



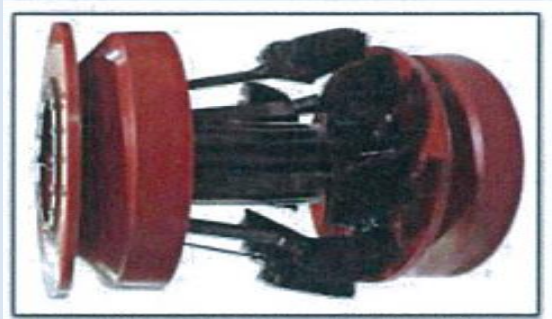
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# PIGGING EQUIPMENT

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## **PIPELINE PIGGING**

This brochure details common feature related pipe line pigging, which is a common practice across all industries where pipe lines are used to transfer various fluids.

Initially pigging was used to clean the internal wall of the pipes, however a large variety of pigs has now evolved, and typically they perform functions such as, separation of products, cleaning out deposits and debris, gauging internal bore, internal inspection, gas or liquid removal, coating internal bore and corrosion inhibition to name a few.

### **PIGS**



**Fig: 1**

Figure 1 above shows some of the typical pigs used in pigging. From left to right, Poly pig with abrasive strips, batching cup type pig, cleaning pig with spring loaded brushes.

In industrial applications wide variation of these pigs and combinations of these pigs are used to achieve the outcome required.

### **PIG LAUNCHERS AND RECEIVERS**



**Fig: 2**

In order to launch a pig into a pipe line pig launcher as shown in figure 2 is used and pig receiver is required to trap the pig at the end of the pigging process. Pig launchers and receivers consist of major barrel, concentric or eccentric reducer, minor barrel, QOC, pig indicator, and numerous nozzles such as kicker line, balance line, bypass, drain, vent, instrumentation etc.

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Design of pig launchers and receivers are carried out to suit the type of the pigs used in the pigging process.

### **QUICK OPENING CLOSURES**

It is a common practice to have quick opening closure on pig launchers and receivers to allow quick access to insert or remove pigs from the pipe line. The designs launchers and receivers with one of the three types of quick opening closures available in the market. They are threaded closures, jaw type closure or band-lock type closures.



**Fig: 3**

Type of closures shown above in figure 3, from left to right are threaded closure, jaw type closure and band-lock type closure. Type of closure is selected based on customer specification, design availability and design conditions.

Following optional items can be supplied with pigging systems upon request:

- Supply of interconnecting pipes and valves
- Supply of pressure relief valve, pressure gauges
- Skid mounted systems
- Trolley and tray for pig handing
- Jib crane to support handling of pigs

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## **PICTURE GALLERY OF RECENT JOBS**



800 NB PIG LAUNCHER AND RECEIVER BEING HYDRO TESTED. THIS WAS SPECIALLY DESIGNED TO ACCOMMODATE EXTRA LONG INTELLIGENT PIGS.



SPHERE PIG LAUNCHER WITH PIG PINS AND SPHERE PIG RECEIVER



PIG LAUNCHERS AND RECEIVERS READY TO BE SHIPPED.

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