

Functional Operations

Service Braking - Using the brake handle of the brake valve, the driller can control the pressure on the service calipers of the disk brake allowing accurate and precise control of the movement of the traveling assembly.

Emergency braking - In the event of a failure in the hydraulic control circuit or loss of pressure, the emergency calipers are released, the springs actuate the calipers causing a controlled stop

Parking Brake - To insure no block movement or if the driller



leaves the control area, the parking brake valve can be actuated so that the emergency calipers are applied. This prevents any block movement, regardless of the status of system pressures.

Interface With Other Systems

The Drawworks Disk Brake system can be interfaced with our unique **Autodrilling System**, and/or any of our patented line of block controlling systems. During drilling and tripping, combining a series 7500 disk brake with our autodriller incorporating our unique "Rig Match" feature and our *Traveling Block Controller* (**U. S. Patent Number 5,342,020**) that incorporates "Soft Stop" and "Intelligent Crown - A- Matic" provides a complete solution to safe and accurate block operation during all conditions. The driller is warned of potentially unsafe conditions and if necessary, the Traveling Block Controller maintains safe rig operation. An optional "Overpull" feature is available to disengage the clutch and set the brake if the hook weight exceeds a preset value.

Other options include Electronic Remote Control packages and Electronic Joystick Controls.

Your Rig Systems Partner

Innovative Electronics' business philosophy is to work as a partner with our clients, not just as a vendor.

Our project and application engineers will work with you to implement the best, most cost effective solutions possible. Our organization is available to you 24 hours a day, seven days a week .

At Innovative Electronics, "**Quality by Design, Satisfaction by Performance**" is not just a tag line, it's our business philosophy.

Nominal Specifications for Various Size Packages

Caliper Size	Drawworks HP	Drilling Depth		Max. Force, Single Side		Caliper Count		System Press.	
		Feet	Meters	Service Caliper	Safety Caliper	Safety	Service	PSI	mPa
				kN	kN				
90	3000	29500	9000	90	90	4	6	1450	10
75	2000	23000	7000	75	90	2	6	1160	8
75	1500	16500	5000	75	90	2	4	1160	8
65	1000	13000	4000	65	75	2	4	950	6.5
65	550-750	10000	3000	65	75	2	2	950	6.5
65	350-550	6500	2000	65	75	2	2	950	6.5
50	350-450	5000	1500	50	50	2	2	870	6
50	150-270	3200	1000	50	50	2	2	870	6

Inquiry Information

Packages are available for new or existing drawworks assemblies. Retrofit packages can be engineered to meet specific existing requirements. Brake controls can be all hydraulic, pneumatic/hydraulic or electronic/hydraulic. Drillers controls can be installed in any location convenient to the driller. For a quotation on your requirements, contact Innovative Electronics and request a "Quoting Sheet for Series 7500 Disk Brake"

For Additional Information Contact:



P.O. Box 1367, Stafford, Texas 77497 U.S.A. • Phone: (281) 240-7355 • Fax: (281) 240-7356
www.innelect.com Email: **sales@innelect.com** Div. of Lucere, LLC DiskBrakeLett Rev. 05/15/2010