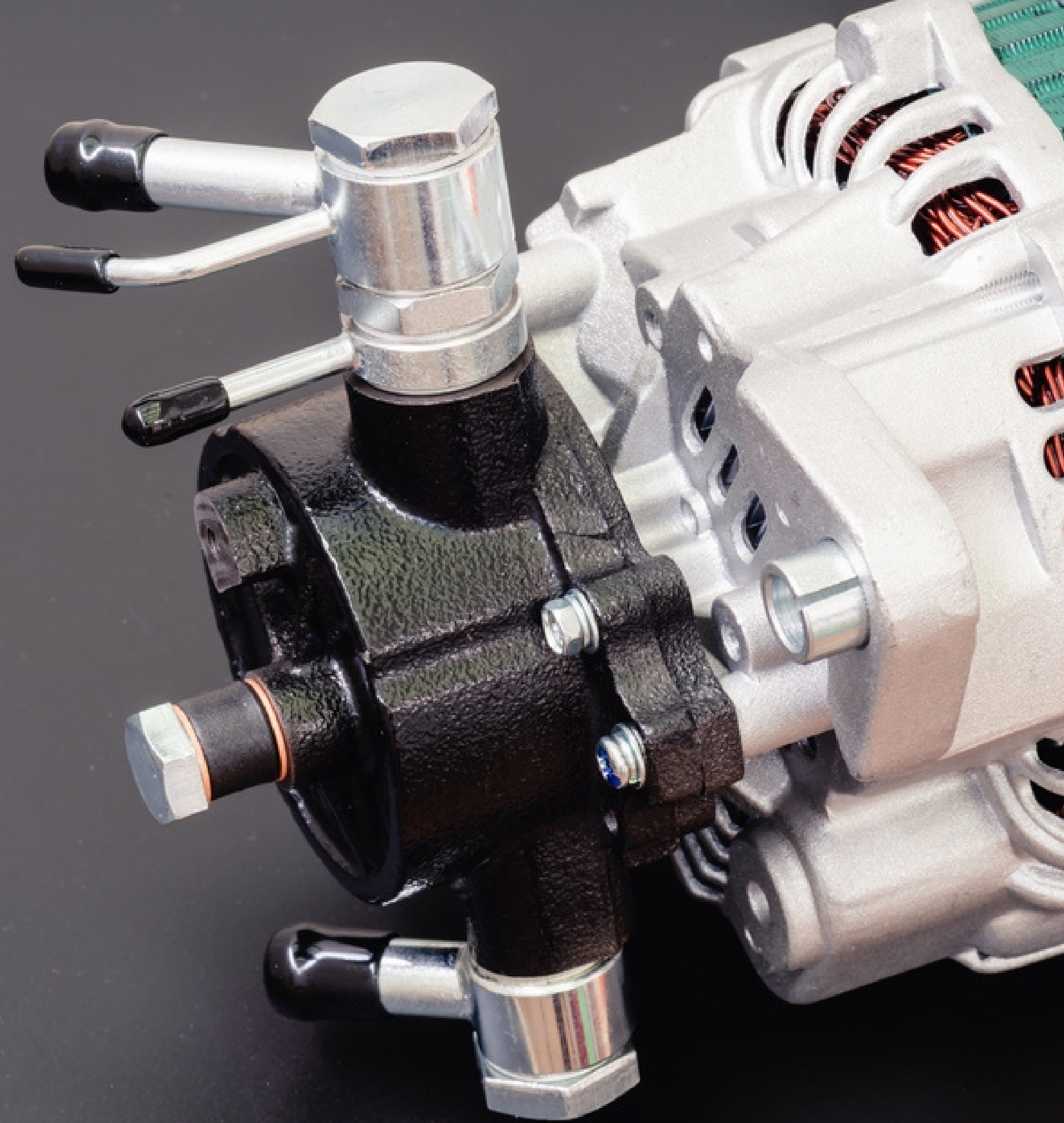


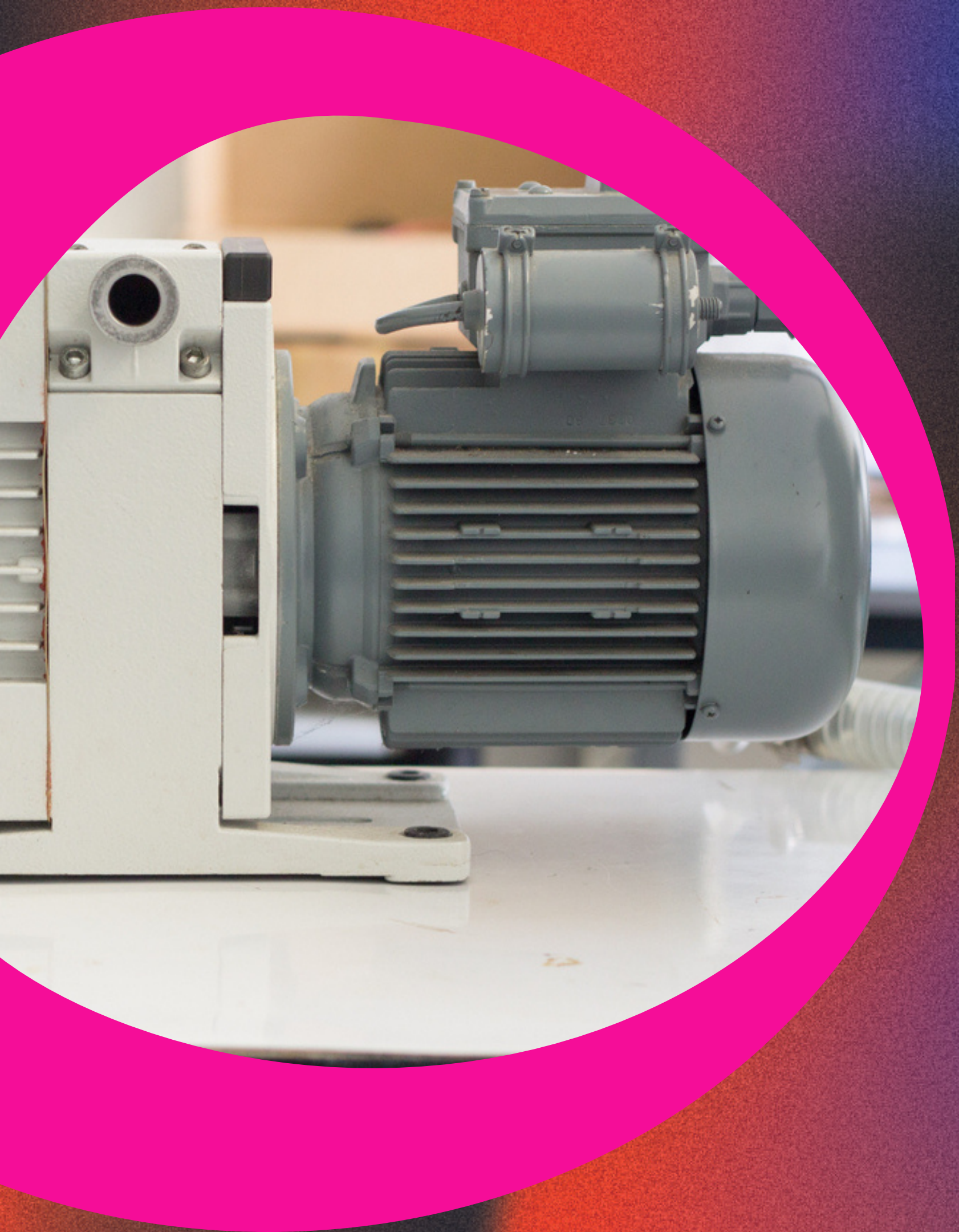
WHY DOES A VACUUM PUMP NEED WATER?

BY WEST TECHNOLOGY

OVERVIEW

A VACUUM PUMP DOESN'T NECESSARILY NEED WATER TO FUNCTION, SOME TYPES OF VACUUM PUMPS, SUCH AS WATER RING VACUUM PUMPS, REQUIRE WATER IN THEIR OPERATION. WATER IS USED FOR SEVERAL PURPOSES IN THESE PUMPS, INCLUDING COOLING, LUBRICATION, SEALING, CLEANING, AND VAPOUR HANDLING. HERE ARE FIVE REASONS WHY WATER IS USED IN SOME VACUUM PUMPS



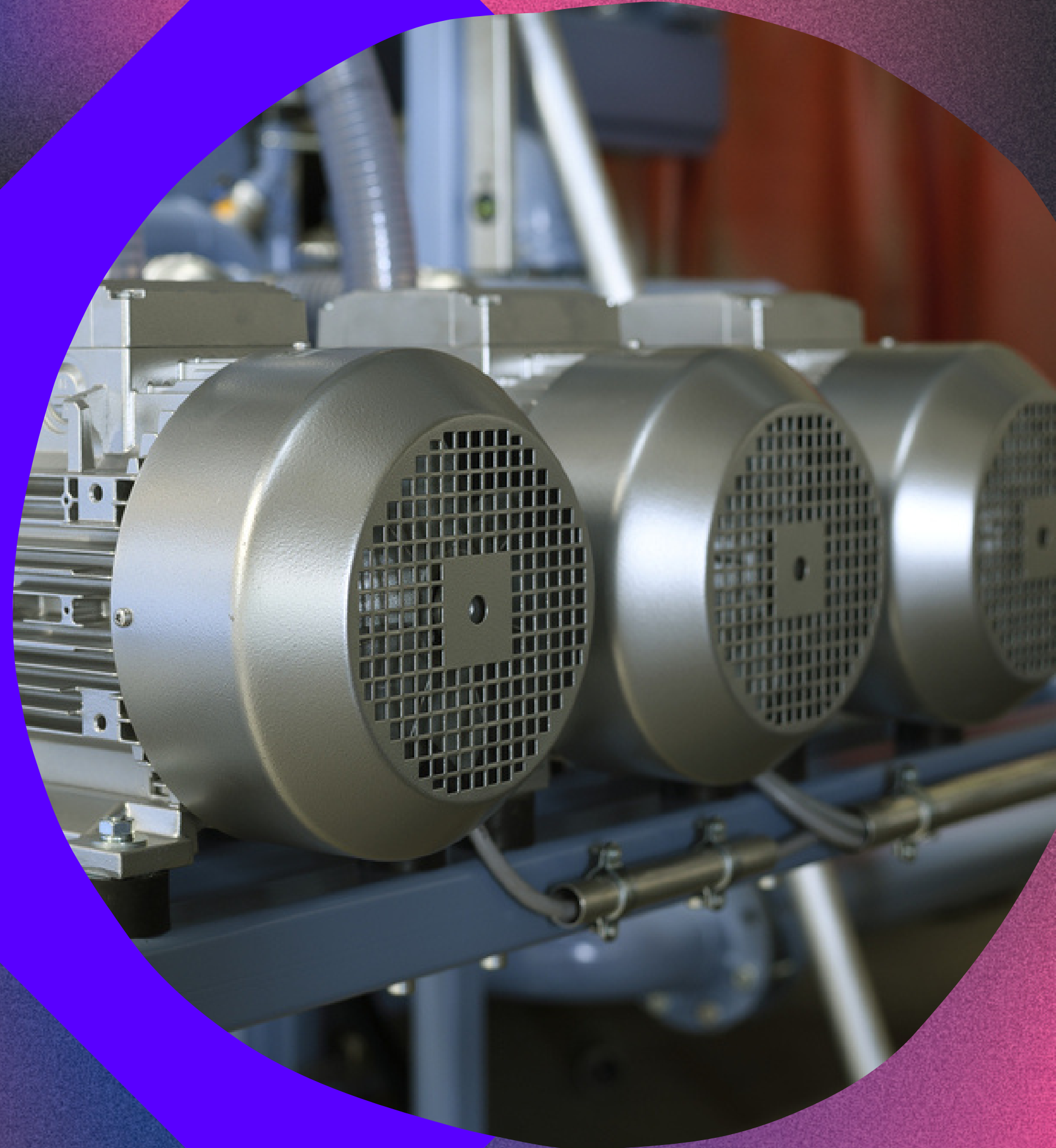


COOLING:

WATER IS USED AS A COOLING AGENT TO PREVENT THE PUMP FROM OVERHEATING DURING OPERATION. WATER IS CIRCULATED THROUGH THE PUMP TO ABSORB THE HEAT GENERATED BY THE COMPRESSION PROCESS AND THEN REMOVED TO MAINTAIN THE PUMP AT A SAFE OPERATING TEMPERATURE.

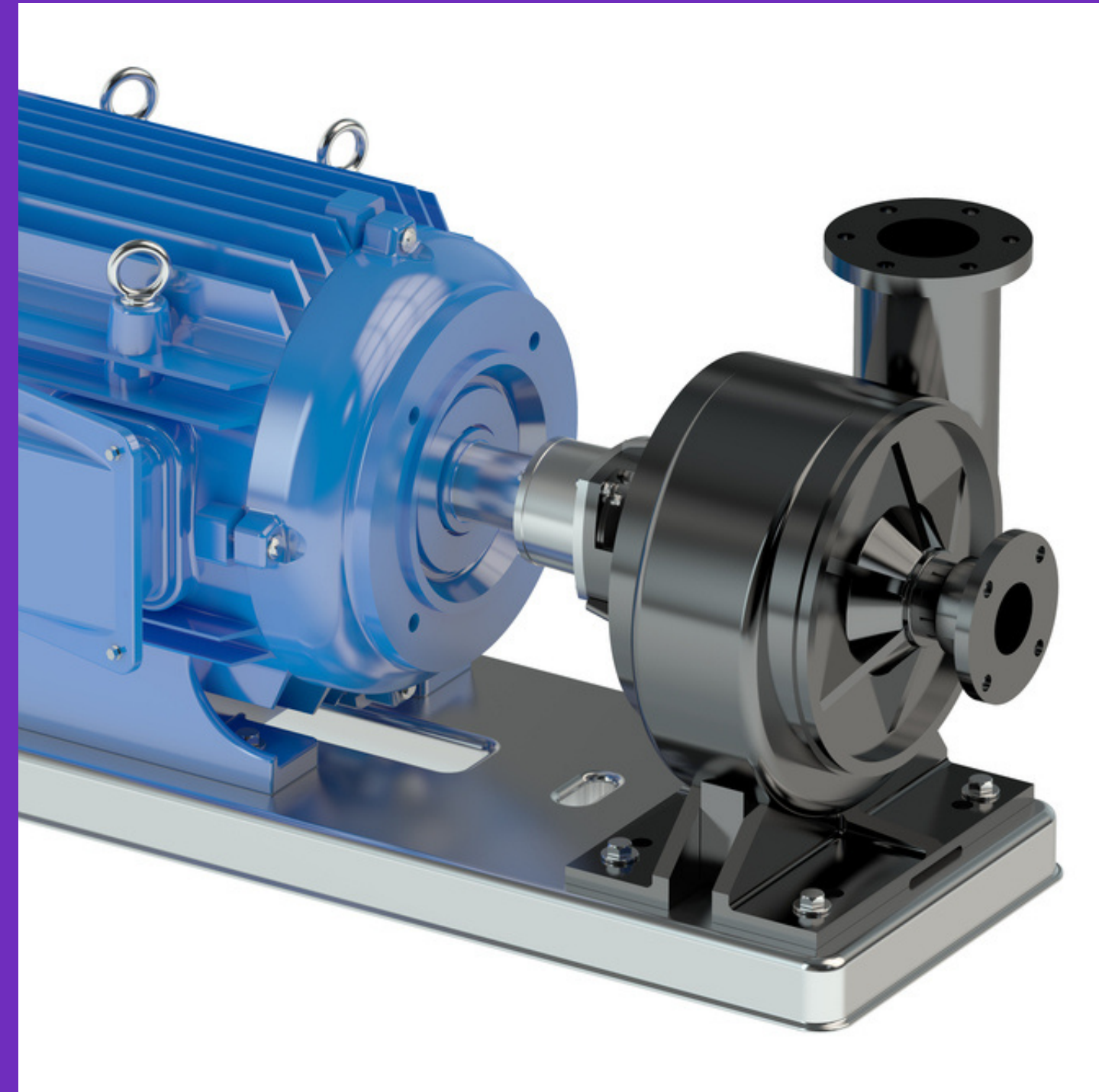
VAPOUR HANDLING:

SOME WATER RING VACUUM PUMPS ARE USED TO HANDLE VAPOURS OR GASES THAT ARE DIFFICULT TO PUMP USING OTHER METHODS. THE WATER IN THESE PUMPS HELPS TO CONDENSE THE VAPOUR OR GAS, MAKING IT EASIER TO PUMP AND REMOVE IT FROM THE SYSTEM.



LUBRICATION

WATER IS USED AS A LUBRICANT IN SOME TYPES OF WATER RING VACUUM PUMPS. IT PROVIDES A THIN FILM OF LUBRICATION BETWEEN THE PUMP'S ROTATING PARTS, REDUCING FRICTION AND WEAR.



SEALING:

WATER CREATES A SEAL BETWEEN THE PUMP'S IMPELLER AND THE PUMP CASING, PREVENTING AIR FROM LEAKING BACK INTO THE VACUUM CHAMBER.



CLEANING:
WATER IS USED TO FLUSH
OUT ANY IMPURITIES OR
DEBRIS THAT MAY
ACCUMULATE INSIDE THE
PUMP DURING OPERATION,
HELPING TO KEEP THE PUMP
CLEAN AND MAINTAIN ITS
PERFORMANCE.



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