End-effector

A group of logos on a white background

Description automatically generated

For lifting tasks that require handling weights up to 110 kg, there are several vacuum grippers available that are designed to handle such heavy-duty payloads:

* OnRobot’s VGP20: This vacuum gripper is known for being cost-effective and easy to deploy. It's compatible with all major robot brands and is capable of picking up bulky, heavy-duty payloads. It can handle a wide range of items, including those with irregular shapes and porous surfaces​​.
* ANVER Vacuum Lifters: They offer two pad side grip lifting frames with a capacity of up to 500 lb (227 kg), which is more than double the 110 kg requirement. These vacuum lifters are equipped with a spreader beam and adjustable crossarms with vacuum pads on two sides, suitable for products that cannot be lifted from the top​​.
* SCHMALZ JUMBO ERGO-110: This is specifically mentioned as having a 240 lb (approximately 110 kg) lifting capacity on non-porous materials. This type of lifter is part of a vacuum tube lifter system, which is commonly used for various industrial applications​​.
* Nemo GRABO: This portable electric vacuum lifter is another option that can lift up to 375 lbs (170 kg), which exceeds the 110 kg requirement. It's advertised as being capable of lifting a variety of materials including plastic and wood, along with heavy items​​.

These grippers offer a range of capabilities and features that can be matched to your specific palletizing needs, ensuring that the EOAT is compatible with the FANUC LR Mate 200iD/14L robot and the packages you are working with. When selecting a vacuum gripper, it is also essential to consider the surface type and porosity of the packages to ensure a secure grip.