

Motor/Pump Flexible Couplings

Drive couplings between the motor and the pump perform two basic functions. First, they transmit the torque available from the motor to the pump. Second, because the driver and pump are separate pieces of equipment, there will always be some degree of misalignment between their shafts. The coupling compensates for the angular, parallel and axial misalignment between the two connected shafts. Therefore, the coupling must have the additional capability of allowing for a small degree of shaft misalignment. To accept this, couplings must have some degree of flexibility and, as such, are called "flexible couplings."

Although the word "flexible" leads one to believe that misalignment is acceptable, that is not the case. A misaligned coupling will cause premature pump and motor bearing failure, as well as damage to the coupling itself. Therefore, it is very important that the alignment of the coupling is correct. On MART Power Washers the motor is "barrel" mounted to the pump to help assure the proper alignment. All that is required is that the motor face and pump mounting face be clean of any debris prior to mounting the motor and proper shaft alignment is assured.

Our MART Power Washers use a regular jaw type coupling. These couplings normally consist of two sets of interlocking teeth, each set mounting to its respective shaft end via a keyway. A gap exists between each alternating jaw and a flexible rubber insert, called a spider, is placed in between the coupling halves.

MART Straight-Side Jaw Couplings

Features and Benefits

- Fail-safe – will still perform if spider fails.
- These couplings require no lubrication and provide highly reliable service for MART Power Washer applications.
- Resistant to oil, dirt, sand, moisture and grease.
- Available from stock in 24-hours.

