

Air Winches

The air winches are air powered, planetary geared units designed for lifting and pulling applications. Winches are available with either an internal automatic disc brake, a manual or automatic band brake, or a combination of both.

The output from an externally mounted piston air motor is transmitted through a coupling and shaft to the planetary reduction gear assembly.

The output from planetary reduction gear assembly is connected to the wire rope drum through the output shaft.

The air winches can be provided with an optional disc brake assembly consisting of friction plates splined to a hub which in turn is connected to the drive shaft from the air motor. Brake friction plates are clamped to the drum shaft through a spring applied piston. The brake remains applied until winch control valve is operated and winch payout or haul-in occurs. Air is introduced into a chamber, which is formed between brake piston and brake housing, causing the brake piston to react, compressing brake springs and releasing friction plates allowing motor shaft to rotate. A power failure or sudden loss of air will immediately cause the spring applied brake to engage.

The band brake operates by applying a friction force between brake band and winch drum. The manual brake requires an operator to engage and disengage brake using a handle located on top of brake band. The automatic band brake operation is similar to disc brake operation; they are both fully disengaged in the payout and haul-in direction.



FPW20PKMBG-14-300



FPW30PKMBG-16-300

Pulling Cap.(kgs.)	Pulling Speed (m/min)	Recommended Wire Rope Dia.(mm)	Rope Cap.(m)	Inlet NPT(in.)	Winch Dim.(mm)	Item No.
2,000	18	14	300	1 1/4	1580*970*760	FPW20PKMBG-14-300
3,000	18	16	300	1 1/2	1720*970*930	FPW30PKMBG-16-300
5,000	15	19	300	1 1/2	1810*890*910	FPW50PKMBG-1-300
10,000	7	28	300	2	1780*1280*1220	FPW100PKHGB-28-300



FPW50PKMBG-19-300



FPW100PKHGB-28-300

Warning! This winch equipment is not to be used for lifting, supporting, or transporting people or loads over areas where people could be present.