INSTALLATION PREPARATION

Congratulations on your recent purchase of Vekta Razer system!

For your installation process to go smoothly, it is important that all preparation tasks have been completed prior to the Razer system container arriving.

Note: Tasks 2 and 3 will need to be done by suitable tradesmen as our site technicians are legally not allowed to perform this work but can be contacted for any required assistance.

Equipment to be supplied by the CUSTOMER

- **Hydraulic Oil ISO 68** (100L)
- **Long Spirit Level** (approximately 2m)
- **Rags**
- **Common Tools** (e.g. spanners, sockets, screwdrivers, grinder with cutting and grinding discs, drill, drill bits, etc.)
- **Industrial Hammer Drill**

Schedule

	Tasks to be completed by the CUSTOMER prior to installation
Day 0: The container arrives. Your system will be shipped in a 40-foot sea container. When the truck arrives with the container, It is important that there is a clear and level area to offload the goods near to where the Razer will be installed. It is recommended to have at least 10m clear of the doors of the container for unloading. A layout plan with the measurements of the system will be sent.	**Task 1**: Mark out the points prior to the installation day to have a clear understanding of how the Razer system will fit into the factory. **Task 2**: Air Connection: The connection point on the saw requires a 1/2" male BSP fitting. The use of flexible hosing should be kept to an absolute minimum. The saw requires on average approximately 15-20 CFM (ft^3/min), peaking to approximately 25 CFM at 100 psi. **Task 3**: Electrical Connection: The electrical feed for the saw must be hard-wired directly into the saw to the location indicated in the layout drawing. A suitably sized gland will need to be drilled and installed in the electrical enclosure. We recommend a 415VAC - 3ph+e - 50A D-Curve supply for the saw itself. The dust extractor will require a dedicated 415VAC - 3ph+e - 20A D-Curve supply. This supply should be routed directly to the dust extractor itself and will also be a hard-wired connection.
Day 1: The container is unloaded and the equipment is put roughly into position. The container will be unloaded completely and ready for pick-up by the end of the first day of installation. The Razer system will generally be ready to have power and air connected to it by the end of the first day of installation.	**Task 4**: Make sure that the area in which the Razer system will be installed is clear and swept clean. **Task 5**: Arrange for a forklift and a forklift operator to be available for the entire day. The forklift will need to have approximately 2.1m tines (or longer), and capable of lifting approximately 2.5 tonnes for the saw chamber. **Task 6**: Arrange for at least one person to assist in the installation. This is particularly important for the first two days of the installation. **Task 7**: Arrange for a licensed electrician to be available in the afternoon to make the connection to the saw. Power cable must be able to reach the electrical switchboard on the saw and correctly terminated with correct gland fitted.
Day 2: The system is connected to power and air. The system is aligned and on-site commissioning is performed.	**Task 8**: Arrange for your nail plate supplier representative to be available to start using files generated by your detailers. They will assist in ensuring the software in the office is configured correctly to send the appropriate data to the saw.

Training

Day 3: On-site commissioning is completed and training begins. The operators are introduced to the system, discussing how the machine is setup, key elements of the machine, basic operation concepts, how jobs are to be cut and how to stack members once cut, materials list, offcuts list, etc.

Day 4: Training continues and the first job is put through the system. Safety and general operation is covered as a priority.

Day 5: The operators are almost running the machine on their own with little input from the installation technician. Maintenance topics are covered. The Razer system is typically in production at this point, though output is still expected to be very low.

Day 6: The operators are fully running the system on their own and only approaching the installation technician when they truly get stuck.

We generally recommend training two people on the saw during the training phase of the installation. Any more than two and we find that the level of understanding of the operators starts to diminish due to having to "share" the experience while we are around to assist and explain. More training packages can be purchased at a later date as needed.

The first couple of jobs should be small and simple jobs that are not required immediately. This will give the operators and the installation technician an opportunity to ensure the system is configured to operate in the most effective manner for your plant. It is highly recommended that as little production pressure as possible is placed on the new system and operators for the first few weeks as the operators gain confidence with the saw.