



## CAVITATION RESISTANCE

Cavitation means danger. It's one of the major problems for hydraulic systems, so it is critical to select the most suitable products. SAI motors not only can stand a partial missing of oil, but can also run in full cavitation. Exactly! Empty cylinders, no oil, and even at high speeds! This can happen thanks to the oil inside the motor case that guarantees the lubrication of the internal parts. The retaining force always fully counteracts any separating force, preventing lifting, tilting and hammering of the piston during cavitation.



# SAI

Hydraulic Motors

**PROVIDES SOLUTIONS FOR ALL YOUR AGRICULTURAL AND FORESTRY APPLICATIONS**



## HIGH EFFICIENCY

- ✓ Smaller components to achieve higher performance levels
- ✓ Less friction
- ✓ Less heat generation
- ✓ Smaller cooling systems required
- ✓ Lower stress levels in the components
- ✓ High reliability







**HIGH STARTING TORQUE: 95% HIGH  
MECHANICAL AND VOLUMETRIC EFFICIENCY**

**WIDE SPEED RANGE**

**FREEWHEELING**

- ✓ **High starting torque** enables to overcome larger obstacles and steeper slopes.
- ✓ The motors can be driven at **higher speeds** than under normal working conditions, as they are designed to operate in "VACUUM FREEWHEELING".



## **HIGH VOLUMETRIC EFFICIENCY**

The SAI motors have very high volumetric efficiencies in all operating conditions (typically 99%).

The seal design ensures the volumetric efficiency is not affected if components get worn with use.

