

AUTOMATED PIGGING SYSTEMS

WeldFit Energy Group

specializes in the design, engineering, manufacturing and quality testing of automated pigging systems that can be utilized to perform four separate pigging functions: liquid recovery, cleaning, batching and in-line inspections. The **SURELAUNCH** automated pigging system can launch any type of pig individually at pre-set launch intervals through the use of a logic-driven control system and an electrical drive system. The horizontally oriented launcher design is loaded with multiple pigs in one loading operation that allows the launching of a single cleaning pig, batching pig or spherical pig for both liquid and gas pipeline service applications.



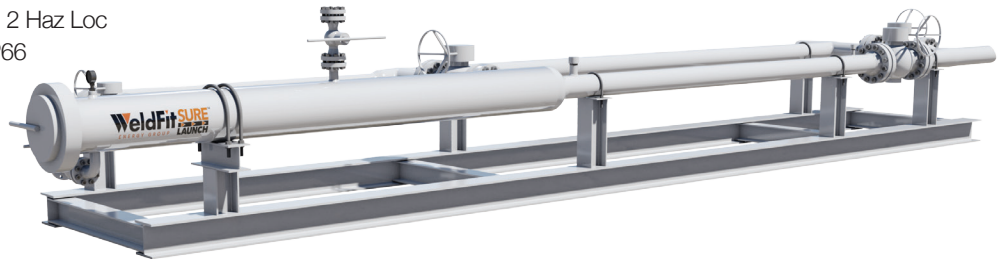
Key Features & Benefits:

- Horizontal design eliminates access platforms and lifting equipment to reduce safety risks, transportation costs and field installation costs
- The mechanical launch mechanism ensures pig launches in high and low flow conditions
- The flow-through barrel design of the automated pigging system removes the need to open and close valves for each pig launch, resulting in an increase of the valve operating service-life and a reduction of maintenance costs, environmental emissions and safety risk exposure
- The electric drive system can be powered by 115 VAC or 24 VDC Class 1, Division 1 & 2 compliant power to eliminate supply gas, supply gas treatment and emissions
- Launch system is controlled by drive system that allows any type of pig to be launched to meet operator's specific pigging requirements
- Standard launcher is designed to accommodate up to seven cleaning pigs or length of typical in-line inspection tools
- Standard receiver is designed to accommodate up to eight cleaning pigs or length of typical in-line inspection tools
- Primer coated ready for customer desired paint system or painted to customer's paint specification
- Quick opening closure standard on all units
- Designed with the appropriate quantity and size of nozzles for vents, pressure gauges and drains
- Data Package provided for code compliance
- Hydrostatic pressure tested in accordance to the applicable codes
- All units are skid mounted
- Ethernet/IP address for remote access capabilities
- Designed to applicable safety design factor
- Inspected and designed in accordance to the applicable pipeline codes (B31.8, B31.4, B31.3, Sec. VIII Div. 1)

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Specifications:

- Sizes: 4" nominal to 42" nominal line pipe
- Barrel Capacity:
 - Launcher – 7 Cleaning pigs (2D) or length of one ILI tool
 - Receiver – 8 Cleaning pigs (2D) or length of one ILI tool
- Pressure Rating: ANSI 150#, 300#, 600#, 900# & 1500#
- Product: Liquid and Gas Service
- Product Temperature Range: -50° F to 150° F
- Power Options: 24VDC, 115VAC or 230 VAC
- HMI: EXOR eTOP507G 7" TFT widescreen
 - CPU – ARM CORTEX-A8 – 600 MHz
 - User Memory – 128 MB Flash
 - Serial – RS-232, RS-485, RS-422
 - Ethernet – Two 1-/100 Mbit with integrated switch
 - USB – Two Host Interfaces
 - Temperature Range: -25° F to 140° F
- Explosion Proof Rating: Class 1, Div. 2 Haz Loc
- Environmental Rating: NEMA 4X / IP66



Extrusion Process:

Dies are used inside and outside of the part to control the outlet shape. Launcher and receiver sections are extruded hot or cold, depending on exact plate chemistry or requirements. Extrusion may be pre-formed in several stages, with proper heat treatment between operations.

Quality Assurance:

Extruded outlets allow for 100% radiographic examination of all welds and ensure the cross section transition is uniform. Resistance to notch-sensitivity and fatigue failures prevents future quality issues.

Superior Strength:

By moving the weld away from the highly stressed crotch area of the outlet, an extrusion offers a more reliable, proven connection than a welded-in or padded outlet. Fatigue cracking from cyclic or thermal loads is eliminated in some environments by extruded outlets. The butt weld of an extruded outlet also simplifies radiographic examination.

Design Flexibility:

Extruded launchers and receivers can offer design advantages unavailable with standard fittings. Design flexibility allows placement of outlets where you want them, along with varied specifications to meet stringent code requirements. Outlet configurations can be designed to maximize cost savings or minimize space requirements.

Skid Mounted Launchers and Receivers:

We offer a complete skid mounted package that can include a catch pan under closure door to prevent contamination of the environment; pig launching tray and overhead crane to simplify the loading and unloading of large diameter pigs or inline inspection tools.

Options:

- Semi-automated capabilities without logic-driven controls
- Semi-automated systems can be equipped with electric drive motor or can be manually operated when electric power is not available
- Corrosion coupon holders for monitoring internal corrosion rates
- Pull nozzles for loading in-line inspection tools
- Overlays of trap components for corrosive service applications
- Valve packages available upon request
- In-Field application engineering, project management, training and commissioning services
- Extruded nozzles eliminate tees and reduce girth welds on the outlets during field installation



4133 Southerland
Houston, Texas 77092
phone: 713.460.3700
fax: 713.939.1808

www.weldfit.com

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