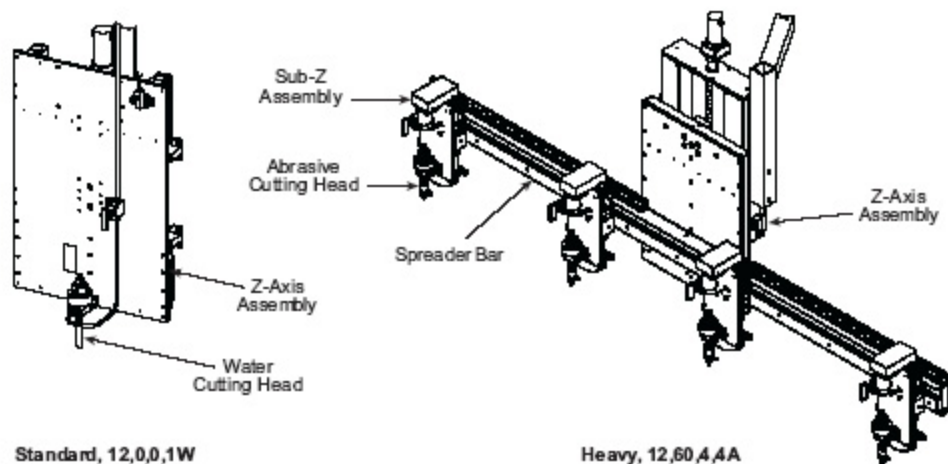


## Z-Packages

Every high rail motion control system includes a Z-package. A Z-package includes the z-axis, one or more cutting heads and other components as needed. The Z-package can also include a spreader bar and sub-z assemblies.

**Z-axis** A z-axis raises and lowers the cutting tool between a cutting position and a non-cutting position (for loading and unloading material); this is used for cutting flat material.



**Spreader bars** Spreader bars are available in lengths of up to 12 feet. Welded steel spreader bars are available from 4–12 feet in two foot increments. Extruded aluminium spreader bars are available in any length up to 12 feet.

**Sub-Z** A sub-z assembly provides an additional 3 inches of z-axis travel for each cutting head. One sub-Z assembly can accommodate one cutting head. Sub-z assemblies are mounted to a spreader bar.

**Water tools** Z-packages can have any combination of waterjets, abrasivejets, and other tools. The Z package designation includes all water tools in the package.

- The waterjet designation (W) is an OmniJet cutting head. An OmniJet has a pneumatic valve to control a needle valve that turns UHP water on and off. See the OmniJet product manual for more information.
- The abrasivejet designation (A) is an OmniJet with a Permalign cutting head. The Permalign cutting head has a mixing chamber where abrasive garnet is integrated into the UHP water stream. See the OmniJet and Permalign product manual for more information.
- Other tools include a rotary cleaning manifold and pneumatic drill.

Each water tool has a manual shut off valve for the UHP water supply mounted on the z-axis assembly.