



# Electric Wire Rope Winch



Winches comply with  
EN 14492-1 Power Driven Winches,  
Machinery Directive 2006/42/EC,  
Low Voltage Directive ( LVD ) 2006/95/EC  
Electromagnetic Compatibility Directive ( EMC ) 2004/108/EC

## Company Profile

### 'NO COMPROMISE' WINCHING SOLUTIONS

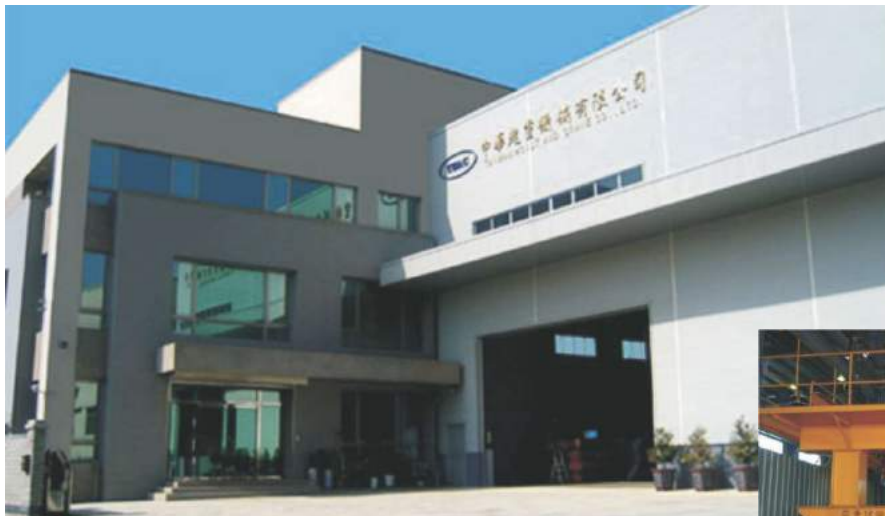
Founded in 1996, Taiwan Hoist and Crane Co., Ltd located in Zhongli city, Taoyuan , Taiwan is specializing in the design and manufacturing lifting equipment including Explosion Proof Wire Rope Hoist, Electric Wire Rope Hoist, Electric Chain Hoist, Crane Kit, Electric Wire Rope Winch.

With years' experience in winching solutions, we are pleased that we have market our new products, Electric Wire Rope Winch. We believe that you will find our new products marketed competitive both in quality and prices.

All THAC Electric Wire Rope Winch are classified according to different drive groups, DIN 15020, FEM9.511, ISO4301/1. Winches also comply with EN 14492-1 ( Power Driven Winches), Machinery Directive 2006/42/EC, Electromagnetic Compatibility Directive(EMC) 2004/108/EC and Low Voltage Directive ( LVD ) 2006/95/EC

To comply with EN 14492-1, all THAC Electric Wire Rope Winch meet the following requirements

1. Minimum 15:1 drum diameter to rope diameter,
2. 5:1 wire rope breaking strength
3. A given amount of freeboard of at least 1.5 times of wire rope diameter
4. Winch rated at 1,000 kgf or more are fitted with over-load protection design
5. IP65 pendant switch with an emergency stop button
6. At least 150% static braking torque of winch ratings



# TA300/TA300a

Lifting Capacity: 300 kgf

Lifting Capacity: 300 kgf

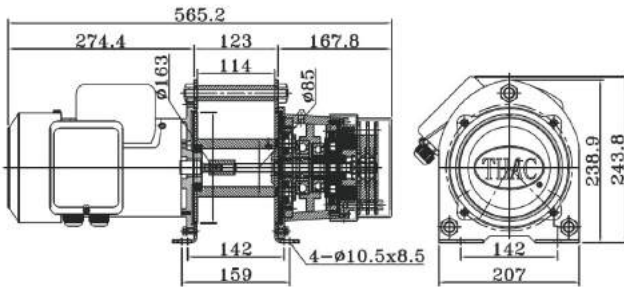
220, 230, 240V 1 phase, 50Hz

110, 220V 1 phase, 60Hz

- Compact dimension and light weight device
- In the event of power loss, an electromagnetic spring-applied fail-safe brake, designed for both static and dynamic load is applied
- Enclosed drum flanges prevent rope from becoming trapped between drum and frames
- Tough and ergonomic steel frames and drum construction
- IP65 pendant switch with an emergency stop button
- 24 VAC control for safety operation for TA300a
- Inside the winch is the 2 stage planetary gear trains developing for maximum mechanical efficiency
- EN 14492-1 ( Power Driven Winches), Machinery Directive 2006/42/EC, Electromagnetic Compatibility Directive(EMC) 2004/108/EC and Low Voltage Directive ( LVD ) 2006/95/EC



TA300



Rope Layer	No.	1	2	3	4	5
Rated lifting cap. by layer kgf	50 Hz	458	405	363	328	300
	60 Hz	458	405	363	328	300
Rope speed m/min	50 Hz	8.4	9.5	10.6	11.7	12.8
	60 Hz	10.1	11.4	12.7	14.1	15.4
Cumulating rope winding length m		5.0	10.6	16.8	23.7	30.0

Maximum Lifting Capacity : 300 kgf at wire rope top layer for 50 Hz motor  
300 kgf at wire rope top layer for 60 Hz motor

Power Source : 1 phase, 110V, 220V, 230V, 240V; 50Hz or 60 Hz

Rating: (63% of rated load) : (63% of rated load) - 25% ED

Driven Classification : ISO-M3, FEM-1Bm

Motor : 1.1 kw x 4P induction motor, IP 54, B class insulation

Gear Train : 2 stage planetary gear with a gear ratio of 48:1

Static Braking Torque : At least 150% of winch ratings

Control: : Direct control

Drum Dimension : 85 (barrel drum dia.) x 163 (flange dia.)  
x 114 (width) mm

Wire Rope : Galvanized 6 mm x 30 m, with a minimum breaking strength of 20 kN

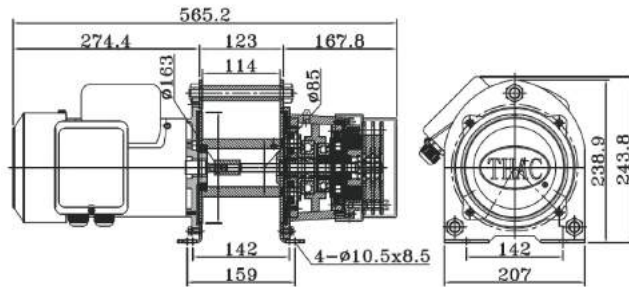
Standard Accessories : Wire rope w/a 360 degree swivel weight hook, pendant switch, 3 m switch cord and 3 m power cord

Mounting Bolts Pattern : 142 x 142~159mm

Winch Weight : 35 kg

Gross Weight : 44 kg (carton)

TA300a(24VAC Control)



Rope Layer	No.	1	2	3	4	5
Rated lifting cap. by layer kgf	50 Hz	458	405	363	328	300
	60 Hz	458	405	363	328	300
Rope speed m/min	50 Hz	8.4	9.5	10.6	11.7	12.8
	60 Hz	10.1	11.4	12.7	14.1	15.4
Cumulating rope winding length m		5.0	10.6	16.8	23.7	30.0

Maximum Lifting Capacity : 300 kgf at wire rope top layer for 50 Hz motor  
300 kgf at wire rope top layer for 60 Hz motor

Power Source : 1 phase, 110V, 220V, 230V, 240V; 50Hz or 60 Hz

Rating: (63% of rated load) : (63% of rated load) - 25% ED

Driven Classification : ISO-M3, FEM-1BM

Motor : 1.1 kw x 4P induction motor, IP 54, B class insulation

Gear Train : 2 stage planetary gear with a gear ratio of 48:1

Static Braking Torque : At least 150% of winch ratings

Control: : 24 VAC control

Drum Dimension : 85 (barrel drum dia.) x 163 (flange dia.)  
x 114 (width) mm

Wire Rope : Galvanized 6 mm x 30 m, with a minimum breaking strength of 20 kN

Standard Accessories : Wire rope w/a 360 degree swivel weight hook, 24 VAC master control box, pendant switch, 3 m switch cord and 3 m power cord

Mounting Bolts Pattern : 142 x 142~159mm

Winch Weight : 35 kg

Gross Weight : 62 kg (wooden case) for TA300a



## TA500 / TA500a

Lifting Capacity: 500 kgf

Lifting Capacity: 400 kgf

220, 230, 240V 1 phase, 50Hz

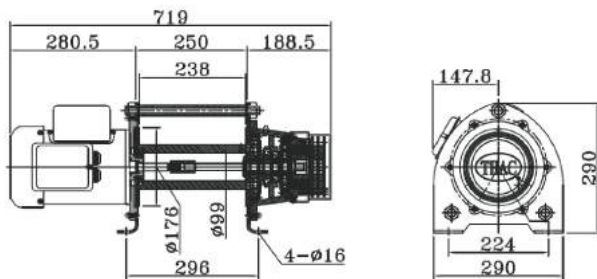
220V 1 phase, 60Hz

- Compact dimension and light weight device
- In the event of power loss, an electromagnetic spring-applied fail-safe brake, designed for both static and dynamic load is applied
- Enclosed drum flanges prevent rope from becoming trapped between drum and frames
- Tough and ergonomic steel frames and drum construction
- IP65 pendant switch with an emergency stop button
- 24 VAC control for safety operation for TA500a
- Inside the winch is the 2 stage planetary gear trains developing for maximum mechanical efficiency



- EN 14492-1 ( Power Driven Winches), Machinery Directive 2006/42/EC, Electromagnetic Compatibility Directive(EMC) 2004/108/EC and Low Voltage Directive ( LVD ) 2006/95/EC

TA500

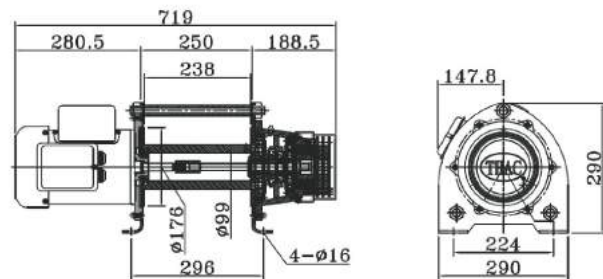


Rope Layer	No.	1	2	3	4
Rated lifting cap.	50 Hz	698	617	552	500
by layer kgf	60 Hz	558	493	442	400
Rope speed	50 Hz	9.8	11.1	12.4	13.7
m/min	60 Hz	11.7	13.3	14.8	16.4
Cumulating rope winding length m		10.7	22.7	36.2	50

Maximum Lifting Capacity : 500 kgf at wire rope top layer for 50Hz motor  
400 kgf at wire rope top layer for 60 Hz motor

Intermittent Rating	: (63% of rated load) - 25% ED
Driven Classification	: ISO-M3, FEM-1Bm
Motor	: 1.5 kw x 4P induction motor, IP 54, B class insulation
Gear Train	: 2 stage planetary gear with a gear ratio of 48:1
Static Braking Torque	: At least 150% of winch ratings
Drum Dimension	: 99 (barrel drum dia.) x 176 (flange dia.) x 238 (width) mm
Control	: Direct control
Wire Rope	: 7 mm x 50 m, galvanized with a minimum breaking strength of 27 kN
Standard Accessories	: Wire rope w/a 360 degree swivel weight hook, pendant switch, 3 m switch cord and 3 m power cord
Mounting Bolts Pattern	: 224 x 296 mm
Winch Weight	: 39 kg
Gross weight	: 53 kg (carton)

TA500a(24 VAC Control)



Rope Layer	No.	1	2	3	4
Rated lifting cap.	50 Hz	698	617	552	500
by layer kgf	60 Hz	558	493	442	400
Rope speed	50 Hz	9.8	11.1	12.4	13.7
m/min	60 Hz	11.7	13.3	14.8	16.4
Cumulating rope winding length m		10.7	22.7	36.2	50

Maximum Lifting Capacity : 500 kgf at wire rope top layer for 50Hz motor  
400 kgf at wire rope top layer for 60 Hz motor

Intermittent Rating	: (63% of rated load) - 25% ED
Driven Classification	: ISO-M3, FEM-1Bm
Motor	: 1.5 kw x 4P induction motor, IP 54, B class insulation
Gear Train	: 2 stage planetary gear with a gear ratio of 48:1
Static Braking Torque	: At least 150% of winch ratings
Drum Dimension	: 99 (barrel drum dia.) x 176 (flange dia.) x 238 (width) mm
Control	: 24 VAC control
Wire Rope	: 7 mm x 50 m, galvanized with a minimum breaking strength of 27 kN
Standard Accessories	: Wire rope w/a 360 degree swivel weight hook, 24 VAC master control box, pendant switch, 3 m switch cord and 3 m power cord
Mounting Bolts Pattern	: 224 x 296 mm
Winch Weight	: 39 kg
Gross weight	: 88 kg (wooden case)

## TB300 / TB300a

Lifting Capacity: 300 kgf

380, 400, 415V 3 phase, 50Hz

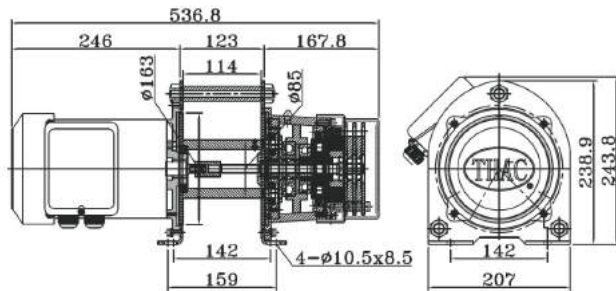
Lifting Capacity: 300 kgf

220, 380, 440V 3 phase, 60Hz

- Compact dimension and light weight device
- In the event of power loss, an electromagnetic spring-applied fail-safe brake, designed for both static and dynamic load is applied
- Enclosed drum flanges prevent rope from becoming trapped between drum and frames
- Tough and ergonomic steel frames and drum construction
- IP65 pendant switch with an emergency stop button
- 24 VAC control for safety operation for TB300a
- Inside the winch is the 2 stage planetary gear trains developing for maximum mechanical efficiency
- EN 14492-1 ( Power Driven Winches), Machinery Directive 2006/42/EC, Electromagnetic Compatibility Directive(EMC) 2004/108/EC and Low Voltage Directive ( LVD ) 2006/95/EC



TB300



Rope Layer	No.	1	2	3	4	5
Rated lifting cap. by layer kgf	50 Hz	458	405	363	328	300
	60 Hz	458	405	363	328	300
Rope speed m/min	50 Hz	8.4	9.5	10.6	11.7	12.8
	60 Hz	10.1	11.4	12.7	14.1	15.4
Cumulating rope winding length m		5.0	10.6	16.8	23.7	30.0

Maximum Lifting Capacity : 300 kgf at wire rope top layer for 50 Hz motor  
300 kgf at wire rope top layer for 60 Hz motor

Power Source : 3 phase, 220V, 380V, 400V, 415V, 440V; 50Hz or 60 Hz

Rating : (63% of rated load) - 25% ED

Driven Classification : ISO-M3, FEM-1Bm

Motor : 1.1 kw x 4P induction motor, IP 54, B class insulation

Gear Train : 2 stage planetary gear with a gear ratio of 48:1

Static Braking Torque : At least 150% of winch ratings

Control : Direct control

Drum Dimension : 85 (barrel drum dia.) x 163 (flange dia.) x 114 (width) mm

Wire Rope : Galvanized 6 mm x 30 m, with a minimum breaking strength of 20 kN

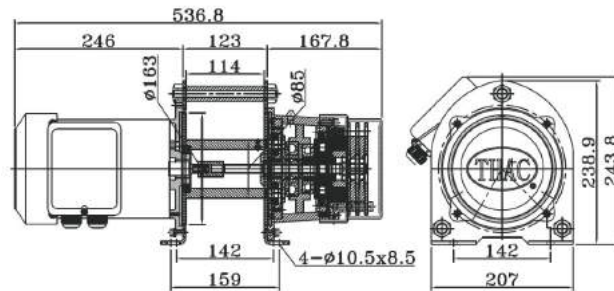
Standard Accessories : Wire rope w/a 360 degree swivel weight hook, pendant switch, 3 m switch cord and 3 m power cord

Mounting Bolts Pattern : 142 x 142~159mm

Winch Weight : 33 kg (carton)

Gross Weight : 42 kg (carton)

TB300a (24 VAC Control)



Rope Layer	No.	1	2	3	4	5
Rated lifting cap. by layer kgf	50 Hz	458	405	363	328	300
	60 Hz	458	405	363	328	300
Rope speed m/min	50 Hz	8.4	9.5	10.6	11.7	12.8
	60 Hz	10.1	11.4	12.7	14.1	15.4
Cumulating rope winding length m		5.0	10.6	16.8	23.7	30.0

Maximum Lifting Capacity : 300 kgf at wire rope top layer for 50 Hz motor  
300 kgf at wire rope top layer for 60 Hz motor

Power Source : 3 phase, 220V, 380V, 400V, 415V, 440V; 50Hz or 60 Hz

Rating : (63% of rated load) - 25% ED

Driven Classification : ISO-M3, FEM-1Bm

Motor : 1.1 kw x 4P induction motor, IP 54, B class insulation

Gear Train : 2 stage planetary gear with a gear ratio of 48:1

Static Braking Torque : At least 150% of winch ratings

Control : 24VAC control

Drum Dimension : 85 (barrel drum dia.) x 163 (flange dia.) x 114 (width) mm

Wire Rope : Galvanized 6 mm x 30 m, with a minimum breaking strength of 20 kN

Standard Accessories : Wire rope w/a 360 degree swivel weight hook, 24 VAC master control box, pendant switch, 3 m switch cord and 3 m power cord

Mounting Bolts Pattern : 142 x 142~159mm

Winch Weight : 33 kg (carton)

Gross Weight : 60 kg (wooden case)

## TB500 / TB500a

Lifting Capacity: 500 kgf

Lifting Capacity: 400 kgf

380, 400, 415V 3 phase, 50Hz

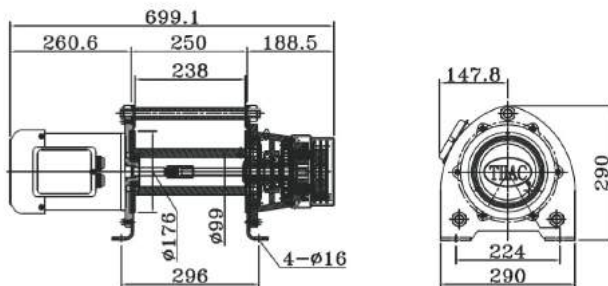
220, 380, 440V 3 phase, 60Hz

- Compact dimension and light weight device
- In the event of power loss, an electromagnetic spring-applied fail-safe brake, designed for both static and dynamic load is applied
- Enclosed drum flanges prevent rope from becoming trapped between drum and frames
- Tough and ergonomic steel frames and drum construction
- IP65 pendant switch with an emergency stop button
- 24 VAC control for safety operation for TB500a
- Inside the winch is the 2 stage planetary gear trains developing for maximum mechanical efficiency



- EN 14492-1 ( Power Driven Winches), Machinery Directive 2006/42/EC, Electromagnetic Compatibility Directive(EMC) 2004/108/EC and Low Voltage Directive ( LVD ) 2006/95/EC

TB500



Rope Layer	No.	1	2	3	4
Rated lifting cap.	50 Hz	698	617	552	500
by layer kgf	60 Hz	558	493	442	400
Rope speed	50 Hz	9.8	11.1	12.4	13.7
m/min	60 Hz	11.7	13.3	14.8	16.4
Cumulating rope winding length m		10.7	22.7	36.2	50

Maximum Lifting Capacity : 500 kgf at wire rope top layer for 50Hz motor  
400 kgf at wire rope top layer for 60 Hz motor

Intermittent Rating : (63% of rated load) - 25% ED

Driven Classification : ISO-M3, FEM-1Bm

Motor : 1.5 kw x 4P Induction motor, IP 54, B class insulation

Gear Train : 2 stage planetary gear with a gear ratio of 48:1

Static Braking Torque : At least 150% of winch ratings

Drum Dimension : 99 (barrel drum dia.) x 176 (flange dia.)  
x 238 (width) mm

Control : Direct control

Wire Rope : 7 mm x 50 m galvanized with a minimum breaking strength of 27 kN

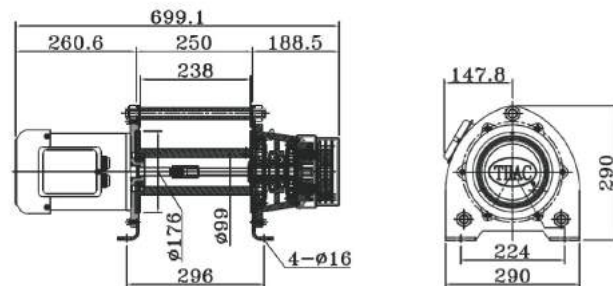
Standard Accessories : Wire rope w/a 360 degree swivel weight hook, pendant switch, 3 m switch cord and 3 m power cord

Mounting Bolts Pattern : 224 x 296 mm

Winch Weight : 37 kg

Gross Weight : 51 kg (carton)

TB500a (24 VAC Control)



Rope Layer	No.	1	2	3	4
Rated lifting cap.	50 Hz	698	617	552	500
by layer kgf	60 Hz	558	493	442	400
Rope speed	50 Hz	9.8	11.1	12.4	13.7
m/min	60 Hz	11.7	13.3	14.8	16.4
Cumulating rope winding length m		10.7	22.7	36.2	50

Maximum Lifting Capacity : 500 kgf at wire rope top layer for 50Hz motor  
400 kgf at wire rope top layer for 60 Hz motor

Intermittent Rating : (63% of rated load) - 25% ED

Driven Classification : ISO-M3, FEM-1Bm

Motor : 1.5 kw x 4P Induction motor, IP 54, B class insulation

Gear Train : 2 stage planetary gear with a gear ratio of 48:1

Static Braking Torque : At least 150% of winch ratings

Drum Dimension : 99 (barrel drum dia.) x 176 (flange dia.)  
x 238 (width) mm

Control : 24 VAC control

Wire Rope : 7 mm x 50 m galvanized with a minimum breaking strength of 27 kN

Standard Accessories : Wire rope w/a 360 degree swivel weight hook, 24 VAC master control box, pendant switch, 3 m switch cord and 3 m power cord

Mounting Bolts Pattern : 224 x 296 mm

Winch Weight : 37 kg

Gross Weight : 86 kg (wooden case)

## TB750a / TB750b

Lifting Capacity: 750 kgf

380, 400, 415V 3 phase, 50Hz

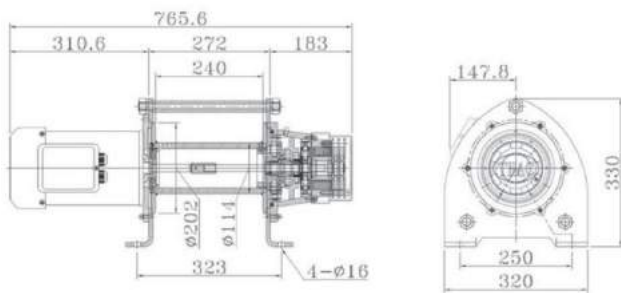
Lifting Capacity: 600 kgf

220, 380, 440V 3 phase, 60Hz

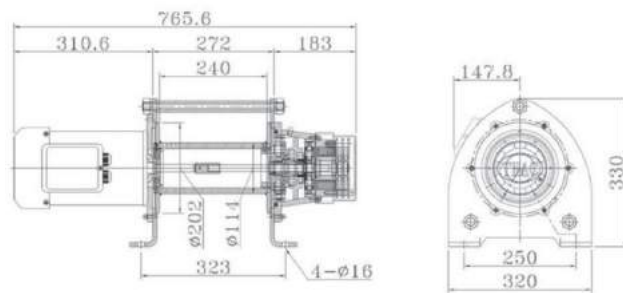
- Compact dimension and light weight
- In the even of power loss, an electromagnetic sprig-applied fail-safe brake, designed for both static and dynamic load is applied
- Inside the winch is the 2 stage planetary gear trains developing for maximum mechanical efficiency
- Enclosed drum flanges prevent rope from becoming trapped between drum and frames
- Tough and ergonomic steel frames and drum construction
- 24 VAC master control box as well as over-load protection design for safety operation
- IP 65 indirect pendant switch with an emergency stop button
- EN 14492-1 ( Power Driven Winches), Machinery Directive 2006/42/EC, Electromagnetic Compatibility Directive(EMC) 2004/108/EC and Low Voltage Directive ( LVD ) 2006/95/EC



TB750a (24 VAC Control)



TB750b (24 VAC Control)



Rope Layer	No.	1	2	3	4
Rated lifting cap.	50 Hz	1,103	887	795	750
by layer kgf	60 Hz	803	710	636	600
Rope speed	50 Hz	11.3	12.7	14.2	15.7
m/min	60 Hz	13.5	15.3	17.1	18.8
Cumulating rope winding length m		11.1	23.7	37.7	50

Rope Layer	No.	1	2	3	4
Rated lifting cap.	50 Hz	1,103	887	795	750
by layer kgf	60 Hz	803	710	636	600
Rope speed	50 Hz	7.5	8.5	9.5	10.5
m/min	60 Hz	9.1	10.3	11.5	12.7
Cumulating rope winding length m		11.1	23.7	37.7	50

Maximum Lifting Capacity : 750 kgf at wire rope top layer for 50 Hz motor  
600 kgf at wire rope top layer for 60 Hz motor

Power Source : 3 phase, 380V, 400V, 415V, 440V; 50 Hz or 60 Hz

Rating : (63% of rated load) - 25% ED

Driven Classification : ISO-M3, FEM-1Bm

Motor : 2.2 kw x 4P induction motor, IP 54, B class insulation

Gear Train : 2 stage planetary gear with a gear ratio of 49:1

Static Braking Torque : At least 150% of winch ratings

Drum Dimension : 114 (barrel drum dia.) x 202 (flange dia.) x 240 (width) mm

Control : 24 VAC control

Wire Rope : 8 mm diameter x 50 meter, galvanized with a minimum breaking strength of 40 kN

Standard Accessories : Wire rope with a safety hook, master control box, pendant switch, 3 m power cord and 3 m switch cord

Mounting Bolts Pattern : 336 x 297 mm

Winch Weight : 47 kg

Gross Weight : 100 kg (wooden case)

Maximum Lifting Capacity : 750 kgf at wire rope top layer for 50 Hz motor  
600 kgf at wire rope top layer for 60 Hz motor

Power Source : 3 phase, 380V, 400V, 415V, 440V; 50 Hz or 60 Hz

Rating : (63% of rated load) - 25% ED

Driven Classification : ISO-M3, FEM-1Bm

Motor : 1.5 kw x 6P induction motor, IP 54, B class insulation

Gear Train : 2 stage planetary gear with a gear ratio of 49:1

Static Braking Torque : At least 150% of winch ratings

Drum Dimension : 114 (barrel drum dia.) x 202 (flange dia.) x 240 (width) mm

Control : 24 VAC control

Wire Rope : 8 mm diameter x 50 meter, galvanized with a minimum breaking strength of 40 kN

Standard Accessories : Wire rope with a safety hook, master control box, pendant switch, 3 m powercord and 3 m switch cord

Mounting Bolts Pattern : 336 x 297 mm

Winch Weight : 47 kg

Gross Weight : 100 kg (wooden case)



## TB1000a / TB1000b

Lifting Capacity: 1,000 kgf

380, 400, 415V 3 phase, 50Hz

Lifting Capacity: 800 kgf

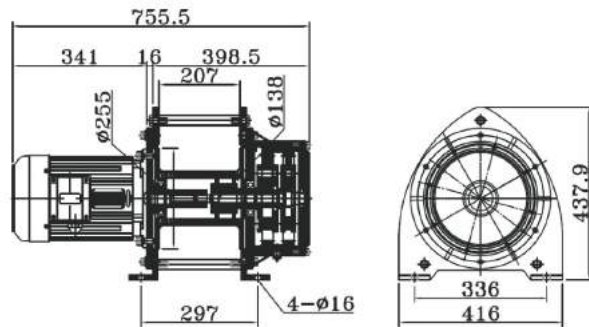
220, 380, 440V 3 phase, 60Hz

- Compact dimension and light weight due to internal brake motor
- In the even of power loss, electromagnetic disc brake incorporated in the motor failsafe brake designed for both static and dynamic load is applied
- Inside the winch is the 2 stage planetary gear trains developing for maximum mechanical efficiency
- Enclosed drum flanges prevent rope from becoming trapped between drum and frames
- Tough and ergonomic steel frames and drum construction
- 24VAC master control box as well as over-load protection design for safety operation
- IP 65 indirect pendant switch with an emergency stop button



- EN 14492-1 ( Power Driven Winches), Machinery Directive 2006/42/EC, Electromagnetic Compatibility Directive(EMC) 2004/108/EC and Low Voltage Directive ( LVD ) 2006/95/EC

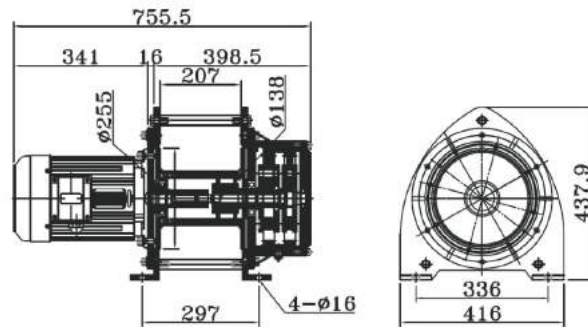
TB1000a (24 VAC Control)



Rope Layer	No.	1	2	3	4	5
Rated lifting cap. by layer kgf	50 Hz	1,430	1,274	1,149	1,046	1,000
	60 Hz	1,144	1,049	919	837	800
Rope speed m/min	50 Hz	13.3	14.9	16.5	18.2	19.8
	60 Hz	15.9	17.9	19.9	21.8	23.8
Cumulating rope winding length m		10.2	21.6	34.2	48.1	60.0

Maximum Lifting Capacity : 1,000 kgf at wire rope top layer for 50 Hz motor  
 Maximum Lifting Height : 800 kgf at wire rope top layer for 60 Hz motor  
 Power Source : 3 phase, 380V, 400V, 415V, 440V; 50 Hz or 60 Hz  
 Rating : (63% of rated load) - 30% ED  
 Driven Classification : ISO-M4, FEM-1Am  
 Motor : 3.7 kw x 4P brake motor, IP 54, F class insulation  
 Gear Train : 2 stage planetary gear with a gear ratio of 49:1  
 Static Braking Torque : At least 150% of winch ratings  
 Drum Dimension : 138 (barrel drum dia.) x 255 (flange dia.)  
 : x 207 (width) mm  
 Control : 24 VAC control  
 Wire Rope : 9 mm diameter x 60 meter, Galvanized with a minimum breaking strength of 55 kN  
 Standard Accessories : Wire rope with a safety hook, master, master control box, pendant switch, 3 m power cord and 3 m switch cord  
 Mounting Bolts Pattern : 336 x 297 mm  
 Winch Weight : 168 kg  
 Gross Weight : 240 kg (wooden case)

TB1000b (24 VAC Control)



Rope Layer	No.	1	2	3	4	5
Rated lifting cap. by layer kgf	50 Hz	1,430	1,274	1,149	1,046	1,000
	60 Hz	1,144	1,049	919	837	800
Rope speed m/min	50 Hz	8.9	9.9	11	12.1	13.2
	60 Hz	10.6	11.9	13.2	14.5	15.8
Cumulating rope winding length m		10.2	21.6	34.2	48.1	60.0

Maximum Lifting Capacity : 1,000 kgf at wire rope top layer for 50 Hz motor  
 Maximum Lifting Height : 800 kgf at wire rope top layer for 60 Hz motor  
 Power Source : 3 phase, 380V, 400V, 415V, 440V; 50 Hz or 60 Hz  
 Rating : (63% of rated load) - 30% ED  
 Driven Classification : ISO-M4, FEM-1Am  
 Motor : 2.2 kw x 6P brke motor, IP 54, F class insulation  
 Gear Train : 2 stage planetary gear with a gear ratio of 49:1  
 Static Braking Torque : At least 150% of winch ratings  
 Drum Dimension : 138 (barrel drum dia.) x 255 (flange dia.) x 207 (width) mm  
 Control : 24 VAC control  
 Wire Rope : 9 mm diameter x 60 meter, Galvanized with a minimum breaking strength of 55 kN  
 Standard Accessories : Wire rope with a safety hook, master control box, pendant switch, 3 m power cord and 3 m switch cord  
 Mounting Bolts Pattern : 336 x 297 mm  
 Winch Weight : 168 kg  
 Gross Weight : 240 kg (wooden case)



## TB2000a / TB2000b

Lifting Capacity: 2,000 kgf

380, 400, 415V 3 phase, 50Hz

Lifting Capacity: 1,600 kgf

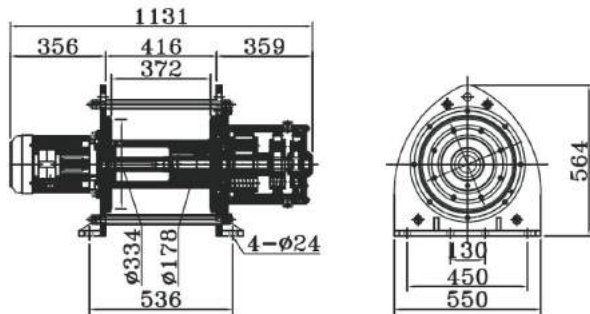
220, 380, 440V 3 phase, 60Hz

- Compact dimension and light weight due to internal brake motor
- In the even of power loss, electromagnetic disc brake incorporated in the motor failsafe brake designed for both static and dynamic load is applied
- Inside the winch is the 3 stage planetary gear trains developing for maximum mechanical efficiency
- Enclosed drum flanges prevent rope from becoming trapped between drum and frames
- Tough and ergonomic steel frames and drum construction
- 24VAC master control box as well as over-load protection design for safety operation
- IP 65 indirect pendant switch with an emergency stop button



- EN 14492-1 ( Power Driven Winches), Machinery Directive 2006/42/EC, Electromagnetic Compatibility Directive(EMC) 2004/108/EC and Low Voltage Directive ( LVD ) 2006/95/EC

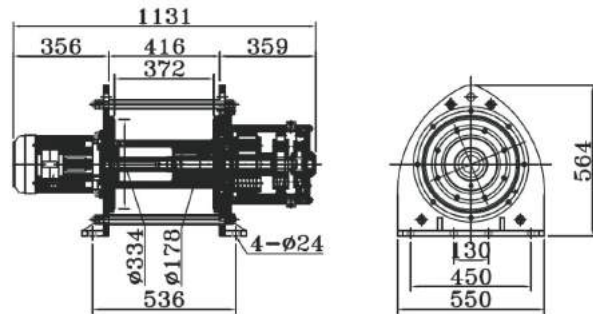
TB2000a (24 VAC Control)



Rope Layer	No.	1	2	3	4	5
Rated lifting cap.	50 Hz	3,011	2,673	2,403	2,183	2,000
by layer kgf	60 Hz	2,408	2,138	1,923	1,747	1,600
Rope speed	50 Hz	6.5	7.3	8.2	9.0	9.8
m/min	60 Hz	7.8	8.8	9.8	10.8	11.8
Cumulating rope winding length m		17.3	36.8	58.5	82.3	100

Maximum Lifting Capacity : 2,000 kgf at wire rope top layer for 50 Hz motor  
 Maximum Lifting Height : 1,600 kgf at wire rope top layer for 60 Hz motor  
 Power Source : 3 phase, 380V, 400V, 415V, 440V; 50 Hz or 60 Hz  
 Rating : (63% of rated load) - 30% ED  
 Driven Classification : ISO-M4, FEM-1Am  
 Motor : 3.7 kw x 4P brake motor, IP 54, F class insulation  
 Gear Train : 3 stage planetary gear with a gear ratio of 129:1  
 Static Braking Torque : At least 150% of winch ratings  
 Drum Dimension : 178 (barrel drum dia.) x 334 (flange dia.)  
 x 372 (width) mm  
 Control : 24 VAC control  
 Wire Rope : 12 mm diameter x 100 meter, galvanized with a minimum breaking strength of 106 kN  
 Standard Accessories : Wire rope with a safety hook, master control box, pendant switch, 3 m power cord and 3 m switch cord  
 Mounting Bolts Pattern : 130 x 536 mm or 450 x 536 mm  
 Winch Weight : 360 kg  
 Gross Weight : 580 kg (wooden case)

TB2000b (24 VAC Control)



Rope Layer	No.	1	2	3	4	5
Rated lifting cap.	50 Hz	3,011	2,673	2,403	2,183	2,000
by layer kgf	60 Hz	2,408	2,138	1,923	1,747	1,600
Rope speed	50 Hz	4.3	4.9	5.4	6.0	6.5
m/min	60 Hz	5.2	5.9	6.5	7.2	7.9
Cumulating rope winding length m		17.3	36.8	58.5	82.3	100

Maximum Lifting Capacity : 2,000 kgf at wire rope top layer for 50 Hz motor  
 Maximum Lifting Height : 1,600 kgf at wire rope top layer for 60 Hz motor  
 Power Source : 3 phase, 380V, 400V, 415V, 440V; 50 Hz or 60 Hz  
 Rating : (63% of rated load) - 30% ED  
 Driven Classification : ISO-M4, FEM-1Am  
 Motor : 2.2 kw x 6P brake motor, IP 54, F class insulation  
 Gear Train : 3 stage planetary gear with a gear ratio of 129:1  
 Static Braking Torque : At least 150% of winch ratings  
 Drum Dimension : 178 (barrel drum dia.) x 334 (flange dia.)  
 x 372 (width) mm  
 Control : 24 VAC control  
 Wire Rope : 12 mm diameter x 100 meter, galvanized with a minimum breaking strength of 106 kN  
 Standard Accessories : Wire rope with a safety hook, master control box, pendant switch, 3 m power cord and 3 m switch cord  
 Mounting Bolts Pattern : 130 x 536 mm or 450 x 536 mm  
 Winch Weight : 360 kg  
 Gross Weight : 580 kg (wooden case)

## TB3000a / TB3000b

Lifting Capacity: 3,000 kgf  
Lifting Capacity: 2,500 kgf

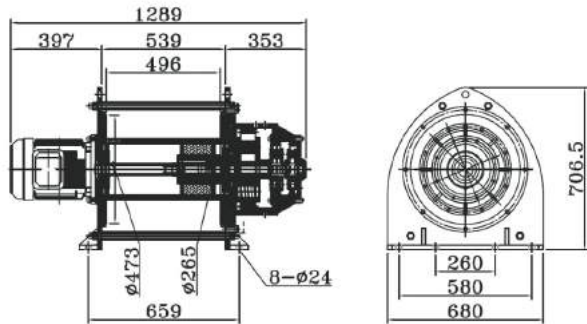
380, 400, 415V 3 phase, 50Hz  
220, 380, 440V 3 phase, 60Hz

- Compact dimension and light weight due to internal brake motor
- In the even of power loss, electromagnetic disc brake incorporated in the motor failsafe brake designed for both static and dynamic load is applied
- Inside the winch is the 3 stage planetary gear trains developing for maximum mechanical efficiency
- Enclosed drum flanges prevent rope from becoming trapped between drum and frames
- Tough and ergonomic steel frames and drum construction
- 24VAC master control box as well as over-load protection design for safety operation
- IP 65 indirect pendant switch with an emergency stop button



• EN 14492-1 ( Power Driven Winches), Machinery Directive 2006/42/EC, Electromagnetic Compatibility Directive(EMC) 2004/108/EC and Low Voltage Directive ( LVD ) 2006/95/EC

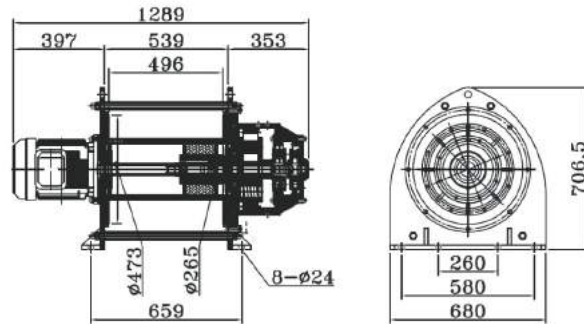
TB3000a (24 VAC Control)



Rope Layer	No.	1	2	3	4	5
Rated lifting cap.	50 Hz	4,192	3,763	3,414	3,124	3,000
by layer kgf	60 Hz	3,493	3,136	2,845	2,604	2,500
Rope speed	50 Hz	6.7	7.5	8.2	9.0	9.7
m/min	60 Hz	8.0	8.9	9.9	10.8	11.7
Cumulating rope winding length m		25.6	54.1	85.5	119.8	150

Maximum Lifting Capacity : 3,000 kgf at wire rope top layer for 50 Hz motor  
Maximum Lifting Height : 2,500 kgf at wire rope top layer for 60 Hz motor  
Power Source : 3 phase, 380V, 400V, 415V, 440V; 50 Hz or 60 Hz  
Rating : (63% of rated load) - 30% ED  
Driven Classification : ISO-M4, FEM-1Am  
Motor : 5.5 kw x 4P brake motor, IP 54, F class insulation  
Gear Train : 3 stage planetary gear with a gear ratio of 186:1  
Static Braking Torque : At least 150% of winch ratings  
Drum Dimension : 265 (barrel drum dia.) x 473 (flange dia.)  
x 496 (width) mm  
Control : 24 VAC control  
Wire Rope : 16 mm diameter x 150 meter, galvanized with a minimum breaking strength of 172 kN  
Standard Accessories : Wire rope with a safety hook, master control box, pendant switch, 3 m power cord and 3 m switch cord  
Mounting Bolts Pattern : 260 x 659 mm or 580 x 659 mm  
Winch Weight : 546 kg  
Gross Weight : 770 kg (wooden case)

TB3000b (24 VAC Control)



Rope Layer	No.	1	2	3	4	5
Rated lifting cap.	50 Hz	4,192	3,763	3,414	3,124	3,000
by layer kgf	60 Hz	3,493	3,136	2,845	2,604	2,500
Rope speed	50 Hz	4.5	5.0	5.5	6.0	6.5
m/min	60 Hz	5.4	6.0	6.6	7.2	7.8
Cumulating rope winding length m		25.6	54.1	85.5	119.8	150

Maximum Lifting Capacity : 3,000 kgf at wire rope top layer for 50 Hz motor  
Maximum Lifting Height : 2,500 kgf at wire rope top layer for 60 Hz motor  
Power Source : 3 phase, 380V, 400V, 415V, 440V; 50 Hz or 60 Hz  
Rating : (63% of rated load) - 30% ED  
Driven Classification : ISO-M4, FEM-1Am  
Motor : 3.7 kw x 6P brake motor, IP 54, F class insulation  
Gear Train : 3 stage planetary gear with a gear ratio of 186:1  
Static Braking Torque : At least 150% of winch ratings  
Drum Dimension : 265 (barrel drum dia.) x 473 (flange dia.)  
x 496 (width) mm  
Control : 24 VAC control  
Wire Rope : 16 mm diameter x 150 meter, galvanized with a minimum breaking strength of 172 kN  
Standard Accessories : Wire rope with a safety hook, master control box, pendant switch, 3 m power cord and 3 m switch cord  
Mounting Bolts Pattern : 260 x 659 mm or 580 x 659 mm  
Winch Weight : 546 kg  
Gross Weight : 770 kg (wooden case)

# TC5000a / TC5000b

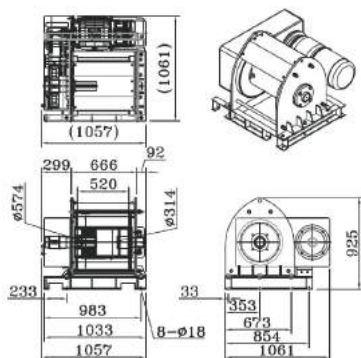
Lifting Capacity: 4,200 kgf

220, 380, 440V 3 phase, 60Hz

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●EN 14492-1 ( Power Driven Winches), Machinery Directive 2006/42/EC, Electromagnetic Compatibility Directive(EMC) 2004/108/EC and Low Voltage Directive ( LVD ) 2006/95/EC

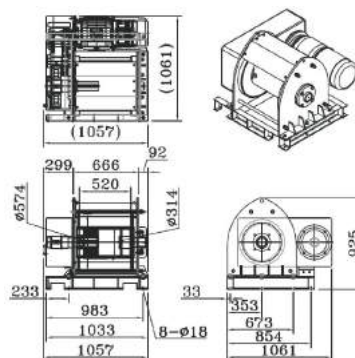
TC5000a (24 VAC Control)



Rope Layer	No.	1	2	3	4	5
Rated lifting cap. by layer kgf	50 Hz	7,395	6,604	5,966	5,441	5,000
	60 Hz	5,963	5,326	4,811	4,387	4,200
Rope speed m/min	50 Hz	11.0	12.4	13.7	15.0	16.3
	60 Hz	13.2	14.8	16.4	18.0	19.6
Cumulating rope winding length m		26.2	55.6	88.1	123.7	150.0

Maximum Lifting Capacity	: 5,000 kgf at wire rope top layer for 50 Hz motor
Maximum Lifting Height	: 4,200 kgf at wire rope top layer for 60 Hz motor
Power Source	: 3 phase, 380V, 400V, 415V, 440V; 50 Hz or 60 Hz
Rating	: (63% of rated load) - 40% ED
Driven Classification	: ISO-M5, FEM-2M
Motor	: 15 kw x 4P induction motor, IP 54, F class insulation
Control	: 24 VAC control
GearTrain	: Helical gear with a gear ratio of 134:1
Static Braking Torque	: At least 150% of winch ratings
Drum Dimension	: 314(barrel drum dia.) x 574 (flange dia.) x 520 (width) mm
Wire Rope	: 20 mm diameter x 150 meter, galvanized with a minimum breaking strength of 270 kN
Standard Accessories	: Wire rope with a safety hook, master control box, pendant switch, 3 m power cord and 3 m switch cord
Mounting Bolts Pattern	: 821 x 750 mm or 320 x 320 x750 mm
Winch Weight	: 1,160 kg
Gross Weight	: 1,600 kg (wooden case)

TC5000b (24 VAC Control)



Rope Layer	No.	1	2	3	4	5
Rated lifting cap. by layer kgf	50 Hz	7,395	6,604	5,966	5,441	5,000
	60 Hz	5,963	5,326	4,811	4,387	4,200
Rope speed m/min	50 Hz	7.4	8.2	9.1	10.0	10.9
	60 Hz	8.8	9.9	10.9	12.0	13.1
Cumulating rope winding length m		26.2	55.6	88.1	123.7	150.0

Maximum Lifting Capacity	: 5,000 kgf at wire rope top layer for 50 Hz motor
Maximum Lifting Height	: 4,200 kgf at wire rope top layer for 60 Hz motor
Power Source	: 3 phase, 380V, 400V, 415V, 440V; 50 Hz or 60 Hz
Rating	: (63% of rated load) - 40% ED
Driven Classification	: ISO-M5, FEM-2M
Motor	: 11 kw x 6P induction motor, IP 54,F class insulation
Control	: 24 VAC control
GearTrain	: Helical gear with a gear ratio of 134:1
Static Braking Torque	: At least 150% of winch ratings
Drum Dimension	: 314(barrel drum dia.) x 574 (flange dia.) x 520 (width) mm
Wire Rope	: 20 mm diameter x 150 meter, galvanized with a minimum breaking strength of 270 kN
Standard Accessories	: Wire rope with a safety hook, master control box, pendant switch, 3 m power cord and 3 m switch cord
Mounting Bolts Pattern	: 821 x 750 mm or 320 x 320 x750 mm
Winch Weight	: 1,160 kg
Gross Weight	: 1,600 kg (wooden case)

# TC7500a / TC7500b

Lifting Capacity: 7,500 kgf

380, 400, 415V 3 phase, 50Hz

Lifting Capacity: 6,500 kgf

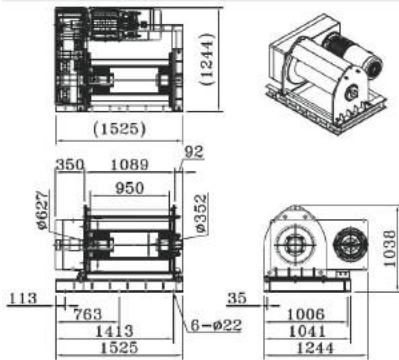
220, 380, 440V 3 phase, 60Hz

- In the even of power loss, electromagnetic disc brake designed for both static and dynamic load is applied
- Inside the winch is the 3 stage helical gear trains developing for maximum mechanical efficiency
- Enclosed drum flanges prevent rope from becoming trapped between drum and frames
- Tough and ergonomic steel frames and drum construction
- 24VAC master control box as well as over-load protection design for safety operation
- IP 65 indirect pendant switch with an emergency stop button



- EN 14492-1 ( Power Driven Winches), Machinery Directive 2006/42/EC, Electromagnetic Compatibility Directive(EMC) 2004/108/EC and Low Voltage Directive ( LVD ) 2006/95/EC

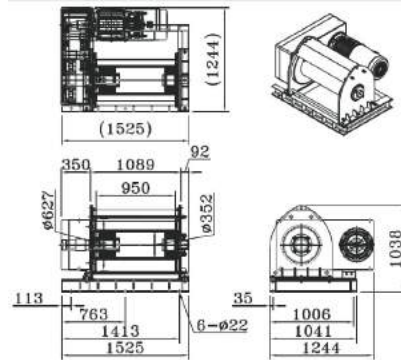
## TC7500a (24 VAC Control)



Rope Layer	No.	1	2	3	4
Rated lifting cap.	50 Hz	10,165	8,886	7,955	7,500
by layer kgf	60 Hz	8,723	7,701	6,894	6,500
Rope speed	50 Hz	7.4	8.4	9.4	10.4
m/min	60 Hz	8.9	10.1	11.3	12.5
Cumulating rope winding length m		43.8	93.4	148.8	200

Maximum Lifting Capacity : 7,500 kgf at wire rope top layer for 50 Hz moor  
 Maximum Lifting Height : 6,500 kgf at wire rope top layer for 60 Hz motor  
 Power Source : 3 phase, 380V, 400V, 415V, 440V; 50 Hz or 60 Hz  
 Rating : (63% of rated load) - 40% ED  
 Driven Classification : ISO-M5, FEM-2M  
 Motor : 15 kw x 6P induction motor, IP 54, F class insulation  
 Control : 24 VAC control  
 GearTrain : Helical gear with gear ratio of 150:1  
 Static Braking Torque : At least 150% of winch ratings  
 Drum Dimension : 352 (barrel drum dia.) x 627 (flange dia.)  
 x 950 (width) mm  
 Wire Rope : 25 mm diameter x 200 meter, galvanized with a minimum breaking strength of 423 kN  
 Standard Accessories : Wire rope with a safety hook, master control box, pendant switch, 3 m power cord and 3 m switch cord  
 Mounting Bolts Pattern : 971 x 1,300 mm or 971 x 650 x 650 mm each  
 Winch Weight : 1,510 kg  
 Gross Weight : 2,160 kg (wooden case)

## TC7500b (24 VAC Control)



Rope Layer	No.	1	2	3	4
Rated lifting cap.	50 Hz	10,165	8,886	7,955	7,500
by layer kgf	60 Hz	8,723	7,701	6,894	6,500
Rope speed	50 Hz	5.5	6.3	7.0	7.8
m/min	60 Hz	6.6	7.5	8.4	9.3
Cumulating rope winding length m		43.8	93.4	148.8	200

Maximum Lifting Capacity : 7,500 kgf at wire rope top layer for 50 Hz moor  
 Maximum Lifting Height : 6,500 kgf at wire rope top layer for 60 Hz motor  
 Power Source : 3 phase, 380V, 400V, 415V, 440V; 50 Hz or 60 Hz  
 Rating : (63% of rated load) - 40% ED  
 Driven Classification : ISO-M5, FEM-2M  
 Motor : 11 kw x 8P induction motor, IP 54, F class insulation  
 Control : 24 VAC control  
 GearTrain : Helical gear with gear ratio of 150:1  
 Static Braking Torque : At least 150% of winch ratings  
 Drum Dimension : 352 (barrel drum dia.) x 627 (flange dia.)  
 x 950 (width) mm  
 Wire Rope : 25 mm diameter x 200 meter, galvanized with a minimum breaking strength of 423 kN  
 Standard Accessories : Wire rope with a safety hook, master control box, pendant switch, 3 m power cord and 3 m switch cord  
 Mounting Bolts Pattern : 971 x 1,300 mm or 971 x 650 x 650 mm each  
 Winch Weight : 1,510 kg  
 Gross Weight : 2,160 kg (wooden case)



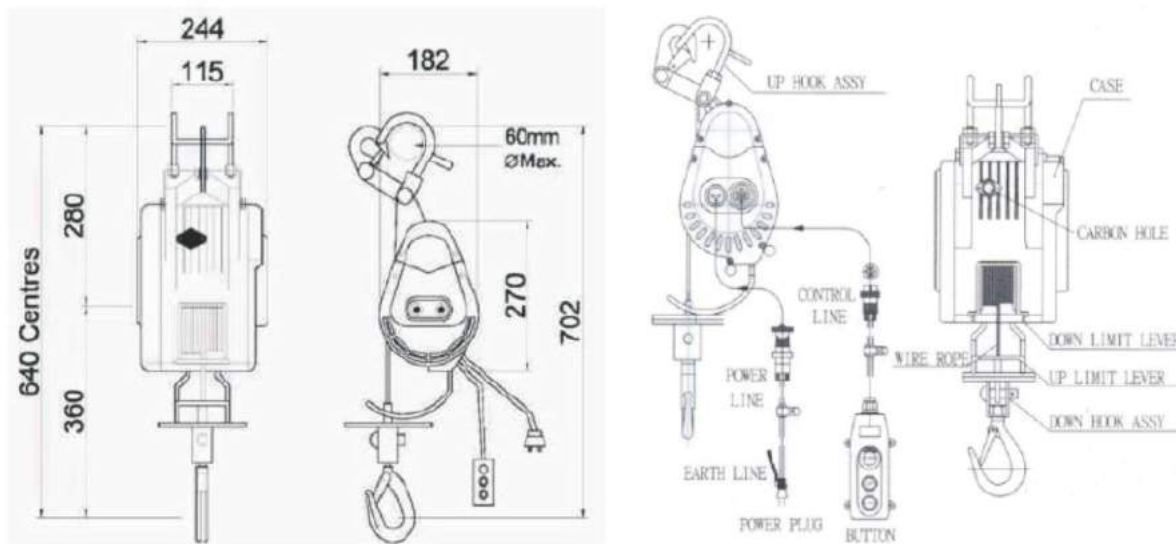
## SWL-170 / SWL-240

### Electric Mini Winch

100-110V, 220-240V, 1 phase

Lifting capacity: 170 - 240kg

- Lightweight and compact design allow easy mounting
- Up/down Limit sensors
- Reverse winding protective arm
- Anti-corrosion aluminum housing
- Oil bath lubrication
- 360° swiveling hook
- 7 meters power cord with fast-plug
- 7 meters control cord with IP54 push button
- EMS stop push button



MODEL	SWL-170	SWL-240
LIFT CAPACITY	170kg	240kg
LIFT SPEED	14~22m/min	9~14m/min
MOTOR POWER	100~110V=1.3kw x 13Amp 200~240V=1.3kw x 6.5Amp	
POWER SOURCE	100-110V, 220-240V, 50/60Hz, 1Phase	
LIFT HEIGHT	29M	
WIRE ROPE	Ø4.8mmX30M	
PACKAGE, (LxDxH)	428x365x300mm	
GROSS WEIGHT	25kg	26kg

## Custom Made Winch

THAC concept is based on what our customers want: the best quality, proven designs, short delivery time, low maintenance and after-sales service.

- **The best price-quality ratio**

We offer our customers well-proven and thoroughly tested design and technology, competitively priced and innovative custom made winch by listening carefully to client specific requirements and feedback.

- **Short delivery time and independent advice**

To reduce delivery times substantially, we build a wide variety of standard gear train and drum configurations on our own account and keep them in stock. However, the various options can be configured so they are tailor-made to suit customer demands. We can deliver our winches with this wide variety of options and we are able to give independent advice.

- **Innovation**

THAC thinks innovation is the key to success and to stay at the top. The research and development (R&D) teams at THAC are continuously improving our winches, making them more effective in their operations, more cost-efficient and more environmentally friendly. We not only create new designs, but also keep improving our existing products and parts by listening closely to our customers and by taking current technological trends into account.



### Different Drum Configurations

- 1. **Winch with Plain drum**

This is the most commonly used configuration. The rope is anchored at the drum and travels the barrel.

- 2. **Winch with Extended drum (fig1)**

The winch with extended drum to suit a wide variety of application

- 3. **Winch with Grooved drum (fig 2)**

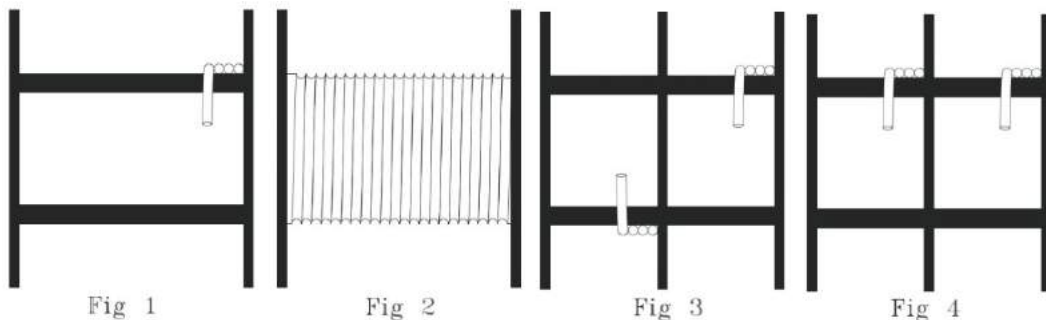
Parallel grooving evenly distributes the load between and show to increases the life of the wire rope. Reduction of rope damage benefits the safety operation.

- 4. **Winch with two ropes in opposite winding (fig 3)**

It can be used as a traversing winch to move a carriage forwards and backwards in two direction on a level. The drum is grooved for one rope, with a second rope fastening attachment on the drum.

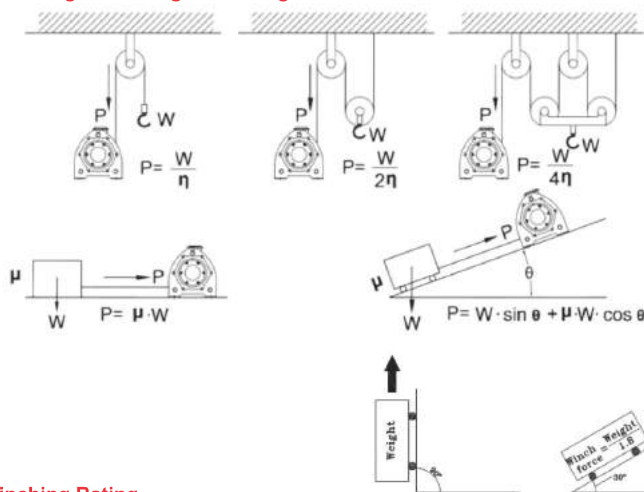
- 5. **Winch with several ropes (fig 4)**

The winch is grooved for two or several ropes with additional wire rope fastening attachment. Rope pays in and out together.



# Winch Principles

## Winching vs Pulling vs Rolling



Pulling application:  $P = \mu \times W$

Rolling application:  $P = \mu \times W + \theta \times W$

The rolling force is calculated from the mass of the load to be load multiplied by the surface friction factor and gradient resistance. The rolling resistance is around 0.15 for rubber wheels on the concrete surface and around 0.01 for a cart with steel wheels on the steel tracks.

$P$  = Rope Tension,  $W$  = Load,  $\eta$  = Sheave Efficiency  
 $\mu$  = Friction Factor,  $\theta$  = Angle

## Example of rolling forces



## Winching Rating

As a general guide, increasing the drum core diameter will increase line speed with a proportionately equal decrease in line pull. The first layer of wire rope on the drum delivers the slowest speed and the maximum line pull, but a full drum delivers the maximum speed and minimum line pull

## Fleet Angle

In order to promote proper spooling of the wire rope it is recommended a fleet angle 1.5° for smooth drums and 2° for grooved drums to be maintained. Exceeding these recommendations may cause poor spooling from rope piling up, and possible damage to the wire rope through crushing and abrasion.

Experience shows the correct distance between the centers of winch drum and sheave for are the equivalents of approximately 19 times drum width in meter for 1.5° and 15 times drum width for 2° fleet angle

## D/d ratio and rope working

The drum is generously dimensioned to obtain a minimum D/d ratio ( first layer pitch diameter/rope diameter) of 15:1 with a rope safety factor of 5 times for lifting and lowering applications. For any hauling of pulling applications, it requires a minimum D/d ratio of 12:1 and 3 times of rope safety factor

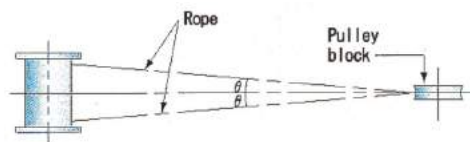
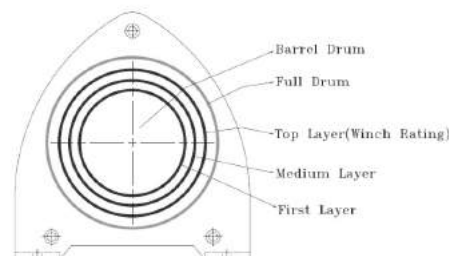
Wire rope fatigue and times irregular wear caused by using a smaller than recommended D/d ratio. For this reason "THAC" winch conform to EN 14492-1 standards which recommends a minimum of 15:1 (D/d) ratio for lifting and lowering applications

## Freeboard

The lifting capacity is rated at the top layer of wire rope, which corresponds to the full drum rope capacity less 1.5 layers at the top of drum flange.

Freeboard is the amount of space from the top layer of the wire rope to the outside of the drum flange.

"THAC" follows EN 14492-1 which recommend a minimum of 1.5 times wire rope diameter of freeboard be maintained.



$\theta = 1.5^\circ$  on smooth drum

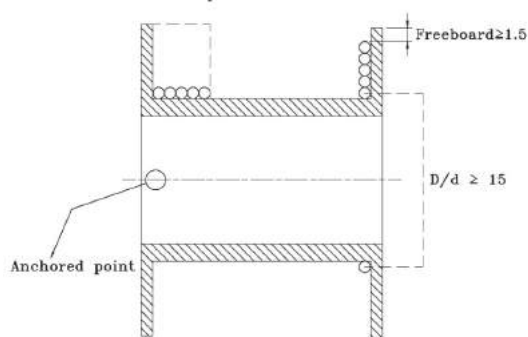
$\theta = 2.0^\circ$  on grooved drum

Correct distance between the centers of winch drum and sheave

When  $\theta = 1.5$  approximately 19 times drum width in meter

$\theta = 2.0$  approximately 15 times drum width in meter

at least 5 wraps



## Warning:

- A minimum of five (5) wraps of wire rope around the drum is necessary to support the rated load.
- The winch is not to be used to lift, support or otherwise transport personnel
- For lifting or lowering application, it is absolutely necessary for the user to install an Up and Down limits devices to meet CE Safety Machinery Standard.
- Technical features may change with on previous notice from the manufacturer

## Warranty:

- Each new winch is guaranteed again defects in workmanship and material defects for a period of twelve (12) months from date of purchase
- Wire rope are not included under warranty



# Winch Selection

The winch is designed to lift or pull with the top layer of wire rope on the drum and includes tensile strength of the wire rope .

Power Source: Comply with your local power source such as frequency, phase and voltage

Winch ratings: Indicating the weight capacity the winch is designed to lift or pull

Line Speed: Refers to the speed at which the rope is retrieved to the drum

Control: Direct control, 24 VAC control, frequency converter control or others

Rope Length: Determining the length of wire rope

Duty cycle: Indicates how long the motor may be operated under continuous load or usage.

Model	Power Phase	Lifting Cap. kgf		Wire Rope mm x m		Driven Group		Motor kw x p	Speed m/min		Standard Accessories					
		50Hz	60Hz	Dia	Length	FEN	ISO		50Hz	60Hz	A	B	C	D	E	F
TA300	1	300	300	6	30	1Bm	M3	1.1 x 4	8.4-12.8	10.1-15.4	●				●	●
TA300a	1	300	300	6	30	1Bm	M3	1.1 x 4	8.4-12.8	10.1-15.4			●	●	●	●
TA500	1	500	400	7	50	1Bm	M3	1.5 x 4	9.8-13.7	11.7-16.4	●				●	●
TA500a	1	500	400	7	50	1Bm	M3	1.5 x 4	9.8-13.7	11.7-16.4			●	●	●	●
TB300	3	300	300	6	30	1Bm	M3	1.1 x 4	8.4-12.8	10.1-15.4	●				●	●
TB300a	3	300	300	6	30	1Bm	M3	1.1 x 4	8.4-12.8	10.1-15.4			●	●	●	●
TB500	3	500	400	7	50	1Bm	M3	1.5 x 4	9.8-13.7	11.7-16.4	●				●	●
TB500a	3	500	400	7	50	1Bm	M3	1.5 x 4	9.8-13.7	11.7-16.4			●	●	●	●
TB750a	3	750	600	8	50	1Bm	M3	2.2 x 4	11.3-15.7	13.5-18.8			●	●		●
TB750b	3	750	600	8	50	1Bm	M3	1.5 x 6	7.5-10.5	9.1-12.7			●	●		●
TB1000a	3	1,000	800	9	60	1Am	M4	3.7 x 4	13.3-19.8	15.9-23.8			●	●		●
TB1000b	3	1,000	800	9	60	1Am	M4	2.2 x 6	8.9-13.2	10.6-15.8			●	●		●
TB2000a	3	2,000	1,600	12	100	1Am	M4	3.7 x 4	6.5-9.8	7.8-11.8			●	●		●
TB2000b	3	2,000	1,600	12	100	1Am	M4	2.2 x 6	4.3-6.5	5.2-7.9			●	●		●
TB3000a	3	3,000	2,500	16	150	1Am	M4	5.5 x 4	6.7-9.7	8.0-11.7			●	●		●
TB3000b	3	3,000	2,500	16	150	1Am	M4	3.7 x 6	4.5-6.5	5.4-7.8			●	●		●
TC5000a	3	5,000	4,200	20	150	2M	M5	15 x 11	11.0-16.3	13.2-19.6			●	●		●
TC5000b	3	5,000	4,200	20	150	2M	M5	11 x 6	7.4-10.9	8.8-13.1			●	●		●
TC7500a	3	7,500	6,500	25	200	2M	M5	15 x 6	7.4-10.4	8.9-12.5			●	●		●
TC7500b	3	7,500	6,500	25	200	2M	M5	11 x 8	5.5-7.8	6.6-9.3			●	●		●
SWL170	1	170	170	5	31	1Bm	M3	1.3	14.0-22.0	14.0-22.0		●				●
SWL240	1	240	240	5	25	1Bm	M3	1.3	9.0-14.0	9.0-14.0		●				●

A: Direct pendant switch w/ an emergency stop button (Fig 1)

B: Direct pendant switch (Fig 2)

C: 24VAC master control box (Fig 3)

D: Indirect pendant switch w/ an emergency stop button (Fig 4)

E: Weight hook (Fig 5)

F: Wire rope



(Fig 1)



(Fig 2)



(Fig 3)



(Fig 4)



(Fig 5)

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