

1. Introduction

Dear client,

Thank you for having made your choice, you have chosen a professional hoisting product which has been developed, produced and tested with the greatest of care.

However, it is our duty to draw your attention to the fact that firstly, it is essential to read these instructions for use carefully and then to execute them before the product is actually put to use.

Furthermore, we wish to refer you to our website: www.gebuwin.com from which various accessories for this winch can be purchased e.g. complete cable sets and special drive lubricating grease.

In addition, this website provides download information on the following:

- service information
- user's manual
- GEBUWIN winch dealers

2. Safety Precautions



The winches, WW types, are hand-driven cable winches, to be attached to walls or constructions. The winches are only to be used for the lifting of goods. **Transport (lifting) of persons as well as their being located under a moving load is not permissible.**

The winches are not suitable for:

- mechanized drive
- continuous use
- use in an area in which aggressive and/or explosive substances are used.

Technical alterations and/or the attachment of marginal devices to the winches are permitted only with the manufacturer's written consent.

Servicing, mounting, possible repairs and the winch maintenance are permitted only by specialized persons who:

- have been appointed and authorized
- have been trained
- are familiar with the correct regulations
- always use original parts for repairs

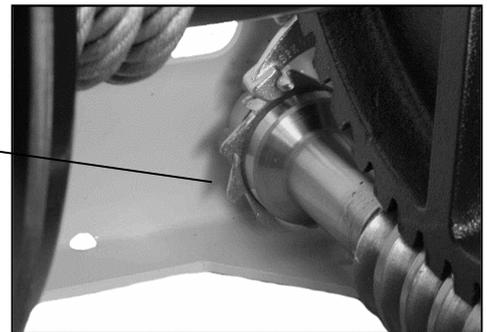
2.1. Winch

The winch is equipped with a load pressure brake which holds the load at any required height and ensures that it undergoes controlled lowering.



The load pressure brake must not be greased or oiled. This destroys the brake function!

No grease or oil.



The stipulated hoisting capacity calculated on the first cable layer, stated on the type identity sticker must not be exceeded.

The winch must at least be mounted with the required mounting materials from chart 1.

Never touch moving parts during use!

Always run the following check before use:

- brake function
- quality of the cable and hoisting parts
- carrier construction

The winch must be tested by a professional at least once a year.

2.2. Load

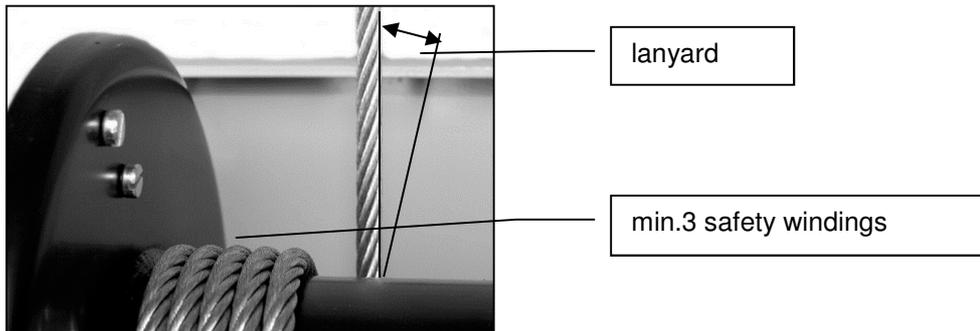
Pay attention to the following with respect to the load:

- never leave the load unattended whilst elevated
- do not allow the load to sway
- never allow the load to fall abruptly from the cable
- ensure that the hoisting height remains in clear view

2.3. Cable and hoisting material(s)

Pay attention to the following with respect to the cable and hoisting material(s):

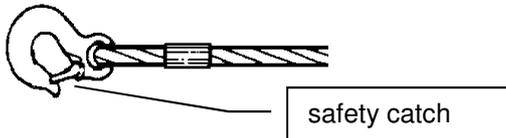
- only use DIN 15020 certified cables with the minimum required breaking force from chart 1.
- cables and load hook must be regularly checked and maintained according to DIN 15020
- the sideways leverage angle, the lanyard, must not exceed 3 degrees



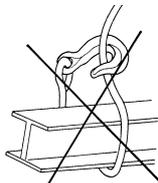
- **there must be a minimum 3 safety windings on the first layer of the drum when loaded**
- the top of the last cable layer must have 1 1/2 x the cable diameter clearance between the outer edge of the drum flange



- the cable must be prestressed when being wrapped around the drum
- **never reach into the cable assembly**
- only grasp hold of the cable when wearing safety gloves
- adhere to the correct cable capacity
- loading hooks must be fitted with safety catches



- according to the regulations loading hooks must be mounted to the cable with a thimble and a talurit clamp
- the load must be mounted correctly



3. Technical details

The type designation is as follows:

WW = range of GEBUWIN worm geared winches for hoisting load 250, 500, 1000 or 1500 kg

GR= painted grey colour

EV= zinc-plated

D= 1 cable compartment

2D= 2 cable compartments

GD= grooved cable drum

Chart 1

Type WW250 >> 1500 kg		WW250 ../D WW250 ../GD	WW250 ../2D	WW500 ../D WW500 ../GD	WW500 ../2D	WW1000 ../D WW1000 ../GD	WW1000 ../2D	WW1500 ../D WW1500 ../GD	WW1500 ../2D
		Hoisting load first layer	Kg	250	2x125	500	2x250	1000	2x500
Cable diameter	mm	4	4	6	4	8	6	10	8
Min. breaking force of cable	kN	9	9	17	9	34	17	51	34
Crank force first layer	daN	6	6	10	10	13	13	14	14
Transmission ratio		1:10	1:10	1:12	1:12	1:26	1:26	1:37	1:37
Hoisting height per crank rev.	mm	17	17	20	20	13	13	9	9
Own weight	Kg	13	13,5	16	16,5	29	27,5	28	28,5
Wall fastening, class 8.8 bolts		4xM12	4xM12	4xM12	4xM12	4xM16	4xM16	4xM16	4xM16
Permitted environment temperature		-20°C / +40°C							
Dimensions	mm	Page 26-29							

Type	WW 250 ../D		WW 250 ../2D		WW 500 ../D		WW 500 ../2D		WW 1000../D		WW 1000../2D		WW 1500../D		WW 1500../2D	
	Total meters	Max load	Total meters	Max load x2	Total meters	Max load	Total meters	Max load x2	Total meters	Max load	Total meters	Max load x2	Total meters	Max load	Total meters	Max load x2
Cable layer	m	Kg	m	Kg												
1	3,6	250	1,3	125	4,3	500	2,6	250	4,7	1000	2,7	500	4,2	1500	1,7	750
2	8,0	221	3,2	110	9,7	440	5,9	229	10,9	886	6,4	456	9,9	1299	4,4	666
3	13,2	197	5,4	99	16,1	393	9,7	211	18,1	796	10,9	419	16,8	1146	7,9	599
4	18,7	179	7,7	89	22,8	355	13,6	195	25,6	722	15,2	388	24,0	1025	11,2	544
5	24,9	163	10,5	82	30,6	323	18,1	182	34,4	661	20,4	361	32,6	927	15,4	499
6	31,5	150	13,2	75	38,6	297	22,5	170	43,3	609	25,4	338	41,3	846	19,3	460
7	38,8	139	16,4	69	47,7	275	27,6	160	53,5	565	31,3	317			24,2	427
8	46,4	129	19,6	65	57,1	255	32,6	151	63,8	527	37,0	299			28,7	399
9	54,8	121	23,3	61	67,6	239	38,3	143			43,6	283				
10	63,4	114	26,9	57	78,2	224	43,8	136			49,9	268				
11	73,0	107	31,1	54			50,1	129			57,2	255				
12	82,6	101	35,1	51			56,3	123			64,2	243				
13	93,2	96	39,8	48			63,2	118								
14	104	92	44,2	46			69,9	113								
15							77,4	108								
16							84,6	104								

3.1. Function description

The winches are drum winches with a worm gearing. The load is held at each required height by a built in load pressure brake. The worm shaft and cable drum run on bearings. The housing is made of plate steel and is suitable for mounting on walls, masts and the like. The crank is adjustable in length and removable.

3.2. Mounting instructions

The winch must be mounted with the bolts as set out in chart 1.
To avoid tension build up in the winch housing, pay attention to the following:

- there must be a smooth surface at the mounting bolt position
- the wall or other construction must have sufficient carrying power
- the level of the mounted winch must be checked with a spirit level in order to ensure good cable movement.

All the nuts of the mounting bolts must be evenly fastened and secured.

3.3. Cable mounting

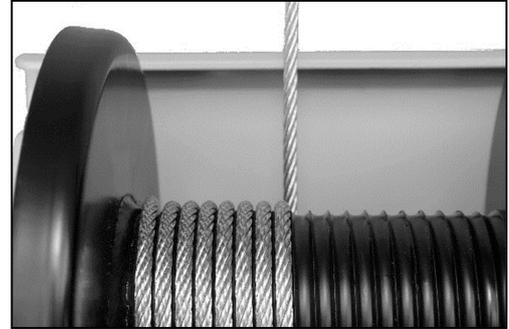
For the choice of cable, chart 1 and 2 must be consulted. The cable must run-off upwards from behind the drum. The cable is allowed to run-off backwards horizontally from underneath the drum with the WW series as well as with some of the models in the VL series.



Be careful!

The brake does not work in the case of an incorrect cable run-off.

The cable length must be of sufficient length to allow for 3 windings to remain on the drum when in the lowest position.

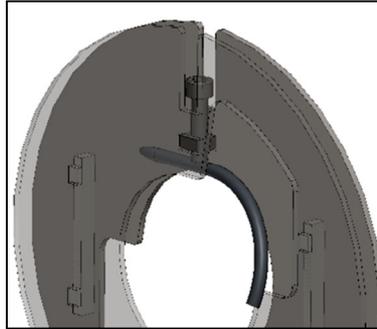


The cable is mounted by means of the fixed cable clamp.

WW250-1500 ../D



WW250-500 ../2D



WW1000-1500 ../2D



3.4. Before use

The winch is fitted with a worm wheel gearing. To ensure a long lifespan we recommend that the winch be run in before use. Allow the winch to make approx. 5 drum rotations whilst loaded with approx. 50% of the nominal load. Remove the protection cover and using a brush, redistribute the grease over the worm wheel and the worm gear. Replace the protection cover. The winch is now ready for use.



Check before each use if the transfer is sufficiently greased. This will prevent "galling" and overheating.



To enable the load pressure brake to function correctly, the winch must carry a minimum load of approx. 5% of the nominal load.

3.5. Operating

The winches are suitable for manual operation only. For the load to be hoisted, turn the crank clockwise. For the load to be lowered, turn the crank anticlockwise.



4. Maintenance



The winch must be unloaded for inspection and maintenance tasks. Inspection and maintenance tasks must be performed by skilled personnel, e.g. via your Gebuwin dealer.

Inspection/ Maintenance interval	Tasks
Before each use	<ul style="list-style-type: none"> - visually check cable and loading hook - check amount of grease* on the worm wheel gearing - check the brake function
Per quarter	<ul style="list-style-type: none"> - visually check cable and loading hook for any fracture - grease the worm - worm wheel gearing - check the load pressure brake for wear and tear <p>Replace the brake discs as needed Be careful: Do not get any grease on the brake discs or preceding surfaces</p>
Annually	<ul style="list-style-type: none"> - check the cable according to DIN 15020 pg. 2 for wear and tear; also test and maintain the minimum breaking force. - check the tightness of the mounting bolts - check all the winch parts for wear and tear; replace where necessary; grease where needed. - check the type identity sticker for clarity

* Texaco "Texclad premium 2" is recommended by us for the worm - worm wheel gearing (or equivalent). Orders can be placed through your Gebuwin dealer or on the website: www.gebuwin.com

5. Troubleshooting

Trouble/Malfunction	Cause	Solution
The unloaded winch rotates heavily	<ul style="list-style-type: none"> - no grease on the gearing - dirt on the gearing - during mounting the winch has pulled askew 	<ul style="list-style-type: none"> - apply grease - clean with a detergent and re-grease - level the mounting surface and re-mount the winch
The load cannot be held	<ul style="list-style-type: none"> - the cable has been incorrectly wound round the drum which means the crank turning direction is incorrect - the brake discs are either worn down or faulty 	<ul style="list-style-type: none"> - wind the cable correctly around the drum - check and/or renew the brake discs
The load pressure brake does not function	<ul style="list-style-type: none"> - braking mechanism and/or discs are jammed due to infrequent use 	<ul style="list-style-type: none"> - loosen the brake by hitting the crank in the correct turning direction with the flat of the hand

6. Service

For servicing and/or servicing parts contact your nearest Gebuwin dealer. The exploded view diagram with regard to the servicing parts is available on the internet website: www.gebuwin.com
Orders for any necessary servicing parts can also be placed on the website.



Use original servicing parts only; correct functioning cannot otherwise be guaranteed!

7. Environment

At the end of the winch's lifespan, the various winch parts must be disposed of according to the current environmental regulations.



8. Guarantee

Gebuwin BV guarantees for a period of 2 years the materials and workmanship of the GEBUWIN hand-driven winches.

9. EC Declaration of Conformity 2006/42 EEC (Appendix II A)

We hereby declare, that the design, construction and commercialised execution of the below mentioned winches complies with the essential health and safety requirements of the EC Machinery Directive. The validity of this declaration will cease in case of any modification or supplement not being agreed with us previously. Furthermore, validity of this declaration will cease in case that the machine will not be operated correctly and in accordance to the operating instructions and/or not be inspected regularly.

Product: Hand Rope Winch
Type: WW250 ../., WW500 ../., WW1000 ../.. WW1500 ../..

Serial no.: from manufacturing year 2016.
Serial numbers for the individual capacities are registered in the CE production book > 6016....

Relevant EC Directives: EC-Machinery Directive 2006/42/EEC
Transposed standards: ISO 12100; EN 13157; DIN 15020

Date: 20-04-2016

Manufacturer: Gebuwin bv
Industrieweg 6
7102 DZ Winterswijk
The Netherlands

Signature:

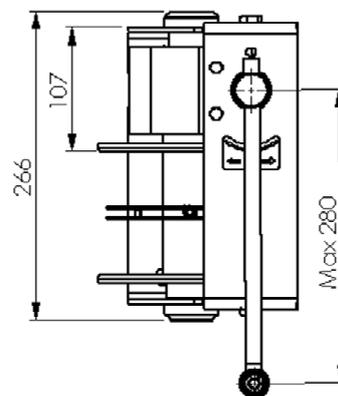
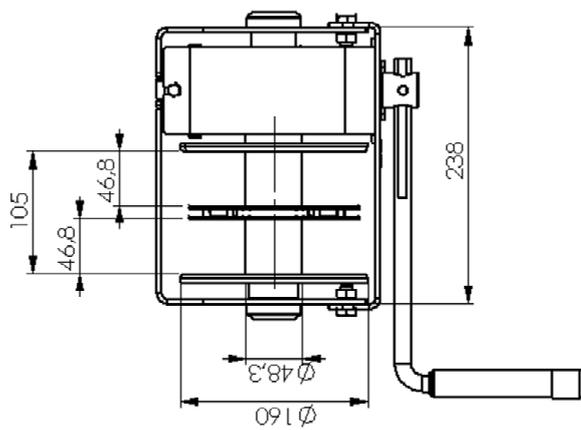
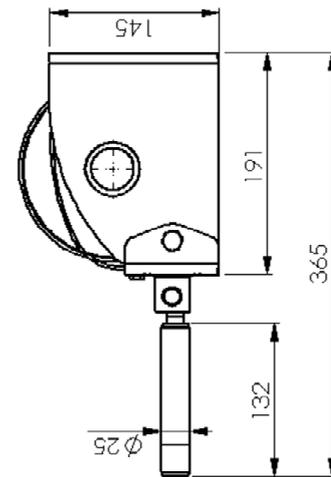
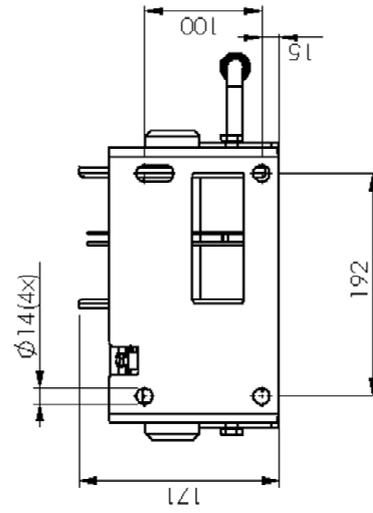
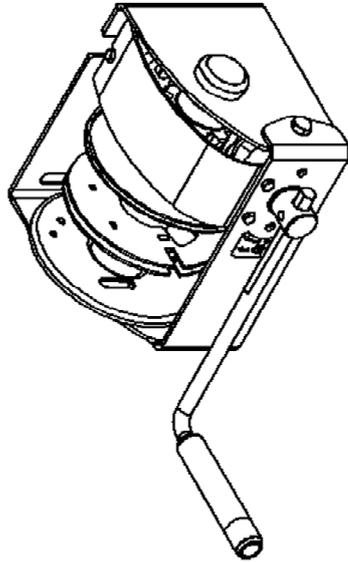


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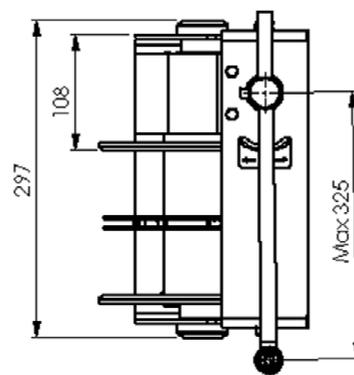
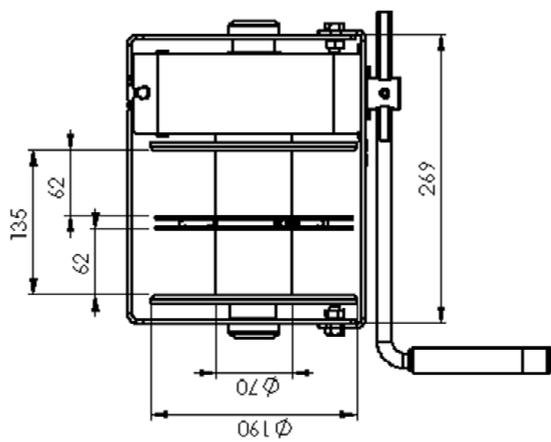
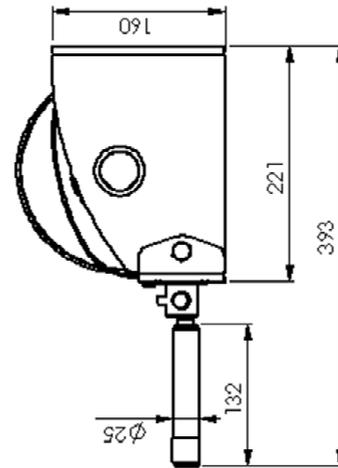
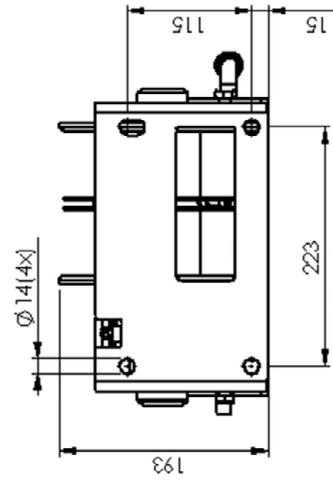
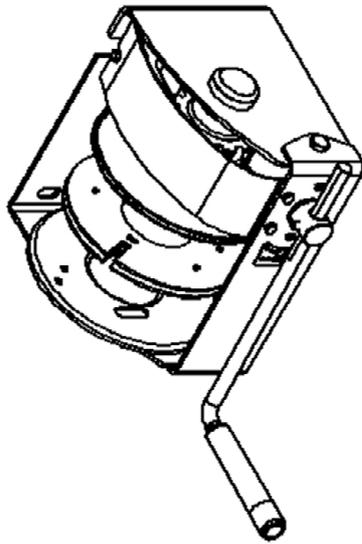
Signatory: Managing Director



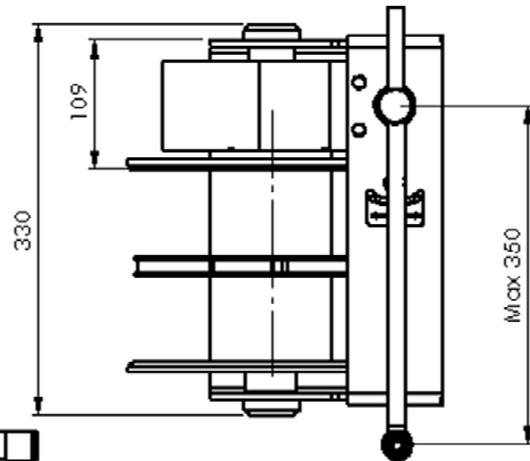
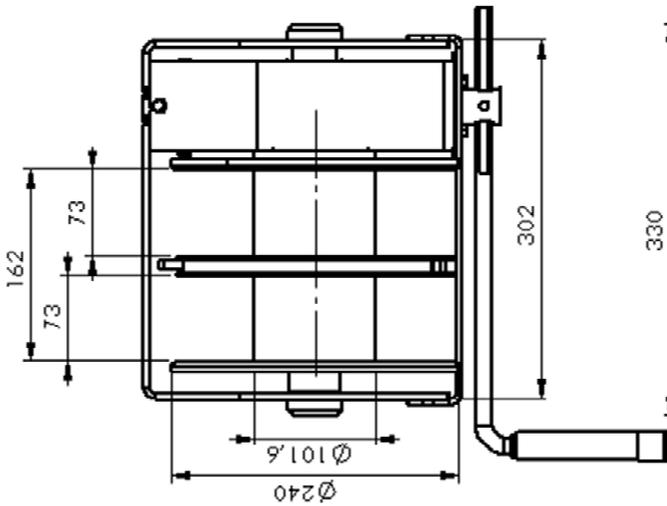
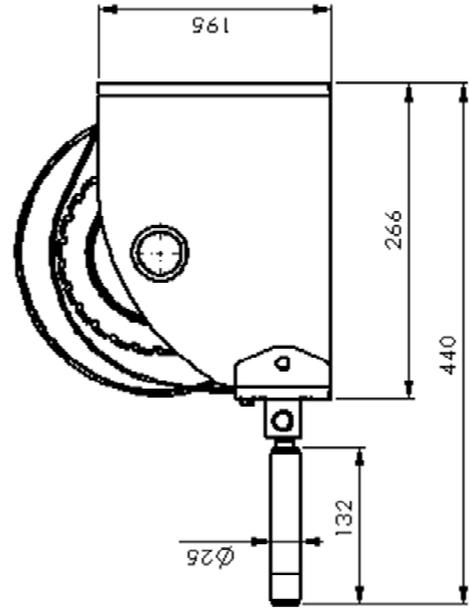
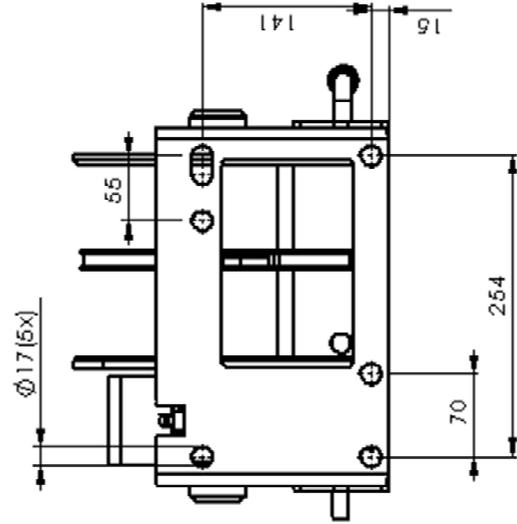
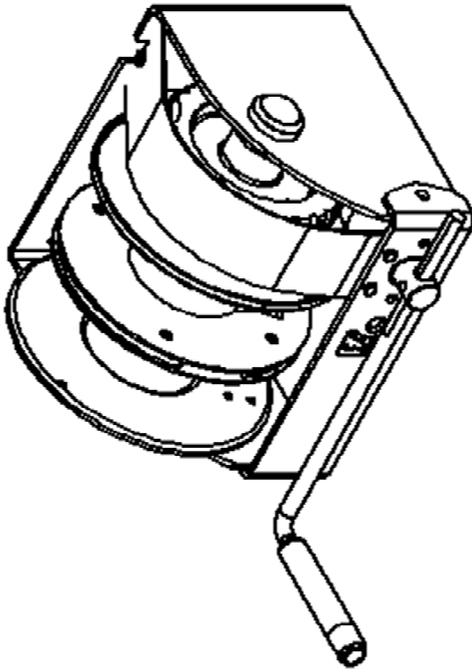
WW250 ../D (2D)



WW500 ../D (2D)



WW1000 ../D (2D)



WW1500 ..D (2D)

