



MRL Application Table

MRL 50% CWT APPLICATIONS ONLY!

Application Table for 2:1 Single Wrap Gearless Machines								
Capacity	Speed							
	150 fpm 0.76 m/s	200 fpm 1.02 m/s	250 fpm 1.27 m/s	300 fpm 1.52 m/s	350 fpm 1.78 m/s	400 fpm 2.03 m/s	450 fpm 2.29 m/s	500 fpm 2.54 m/s
1,000 lbs. / 454 kgs.	GL100 15" or 20" shv 3/8" or 1/2" ropes							
1,500 lbs. / 680 kgs.								
2,000 lbs. / 907 kgs.								
2,500 lbs. / 1,134 kgs.	GL100 15" shv, 3/8" ropes					GL115 20" shv, 1/2" ropes		
3,000 lbs. / 1,361 kgs.						GL130 20" shv, 1/2" ropes		
3,500 lbs. / 1,588 kgs.	GL115 15" shv, 3/8" ropes					GL170 20" shv, 1/2" ropes		
*4,000 lbs. / 1,814 kgs.	GL130 15" shv, 3/8" ropes					GL170 15" shv, 3/8" ropes		
*4,500 lbs. / 2,041 kgs.	GL170 20" shv, 1/2" ropes							
*5,000 lbs. / 2,268 kgs.	GL170 15" shv, 3/8" ropes							

IMPORTANT NOTES AND TABLES:

This table is for estimating purposes only. Contact sales@hwec.com or 217-222-0466 for detailed information.

*Travel up to 200 feet with 2.0 ft/sec² acceleration rates for capacities over 3,500 lbs. Contact sales@hwec.com or 217-222-0466.

Based on 480v power supply or 480v transformer

Chain compensation only, per vendor travel limitations.

Applications are based on duties and associated car weights listed below:

Capacity	Maximum Car Weight
1,000 lbs	4,500 lbs
1,500 lbs	5,000 lbs
2,000 lbs	5,500 LBS
2,500 lbs	6,000 lbs
3,000 lbs	6,000 lbs
3,500 lbs	6,500 lbs

Capacity	Maximum Car Weight
4,000 lbs	7,000 lbs
4,500 lbs	7,500 lbs
5,000 lbs	8,000 lbs

Machine	Sheave	Ropes
GL100	15" or 20"	3/8" or 1/2"
GL115	15" or 20"	3/8" or 1/2"
GL130	15" or 20"	3/8" or 1/2"
GL170	15" or 20"	3/8" or 1/2"



Application Table for 1:1 Gearless Machines: 50% Cwt.

50% CWT APPLICATIONS ONLY!
(SEE ADDITIONAL TABLES FOR 40% AND 45% CWT APPLICATIONS)

Application Table for 1:1 Single Wrap Gearless Machines																						
Capacity	Speed																					
	150 fpm	200 fpm	250 fpm	300 fpm	350 fpm	400 fpm	450 fpm	500 fpm	700 fpm	800 fpm	1000 fpm											
	0.76 m/s	1.02 m/s	1.27 m/s	1.52 m/s	1.78 m/s	2.03 m/s	2.29 m/s	2.54 m/s	3.56 m/s	4.06 m/s	5.08 m/s											
1,000 lbs. / 454 kgs.	GL101 3/8" or 1/2" ropes									GL130A 25" shv												
1,500 lbs. / 680 kgs.	GL131 20" shv, 1/2" ropes**																					
2,000 lbs. / 907 kgs.	GL131 15" shv, 3/8" ropes*		GL171 20" shv, 1/2" ropes**																			
2,500 lbs. / 1,134 kgs.	GL130A 20" shv, 1/2" ropes**									GL185												
3,000 lbs. / 1,361 kgs.	GL185																					
3,500 lbs. / 1,588 kgs.	GL260																					
4,000 lbs. / 1,814 kgs.																						
4,500 lbs. / 2,041 kgs.												GL260 1/2" ropes only										

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Based on 480v power supply or 480v transformer

*Where 3/8" hoist ropes are shown, 1/2" hoist ropes are optional with next larger machine.

**Where 1/2" hoist ropes are shown, 5/8" hoist ropes are optional with next larger machine.

In accordance with current 2013 NEIL-1 standards for acceleration.

Applications are based on duties and associated car weights listed below:

Capacity	Maximum Car Weight
1,000 lbs	3,000 lbs
1,500 lbs	3,500 lbs
2,000 lbs	4,000 LBS
2,500 lbs	4,500 lbs
3,000 lbs	5,000 lbs

Capacity	Maximum Car Weight
3,500 lbs	5,500 lbs
4,000 lbs	6,000 lbs
4,500 lbs	6,500 lbs up to 200 fpm
4,500 lbs	6,000 lbs at 250-350 fpm
4,500 lbs	5,500 lbs at 400-1000 fpm

Machine	Sheave	Ropes
GL101	15" or 20"	3/8" or 1/2"
GL131	15" or 20"	3/8" or 1/2"
GL171	15" or 20"	3/8" or 1/2"
GL130A	20" or 25"	1/2" or 5/8"
GL185	25"	1/2" or 5/8"
GL260	25"	1/2" or 5/8"



Application Table for 1:1 Gearless Machines: 45% Cwt.

45% CWT APPLICATIONS ONLY!
(SEE ADDITIONAL TABLES FOR 40% AND 50% CWT APPLICATIONS)

Application Table for 1:1 Single Wrap Gearless Machines											
Capacity	Speed										
	150 fpm 0.76 m/s	200 fpm 1.02 m/s	250 fpm 1.27 m/s	300 fpm 1.52 m/s	350 fpm 1.78 m/s	400 fpm 2.03 m/s	450 fpm 2.29 m/s	500 fpm 2.54 m/s	700 fpm 3.56 m/s	800 fpm 4.06 m/s	1000 fpm 5.08 m/s
1,000 lbs. / 454 kgs.	GL101 3/8" or 1/2" ropes										GL130A 25" shv
1,500 lbs. / 680 kgs.	GL131 15" shv, 3/8" ropes*			GL171 20" shv, 1/2" ropes**							
2,000 lbs. / 907 kgs.											
2,500 lbs. / 1,134 kgs.	GL130A 20" shv, 1/2" ropes**										GL185
3,000 lbs. / 1,361 kgs.	GL185										
3,500 lbs. / 1,588 kgs.	GL260										
4,000 lbs. / 1,814 kgs.	GL260										

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Based on 480v power supply or 480v transformer

*Where 3/8" hoist ropes are shown, 1/2" hoist ropes are optional with next larger machine.

**Where 1/2" hoist ropes are shown, 5/8" hoist ropes are optional with next larger machine.

In accordance with current 2013 NEIL-1 standards for acceleration.

Applications are based on duties and associated car weights listed below:

Capacity	Maximum Car Weight
1,000 lbs	3,000 lbs
1,500 lbs	3,500 lbs
2,000 lbs	4,000 LBS
2,500 lbs	4,500 lbs
3,000 lbs	5,000 lbs

Capacity	Maximum Car Weight
3,500 lbs	5,500 lbs
4,000 lbs	6,000 lbs

Machine	Sheave	Ropes
GL101	15" or 20"	3/8" or 1/2"
GL131	15" or 20"	3/8" or 1/2"
GL171	15" or 20"	3/8" or 1/2"
GL130A	20" or 25"	1/2" or 5/8"
GL185	25"	1/2" or 5/8"
GL260	25"	1/2" or 5/8"



Application Table for 1:1 Gearless Machines: 40% Cwt.

40% CWT APPLICATIONS ONLY!
(SEE ADDITIONAL TABLES FOR 45% AND 50% CWT APPLICATIONS)

Application Table for 1:1 Single Wrap Gearless Machines											
Capacity	Speed										
	150 fpm 0.76 m/s	200 fpm 1.02 m/s	250 fpm 1.27 m/s	300 fpm 1.52 m/s	350 fpm 1.78 m/s	400 fpm 2.03 m/s	450 fpm 2.29 m/s	500 fpm 2.54 m/s	700 fpm 3.56 m/s	800 fpm 4.06 m/s	1000 fpm 5.08 m/s
1,000 lbs. / 454 kgs.	GL101 15" shv, 3/8" ropes*	GL131 20" shv, 1/2" ropes**									GL130A 25" shv
1,500 lbs. / 680 kgs.	GL131 15" shv, 3/8" ropes*	GL171 20" shv, 1/2" ropes**									
2,000 lbs. / 907 kgs.											
2,500 lbs. / 1,134 kgs.	GL130A 20" shv, 1/2" ropes**									GL185	
3,000 lbs. / 1,361 kgs.	GL185							GL260 See 45% and 50% cwt. tables for GL185			
3,500 lbs. / 1,588 kgs.	GL260										
4,000 lbs. / 1,814 kgs.	GL260										

**IMPORTANT NOTES
AND TABLES:**

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Based on 480v power supply or 480v transformer

*Where 3/8" hoist ropes are shown, 1/2" hoist ropes are optional with next larger machine.

**Where 1/2" hoist ropes are shown, 5/8" hoist ropes are optional with next larger machine.

In accordance with current 2013 NEEL-1 standards for acceleration.

Applications are based on duties and associated car weights listed below:

Capacity	Maximum Car Weight
1,000 lbs	3,000 lbs
1,500 lbs	3,500 lbs
2,000 lbs	4,000 LBS
2,500 lbs	4,500 lbs
3,000 lbs	5,000 lbs

Capacity	Maximum Car Weight
3,500 lbs	5,500 lbs
4,000 lbs	6,000 lbs

Machine	Sheave	Ropes
GL101	15" or 20"	3/8" or 1/2"
GL131	15" or 20"	3/8" or 1/2"
GL171	15" or 20"	3/8" or 1/2"
GL130A	20" or 25"	1/2" or 5/8"
GL185	25"	1/2" or 5/8"
GL260	25"	1/2" or 5/8"



Application Table for 2:1 Gearless Machines: 50% Cwt.

50% CWT APPLICATIONS ONLY!

(SEE ADDITIONAL TABLES FOR 40% AND 45% CWT APPLICATIONS)

Application Table for 2:1 Single Wrap Gearless Machines										
Capacity	Speed									
	150 fpm 0.76 m/s	200 fpm 1.02 m/s	250 fpm 1.27 m/s	300 fpm 1.52 m/s	350 fpm 1.78 m/s	400 fpm 2.03 m/s	450 fpm 2.29 m/s	500 fpm 2.54 m/s	700 fpm 3.56 m/s	800 fpm 4.06 m/s
1,000 lbs. / 454 kgs.	GL101 3/8" or 1/2" ropes								GL131 20" shv, 1/2" ropes**	
1,500 lbs. / 680 kgs.	GL101 3/8" or 1/2" ropes								GL131 20" shv, 1/2" ropes**	
2,000 lbs. / 907 kgs.	GL101 3/8" or 1/2" ropes								GL131 20" shv, 1/2" ropes**	
2,500 lbs. / 1,134 kgs.	GL101 15" shv, 3/8" ropes*					GL131 20" shv, 1/2" ropes**				
3,000 lbs. / 1,361 kgs.	GL101 15" shv, 3/8" ropes*					GL131 20" shv, 1/2" ropes**				
3,500 lbs. / 1,588 kgs.	GL131 15" shv, 3/8" ropes*					GL171 20" shv, 1/2" ropes**				
4,000 lbs. / 1,814 kgs.	GL131 15" shv, 3/8" ropes*					GL171 20" shv, 1/2" ropes**				
4,500 lbs. / 2,041 kgs.	GL171 20" shv, 1/2" ropes**					GL130A 25" shv				
5,000 lbs. / 2,268 kgs.	GL130A 20" shv, 1/2" ropes**					GL185				
6,000 lbs. / 2,722 kgs.	GL185									
8,000 lbs. / 3,629 kgs.	GL260									
9,000 lbs. / 4,082 kgs.	GL260									

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AND TABLES: Based on 480v power supply or 480v transformer

*Where 3/8" hoist ropes are shown, 1/2" hoist ropes are optional with next larger machine.

**Where 1/2" hoist ropes are shown, 5/8" hoist ropes are optional with next larger machine.

In accordance with current 2013 NEEL-1 standards for acceleration.

Applications are based on duties and associated car weights listed below:

Capacity	Maximum Car Weight
1,000 lbs	4,500 lbs
1,500 lbs	5,000 lbs
2,000 lbs	5,500 LBS
2,500 lbs	6,000 lbs
3,000 lbs	6,500 lbs
3,500 lbs	7,000 lbs

Capacity	Maximum Car Weight
4,000 lbs	7,250 lbs
4,500 lbs	7,500 lbs
5,000 lbs	8,000 lbs
6,000 lbs	9,000 lbs
8,000 lbs	11,000 lbs
9,000 lbs	11,000 lbs

Machine	Sheave	Ropes
GL101	15" or 20"	3/8" or 1/2"
GL131	15" or 20"	3/8" or 1/2"
GL171	15" or 20"	3/8" or 1/2"
GL130A	20" or 25"	1/2" or 5/8"
GL185	25"	1/2" or 5/8"
GL260	25"	1/2" or 5/8"



Application Table for 2:1 Gearless Machines: 45% Cwt.

45% CWT APPLICATIONS ONLY!

(SEE ADDITIONAL TABLES FOR 40% AND 50% CWT APPLICATIONS)

Application Table for 2:1 Single Wrap Gearless Machines										
Capacity	Speed									
	150 fpm 0.76 m/s	200 fpm 1.02 m/s	250 fpm 1.27 m/s	300 fpm 1.52 m/s	350 fpm 1.78 m/s	400 fpm 2.03 m/s	450 fpm 2.29 m/s	500 fpm 2.54 m/s	700 fpm 3.56 m/s	800 fpm 4.06 m/s
1,000 lbs. / 454 kgs.	GL101 3/8" or 1/2" ropes								GL131 20" shv, 1/2" ropes**	
1,500 lbs. / 680 kgs.										
2,000 lbs. / 907 kgs.										
2,500 lbs. / 1,134 kgs.	GL101 15" shv, 3/8" ropes*					GL131 20" shv, 1/2" ropes**				
3,000 lbs. / 1,361 kgs.	GL131 15" shv, 3/8" ropes*					GL171				
3,500 lbs. / 1,588 kgs.										
4,000 lbs. / 1,814 kgs.	GL171 20" shv, 1/2" ropes**					GL130A 25" shv		See 50% cwt. table		
4,500 lbs. / 2,041 kgs.										
5,000 lbs. / 2,268 kgs.	GL130A 20" shv, 1/2" ropes**					GL185				
6,000 lbs. / 2,722 kgs.										
8,000 lbs. / 3,629 kgs.	GL260									

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**Where 1/2" hoist ropes are shown, 5/8" hoist ropes are optional with next larger machine.
In accordance with current 2013 NEII-1 standards for acceleration.
Applications are based on duties and associated car weights listed below:

Capacity	Maximum Car Weight
1,000 lbs	4,500 lbs
1,500 lbs	5,000 lbs
2,000 lbs	5,500 LBS
2,500 lbs	6,000 lbs
3,000 lbs	6,500 lbs
3,500 lbs	7,000 lbs

Capacity	Maximum Car Weight
4,000 lbs	7,250 lbs
4,500 lbs	7,500 lbs
5,000 lbs	8,000 lbs
6,000 lbs	9,000 lbs
8,000 lbs	11,000 lbs

Machine	Sheave	Ropes
GL101	15" or 20"	3/8" or 1/2"
GL131	15" or 20"	3/8" or 1/2"
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40% CWT APPLICATIONS ONLY!
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1,000 lbs. / 454 kgs.	GL101 3/8" or 1/2" ropes							GL131 20" shv, 1/2" ropes**		
1,500 lbs. / 680 kgs.	GL101 15" shv, 3/8" ropes*							GL131 20" shv, 1/2" ropes**		
2,000 lbs. / 907 kgs.	GL101 15" shv, 3/8" ropes*							GL171 20" shv, 1/2" ropes**		
2,500 lbs. / 1,134 kgs.	GL131 15" shv, 3/8" ropes*							GL171 20" shv, 1/2" ropes**		
3,000 lbs. / 1,361 kgs.	GL171 15" shv, 3/8" ropes*							GL130A 25" shv		See 50% cwt. table
3,500 lbs. / 1,588 kgs.	GL171 15" shv, 3/8" ropes*							GL130A 25" shv		See 50% cwt. table
4,000 lbs. / 1,814 kgs.	GL171 20" shv, 1/2" ropes**							GL185		
4,500 lbs. / 2,041 kgs.	GL130A 20" shv, 1/2" ropes**							GL185		
5,000 lbs. / 2,268 kgs.	GL185							GL185		
6,000 lbs. / 2,722 kgs.	GL185							GL185		
8,000 lbs. / 3,629 kgs.	GL260							GL260		

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**Where 1/2" hoist ropes are shown, 5/8" hoist ropes are optional with next larger machine.
In accordance with current 2013 NEI-1 standards for acceleration.
Applications are based on duties and associated car weights listed below:

Capacity	Maximum Car Weight
1,000 lbs	4,500 lbs
1,500 lbs	5,000 lbs
2,000 lbs	5,500 LBS
2,500 lbs	6,000 lbs
3,000 lbs	6,500 lbs
3,500 lbs	7,000 lbs

Capacity	Maximum Car Weight
4,000 lbs	7,250 lbs
4,500 lbs	7,500 lbs
5,000 lbs	8,000 lbs
6,000 lbs	9,000 lbs
8,000 lbs	11,000 lbs

Machine	Sheave	Ropes
GL101	15" or 20"	3/8" or 1/2"
GL131	15" or 20"	3/8" or 1/2"
GL171	15" or 20"	3/8" or 1/2"
GL130A	20" or 25"	1/2" or 5/8"
GL185	25"	1/2" or 5/8"
GL260	25"	1/2" or 5/8"