multiply the result by the Power Factor 1.5

   22.144 kW x 1.5 = 33.216 kVA

3. **Required Generator:**
   This means a generator with rated output of more than 33.216 kVA is required.

This is a guide only and the publisher will not be responsible for any damages due to misinterpretation or error in data supplied.