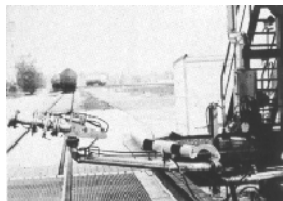


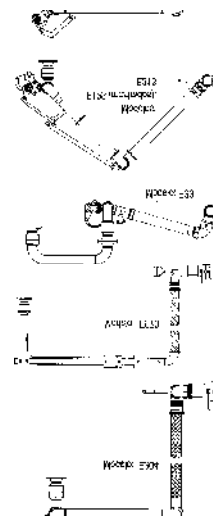
## Bottom Loading Systems



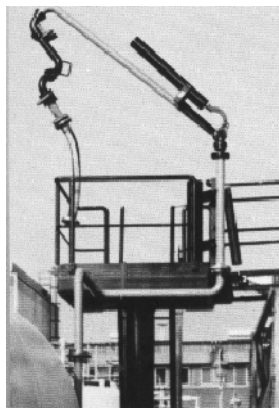
**A FRAME**  
Recommended when cross-over is not required and when loading arm heights is restricted. Often used for aviation refuelers, railcars, chemical transport and aircraft refueling.

**HOSE LOADER - SPRING BALANCE**  
Recommended when multiple cross-over is required

**HOSE LOADER - COUNTER WEIGHTED**  
Recommended when three or more products are loaded simultaneously



## Top Loading Systems



**DRY LINE SECONDARY OR PANTOGRAPH**  
Recommended for heavy duty applications where loading is not required from both sides of the rack.

**WET LINE SECONDARY OR PANTOGRAPH**  
Recommended for applications where outboard valve is optimum.

**RIGID TUBE (FIXED REACH)**  
Recommended where accurate spotting of railcar or tank truck can be readily accomplished

**MODIFIED BOOM (UNSUPPORTED)**  
Recommended for medium reach applications where is not practical to have supported bottoms.

**LONG RANGE BOOM (Supported)**  
Recommended for extended reach requirements.

