



FRICTION FREE AIR ACTUATORS

SERIES	LOAD CAPACITY, LB.	TRAVEL	LENGTH	ACCURACY
PNRE 1-3	78-94	.50- 2"	3.149- 7.677	0.0001"/ "

Pneumatically actuated crossed roller slide assemblies controlled by a pair of Airpot™ actuators, provide extremely low friction and stiction characteristics. A light touch or physical obstruction will stop the unit's movement to prevent damage to delicate and expensive equipment and parts. Low pressure operation is possible. The PNRE series requires less than 10 psi to operate.

Each slide is comprised of an aluminum carriage straddling an aluminum base. Using a bearing system containing cylindrical steel rollers, the carriage glides, almost friction-free, over the base. The rollers, alternately crisscrossed with each other, move between a set of four, partially flat, parallel, smooth rods on each side of the base. The Del-Tron® Straight Line Design™ makes possible the low stiction and friction characteristics Del-Trons are known for, unlike recirculating designs in which the rolling elements must turn corners and often slide against each other as they travel.

Airpot™ Pneumatic Actuators are ultra low friction devices designed to provide precise, repeatable motion at very high or low speeds without seals or lubrication. They run clean and operate over a wide temperature range with no change in performance. The basic construction consists of a graphitized carbon piston, precision ground to millionths of an inch TIR, inside an annealed, borosilicate glass cylinder with a precision fire polished bore.

For more information on Del-Tron's Air Actuators, [click here](#).



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