

# MULTIPLE PIG LAUNCHING SYSTEMS-(MPL)



Multiple Pig Launcher

## MPL SYSTEMS

Patented Pig Standby and Bypass (PSB) technology from Celeros Flow Technology allows automated pigging on oil & gas pipelines to be managed remotely, either from land or a main platform – making it a critical component for the development of unmanned or normally unmanned platform pigging solutions.

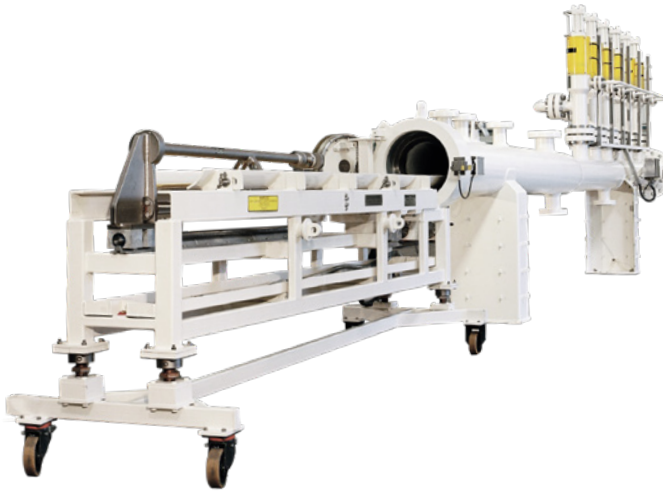
Developed by GD Engineering, the PSB solution is designed to be integrated with an automated multiple pig launcher

vessel. It provides a reliable solution, allowing multiple pigs to be preloaded into the launcher vessel and sequentially launched without the need to depressurize the vessel between pigging runs. PSB is a proven system for ensuring that individual pigs are positively launched into the pipeline. It allows interchangeability of any type of conventional pig with the same dimensions as the original pig design, as well as allowing future change-out of conventional pigs with intelligent pigs.

## RECENT PROJECTS:

### Project - Caspian Sea

This 12-inch class 1500 Multiple Pig Launching System was installed on the TPG 500 jackup platform in the Caspian Sea. The 12-inch condensate marine pipeline from the platform to the terminal at Baku was predicted to be subject to heavy wax build up. Frequent pigging operations were necessary to keep the line clear of wax deposits. The Multiple Pig Launcher enables up to 5 pigs to be launched without the need to depressurise the launcher between launching operations.



Pig launch was initiated from an LCP using PLC based logic integrated with a mechanical key interlock system.

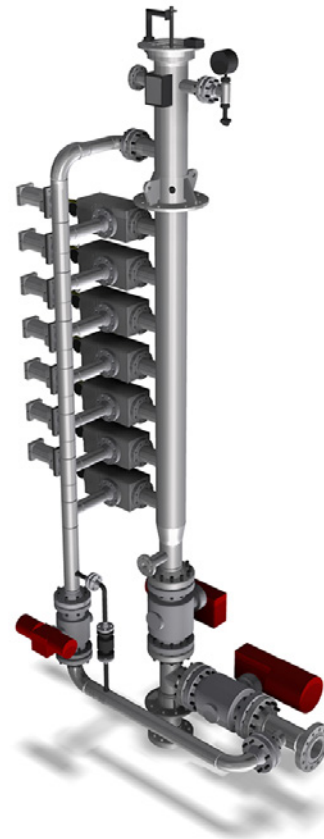
### Project - New Zealand

This 12-inch class 2500 remotely operated Multiple Pig Launching System was installed on an unmanned offshore platform located in the Taranaki Basin, 30 km off the west coast of the North Island of New Zealand. The 12-inch condensate pipeline from the platform to the shore required frequent pigging operations to control wax build up in the pipeline. The Launcher was capable of storing up to 5 pigs and launching each pig sequentially. Remote operation and status monitoring was performed by the DCS using logic control.

### Project - Black Sea

This Multiple Pig Launching System was required to be retrofitted to an existing unmanned satellite platform located in the Black Sea. Pigging operations could only be performed by operator intervention on the platform. Access to the existing conventional launcher was limited, inclement weather conditions could interfere with essential pipeline maintenance operations. The field operator required a remotely operated pigging system to replace the need for operators to attend the satellite platform.

A 6-inch class 600 vertical Multiple Pig Launcher and LCP with a PLC based logic control system was installed to provide the required facility. The launcher was capable of storing 7 pigs with sequential launch operations initiated remotely from the central platform via a DCS link.



P: +1 281 469 0550

E: [gd@celerosft.com](mailto:gd@celerosft.com)



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