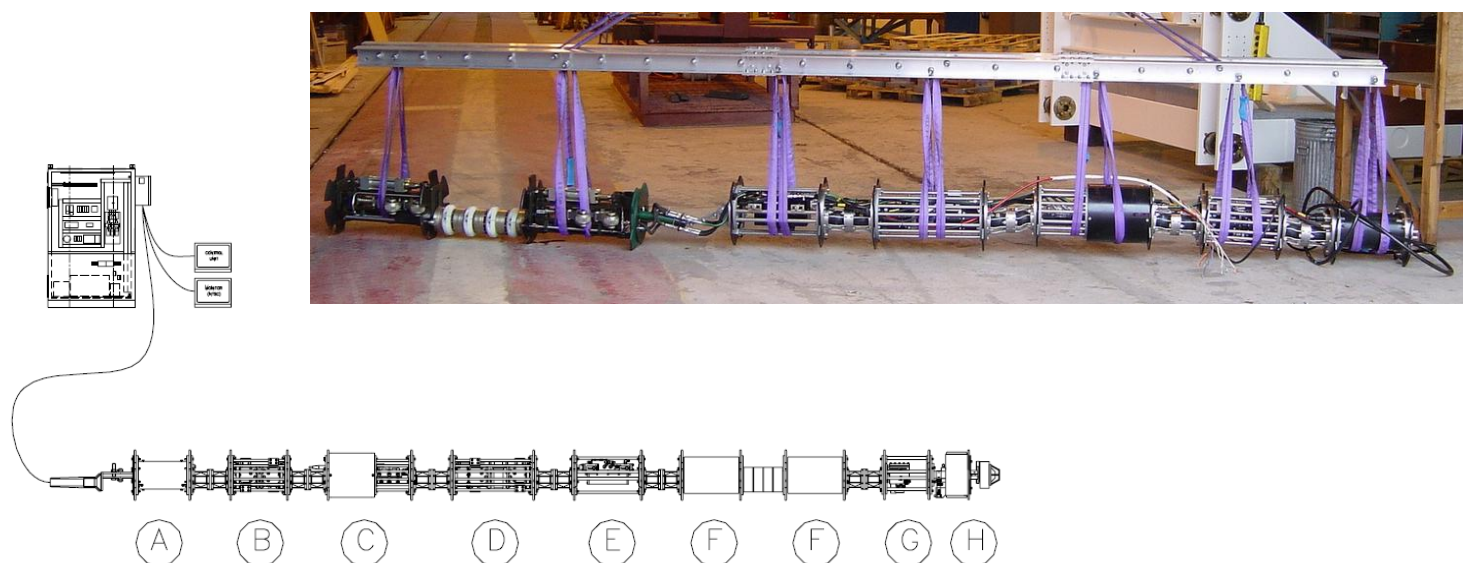


# GIRINO Pipe Crawler System.



- |   |         |
|---|---------|
| (A) Umbilical junction box                          | 1 unit  |
| (B) Compensation system                             | 1 unit  |
| (C) HPU   | 1 unit  |
| (D) Hydraulic reservoir                             | 1 unit  |
| (E) Main valve pack                                 | 1 unit  |
| (F) Motive system                                   | 2 units |
| (G) Tools Control Unit                              | 1 unit  |
| (H) Tool head (camera and pipe reconstruction tool) |         |

## Project Summary

- Client: Petrobras
- Delivery Date. Aug 2005
- PSS Part Number A290-100-002
- System included miniature HPU, valve pack, video head, pipe reforming tool.
- Used with clients pipe crawling mechanism.

Petrobras approached PSS to provide a solution for providing power and control to a pipe crawler system that the client had developed. Later in the project a video camera system was added and a tool to reform damaged pipes.

PSS Drawing Number A001-350-106 iss 1

The specification details are illustrative for marketing purposes only. Actual equipment may be different as a result of product improvement or other reasons. Specific interface and performance information should be reconfirmed at time of order placement.