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## Quality Assurance delivered by **POWER TEAM®**

Power Team High Force (700 Bar) Hydraulic Equipment has been used in the installation of a press system to simulate forces up to 30T on underground mine roof plates. This Quality Assurance project uses a range of Power Team equipment and records the data via a pressure transducer with the data being graphed using a computer data recorder.

Due to the application, a standard Power Team press was not utilised but rather a specially designed unit was built using Power Team components, these included:

- PE464-50-220 - Double acting, two speed high performance electric pump
- RD 556 - 55T, 6" stroke, double acting hydraulic ram
- SPF55 - Power Team hydraulic press frame



PE464-50-220



RD556

Furthermore, a 600 Bar Pressure Transducer, Automatic Electrical Control Panel and Guard with Limit Switch were also required. All hoses, gauges and accessories were also supplied by Power Team to complete the unique hydraulic press design.

**Press Operation:** The press incorporates an electrical panel installed with manual or automatic function. When in the automatic setting, the guard frame must be in place via a limit switch before operation can commence. To start operation the "Go" button is pressed which actuates the cylinder extending it onto the plate. Once the cylinder reaches the limit switch, the cylinder automatically retracts. The Pressure transducer captures pressure spikes and data which are formulated and graphed showing an accurate representation of the force required in each roof plate.



This systems allows for the testing of roof plates to be carried out in a controlled, safe and measurable environment ensuring that all plates meet the required parameters. Next time you are faced with an application that seems a little outside the norm, you can rely on Power Team Hydraulic Tools and Equipment to get the job done.

## handy hydraulic hint

Power Team's heavy duty presses are rated to full capacity across the full width of the upper frame, regardless of where the work-head is located. Furthermore, the uprights on Power Team presses are 50% stronger than channel iron making them suitable for the most testing applications.

