BASIC UNIT CONSTRUCTION

S, DQ AND M MODEL CONSTRUCTION
Drill spindle with 6 splined drive on one end and taper at other end, mounted with one or two double row ball bearings. Rigid Quill-Piston supports Spindle Assembly. Quill is supported for full stroke in front and rear heads of unit. Rotation is transmitted to the drive pulley mounted on a sleeve take-off in rear housing. Ports in front and rear head provide air or hydraulic flow to allow reciprocating action.

SP MODEL CONSTRUCTION
Drill spindle with 6 splined drive on one end and taper at the other end is mounted with a double row ball bearing. Quill-Piston Assembly supports Spindle Assembly. Quill-Piston Spindle Assembly mounted in honed burnished cylinder with quill supported in front head of unit and piston supported on center tube in rear head. Integral mounted pulley drives spindle. Ports in front and rear head provide air or hydraulic flow to allow reciprocating action.

STROKE CONTROL ASSEMBLY
The Hypneumat unit is controlled through a four-way air or hydraulic valve in conjunction with the Hypneumat Stroke Control Assembly. The Electric Stroke Control Assembly operates on the principle of straight line cam actuation of switches. One switch is actuated at end of feed stroke to give positive control of depth. Another switch is provided for actuation when unit is in retract position, for use as interlock or to energize another component in electrical circuit. Switches are single pole, double throw, N.O. - N.C. Special double pole, double throw switches available. An additional switch, cam operated at or during any part of the stroke, can be supplied on application.

HYDRA-BRAKE ASSEMBLY
The Hypneumat Hydra-Brake provides controlled Hydraulic feed when using air as the thrust force to the Hypneumat unit. The Hydra-Brake is not normally used in tapping or hydraulic operations. In some cases of drilling applications the Hydra-Brake is used merely as break-thru cushion to prevent drill-dive at break-thru.

UNIT DESCRIPTION INFORMATION

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NOTE 1: If double pole, double throw switches are required for either depth or interlock switches, specify as optional item.

NOTE 2: Electrical Switches can be replaced with Air Pressure Type or Air Bleeder Type depth and interlock valves.