

Accu-Spool™ Level Wind

3400 to 22000 lbs (1545 to 10000 kg) capacity



Setting the standards in level wind technology: a totally self-compensating level wind for precise and continuous spooling of wire rope or cable. Never needs adjustment.

Available as optional equipment for IR manufactured winches or as a retrofit for winches and cable reels of other manufacturers. No attachment to existing winch is required. Retrofit unit is a free-standing design, which can fit any winch or cable reel, etc.

How It Works:

The IR Accu-Spool level wind is universally adaptable to the entire Force 5 air winch line and to winches produced by other manufacturers. When winch fleet angles exceed 2 degrees, wire rope spooling becomes difficult. The IR Accu-Spool level wind will spool the rope uniformly and repeatedly on the drum in applications where fleet angles vary from 0 to 26 degrees.

Standard features:

- Rack and pinion drive resists wear from corrosive elements when compared with diamond screw type level winds
- No gear interlocks or drive chains to wear, corrode or get out of adjustment
- Durable radial piston air motor provides independent power source
- No drive attachment to the winch is required
- Bronze worm drive and steel worm gear
- Steel guide bar and guide rollers
- Heavy duty rack and pinion drive allows for precise, continuous spooling and reduced wire rope wear
- Totally self-compensating and adjusting. The design overcomes the timing problems inherent in diamond screw types of level winds



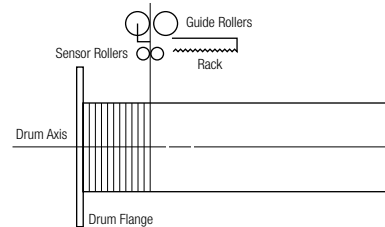
Accu-Spool with FA10-40

- Compensates for fleet angles up to 26°
- Allows wire rope take off in almost any direction
- Emergency manual override on control systems is standard
- Line tension of approximately 5% of actual load is required to activate the Accu-Spool

The main components are:

1. Guide bar: alloy steel tube with rack and pinion drive
2. Guide system: steel guide rollers, worm gear drive and radial piston air motor

The Accu-Spool's sensor rollers keep the level wind axis and drum perpendicular to the wire rope on the drum. When the winch line pull pressure is applied to the sensor roller, the roller will activate linkage that opens the motor valve, driving the level wind in the appropriate direction to spool the wire rope evenly on the drum.



Specifications: 90 psi (6.3 bar)⁽¹⁾

Force-5 model	Winch capacity (tons)	Accu-Spool model air	Standard drum length		Avg. air consumption required	
			in.	mm	cfm	m ³ /min
FA2	2	ASA2	24	610	55	1.6
FA2B ⁽²⁾	2	ASA2	24	610	55	1.6
FA2.5	2.5	ASA2	24	610	55	1.6
FA2.5A ⁽²⁾	2.5	ASA2	24	610	55	1.6
FA5(T)	5	ASA5	24	610	55	1.6
FA5A ⁽²⁾	5	ASA5	24	610	55	1.6
FA7(T, PL, GL)	7	ASA7	24	610	55	1.6
FA10	10	ASA10	24	610	55	1.6

(1) Performance is based on 90 psi (6.3 bar) air inlet pressure with motor running. Level wind will increase overall length of the winch by approx. 4 inches (102 mm).

(2) Not available on units with automatic disc brake.

Maximum fleet angle for Accu-Spool models is 26°. See "The importance of fleet angle" in the Tech Tips section.

Determining rope take off: If required, the Accu-Spool level wind can be provided to work through a designated range of rope take off angles. Specify your needs accordingly.

How to special order:

Please provide the following information:

1. Total line pull
2. Wire rope or cable size
3. Fleet angle
4. Rope take off direction (e.g. horizontal, vertical or other angle)
5. Potential clearance problems, maximum envelope size
6. Type and size of foundation (platform, concrete base, etc)
7. Power source (air, electric or hydraulic)
8. Drum width
9. Drum diameter

Components for OEM purchase (complete less mounting frame):

1. Support tube with rack
2. Drive package: includes motor, valve, and gearing (assembled)