



Infinite Hook Up

2008 Winches Guide

Self-Recovery Winch
Utility Duty Winch
Electric Trailer Winch
Hydraulic Recovery Winch
Worm Gear Winch
Heavy Duty Hoist
ATV/UTV Winch
Accessories
Quick Reference Chart



DS-9.5 Self-Recovery Winch

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



Note: Roller fairlead does not mount to winch

Line Pull.....	4,309 kg / 9,500 lb
Line Speed no load.....	19 mpm / 62 fpm
full load.....	2.1 mpm / 6.8 fpm
Motor 12V.....	3,730 w / 5 hp
24V.....	2,088 w / 2.8 hp
Gear Train.....	3 stage planetary gears
Gear Ratio.....	159 : 1
Free-spool.....	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

DS-9.5i Self-Recovery Winch

- Heavy duty series wound motor delivers superior torque output and faster line speed
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Free-spool.....	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")

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Note: Roller fairlead does not mount to winch

DV-6000S Self-Recovery Winch

- 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 free-spool 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



Note:
Roller fairlead does not mount to winch

Line Pull.....	2,722 kg / 6,000 lb
Line Speed no load	8.0 mpm / 262 fpm
full load	2.0 mpm / 6.5 fpm
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
Free-spool	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

DV-6000L Self-Recovery Winch

- 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 free-spool is a pull and turn design for rapid wire rope payout

Line Pull	2,722 kg / 6,000 lb
Line Speed no load	8.0 mpm / 262 fpm
full load	2.0 mpm / 6.5 fpm
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
Free-spool	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



Note:
Roller fairlead does not mount to winch

DV-9000 Self-Recovery Winch

- 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 free-spool is a pull and turn design for rapid wire rope payout

Line Pull	4,082 kg / 9,000 lb
Line Speed no load	13.4 mpm / 44 fpm
full load	2.0 mpm / 6.4 fpm
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
Free-spool	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")

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Note:
Roller fairlead does not mount to winch

DV-9000i Self-Recovery Winch

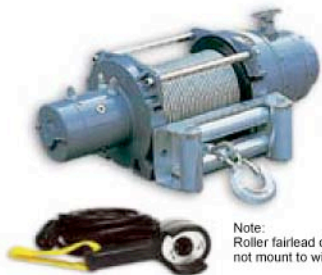
- Heavy duty series wound motor delivers superior torque output and faster line speed
- 3 stage planetary gearbox delivers the most reliable and durable performance of winch under the worst condition.
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- Rotating ring gear free-spool is a pull and turn design for rapid wire rope payout

Line Pull	4,082 kg / 9,000 lb
Line Speed no load	13.4 mpm / 44 fpm
full load	2.0 mpm / 6.4 fpm
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
Free-spool	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")

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not mount to winch

DV-12000ES Self-Recovery Winch

- 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 free-spool is a pull and turn design for rapid wire rope payout
- Heavy duty sealed solenoid gives better water resistance and lower amp.draw

Line Pull	5,443 kg / 12,000 lb
Line Speed no load	8.3 mpm / 27 fpm
full load	1.2 mpm / 4.0 fpm
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
Free-spool	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")

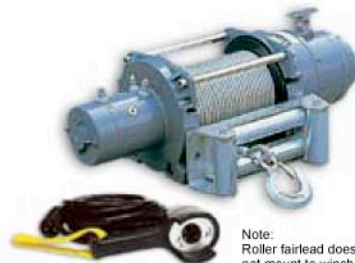
※ Limited Lifetime Warranty

DV-15000ES Self-Recovery Winch

- 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 free-spool is a pull and turn design for rapid wire rope payout
- Heavy duty sealed solenoid gives better water resistance and lower amp.draw

Line Pull	6,803 kg / 15,000 lb
Line Speed no load	6.9 mpm / 22 fpm
full load	0.8 mpm / 2.5 fpm
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
Free-spool	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")

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Note:
Roller fairlead does
not mount to winch



Note:
Roller fairlead does not mount to winch

DU-3000 Utility Duty Winch

- 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 activated free-spool 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

Line Pull.....	1,363 kg / 3,000 lb
Line Speed no load	7.6 mpm / 24.9 fpm
full load	2.5 mpm / 8.2 fpm
Motor 12V	800 w / 1.0 hp
24V	800 w / 1.0 hp
Gear Train.....	3 stage planetary
Gear Ratio	145:1
Brake	mechanical
Free-spool	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

DU-4000 Utility Duty Winch

- 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 activated free-spool 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

Line Pull.....	1,814 kg / 4,000 lb
Line Speed no load	6.0 mpm / 19.7 fpm
full load	2.0 mpm / 6.6 fpm
Motor 12V	800 w / 1.0 hp
24V	800 w / 1.0 hp
Gear Train.....	3 stage planetary
Gear Ratio	184:1
Brake	mechanical
Free-spool	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



Note:
Roller fairlead does not mount to winch



DW-1500i Electric Trailer Winch

- Powerful permanent magnet motor 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

Line Pull	680 kg / 1,500 lb
Rolling Load	5,443 kg / 12,000 lb
Motor	120 w / 0.16 hp, permanent magnet
Gear Ratio	466 : 1
Brake	mechanical
Wire Rope Supplied.....	ø5.5 mm x 9.1 m (7/32" x 30')

DW-3000i Electric Trailer Winch

- Powerful permanent magnet motor with reverse feature allows winching in as well as winching out.
- 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

Line Pull	1,361 kg / 3,000 lb
Rolling Load.....	11,340 kg / 25,000 lb
Motor	300 w / 0.4 hp, permanent magnet
Gear Ratio	480 : 1
Brake	mechanical
Wire Rope Supplied.....	ø5.5 mm x 15.2 m (7/32" x 50')





DV-2500i Utility Duty Winch

- 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

Line Pull	1,134 kg / 2,500 lb
Motor	600 w / 0.8 hp, permanent magnet
Gear Train.....	3 stage planetary gears
Gear Ratio	170 : 1
Freespool.....	sliding ramping
Brake	mechanical
Wire Rope Size.....	ø4.8 mm x 15.2 m (ø3/16" 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")

DV-3500i Utility Duty Winch

- 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

Line Pull	1,588 kg / 3,500 lb
Motor	900 w / 1.2 hp, permanent magnet
Gear Train.....	3 stage planetary gears
Gear Ratio	170 : 1
Freespool.....	sliding ramping
Brake	mechanical
Wire Rope Size.....	ø5.5 mm x 15.2 m (ø7/32" 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")





DV-4500i Utility Duty Winch

- 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

Line Pull	2,041 kg / 4,500 lb
Motor	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	ø6.2 mm x 15.2 m (ø1/4" x 50')
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")

UTV-4000 UTV Winch

- 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
- Full metal 3 stage planetary gear train
- Cam activated free-spool for fast wire rope payout
- Weather resistant, sealed solenoid
- Automatic load-holding mechanical brake for strength and reliability
- Roller fairlead and snatch block supplied

Line Pull	1,814 kg / 4,000 lb
Line Speed no load	6.0 mpm / 19.7 fpm
full load	2.0 mpm / 6.5 fpm
Motor	800 w / 1.0 hp
Gear Train	3 stage planetary
Gear Ratio	184 : 1
Brake	Dynamic and mechanical
Free-spool	Cam activated
Wire Rope	5.5 mm x 15.2 m (7/32" x 50') galvanized aircraft A7 x 19
Drum Size	55 mm x 119 mm (2.2" x 4.7")
Control	Remote control
Mounting Bolts Pattern	76 mm x 168 mm (3" x 6.6")

※ Limited Lifetime Warranty



Note:
Roller fairlead does not mount to winch



Note:
Roller fairlead does
not mount to winch

ATV-1500 ATV Winch

- 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
- Full metal 3 stage planetary gear train
- Cam activated free-spool for fast wire rope payout
- Weather resistant, sealed solenoid
- Automatic load-holding mechanical brake for strength and reliability
- Roller fairlead supplied

Line Pull.....	680 kg / 1,500 lb
Line Speed no load	4.6 mpm / 15 fpm
full load	1.5 mpm / 5 fpm
Motor	300 w / 0.4 hp
Gear Train.....	3 stage planetary
Gear Ratio.....	103 : 1
Brake	Dynamic and mechanical
Free-spool	Cam activated
Wire Rope.....	4 mm x 15.2 m (5/32" x 50')
	galvanized aircraft A7 x 19
Drum Size.....	38 mm x 75 mm (1.5" x 3")
Control	Handlebar trigger switch
Mounting Bolts Pattern.....	76 mm x 124 mm (3" x 4.9")

※ Limited Lifetime Warranty

ATV-3000 ATV Winch

- 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
- Full metal 3 stage planetary gear train
- Cam activated free-spool for fast wire rope payout
- Weather resistant, sealed solenoid
- Automatic load-holding mechanical brake for strength and reliability
- Roller fairlead and snatch block supplied

Line Pull.....	1,363 kg / 3,000 lb
Line Speed no load	7.6 mpm / 24.9 fpm
full load	2.5 mpm / 3.2 fpm
Motor	800 w / 1.0 hp
Gear Train.....	3 stage planetary
Gear Ratio.....	145 : 1
Brake	Dynamic and mechanical
Free-spool	Cam activated
Wire Rope.....	4.8 mm x 15.2 m (3/16" x 50')
	galvanized aircraft A7 x 19
Drum Size.....	38 mm x 75 mm (1.5" x 3")
Control	Remote control and handlebar trigger switch
Mounting Bolts Pattern.....	76 mm x 124 mm (3" x 4.9")

※ Limited Lifetime Warranty



Note:
Roller fairlead does
not mount to winch



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Roller fairlead does
not mount to winch

HV-8000SP Hydraulic Recovery Winch

- Robust and compact design long life under extreme operating condition
- Smooth running over the entire speed range
- Highly efficient, constant operating torque motor
- High efficiency 2-stage planetary gear train for greater pulling force
- Rotating ring gear free-spool is a pull and turn design for rapid wire rope payout
- Spring applied drag brake with one-way freespool
- 10 : 1 D/d ratio allows for heavy duty applications on car transporter, wrecker, tractor, lorry and fire / rescue engine

Hydraulic System Installation
(Powered by a PTO / power take off unit driven pump)

Line Pull	3,629 kg / 8,000 lb
Line Speed	15 mpm / 49 fpm
Operation Pressure	140 bar / 2,030 psi
Max Oil Flow	15.9 g / min (60 l / min)
Motor Displacement	77.8 cm ³ / rev (4.7 in ³ / rev)
Motor Rotation	anti-clockwise
Gear Train	2 stage planetary gears
Gear Ratio	16 : 1
Free-spool	rotating ring gear
Brake	spring applied drag brake
Drum Size	ø 89 mm x 190 mm (ø 3.5" x 7.48")
Mounting Bolts Pattern	228.6 mm x 114.3 mm (9" x 4.5") 311.2 mm x 171.2 mm (12.25" x 6.74")

※ Limited Lifetime Warranty

HV-10000SP Hydraulic Recovery Winch

- Robust and compact design long life under extreme operating condition
- Smooth running over the entire speed range
- Highly efficient, constant operating torque motor
- High efficiency 2-stage planetary gear train for greater pulling force
- Rotating ring gear free-spool is a pull and turn design for rapid wire rope payout
- Spring applied drag brake with one-way freespool
- 10 : 1 D/d ratio allows for heavy duty applications on car transporter, wrecker, tractor, lorry and fire / rescue engine

Hydraulic System Installation
(Powered by a PTO / power take off unit driven pump)

Line Pull	4,535 kg / 10,000 lb
Line Speed	12 mpm / 39.45 fpm
Operation Pressure	140 bar / 2,030 psi
Max Oil Flow	15.9 g / min (60 l / min)
Motor Displacement	97.3 cm ³ / rev (5.9 in ³ / rev)
Motor Rotation	anti-clockwise
Gear Train	2 stage planetary gears
Gear Ratio	16 : 1
Free-spool	rotating ring gear
Brake	spring applied drag brake
Drum Size	ø 89 mm x 253 mm (ø 3.5" x 9.96")
Mounting Bolts Pattern	291.6 mm x 114.3 mm (11.48" x 4.5") 374.2 mm x 171.2 mm (14.73" x 6.74")

※ Limited Lifetime Warranty



Note:
Roller fairlead does
not mount to winch



Note:
Roller fairlead does
not mount to winch

HV-1200P Hydraulic Recovery Winch

- Robust and compact design long life under extreme operating condition
- Smooth running over the entire speed range
- Highly efficient, constant operating torque motor
- High efficiency 2-stage planetary gear train for greater pulling force
- Spring applied drag brake with one-way freespool
- Rotating ring gear free-spool is a pull and turn design for rapid wire rope payout
- 10 : 1 D/d ratio allows for heavy duty applications on car transporter, wrecker, tractor, lorry and fire / rescue engine.

Hydraulic System Installation
(Powered by a PTO / power take off unit driven pump)

Line Pull	5,443 kg / 12,000 lb
Line Speed	11 mpm / 35.4 fpm
Operation Pressure	140 bar / 2,030 psi
Max Oil Flow	15.9 g / min (60 l / min)
Motor Displacement	125 cm ³ / rev (7.6 in ³ / rev)
Motor Rotation	anti-clockwise
Gear Train	2 stage planetary gears
Gear Ratio	19.4 : 1
Free-spool	rotating ring gear
Brake	spring applied drag brake
Drum Size	ø 127 mm x 255 mm (ø 5" x 10")
Mounting Bolts Pattern	303.5 mm x 114.3 mm (12" x 4.5") 368.5 mm x 171.2 mm (14.5" x 6.7")

※ Limited Lifetime Warranty

HV-1500P Hydraulic Recovery Winch

- Robust and compact design long life under extreme operating condition
- Smooth running over the entire speed range
- Highly efficient, constant operating torque motor
- High efficiency 2-stage planetary gear train for greater pulling force
- Spring applied drag brake with one-way freespool
- Rotating ring gear free-spool is a pull and turn design for rapid wire rope payout
- 10 : 1 D/d ratio allows for heavy duty applications on car transporter, wrecker, tractor, lorry and fire / rescue engine.

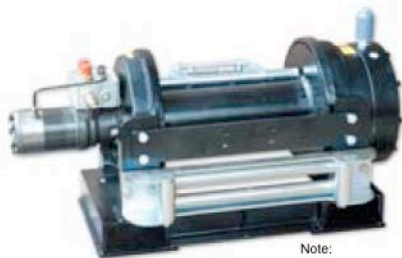
Hydraulic System Installation
(Powered by a PTO / power take off unit driven pump)

Line Pull	6,803 kg / 15,000 lb
Line Speed	9 mpm / 28.8 fpm
Operation Pressure	140 bar / 2,030 psi
Max Oil Flow	15.9 g / min (60 l / min)
Motor Displacement	156 cm ³ / rev (9.5 in ³ / rev)
Motor Rotation	anti-clockwise
Gear Train	2 stage planetary gears
Gear Ratio	19.4 : 1
Free-spool	rotating ring gear
Brake	spring applied drag brake
Drum Size	ø 127 mm x 255 mm (ø 5" x 10")
Mounting Bolts Pattern	303.5 mm x 114.3 mm (12" x 4.5") 368.5 mm x 171.2 mm (14.5" x 6.7")

※ Limited Lifetime Warranty



Note:
Roller fairlead does
not mount to winch



Note:
Roller fairlead does
not mount to winch

HV-20000 Hydraulic Recovery Winch

- Hydraulic motor with negative brake and needle bearings for high holding torque and minimum servicing.
- Compact unit with maximum brake/motor integration.
- High efficiency 2-stage planetary gear train for greater pulling force.
- Spring applied drag brake with one-way freespool
- Rotating ring gear free-spool is a pull and turn design for rapid wire rope payout.
- 10:1 D/d ratio allows for heavy duty applications on car transporter, wrecker, tractor, lorry and fire/rescue engine.

Hydraulic System Installation (Powered by a PTO / power take off unit driven pump)

Line Pull.....	9,090 kg / 20,000 lb
Line Speed	7.2mpm / 23.6 fpm
Operation Pressure	172 bar / 2,500 psi
Max Oil Flow.....	15.9 g / min (60 l / min)
Motor Displacement.....	125 cm ³ / rev (7.6 in ³ / rev)
Motor Rotation.....	anti-clockwise
Gear Train.....	2 stage planetary gears
Gear Ratio	32 : 1
Free-spool	rotating ring gear
Brake	spring-applied, multi-disc brake integrated in motor
Drum Size.....	ø140 mm x 370 mm (ø5.51" x 14.57")
Mounting Bolts Pattern	470 mm x 254 mm (18.5" x 10") 571.6 mm x 254 mm (22.5" x 10")

※ Limited Lifetime Warranty

HV-30000 Hydraulic Recovery Winch

- Hydraulic motor with negative brake and needle bearings for high holding torque and minimum servicing.
- Compact unit with maximum brake/motor integration.
- High efficiency 2-stage planetary gear train for greater pulling force.
- The brake is a spring-applied, multi-disc type which is released by hydraulic pressure.
- Rotating ring gear free-spool is a pull and turn design for rapid wire rope payout.
- 10 : 1 D/d ratio allows for heavy duty applications on car transporter, wrecker, tractor, lorry and fire/rescue engine.

Hydraulic System Installation (Powered by a PTO / power take off unit driven pump)

Line Pull.....	13,636 kg / 30,000 lb
Line Speed	4.6 mpm / 15.1 fpm
Operation Pressure	175 bar / 2,540 psi
Max Oil Flow	15.9 g / min (60 l / min)
Motor Displacement.....	160 cm ³ / rev (9.7 in ³ / rev)
Motor Rotation.....	anti-clockwise
Gear Train.....	2 stage planetary gears
Gear Ratio	43.1 : 1
Free-spool	rotating ring gear
Brake	spring-applied, multi-disc brake integrated in motor
Drum Size.....	ø152.5 mm x 350 mm (ø6" x 13.78")
Mounting Bolts Pattern.....	457.2 mm x 317.5 mm (18.5" x 12.5") 558.8 mm x 317.5 mm (22" x 12.5")

※ Limited Lifetime Warranty



Note:
Roller fairlead does
not mount to winch



DH-1200 Heavy Duty Hoist

- Heavy duty series wound motor gives high torque and fast line speed
- Detachable control box mounted elsewhere on the vehicle
- High efficiency 3-stage planetary gear train for greater pulling force
- 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.
- In compliance with standard of ANSI B30.5, D/d \geq 18, and wire rope safety factor \geq 3.5
- Provides an answer to the health and safety recommendations for manual lifting

Lifting Load	545 kg / 1,200 lb
Line Speed no load	12.5 mpm / 41 fpm
full load	5.5 mpm / 18.0 fpm
Motor 12V	900 w / 1.2 hp
24V	600 w / 0.8 hp
Gear Train	3 stage planetary gears
Gear Ratio	216 : 1
Brake	automatic, full load cone brake
Wire Rope Size	ϕ 6.35 x 15.2 m (1/4" x 50')
Wire Rope Type	galvanized aircraft A7 x 19
Drum Size	ϕ 89 x 72.7 mm (3.5" x 2.86")
Mounting Bolts Pattern	101.6 mm x 114 mm (4" x 4.5")

※ Limited Lifetime Warranty

DHC-1600 Heavy Duty Winch

- Heavy duty series wound motor gives high torque and fast line speed
- Detachable control box mounted elsewhere on the vehicle
- High efficiency 3-stage planetary gear train for greater pulling force
- The U.S. Germany, U.K., France, etc patents automatic, full-load cone brake PLUS auxiliary inverted current brake ensure positive load control.
- In compliance with standard of ANSI B30.5, D/d \geq 18, and wire rope safety factor \geq 3.5
- Provides an answer to the health and safety recommendations for manual lifting

Lifting Load	726 kg / 1,600 lb
Line Speed no load	14.0 mpm / 45.9 fpm
full load	4.5 mpm / 14.8 fpm
Motor 12V	900 w / 1.2 hp
24V	600 w / 0.8 hp
Gear Train	3 stage planetary gears
Gear Ratio	216 : 1
Brake	automatic, full load cone brake PLUS auxiliary inverted current brake
Wire Rope Size	ϕ 5.6 x 19.8 m (7/32" x 65')
Wire Rope Type	galvanized aircraft A7 x 19
Drum Size	ϕ 95 x 115.3 mm (ϕ 3.75" x 4.54")
Mounting Bolts Pattern	152.4 mm x 114 mm (6" x 4.5")

※ Limited Lifetime Warranty





DHC-2000 Heavy Duty Hoist

- Heavy duty series wound motor gives high torque and fast line speed
- Detachable control box mounted elsewhere on the vehicle
- High efficiency 3-stage planetary gear train for greater pulling force
- The U.S. Germany, U.K., France, etc patents automatic, full-load cone brake PLUS auxiliary inverted current brake ensure positive load control.
- In compliance with standard of ANSI B30.5, D/d \geq 18, and wire rope safety factory \geq 3.5
- Provides an answer to the health and safety recommendations for manual lifting

Lifting Load.....	907 kg / 2,000 lb
Line Speed no load	10.2 mpm / 33.5 fpm
full load	4.2 mpm / 13.8 fpm
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
Brake.....	automatic, full load cone brake PLUS auxiliary inverted current brake
Wire Rope Size.....	ϕ 6.4 x 30.5 m (1/4" x 100')
Wire Rope Type.....	galvanized aircraft A7 x 19
Drum Size.....	ϕ 114.3 x 146.8 mm (ϕ 4.5" x 5.78")
Mounting Bolts Pattern.....	203.2 mm x 114 mm (8" x 4.5")

※ Limited Lifetime Warranty

DHC-3000 Heavy Duty Hoist

- Heavy duty series wound motor gives high torque and fast line speed
- Detachable control box mounted elsewhere on the vehicle
- High efficiency 3-stage planetary gear train for greater pulling force
- The U.S. Germany, U.K., France, etc patents automatic, full-load cone brake PLUS auxiliary inverted current brake ensure positive load control.
- In compliance with standard of ANSI B30.5, D/d \geq 18, and wire rope safety factory \geq 3.5
- Provides an answer to the health and safety recommendations for manual lifting

Lifting Load.....	1,360 kg / 3,000 lb
Line Speed no load	4.3 mpm / 14.1 fpm
full load	5.3 mpm / 17.4 fpm
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
Brake.....	automatic, full load cone brake PLUS auxiliary inverted current brake
Wire Rope Size.....	ϕ 8.3 x 22.9 m (21/64" x 75')
Wire Rope Type.....	galvanized aircraft A7 x 19
Drum Size.....	ϕ 141.3 x 146.8 mm (ϕ 5.56" x 5.78")
Mounting Bolts Pattern.....	203.2 mm x 114 mm (8" x 4.5")

※ Limited Lifetime Warranty





Note:
Roller fairlead does not mount to winch

Wolf 8.5 Worm Gear Winch

- Robust, extreme heavy duty worm drive
- Heavy duty series wound motor for high torque output and fast line speed under extreme operating condition
- Detachable weather-resistant solenoid pack mounted elsewhere on the vehicle
- 2 stages spur gears plus 1 exceptionally strong worm gear for reversing protection
- Irreversible worm gear brake as well as an auxiliary mechanism ratchet wheel brake performs instant braking and free slip
- Mechanism lever free-spool for rapid wire rope pay-out.
- Higher D/d ratio (Drum dia. / rope dia.) allows light commercial applications of car transporter, wrecker, tractor, lorry and fire / rescue engine.

Line Pull.....	3,856 kg / 8,500 lb
Line Speed no load	9.4 mpm / 31.1 fpm
full load	1.5 mpm / 5.1 fpm
Motor 12V	3,430 w / 4.6 hp
24V	1,940 w / 2.6 hp
Gear Train.....	2 stages spur gears PLUS worm gear
Gear Ratio	257 : 1
Free-spool	mechanism lever
Brake	Irreversible worm gear brake PLUS mechanism ratchet wheel brake
Wire Rope Size.....	8 mm X 45 m (5/16" X 150')
Wire Rope Type.....	galvanized aircraft A7 X 19
Drum Size.....	82 mm X 229 mm (3.2" X 9")
Mounting Bolts Pattern.....	125 mm x 276 mm (4.92" x 10.87")

※ Limited Lifetime Warranty

Wolf 12.0 Worm Gear Winch

- Robust, extreme heavy duty worm drive
- Heavy duty series wound motor for high torque output and fast line speed under extreme operating condition
- Detachable weather-resistant solenoid pack mounted elsewhere on the vehicle
- 2 stages gear plus 1 exceptionally strong worm gear for reversing protection
- Irreversible worm gear brake as well as an auxiliary mechanism ratchet wheel brake performs instant braking and free slip
- Mechanism lever free-spool for rapid wire rope pay-out
- Higher D/d ratio (Drum dia. / rope dia.) allows light commercial applications of car transporter, wrecker, tractor, lorry and fire / rescue engine.

Line Pull.....	5,443 kg / 12,000 lb
Line Speed no load	6.2 mpm / 20.6 fpm
full load	1.0 mpm / 3.4 fpm
Motor 12V	3,430 w / 4.6 hp
24V	2,238 w / 3.0 hp
Gear Train.....	2 stages spur gears PLUS worm gear
Gear Ratio	424 : 1
Free-spool	mechanism lever
Brake	Irreversible worm gear brake PLUS mechanism ratchet wheel brake
Wire Rope Size.....	9.5 mm X 30 m (3/8" X 100')
Wire Rope Type.....	galvanized aircraft A7 X 19
Drum Size.....	89 mm X 229 mm (3.5" X 9")
Mounting Bolts Pattern.....	125 mm x 276 mm (4.92" x 10.87")

※ Limited Lifetime Warranty



Note:
Roller fairlead does not mount to winch

DP-10000 Electric Recovery Winch



Note:
Roller fairlead does
not mount to winch

- Heavy duty series wound mound motor gives high torque and fast line speed
- High efficiency 4 stage planetary gear train for greater pulling force
- The U.S. Germany, U.K., France, etc patents automatic, PLUS auxiliary magnet brake ensure positive load control.
- 10 : 1 D/d ratio allows for heavy duty applications on car transporter wrecker, tractor, lorry and fire / rescue engine
- Auxiliary magnet brake performs instant braking
- Rotating ring gear free-spool is a pull and turn design for rapid wire rope payout

Line Pull.....	4,535 kg / 10,000 lb
Line Speed no load	6.2 mpm / 20.3 fpm
full load	0.9 mpm / 3.0 fpm
Motor 12V	3,430 w / 4.6 hp
24V	2,237 w / 3.0 hp
Control	detachable solenoid pack
Gear Train.....	4 stage planetary gears
Gear Ratio	277 : 1
Free-spool	rotating ring gear
Brake	automatic, full load cone brake PLUS auxiliary magnet brake
Drum Size	ø89 mm x 253 mm (ø3.5" x 9.96")
Mounting Bolts Pattern	291.6 mm x 114.3 mm (11.48" x 4.5") 374.2 mm x 171.2 mm (14.73" x 6.74")

※ Limited Lifetime Warranty

Accessories

QUICK CONNECTOR

WA-0101 50 A
WA-0102 175 A



WA-0101

WA-0102

DC SOLENOID

WA-0201 12V for DV/DW winch
WA-0202 24V for DV/DW winch
WA-0203 12V for DS-9.5/9.5i,
DV-12000ES/15000ES
WA-0204 24V for DS-9.5/9.5i,
DV-12000ES/15000ES
WA-0205 12V for DU-3000/4000,
ATV-3000/UTV-4000
WA-0206 24V for DU-3000/4000
WA-0207 12V for ATV-1500



WA-0201
WA-0202

WA-0203
WA-0204

WA-0205
WA-0206

WA-0207

REMOTE CONTROL

WA-0305 for DV-2500i/3500i/4500i
WA-0310 Rubber switch w/5 m (17') cord
WA-0313 for DS-9.5/9.5i
WA-0314 for ATV-3000/UTV-4000



WA-0304
WA-0305

WA-0313

WA-0310

TRIGGER SWITCH W/CORD

WA-0315 for ATV-1500
WA-0316 for ATV-3000



WA-0315
WA-0316

Accessories

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

ROLLER FAIRLEAD

- WA-0501 for DV-2500i / 3500i / 4500i
 WA-0502 for DV-12000ES/15000ES
 WA-0503 for HV-8000SP
 WA-0504 for HV-10000SP/12000P/15000P, DP-10000
 WA-0508 for DV-6000S
 WA-0510 for DV-6000L/9000/9000i, DS-9.5/9.5i, Wolf 8.5/12.0
 WA-0511 for DU-3000, ATV-1500/3000
 WA-0512 for DU-4000, UTV-4000
 WA-0513 for HV-20000
 WA-0514 for HV-30000



MOUNTING CHANNEL

- WA-0701 Front mounting for DV-6000L/9000/9000i, DS-9.5/9.5i
 WA-0702 Multi-purpose mounting for DV-6000L/9000/9000i, DS-9.5/9.5i
 WA-0703 Front mounting for DV-12000ES/15000ES
 WA-0705 Front mounting for HV-10000SP
 WA-0706 Front mounting for HV-8000SP
 WA-0707 Rear receiver w/quick connector kit for DV-6000S



WA-0701
 WA-0703
 WA-0705
 WA-0706

WA-0702

WA-0707

DETACHABLE SOLENOID PACK

- WA-0802 for DV-9000, DP-10000
 WA-0809 for DV-6000S/6000L
 WA-0811 for DS-95
 WA-0812 for DH-1200
 WA-0815 for DV-12000ES/15000ES
 WA-0816 for DU-3000/4000
 WA-0817 for DHC-1600/2000/3000
 WA-0818 for Wolf 8.5/12.0



WA-0802
 WA-0812

WA-0809

WA-0811
 WA-0815
 WA-0818

WA-0816
 WA-0817

CABLE TENSIONER

- WA-0902 for HV-12000P/15000P, DP-10000
 WA-0903 for DV-12000ES/15000ES
 WA-0904 for HV-20000
 WA-0905 for Wolf 8.5/12.0
 WA-0906 for HV-30000
 WA-0907 for HV-8000SP w/flat bar
 WA-0908 for HV-10000SP w/flat bar



AIR FREE-SPOOL

- WA-1001 for HV-8000SP/10000SP/12000P/15000P/20000
 WA-1003 for HV-30000



OVER CENTER VALVE

- WA-1301 for HV-8000SP/10000SP/12000P/15000P



WINCH ACCESSORY KIT

- WA-1101 for DV-9000/9000i
 WA-1102 for DV-12000ES/15000ES

WA-1101



WA-1102



BATTERY ISOLATION SWITCH

WA-1401



Quick Reference Chart

Series	Automotive Winch													Industry Winch										ATV/UTV Winch								
	Self-Recovery Winch								Utility Duty Winch					Hydraulic Recovery Winch						Recovery Winch	Worm Gear Winch	Heavy Duty Hoist				ATV Winch		UTV Winch				
Model	DV-6000S	DV-6000L	DV-9000	DV-9000i	DV-12000ES	DV-15000ES	DS-9.5	DS-9.5i	DV-2500i	DV-3500i	DV-4500i	DU-3000	DU-4000	HV-8000SP	HV-10000SP	HV-12000P	HV-15000P	HV-20000	HV-30000	DP-10000	Wolf 8.5	Wolf 12.0	DH-1200	DHC-1600	DHC-2000	DHC-3000	ATV-1500	ATV-3000	UTV-4000			
Line Pull kg	2,722	2,722	4,082	4,082	5,443	6,803	4,309	4,390	1,134	1,588	2,041	1,363	1,814	3,629	4,535	5,443	6,803	9,090	13,636	4,535	3,856	5,443					680	1,363	1,814			
Line Pull lb	6,000	6,000	9,000	9,000	12,000	15,000	9,500	9,500	2,500	3,500	4,000	3,000	4,000	8,000	10,000	12,000	15,000	20,000	30,000	10,000	8,500	12,000					1,500	3,000	4,000			
Lifting Cap. kg																							545	726	907	1,360						
Remote Control	WA-0310						WA-0313			WA-0305			WA-0310								WA-0310			WA-0310			WA-0314					
Trigger switch w/cord																												WA-0315	WA-0316			
Solenoid Pack	WA-0809		WA-0802		Integrated	WA-0815		WA-0811		Integrated	Integrated			WA-0816							WA-0812	WA-0818		WA-0802		WA-0817			WA-0207	WA-0205		
Over-Center Valve														WA-1301			Incorporated in motor															
Wire Rope w/Hook	●	●	●	●	●	●	●	●	●	●	●	●	●								●	●	●	●	●	●	●	●	●	●		
Roller Fairlead	WA-0508	WA-0510			WA-0502		WA-0510			WA-0501			WA-0511	WA-0512	WA-0503	WA-0504		WA-0513	WA-0514	WA-0504	WA-0510							WA-0511	WA-0512			
Cable Tensioner					*WA-0903 as an option										*WA-0907	*WA-0908	WA-0902		WA-0904	WA-0906	*WA-0902	WA-0905										
Air Free-spool														*WA-1001	WA-1001			WA-1003														
Snatch Block	WA-0401						WA-0401			WA-0402																					WA-0403	WA-0402
Circuit Breaker									●	●	●	●	●																			
Base Plate																		●	●													
Battery Lead	●	●	●	●	●	●	●	●	●	●	●	●	●								●	●	●					●	●	●		
Handsaver Strap	●	●	●	●	●	●	●	●	●	●	●	●	●								●	●	●					●	●	●		

● Means as a standard accessory

* Means as an option accessory



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Infinite Hook Up

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

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