



Automotive Winch

Infinite Hook Up



- Self - Recovery Winch
- Utility Duty Winch
- Electric Trailer Winch
- Winch Accessories
- Engineering Data
- Quick Reference Chart

SELF-RECOVERY WINCH

DS-9.5i

• Extreme durable motor

Heavy duty series wound motor delivers superior torque output and faster line speed

• Aluminum alloy housing

Tough aluminum alloy die cast housing provides massive structural durability

• Durable 3 stage planetary gear train

3 stage planetary gearbox delivers the most reliable and durable performance of winch under the worst condition.

• Automatic, full load cone brake

The U.S. Germany, UK, France, etc patents of automatic full load cone brake holds full loads.

• Sealed solenoid

Heavy duty sealed solenoid gives better water resistance and lower amp.draw

• Rapid wire rope payout

8 equally spaced freespooling pin holes have the freespooling positioned actually for a rapid payout of wire rope with ease.

• Protective thermal sensor LED

Motor mounted thermal control detecting temperature information shows signal on the remote switch and aluminum control pack

SPECIFICATION

Line Pull	4,309 kg / 9,500 lb
Motor 12V	3,730 w / 5 hp
24V	2,088 w / 2.8 hp
Gear Train	3 stage planetary gears
Gear Ratio	159 : 1
Freespool	rotating ring gear
Brake	automatic, full load cone brake
Wire Rope Size	ø8.7 mm x 30 m (ø11/32" x 100')
Wire Rope Type	galvanized aircraft A7 x 19
Drum Size	ø63.5 mm x 228 mm (ø2.5" x 9")
Mounting bolts pattern	254 mm x 114 mm (10" x 4.49")
※ Limited Lifetime Warranty	

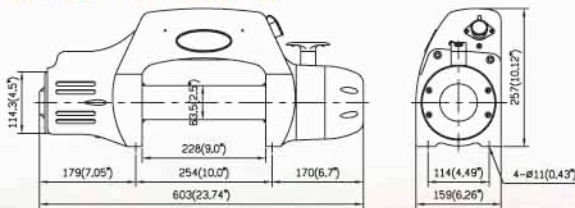
PACKAGE

Winch Weight.....	38.5 kg / 85 lb
Gross Weight.....	52.5 kg / 116 lb
Box Dimension.....	660 x 208 x 436 mm (26" x 8.2" x 17.2")

STANDARD ACCESSORIES

- Integrated solenoid pack
- Remote control WA-0313
- Wire rope with hook
- Roller fairlead WA-0510
- 1.8 m (6') 2 gauge battery lead
- Snatch block WA-0401
- Handsaver strap

DIMENSION mm / in



Sealed solenoid

Heavy duty sealed solenoid gives better water resistance and lower amp.draw

Extreme durable motor

Heavy duty series wound motor delivers superior torque output and faster line speed

Aluminum alloy housing

Tough aluminum alloy die cast housing provides massive structural durability

Protective thermal sensor LED

Motor mounted thermal control detecting temperature information shows signal



LINE PULL AND ROPE CAPACITY

Layer of wire rope	Line Pull kg / lb	Total Rope on the Drum m/ft
1st Layer	4,309 / 9,500	6.1 / 20
2nd Layer	3,521 / 7,750	13.5 / 44.3
3rd Layer	2,977 / 6,550	22.3 / 73.2
4th Layer	2,578 / 5,700	32.4 / 106.3

LINE SPEED AND AMP. DRAW

(1st layer of wire rope on the drum)

Line Pull kg / lb	Line Speed mpm / fpm	Amp. Draw	
		12V	24V
No Load	19 / 62	60	35
909 / 2,004	4.7 / 15.4	115	70
1,218 / 4,008	3.5 / 11.5	210	110
2,727 / 6,012	2.8 / 9.2	245	145
3,636 / 8,016	2.3 / 7.6	280	190
4,309 / 9,500	2.1 / 6.8	380	250



SELF-RECOVERY WINCH

DS-9.5

- Extreme durable motor**
 Heavy duty series wound motor delivers superior torque output and faster line speed
- Aluminum alloy housing**
 Tough aluminum alloy die cast housing provides massive structural durability
- Durable 3 stage planetary gear train**
 3 stage planetary gearbox delivers the most reliable and durable performance of winch under the worst condition.
- Automatic, full load cone brake**
 The U.S. Germany, UK, France, etc patents of automatic full load cone brake holds full loads.
- Sealed solenoid**
 Heavy duty sealed solenoid gives better water resistance and lower amp draw
- Rapid wire rope payout**
 8 equally spaced freespooling pin holes have the freespooling positioned actually for a rapid payout of wire rope with ease.
- Protective thermal sensor LED**
 Motor mounted thermal control detecting temperature information shows signal on the remote switch

SPECIFICATION

Line Pull	4,309 kg / 9,500 lb
Motor 12V	3,730 w / 5 hp
24V	2,088 w / 2.8 hp
Gear Train.....	3 stage planetary gears
Gear Ratio	159 : 1
Freespool.....	rotating ring gear
Brake	automatic, full load cone brake
Wire Rope Size.....	ø8.7 mm x 30 m (ø11/32" x 100')
Wire Rope Type.....	galvanized aircraft A7 x 19
Drum Size.....	ø63.5 mm x 228 mm (ø2.5" x 9")
Mounting bolts pattern	254 mm x 114 mm (10" x 4.49")
※ Limited Lifetime Warranty	

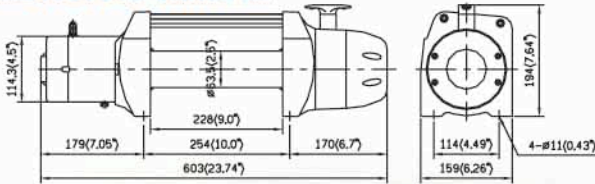
PACKAGE

Winch Weight	34.5 kg / 76 lb
Gross Weight.....	48.5 kg / 107 lb
Box Dimension	660 x 208 x 436 mm (26" x 8.2" x 17.2")

STANDARD ACCESSORIES

- Detachable solenoid pack WA-0811
- Remote control WA-0313
- Wire rope with hook
- Roller fairlead WA-0510
- 1.8 m (6') 2 gauge battery lead
- Snatch block WA-0401
- Handsaver strap

DIMENSION mm / in



LINE PULL AND ROPE CAPACITY

Layer of wire rope	Line Pull kg / lb	Total Rope on the Drum m/ft
1st Layer	4,309 / 9,500	6.1 / 20
2nd Layer	3,521 / 7,750	13.5 / 44.3
3rd Layer	2,977 / 6,550	22.3 / 73.2
4th Layer	2,578 / 5,700	32.4 / 106.3

LINE SPEED AND AMP. DRAW

(1st layer of wire rope on the drum)

Line Pull kg / lb	Line Speed mpm / fpm	Amp. Draw	
		12V	24V
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1,218 / 4,008	3.5 / 11.5	210	110
2,727 / 6,012	2.8 / 9.2	245	145
3,636 / 8,016	2.3 / 7.6	280	190
4,309 / 9,500	2.1 / 6.8	380	250

SELF-RECOVERY WINCH

DV-6000S

- Heavy duty series wound motor delivers superior torque output and faster line speed
- 3 stage planetary gearbox delivers the most reliable and durable performance of winch under the worst condition.
- The U.S. Germany, U.K., France, etc patented automatic cone brake holds full load, maintenance with easy. The greater the load on the wire rope, the greater amount of brake that is applied by the mechanism.
- Rotating ring gear freespool is a pull and turn design for rapid wire rope payout
- 2" rear receiver and quick connector kits mounts directly to the vehicle frame without drilling



Equipped with 2" rear receiver and quick connector kits, WA-0707



Note:
Roller fairlead does not mount to winch

SPECIFICATION

Line Pull	2,722 kg / 6,000 lb
Motor 12V	2,386 w / 3.2 hp
24V	1,492 w / 2.0 hp
Gear Train	3 stage planetary gears
Gear Ratio	216 : 1
Freespool	rotating ring gear
Brake	automatic, full load cone brake
Wire Rope Size	ø7.14 mm x 24.4 m (ø 9/32" x 80')
Wire Rope Type	galvanized aircraft A7 x 19
Drum Size	ø 63.5 mm x 125.5 mm (ø 2.5" x 4.9")
Mounting bolts pattern	152.4 mm x 114 mm (6" x 4.49")
✳ Limited Lifetime Warranty	

STANDARD ACCESSORIES

- Detachable solenoid pack WA-0809
- Remote control WA-0310
- Wire rope with hook
- Roller fairlead WA-0508
- 1.8 m (6') 4 gauge battery lead
- Snatch block WA-0401
- Handsaver strap

Line Pull and Rope Capacity

Layer of Wire Rope	Line Pull Kg / lb	Total Rope on the Drum m/ft
1st Layer	2,722 / 6,000	3.6 / 11.8
2nd Layer	2,264 / 4,991	7.8 / 25.6
3rd Layer	1,938 / 4,273	12.8 / 42
4th Layer	1,694 / 3,735	18.5 / 60.7
5th Layer	1,505 / 3,318	24.4 / 80

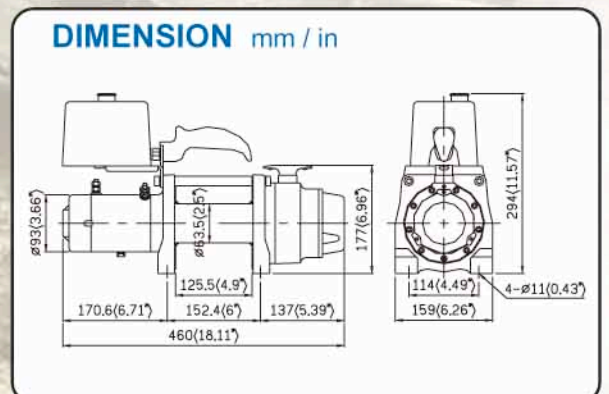
Line Speed and Amp Draw

(1st layer of wire rope on the drum)

Line Pull kg / lb	Line Speed mpm / fpm	Amp. Draw	
		12V	24V
No load	8.0 / 26.2	60	35
907 / 2,000	5.2 / 17	150	90
1,814 / 4,000	3.1 / 10.2	240	140
2,722 / 6,000	2.0 / 6.5	300	200

PACKAGE

Winch Weight	17.7 kg / 39 lb
Gross Weight	32 kg / 70 lb
Box Dimension	495 x 196 x 340 mm (19.5" x 7.7" x 13.4")



SELF-RECOVERY WINCH

DV-6000L

- Heavy duty series wound motor delivers superior torque output and faster line speed
- 3 stage planetary gearbox delivers the most reliable and durable performance of winch under the worst condition.
- The U.S. Germany, U.K., France, etc patented automatic cone brake holds full load, maintenance with easy. The greater the load on the wire rope, the greater amount of brake that is applied by the mechanism.
- Rotating ring gear freespool is a pull and turn design for rapid wire rope payout

SPECIFICATION

Line Pull	2,722 kg / 6,000 lb
Motor 12V	2,386 w / 3.2 hp
24V	1,492 w / 2.0 hp
Gear Train	3 stage planetary gears
Gear Ratio	216 : 1
Freespool	rotating ring gear
Brake	automatic, full load cone brake
Wire Rope Size	ø7.14 mm x 30 m (ø 9/32" x 100')
Wire Rope Type.....	galvanized aircraft A7 x 19
Drum Size.....	ø 63.5 mm x 227 mm (ø 2.5" x 8.9")
Mounting bolts pattern.....	254 mm x 114 mm (10" x 4.49")
✳ Limited Lifetime Warranty	



STANDARD ACCESSORIES

- Detachable solenoid pack WA-0809
- Remote control WA-0310
- Wire rope with hook
- Roller fairlead WA-0510
- 1.8 m (6') 4 gauge battery lead
- Snatch block WA-0401
- Handsaver strap

Line Pull and Rope Capacity

Layer of Wire Rope	Line Pull Kg / lb	Total Rope on the Drum m/ft
1st Layer	2,722 / 6,000	6.7 / 22.0
2nd Layer	2,264 / 4,991	14.7 / 48.2
3rd Layer	1,938 / 4,273	24.0 / 78.7
4th Layer	1,694 / 3,735	30.0 / 100

Line Speed and Amp Draw

(1st layer of wire rope on the drum)

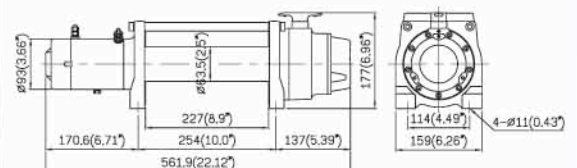
Line Pull kg / lb	Line Speed mpm / fpm	Amp. Draw	
		12V	24V
No load	8.0 / 26.2	60	35
907 / 2,000	5.2 / 17	150	90
1,814 / 4,000	3.1 / 10.2	240	140
2,722 / 6,000	2.0 / 6.5	300	200

PACKAGE

Winch Weight	22 kg / 48.5 lb
Gross Weight	37 kg / 81 lb
Box Dimension.....	597 x 196 x 340 mm (23.9" x 7.7" x 13.4")



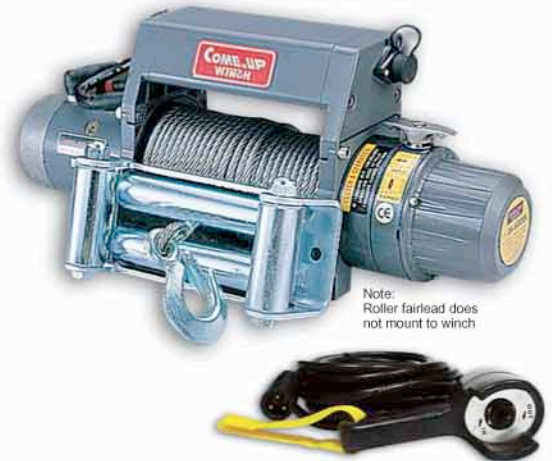
DIMENSION mm / in



SELF-RECOVERY WINCH

DV-9000i

- Heavy duty series wound motor delivers superior torque output and faster line speed
- 3 stage planetary gearbox delivers the most reliable and durable performance of winch under the worst condition.
- The U.S. Germany, U.K., France, etc patented automatic cone brake holds full load, maintenance with easy. The greater the load on the wire rope, the greater amount of brake that is applied by the mechanism.
- Rotating ring gear freespool is a pull and turn design for rapid wire rope payout



SPECIFICATION

Line Pull	4,082 kg / 9,000 lb
Motor 12V	3,430 w / 4.6 hp
24V	1,940 w / 2.6 hp
Gear Train	3 stage planetary gears
Gear Ratio	156 : 1
Freespool	rotating ring gear
Brake	automatic, full load cone brake
Wire Rope Size	ø8.3 mm x 30 m (ø21/64" x 100')
Wire Rope Type.....	galvanized aircraft A7 x 19
Drum Size.....	ø63.5 mm x 229 mm (ø2.5" x 9")
Mounting bolts pattern.....	254 mm x 114 mm (10" x 4.49")
✳ Limited Lifetime Warranty	

STANDARD ACCESSORIES

- Integrated solenoid pack
- Remote control WA-0310
- Wire rope with hook
- Roller fairlead WA-0510
- 1.8 m (6') 2 gauge battery lead
- Snatch block WA-0401
- Handsaver strap

LINE PULL AND ROPE CAPACITY

Layer of Wire Rope	Line Pull kg / lb	Total Rope on the Drum m/ft
1st Layer	4,082 / 9,000	6.1 / 20
2nd Layer	3,335 / 7,352	13.5 / 44.3
3rd Layer	2,820 / 6,217	22.3 / 73.2
4th Layer	2,442 / 5,383	30 / 100

LINE SPEED AND AMP. DRAW

(1 st layer of wire rope on the drum)

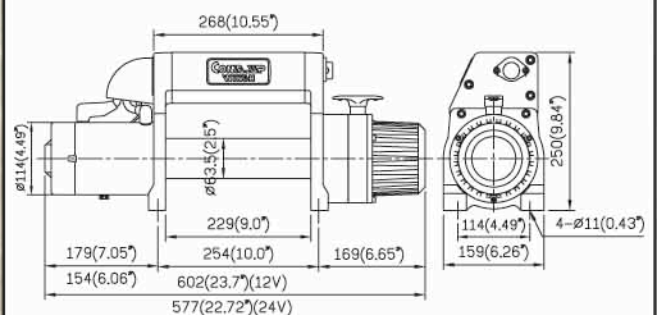
Line Pull kg / lb	Line Speed mpm / fpm	Amp. Draw	
		12V	24V
No Load	13.4 / 44	55	30
907 / 2,000	4.6 / 15	110	65
1,814 / 4,000	3.4 / 11	200	100
2,722 / 6,000	2.7 / 9	230	130
3,629 / 8,000	2.3 / 7.5	260	170
4,082 / 9,000	2.0 / 6.4	350	210

PACKAGE

Winch Weight	36 kg / 79.2 lb
Gross Weight	48 kg / 105.6 lb
Box Dimension	630 x 195 x 410 mm (24.8" x 7.7" x 16.1")



DIMENSION mm / in



SELF-RECOVERY WINCH

DV-9000

- Heavy duty series wound motor delivers superior torque output and faster line speed
- 3 stage planetary gearbox delivers the most reliable and durable performance of winch under the worst condition.
- The U.S. Germany, U.K., France, etc patented automatic cone brake holds full load, maintenance with easy. The greater the load on the wire rope, the greater amount of brake that is applied by the mechanism.
- Rotating ring gear freespool is a pull and turn design for rapid wire rope payout



Note:
Roller fairlead does not mount to winch

SPECIFICATION

Line Pull	4,082 kg / 9,000 lb
Motor 12V	3,430 w / 4.6 hp
24V	1,940 w / 2.6 hp
Gear Train	3 stage planetary gears
Gear Ratio	156 : 1
Freespool	rotating ring gear
Brake	automatic, full load cone brake
Wire Rope Size	ø8.3 mm x 30 m (ø21/64" x 100')
Wire Rope Type.....	galvanized aircraft A7 x 19
Drum Size.....	ø63.5 mm x 229 mm (ø2.5" x 9")
Mounting bolts pattern.....	254 mm x 114 mm (10" x 4.49")
✳ Limited Lifetime Warranty	

STANDARD ACCESSORIES

- Detachable solenoid pack WA-0802
- Remote control WA-0310
- Wire rope with hook
- Roller fairlead WA-0510
- 1.8 m (6') 2 gauge battery lead
- Snatch block WA-0401
- Handsaver strap

LINE PULL AND ROPE CAPACITY

Layer of wire rope	Line Pull kg / lb	Total Rope on the Drum m/ft
1st Layer	4,082 / 9,000	6.1 / 20
2nd Layer	3,335 / 7,352	13.5 / 44.3
3rd Layer	2,820 / 6,217	22.3 / 73.2
4th Layer	2,442 / 5,383	30 / 100

LINE SPEED AND AMP. DRAW

(1 st layer of wire rope on the drum)

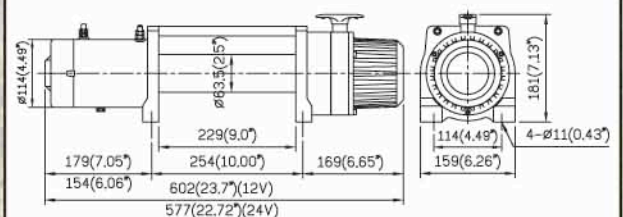
Line Pull kg/lb	Line Speed mpm / fpm	Amp. Draw	
		12V	24V
No Load	13.4 / 44	55	30
907/2,000	4.6 / 15	110	65
1,814/4,000	3.4 / 11	200	100
2,722/6,000	2.7 / 9	230	130
3,629/8,000	2.3 / 7.5	260	170
4,082/9,000	2.0 / 6.4	350	210

PACKAGE

Winch Weight	33 kg / 72.6 lb
Gross Weight	47 kg / 103.4 lb
Box Dimension	630 x 195 x 370 mm (24.8" x 7.7" x 14.6")



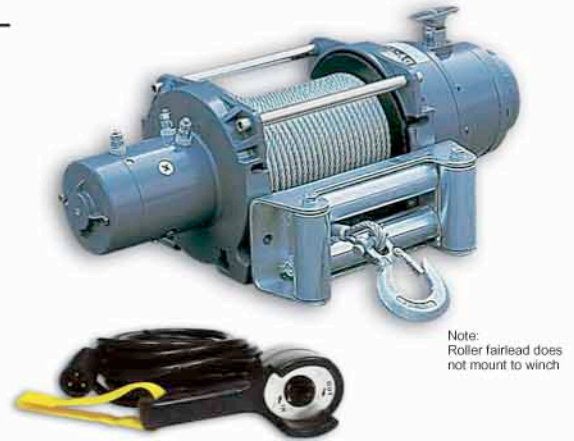
DIMENSION mm / in



SELF-RECOVERY WINCH

DV-12000ES

- Heavy duty series wound motor delivers superior torque output and faster line speed
- 3 stage planetary gearbox delivers the most reliable and durable performance of winch under the worst condition.
- The U.S. Germany, U.K., France, etc patented automatic cone brake holds full load, maintenance with easy. The greater the load on the wire rope, the greater amount of brake that is applied by the mechanism.
- Rotating ring gear freespool is a pull and turn design for rapid wire rope payout
- Heavy duty sealed solenoid gives better water resistance and lower amp.draw



Note:
Roller fairlead does not mount to winch

SPECIFICATION

Line Pull	5,443 kg / 12,000 lb
Motor 12V	4,175 w / 5.6 Hp
24V	2,684 w / 3.6 Hp
Gear Train	3 stage planetary gears
Gear Ratio	261 : 1
Freespool	rotating ring gear
Brake	automatic, full load cone brake
Wire Rope Size	ø9.5 mm x 38 m (ø3/8" x 125')
Wire Rope Type	galvanized aircraft A7 x 19
Drum Size	ø89 mm x 206 mm (ø3.5" x 8.1")
Mounting bolts pattern	254 mm x 114.3 mm x 165.1 mm (10" x 4.5" x 6.5")

※ Limited Lifetime Warranty

STANDARD ACCESSORIES

- Detachable solenoid pack WA-0815
- Remote control WA-0310
- Wire rope with hook
- Roller fairlead WA-0502
- 1.8 m (6') 2 gauge battery lead
- Handsaver strap

OPTION ACCESSORIES

- Cable tensioner WA-0903
- Mounting channel WA-0703

LINE PULL AND ROPE CAPACITY

Layer of Wire Rope	Line Pull kg / lb	Total Rope on the Drum m/ft
1st Layer	5,443 / 12,000	6.2 / 20.3
2nd Layer	4,561 / 10,056	13.6 / 44.6
3rd Layer	3,926 / 8,657	22.1 / 72.5
4th Layer	3,446 / 7,599	31.9 / 105
5th Layer	3,070 / 6,770	38 / 125

LINE SPEED AND AMP. DRAW

(1 st layer of wire rope on the drum)

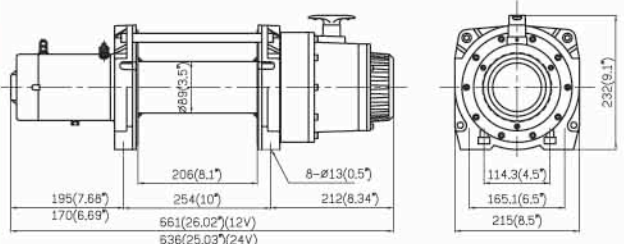
Line Pull kg/lb	Line Speed mpm / fpm	Amp. Draw	
		12V	24V
No Load	8.3 / 27	60	50
1,814 / 4,000	2.6 / 8.6	200	100
3,629 / 8,000	1.7 / 5.8	310	190
4,535 / 10,000	1.4 / 4.4	370	230
5,443 / 12,000	1.2 / 4	440	290

PACKAGE

Winch Weight	40 kg / 88.1 lb
Gross Weight	67 kg / 147.7 lb
Box Dimension	700 x 250 x 420 mm (27.5" x 9.8" x 16.5")



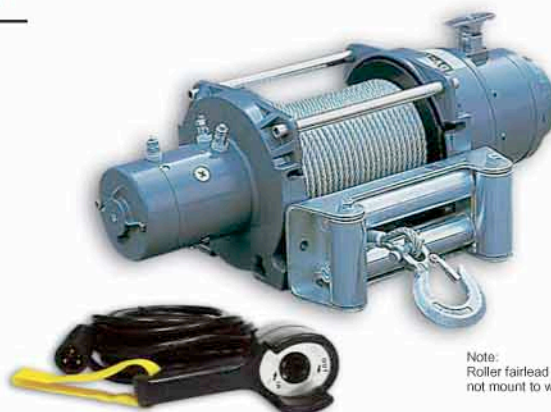
DIMENSION mm / in



SELF-RECOVERY WINCH

DV-15000ES

- Heavy duty series wound motor delivers superior torque output and faster line speed
- 3 stage planetary gearbox delivers the most reliable and durable performance of winch under the worst condition.
- The U.S. Germany, U.K., France, etc patented automatic cone brake holds full load, maintenance with easy. The greater the load on the wire rope, the greater amount of brake that is applied by the mechanism.
- Rotating ring gear freespool is a pull and turn design for rapid wire rope payout
- Heavy duty sealed solenoid gives better water resistance and lower amp.draw



Note:
Roller fairlead does not mount to winch

SPECIFICATION

Line Pull.....	6,803 kg / 15,000 lb
Motor 12V	4,175 w / 5.6 Hp
24V	2,684 w / 3.6 Hp
Gear Train	3 stage planetary gears
Gear Ratio	315 : 1
Freespool	rotating ring gear
Brake	automatic, full load cone brake
Wire Rope Size	ø11 mm x 27 m (ø7/16" x 89')
Wire Rope Type.....	6 x W(19) + IWRC
Drum Size.....	ø89 mm x 206 mm (ø3.5" x 8.1")
Mounting bolts pattern.....	254 mm x 114.3 mm x 165.1 mm (10" x 4.5" x 6.5")

※ Limited Lifetime Warranty

STANDARD ACCESSORIES

- Detachable solenoid pack WA-0802
- Remote control WA-0310
- Wire rope with hook
- Roller fairlead WA-0502
- 1.8 m (6') 2 gauge battery lead
- Handsaver strap

OPTION ACCESSORIES

- Cable tensioner WA-0903
- Mounting channel WA-0703

LINE PULL AND ROPE CAPACITY

Layer of Wire Rope	Line Pull kg / lb	Total Rope on the Drum m/ft
1st Layer	6,803 / 15,000	5.3 / 17.4
2nd Layer	5,575 / 12,292	11.8 / 38.7
3rd Layer	4,723 / 10,413	19.5 / 64
4th Layer	4,097 / 9,033	27 / 89

PACKAGE

Winch Weight	42 kg / 92.6 lb
Gross Weight	69 kg / 152 lb
Box Dimension	700 x 250 x 420 mm (27.5" x 9.8" x 16.5")

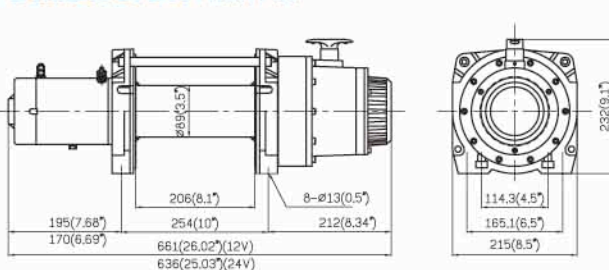
LINE SPEED AND AMP. DRAW

(1 st layer of wire rope on the drum)

Line Pull kg/lb	Line Speed mpm / fpm	Amp. Draw	
		12V	24V
No Load	6.9 / 22	60	50
1,814 / 4,000	1.6 / 5.4	180	90
3,629 / 8,000	1.2 / 3.8	280	190
4,535 / 10,000	1 / 3.3	330	220
5,443 / 12,000	0.9 / 2.9	385	260
6,805 / 15,000	0.8 / 2.5	460	340



DIMENSION mm / in



UTILITY DUTY WINCH



DU-3000

- Winch drum centered to avoid tire interference and provide streamlined appearance
- High torque permanent magnet motor delivers high torque and power at lower amp. draw
- 3 stage planetary gearbox delivers the most reliable and durable performance of winch under the worst condition.
- Cam active freespool for fast wire rope payout
- Automatic load-holding mechanical brake for strength and reliability
- Heavy duty sealed solenoid gives better water resistance and lower amp.draw



Note:
Roller fairlead does not mount to winch

SPECIFICATION

Line Pull.....	1,363 kg / 3,000 lb
Motor 12V	800 w / 1.0 hp
24V	800 w / 1.0 hp
Gear Train.....	3 stage planetary gears
Gear Ratio	145:1
Brake	mechanical
Freespool.....	cam activated
Wire Rope Size.....	ø4.8 mm X 15.2 m (3/16" X 50')
Wire Rope Type.....	galvanized aircraft A7 X 19
Drum Size.....	ø55 mm X 75 mm (2.2" X 3 ")
Mounting Bolts Pattern	76 mm X 124 mm (3" X 4.9 ")
✘ Limited Lifetime Warranty	

STANDARD ACCESSORIES

- Detachable solenoid pack WA-0816
- Remote control WA-0310
- Wire rope with hook
- Roller fairlead WA-0511
- 96 cm (3.1') 6 gauge battery lead
- Snatch block WA-0402
- Circuit breaker

LINE PULL AND ROPE CAPACITY

Layer of Wire Rope	Pull by Layer kg / lb	Total Rope on the Drum m/ft
1 st	1,363 / 3,000	2.6 / 8.5
2 nd	1,170 / 2,590	5.7 / 18.7
3 rd	1,030 / 2,270	9.2 / 30.2
4 th	920 / 2,030	13.1 / 43
5 th	830 / 2,830	15.2 / 50

LINE SPEED AND AMP. DRAW

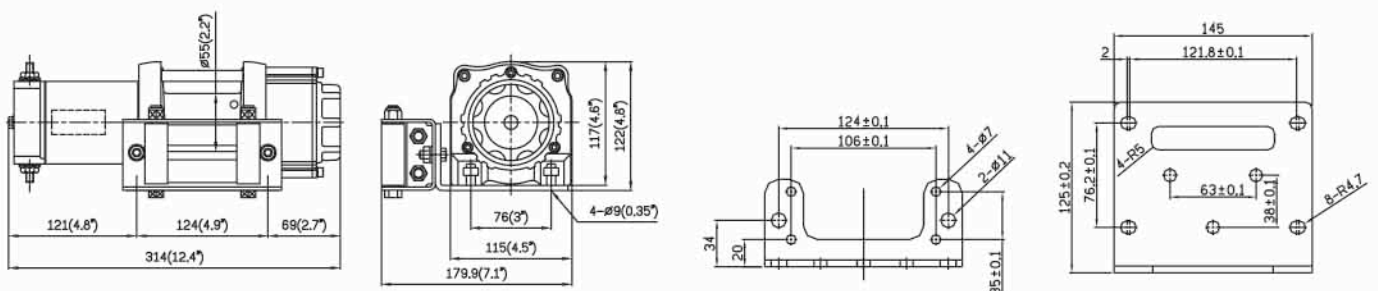
(1 st layer of wire rope on the drum)

Line Pull kg / lb	Line Speed mpm / fpm	Amp. Draw	
		12V	24V
No Load	7.6 / 24.9	15	10
230 / 500	6.3 / 20.7	40	30
450 / 1,000	4.9 / 16.1	70	45
680 / 1,500	4.3 / 14.1	100	60
900 / 2,000	3.7 / 12.1	140	80
1,140 / 2,500	3.1 / 10.2	180	100
1,363 / 3,000	2.5 / 8.2	230	130

PACKAGE

Winch Weight.....	7.1 kg / 15.7 lb
Gross Weight	12.7 kg / 28.0 lb
Box Dimension	340 X 285 X 140 mm
.....	(13.4" X 11.2" X 5.5")

DIMENSION mm / in



UTILITY DUTY WINCH



DU-4000

- Winch drum centered to avoid tire interference and provide streamlined appearance
- High torque permanent magnet motor delivers high torque and power at lower amp. draw
- 3 stage planetary gearbox delivers the most reliable and durable performance of winch under the worst condition.
- Cam active freespool for fast wire rope payout
- Automatic load-holding mechanical brake for strength and reliability
- Heavy duty sealed solenoid gives better water resistance and lower amp.draw



Note:
Roller fairlead does not mount to winch

SPECIFICATION

Line Pull.....	1,814 kg / 4,000 lb
Motor 12V	800 w / 1.0 hp
24V	800 w / 1.0 hp
Gear Train.....	3 stage planetary gears
Gear Ratio	184:1
Brake	mechanical
Freespool.....	cam activated
Wire Rope Size.....	ø5.5 mm X 15.2 m (7/32" X 50')
Wire Rope Type	galvanized aircraft A7 X 19
Drum Size	ø55 mm X 119 mm (2.2" X 4.7")
Mounting Bolts Pattern	76 mm X 168 mm (3" X 6.6 ")
✳ Limited Lifetime Warranty	

STANDARD ACCESSORIES

- Detachable solenoid pack WA-0816
- Remote control WA-0310
- Wire rope with hook
- Roller fairlead WA-0512
- 96 cm (3.1') 6 gauge battery lead
- Snatch block WA-0402
- Circuit breaker

LINE PULL AND ROPE CAPACITY

Layer of Wire Rope	Pull by Layer kg / lb	Total Rope on the Drum m/ft
1 st	1,814 / 4,000	3.3 / 10.8
2 nd	1,694 / 3,735	7.2 / 23.6
3 rd	1,446 / 3,188	11.9 / 39
4 th	1,261 / 2,780	15.2 / 50

LINE SPEED AND AMP. DRAW

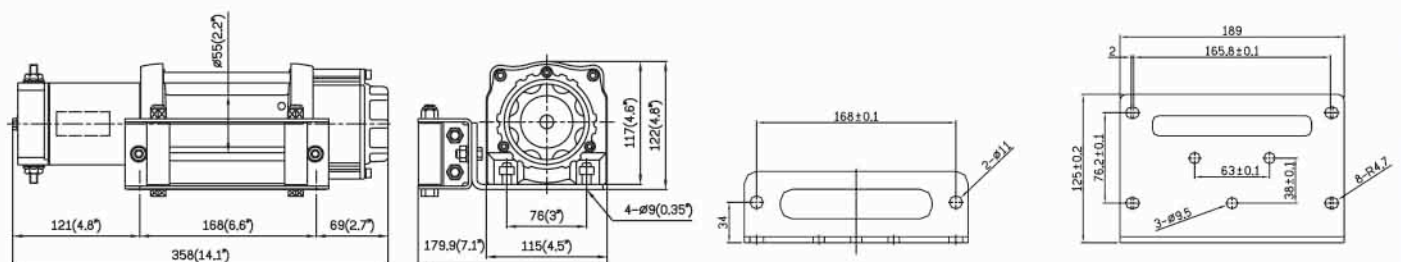
(1 st layer of wire rope on the drum)

Line Pull kg / lb	Line Speed mpm / fpm	Amp. Draw	
		12V	24V
No Load	6.0 / 19.7	20	15
230 / 500	3.9 / 12.8	45	25
450 / 1,000	3.4 / 11.2	70	35
680 / 1,500	3.1 / 10.2	90	50
900 / 2,000	2.9 / 9.5	120	65
1,140 / 2,500	2.7 / 8.9	150	80
1,363 / 3,000	2.4 / 7.9	180	100
1,588 / 3,500	2.2 / 7.2	210	125
1,814 / 4,000	2.0 / 6.6	230	155

PACKAGE

Winch Weight.....	8 kg / 17.6 lb
Gross Weight.....	14.5 kg / 32 lb
Box Dimension.....	391 X 285 X 140 mm (15.4" X 11.2" X 5.5")

DIMENSION mm / in



UTILITY DUTY WINCH

DV-2500i / DV-3500i / DV-4500i

- Power in and power out
- Sliding ramping freespool for rapid wire rope payout
- Circuit breakers shut off winch to prevent overheating of motor
- Weather-resistant plastic housing for extra durability
- Dynamic and mechanical brake holds full load
- Integrated solenoid pack for complete protection of wirings
- Compact and light weight allows a wide range of applications on trailers and boats



SPECIFICATION

Line Pull (DV-2500i)	1,134 kg / 2,500 lb
(DV-3500i)	1,588 kg / 3,500 lb
(DV-4500i)	2,041 kg / 4,500 lb
Motor (DV-2500i)	600 w / 0.8 hp, permanent magnet
(DV-3500i)	900 w / 1.2 hp, permanent magnet
(DV-4500i)	1,200 w / 1.6 hp, permanent magnet
Gear Train	3 stage planetary gears
Gear Ratio	170 : 1
Freespool	sliding ramping
Brake	mechanical
Wire Rope Size (DV-2500i)	ø4.8 mm x 15.2 m (ø3/16" x 50')
(DV-3500i)	ø5.5 mm x 15.2 m (ø7/32" x 50')
(DV-4500i)	ø6.2 mm x 15.2 m (ø1/4" x 50')
Wire Rope Type	galvanized aircraft A7 x 19
Drum Size	ø54 mm x 83 mm (ø2.1" x 3.3")
Mounting Bolts Pattern	86 mm x 93 mm (3.39" x 3.66")

PACKAGE

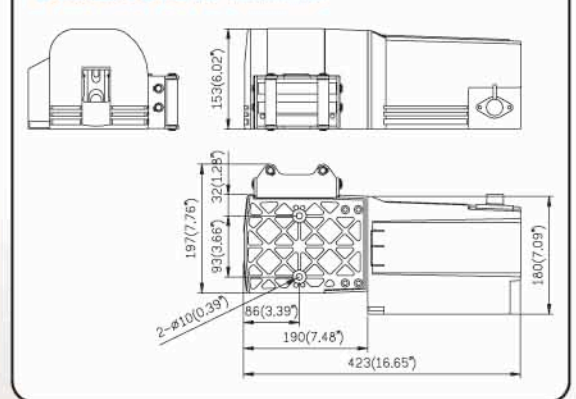
Winch Weight (DV-2500i)	13.5 kg / 29.7 lb
(DV-3500i)	13.9 kg / 30.6 lb
(DV-4500i)	14.2 kg / 31.2 lb
Gross Weight (DV-2500i)	17.5 kg / 38.5 lb
(DV-3500i)	17.9 kg / 39.4 lb
(DV-4500i)	18.2 kg / 40 lb
Box Dimension	475 x 279 x 179 mm (18.7" x 11" x 7")

※ Limited Lifetime Warranty

STANDARD ACCESSORIES

- Wire rope with hook
- Remote control WA-0305
- 1.5 m (5') battery lead
- Roller fairlead WA-0501
- Snatch block WA-0402
- Circuit breaker
- Handsaver strap

DIMENSION mm / in



LINE SPEED AND AMP. DRAW (1 st layer of wire rope on the drum)

Line Pull Kg / lb	DV-2500i			DV-3500i			DV-4500i		
	Line Seed mpm / fpm	Amp. Draw		Line Seed mpm / fpm	Amp. Draw		Line Seed mpm / fpm	Amp. Draw	
		12V	24V		12V	24V		12V	24V
No Load	5.0 / 16.4	30	10	6.5 / 21.3	25	10	6.5 / 21.3	25	10
454 / 1,000	3.5 / 11	80	55	5.0 / 16.4	110	55	5.0 / 16.4	110	55
907 / 2,000	2.3 / 7.5	150	115	3.6 / 11.8	200	100	3.6 / 11.8	210	95
1,134 / 2,500	1.3 / 4.2	200	140	3.2 / 10.5	230	115	3.2 / 10.5	240	110
1,361 / 3,000				2.5 / 8.2	260	140	2.5 / 8.2	270	120
1,588 / 3,500				1.8 / 5.9	300	180	1.8 / 5.9	290	140
1,814 / 4,000							1.4 / 4.6	310	155
2,041 / 4,500							0.4 / 1.3	330	170

LINE PULL AND ROPE CAPACITY

Layer of Wire Rope	DV-2500i		DV-3500i		DV-4500i	
	Line Pull kg / lb	Total Rope on the Drum m / ft	Line Pull kg / lb	Total Rope on the Drum m / ft	Line Pull kg / lb	Total Rope on the Drum m / ft
1st Layer	1,134 / 2,500	3.2 / 10.4	1,588 / 3,500	2.7 / 9	2,041 / 4,500	2.4 / 8
2nd Layer	935 / 2,061	6.7 / 22	1,310 / 2,888	6 / 19.8	1,685 / 3,714	5.3 / 17.4
3rd Layer	795 / 1,753	10.9 / 35.8	1,114 / 2,457	9.8 / 32.3	1,433 / 3,159	8.6 / 28.1
4th Layer	693 / 1,527	15.2 / 50	971 / 2,141	14.2 / 46.5	1,247 / 2,750	12.5 / 41
5th Layer			859 / 1,894	15.2 / 50	1,104 / 2,435	15.2 / 50

ELECTRIC TRAILER WINCH

DW-1500i / DW-3000i

- Powerful permanent magnet motor with reverse feature allows winching in as well as winching out for DW-3000i. DW-1500i allows winching in only.
- High impact, weather-resistant plastic housing for extra durability
- Manual freespool for rapid wire rope payout
- An emergency crank handle for emergent winching in when power off
- Circuit breaker motor protection prevents overload and subsequent damage.
- Quick connector kits and tow-ball adapter plate for rear mounting of portable winch
- Main applications of boat ramping, light duty self-recovery of vehicle, general farm and ranch use, boat launching and retrieving, and multipurpose of trailer

SPECIFICATION

Line Pull (DW-1500i)	680 kg / 1,500 lb
(DW-3000i)	1,361 kg / 3,000 lb
Rolling Load (DW-1500i)	5,443 kg / 12,000 lb
(DW-3000i)	11,340 kg / 25,000 lb
Motor (DW-1500i)	120 w / 0.16 hp, permanent magnet
(DW-3000i)	300 w / 0.4 hp, permanent magnet
Gear Ratio (DW-1500i)	466 : 1
(DW-3000i)	480 : 1
Brake	mechanical
Wire Rope Supplied (DW-1500i)	ø5.5 mm x 9.1 m (7/32" x 30')
(DW-3000i)	ø5.5 mm x 15.2 m (7/32" x 50')

LINE SPEED AND AMP. DRAW

(1 st layer of wire rope on the drum)

MODEL	DW-1500i		DW-3000i			
	Line Speed kg/lb	Line Speed mpm / fpm	Amp. Draw 12V	Line Speed mpm / fpm	Amp. Draw 12V 24V	
No Load	1.8 / 6		2.5	1.3 / 4.0	4	2
454 / 1,000	0.43 / 1.4		7	1.1 / 3.5	19	13
680 / 1,500	0.37 / 1.2		14	1.0 / 3.4	23	14
907 / 2,000				1.0 / 3.3	27	15
1,361 / 3,000				0.9 / 3.1	34	17



DW-1500i



DW-3000i

STANDARD ACCESSORIES

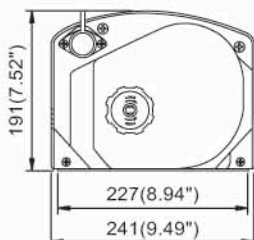
- Hand-held remote switch w / 3 m (10') cord
- Wire rope with hook
- Circuit breaker
- Battery lead
- Emergency crank handle
- Ball adapter plate
- Snatch block WA-0403

PACKAGE

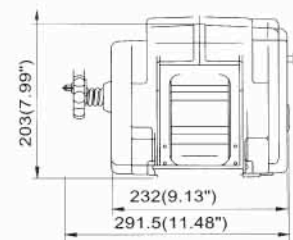
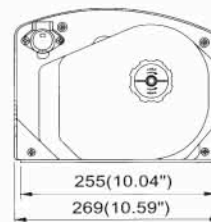
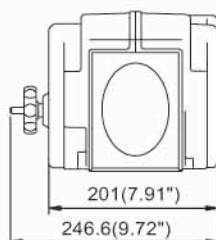
Winch Weight (DW-1500i) ...	13 kg / 28.6 lb
(DW-3000i)	17.1 kg / 37.8 lb
Gross Weight (DW-1500i)	15 kg / 33 lb
(DW-3000i)	21.1 kg / 46.5 lb
Box Dimension	
(DW-1500i)	287 x 254 x 218 mm (11.3" x 10" x 8.6")
(DW-3000i)	348 x 307 x 231 mm (13.7" x 12.1" x 9.1")

DIMENSION mm / in

DW-1500i



DW-3000i



ACCESSORIES

QUICK CONNECTOR

- WA-0101 50 A
- WA-0102 175 A



Winch Accessory Kit Medium Duty Kit WA-1101

Designed for winch single line capacity to 4,309 kg / 9,500 lb
Includes :

- 10,000 kg / 22,000 lb maximum capacity snatch block, CBV-22
- 100 mm X 2.4 m (4" X 8') tree trunk protector
- 75 mm X 9 m (3" X 30') recovery strap rated to 9,797kg / 21,6000 lb
- Shackle, 20 mm (3/4") pin diameter
- Leather gloves
- Winch cover
- Nylon soft case



Heavy Duty Kit WA-1102

Designed for winch single line capacity to 6,803 kg / 15,000 lb
Includes :

- 13,610 kg / 30,000 lb maximum capacity snatch block, CBV-30
- 100 mm X 2.4 m (4" X 8') tree trunk protector
- 75 mm X 9 m (3" X 30') recovery strap rated to 9,797 kg / 21,600 lb
- Shackle, 20 mm (3/4") pin diameter
- 3 m of 8 mm (10' of 5/16") grade 70 choker chain with hooks
- Leather gloves
- Winch cover
- Nylon soft case



DC SOLENOID

- WA-0201 12 V for DV/DW winch
- WA-0202 24 V for DV/DW winch
- WA-0203 CES-4012, 12 V for DS-9.5/9.5i, DV-12000ES/15000ES
- WA-0204 CES-2024, 24 V for DS-9.5/9.5i, DV-12000ES/15000ES
- WA-0205 CES-2012, 12 V for DU-3000/4000
- WA-0206 CES-2024, 24 V for DU-3000/4000



WA-0201
WA-0202

WA-0203
WA-0204

WA-0205
WA-0206

REMOTE CONTROL

- WA-0305 Switch CPB-61B w/3 m (10') cord
- WA-0310 Switch w/5 m (17') cord
- WA-0313 Switch w/5 m (17') cord coming LED



WA-0305

WA-0310

WA-0313

SNATCH BLOCK

- WA-0401 CBV-22 10,000 kg / 22,000 lb
- WA-0402 CBV-11 5,000 kg / 11,000 lb
- WA-0403 CBT-06 2,722 kg / 6,000 lb
- WA-0404 CBV-30 13,610 kg / 30,000 lb



CBV-22

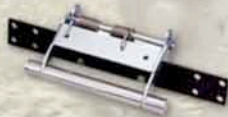
CBV-11

CBT-06

CBV-30

CABLE TENSIONER

- WA-0903 204 mm for DV-12000ES / 15000ES



DETACHABLE SOLENOID PACK

- WA-0802 for DV-9000 / 12000 / 15000
- WA-0809 for DV-6000S / 6000L
- WA-0811 for DS-9.5
- WA-0815 for DV-12000ES/15000ES
- WA-0816 for DU-3000/4000



WA-0802

WA-0809

WA-0811
WA-0815

WA-0816

ROLLER FAIRLEAD

- WA-0501 63 mm throat for DV-2500i / 3500i / 4500i
- WA-0502 180 mm throat for DV-12000ES / 15000ES
- WA-0508 109 mm throat for DV-6000S
- WA-0510 210 mm throat for DV-9000 / 9000i / 6000L & DS-9.5 / 9.5i
- WA-0511 65 mm throat for DU-3000
- WA-0512 109 mm throat for DU-4000



MOUNTING CHANNEL

- WA-0701 Front mounting for DV-9000 / 9000i & DS-9.5 / 9.5i
- WA-0702 multi-purpose mounting for DV-9000 / 9000i & DS-9.5 / 9.5i
- WA-0703 Front mounting for DV-12000ES / 15000ES
- WA-0707 Rear receiver and quick connector kit for DV-6000S



WA-0701
WA-0703

WA-0702

WA-0707

Wire Rope



Battery Isolation Switch

- WA-1401
- 2 Position off-on
- 12V 500 Amp



ENGINEERING DATA

Maximum Line Pull

This is the maximum dead-weight the winch could lift off the ground with a single line on the first layer of wire rope on the drum. They are not suitable for vertical lifting.

Winching Principles

You need a winch to be powerful enough to have your vehicle overcome while the added resistance caused by the obstacle, moving water, mud, snow, sand or on a steep hill.

As a general guide you need a winch with a maximum line pull of at least 1.5 times greater than the gross vehicle weight. There are three factors that have influenced on the line pull effect required to recover the vehicle. The values and calculations in this section are approximate and are for reference only.

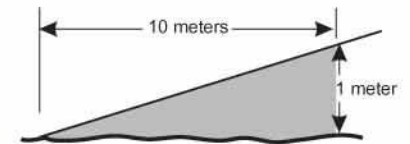
1). **Gross Vehicle Weight (Wt)** : Contains a vehicle weight and the weight of the supplies and equipments carried.

2). **Surface Drag (S)** : The characteristics of the terrains or surface to be traversed

Surface Type	Metal	Sand	Gravel	Soft Sand	Mud	Marsh
Surface Drag (S)	0.15	0.18	0.20	0.22	0.32	0.52

3). **Gradient Resistance (G)** : The incline of grade or slope on which the vehicle is being moved.

Gradient	5 %	10%	20%	30%	50%	70%	100%
Angle (ref.)	3°	6°	11°	17°	26°	35°	45°
Gradient (G)	0.06	0.11	0.2	0.3	0.44	0.58	0.71



A gradient of 10% is a rise of one meter in ten meters

Combining the gross vehicle weight (Wt), the type of the surface to be traversed (S), and the gradient to overcome (G), use the following formula

$$\text{Effect required to recover the vehicle} = (Wt \times S) + (Wt \times G)$$

Quick Reference Chart

Series	Self-Recovery Winch								Trailer Winch		Utility Duty Winch				
Model	DV-6000S	DV-6000L	DV-9000	DV-9000i	DV-12000ES	DV-15000ES	DS-9.5	DS-9.5i	DW-1500i	DW-3000i	DV-2500i	DV-3500i	DV-4500i	DU-3000	DU-4000
Line Pull kg	2,722	2,722	4,082	4,082	5,443	6,803	4,309	4,309	680	1,361	1,134	1,588	2,041	1,363	1,814
Line Pull lb	6,000	6,000	9,000	9,000	12,000	15,000	9,500	9,500	1,500	3,000	2,500	3,500	4,500	3,000	4,000
Remote Control	WA-0310						WA-0313		●	●	WA-0305			WA-0310	
Solenoid Pack	WA-0809		WA-0802	Integrated	WA-0815		WA-0811	Integrated	Integrated		Integrated			WA-0816	
Wire Rope w/Hook	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Roller Fairlead	WA-0508	WA-0510		WA-0502		WA-0510				WA-0501			WA-0511	WA-0512	
Cable Tensioner	WA-0903 as an option														
Snatch Block	WA-0401						WA-0401		WA-0403		WA-0402				
Circuit Breaker									●	●	●	●	●	●	●
Battery Lead	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Handsaver Strap	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

● Means as a standard accessory



Automotive Winch

Infinite Hook Up

Now you Can.....

AC Winch



- Electric Winch
- Baby Winch
- Compact Winch
- Longer Rope Compact Winch

- 1 Ph AC 200-250-300-500 kg lift
- 3 Ph AC 300-500-900-1,100-2,200-3,500-5,000 kg lift
- 1 Ph AC 80-160-230-300 kg lift
- 1 Ph AC 80-200-300 kg lift
- 1 Ph AC 200-300 kg lift

Groove Winch



- 1 Ph AC 500-1,000 kg lift
- 3 Ph AC 500-1,000-2,000-3,000 kg lift

Cable Puller

- 1 Ph AC 2,500 kg pull

Now you Can also

Automotive Winch



- Self-Recovery Winch
- Extreme Self-Recovery Winch
- Utility Duty Winch
- Electric Trailer Winch

- 12/24V 6,000-9,000-12,000-15,000 lb pull
- 12/24V 9,500 lb pull
- 12/24V 2,500-3,000-3,500-4,000-4,500 lb pull
- 12/24V 1,500-3,000 lb pull

Industry Winch



- Electric Recovery Winch
- Worm Gear Winch
- Heavy Duty Hoist
- Hydraulic Recovery Winch

- 12/24V 10,000 lb pull
- 12/24V 8,500-12,000 lb pull
- 12/24V 1,200-1,600-2,000-3,000 lb lift
- 8,000-10,000-12,000-15,000-20,000-30,000 lb pull

ATV / UTV Winch



- ATV Winch • 12V 1,500-3,000 lb pull
- UTV Winch • 12V 4,000 lb pull

Distributed By:

Winches have been awarded the following patents

- U.S.A. US6,520,486B2 USD438,358S USD439,722S
- Germany Nr.20217439.5
- U.K. GB2387368
- France REG.0301991
- Taiwan 076737 076815 079943 139158 180221 180547 181473 186419 188404 190951
- China ZL01204721.X ZL01229143.9 ZL01300166.3 ZL01300167.1 ZL02241429.0 ZL02338450.6