

The following is a brief summary of the operation of the A5 Drill

It assumes the operators have a basic understanding of operating hydraulic diamond drills.
Should you require more in depth assistance on operation of the drill please contact Zinex Mining.

Functions listed below are from drillers right to left hand side of control panel.

Function	Operation
Rotation	Moving handle towards the dash engages rotation for drilling Moving handle towards driller engages reverse rotation for breaking rods
Fast Feed	Moving handle towards dash and towards driller moves head up and down This can be changed to suit drillers preference by switching hydraulic lines
Wireline	This handle engages wireline winch which spools and unspools the wireline
Raise/Lower Hoisting Winch	<p>This valve is for raising and lowering the mast. When you are ready to raise the mast and the two lines are attached to the rod and blind end of the feed frame raise cylinders. Engage valve and raise feedframe to the desired angle. Once desired angle is achieved attach stifflegs to the feedframe securely. Once they are secure the lines can be detached and attached to the hoisting winch. The raise cylinders should be securely capped to prevent feedframe from falling should stifflegs slip.</p> <p>There is a case drain line for the hoisting winch which is the fitting at the twelve o'clock position on the motor. Once the hoisting winch lines are attached winch should be operational. It is critically important to make sure the winch wire is spooled the correct way and freespooling is functioning correctly. Winch only freespools in one direction so wire has to be wound on correctly to allow it to freespool when you are drilling down in slowfeed mode.</p> <p>Winch is only designed to lift a single rod onto the string.</p> <p>It is important to note that you cannot use fast feed to pull line off of the winch. Going faster than winch can freespool will cause damage to the aluminum stinger. The winch having a controlled freespool is a safety feature which prevents the rod from freefalling should the driller accidentally disengage the hydraulic valve while hoisting the rod.</p>
SlowFeed/ Float	Moving this lever to its detent toward the dash with engage slow feed. In order for the slow feed to work the driller has to now open the fine feed valve on the dash to the desired feed rate.

SlowFeed/ Float	Moving this lever towards the driller will engage float. Float is used while operating the rotation in reverse to facilitate breaking the rods. Float will allow the head to move up as the threads unscrew which prevents damage.
Water	The water pump valve is engaged by moving the lever towards the dash. The driller then needs to open the water flow control valve to the desired flow rate. Opening this valve causes the more hydraulic flow to the pressure pump motor therefore more water flow.
Holdback	Holdback is used to counteract the weight that accumulates as the driller adds rods into the hole. At the point where rod weight is more than desired feed pressure for drilling holdback is engaged to scrub some of this weight off off the feed pressure.
Drilling Mode	Drilling mode is for drilling - the footclamp stays open
Rods Out Mode	When the fast feed is engaged in this mode the chuck will be closed when the head moves up the mast and will open when the head travels down the mast.
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Remember it is critically important to check/clean the strainer on the drill head hourly until it remains clean during the breakin process. After that it should be checked every shift. Damage to the drill head bearings will occur if filter becomes clogged and bearing are then not lubricated.

It is the responsibility of the operators to become familiar with the drill and its operation prior to commencing drilling operations. Should further clarification or assistance be required call Zinex Mining or Fordia immediatly.

It is the responsibility of the operator to ensure that the drill meets the safety requirements for the juristiction of which the drill is beign operated. This includes all necessary gaurding and lableing. Contact Zinex should you have specific requirements.

Any unauthorized modifications to the drill or using the drill in a ways which it was not designed for are the responsibility of the client and Zinex does not condone these actions.