MF *SERIES*

THE FLAT GEARLESS RANGE FOR MR - MRL APPLICATIONS

6 MODELS - HIGHLY CUSTOMIZABLE

MF200 **MF201** **MF300** **MF450** **MF600** **MF800**

STATIC LOAD	*LOAD*	*SPEED*	*ROPING*	*SHEAVE*
2.000 - 8.000 kg	408 - 2.500 kg	1 - 2.5 m/s	1:1 - 2:1	320 - 400 - 450 - 480 - 520 - 550 mm

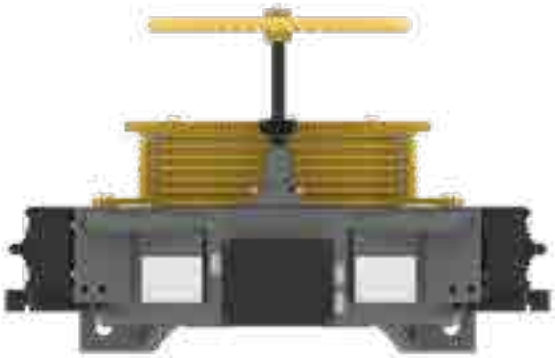
Rev. 08_05_2026

MF

FLAT GEARLESS RANGE

1:1			LOAD										
			KG										
			408	544	630	680	884	1000	1088	1360	1600	2000	2500
SHEAVE DIAMETER	mm	400	MF300										
		450	MF450										
			MF600										
		480	MF450										
			MF600										
		520	MF800										
		550	MF600										

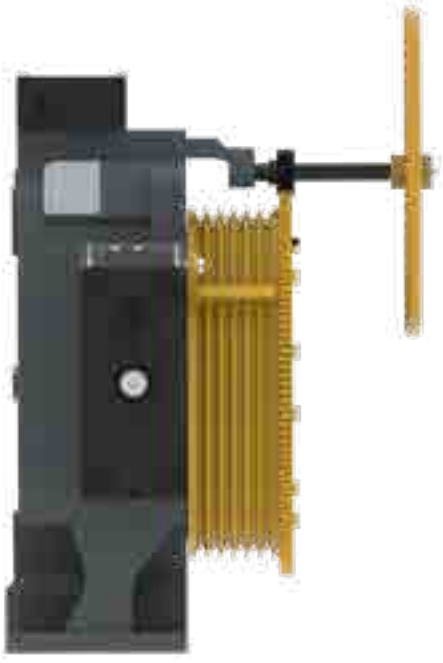
2:1			LOAD										
			KG										
			408	544	630	680	884	1000	1088	1360	1600	2000	2500
SHEAVE DIAMETER	mm	320	MF200										
		400	MF201										
			MF300										
		450	MF450										
			MF600										
		480	MF450										
		520	MF800										
		550	MF600										



The new flat gearless range for loads up to 2500 kg.

Distinguishing features:

- highly customizable
- **CE** certified
- for MR - MRL use
- wide choice of accessories
- a perfect solution for modernization projects



MF200

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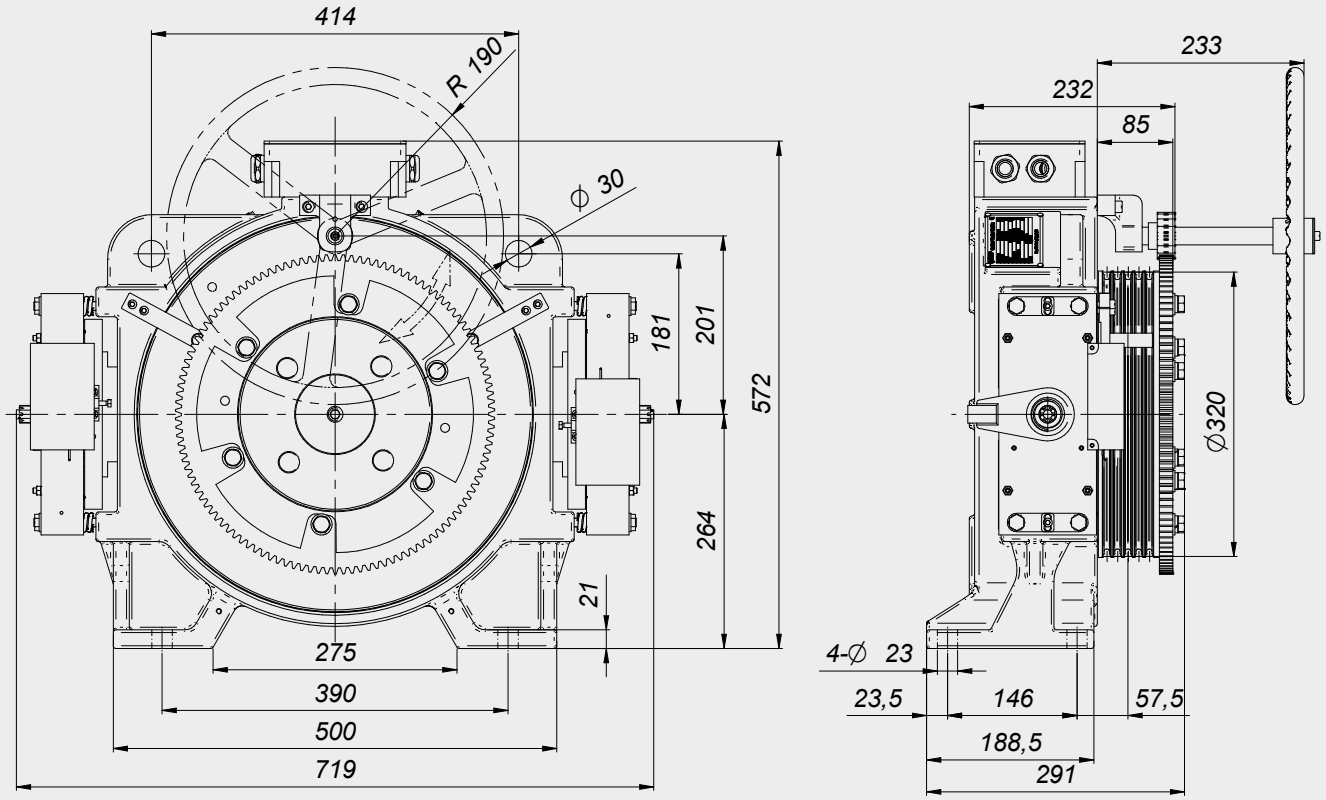
TRACTION MACHINES

MOD	Static Load	Nominal Torque	Poles	Insulation Class	Encoder	Encoder Cable	Optional	Brake features
MF200	2000 kg	300 Nm S5-40%ED	30	F	Haidenhain1387	7m	Motor power cable 7m	DZD2-5000 2×400Nm-2×102W 2×0.95A-DC110V



2:1	Load	Speed	Torque	Motor					Sheave					Code	Weight
				Power	RPM	Frequency	Current	Voltage	Diameter Ø	Rope	Angle		Pitch		
	kg	m/s	Nm	kW	RPM	Hz	A	V	mm	n°	β	γ	mm		kg
MF200	408	1.0	200	2.5	119	29.75	7.0	380	320	5xØ8	95°	35°	12	MF20040823201340	200
		1.5		3.7	179	44.75	10.0							MF20040823201.5340	
		1.75		4.4	209	52.25	12.0							MF20040823201.75340	
	544	1.0	267	3.3	119	29.75	8.8							MF20054423201340	
		1.5		5.0	179	44.75	13.4							MF20054423201.5340	
		1.75		5.8	209	52.25	15.4							MF20054423201.75340	
	630	1.0	300	3.7	119	29.75	10.0							MF20063023201340*	
		1.5		5.6	179	44.75	15.0							MF20063023201.5340*	
		1.75		6.6	209	52.25	17.5							MF20063023201.75340*	

1. Data are subject to change without prior notice
2. Rope groove number, β and γ angles can be customized upon request

Use	Code	Accessories
MRL	ACMF000014	Remote Manual Release-7m wire
	ACMF000015	Remote Manual Release-10m wire

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MF201

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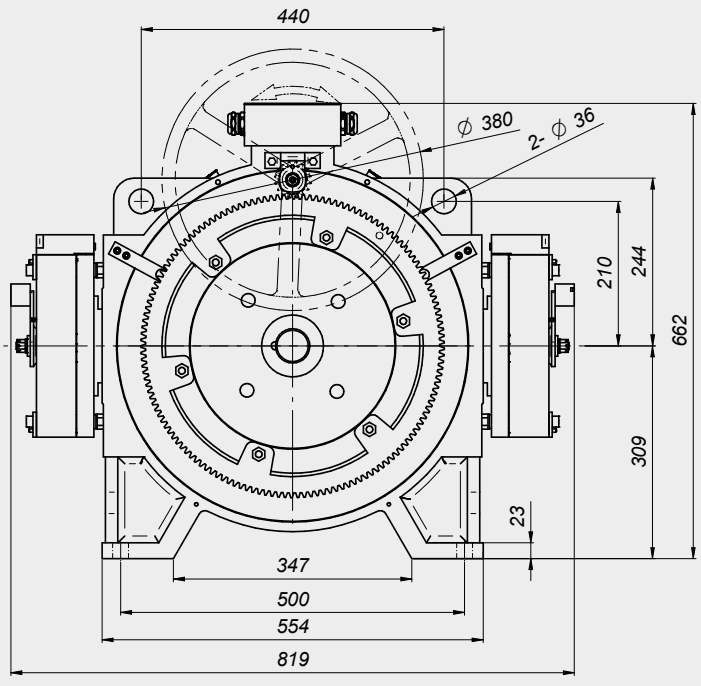
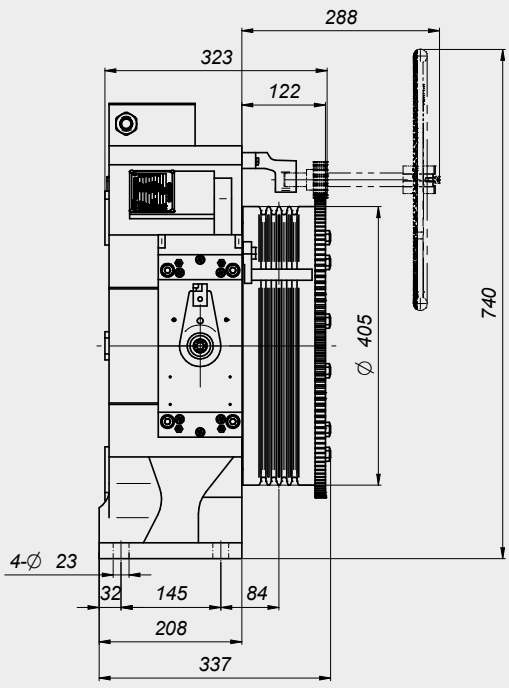
TRACTION MACHINES

MOD	Static Load	Nominal Torque	Poles	Insulation Class	Encoder	Encoder Cable	Optional	Brake features
MF201	3000 kg	450 Nm S5-40%ED	32	F	Haidenhain1387	7m	Motor power cable 7m	DZD1-500 2×922Nm-2×127W 2×1.15A-DC110V





2:1	Load	Speed	Torque	Motor					Sheave					Code	Weight
				Power	RPM	Frequency	Current	Voltage	Diameter Ø	Rope	Angle		Pitch		
	kg	m/s	Nm	kW	RPM	Hz	A	V	mm	n°	β	γ	mm		kg
MF201	408	1.0	268	2.7	95	25.46	6.0	380	400	4xØ10	95°	35°	16	MF20140824001340	295
		1.5		4.0	143	38.20	9.1							MF20140824001.5340	
		1.75		4.7	167	44.56	10.6							MF20140824001.75340	
		2.0		5.4	191	50.93	12.1							MF20140824002340	
	544	1.0	358	3.6	95	25.46	8.0							MF20154424001340	
		1.5		5.4	143	38.20	12.0							MF20154424001.5340	
		1.75		6.3	167	44.56	14.0							MF20154424001.75340	
		2.0		7.2	191	50.93	16.0							MF20154424002340	
	680	1.0	447	4.5	95	25.46	10.8							MF20168024001340	
		1.5		6.7	143	38.20	15.0							MF20168024001.5340	
		1.75		7.8	167	44.56	17.5							MF20168024001.75340	
		2.0		8.9	191	50.93	20.0							MF20168024002340	

1. Data are subject to change without prior notice
2. Rope groove number, β and γ angles can be customized upon request

Use	Code	Accessories
MRL	ACMF000008	Remote Manual Release-7m wire
	ACMF000011	Remote Manual Release-10m wire

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MF300

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TRACTION MACHINES

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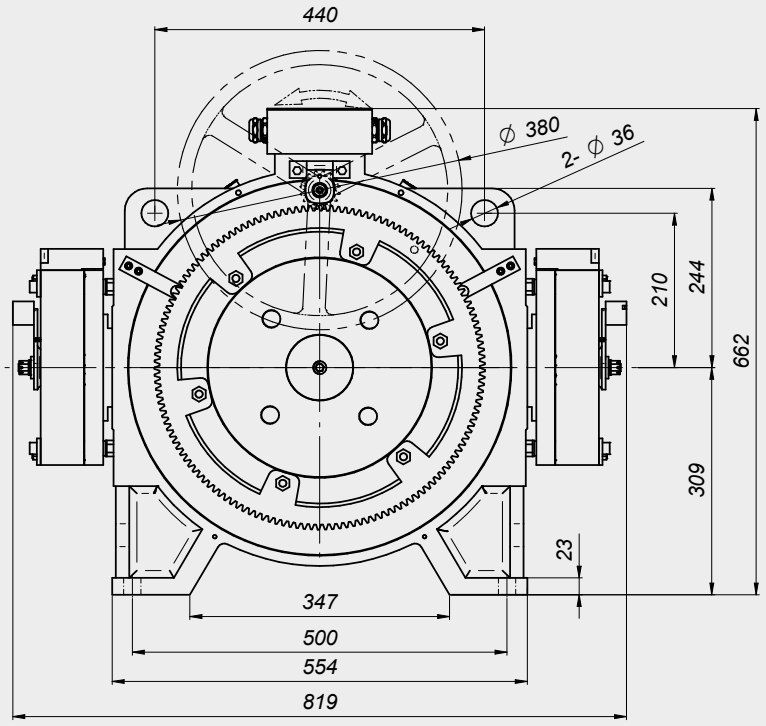
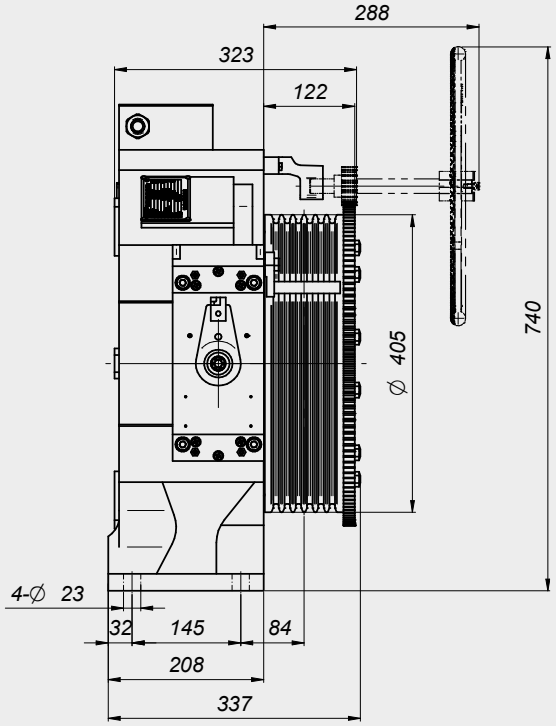
MOD	Static Load	Nominal Torque	Poles	Insulation Class	Encoder	Encoder Cable	Optional	Brake features
MF300	3000 kg	670 Nm S5-40%ED	32	F	Haidenhain1387	7m	Motor power cable 7m	DZD1-500 2×922Nm-2×127W 2×1.15A-DC110V





1:1	Load	Speed	Torque	Motor					Sheave					Code	Weight
				Power	RPM	Frequency	Current	Voltage	Diameter Ø	Rope	Angle		Pitch		
	kg	m/s	Nm	kW	RPM	Hz	A	V	mm	n°	β	γ	mm		kg
MF300	408	1.0	536	2.7	48	12.73	6.5	380	400	6xØ10	95°	35°	16	MF30040814001340	295
		1.5		4.0	72	19.10	10.0							MF30040814001.5340	
		1.75		4.7	84	22.28	11.5							MF30040814001.75340	
		2.0		5.4	95	25.46	13.0							MF30040814002340	
	544	1.0	670	3.3	48	12.73	7.8							MF30054414001340	305
		1.5		5.0	72	19.10	11.7							MF30054414001.5340	
		1.75		5.9	84	22.28	13.6							MF30054414001.75340	
		2.0		6.7	95	25.46	15.6							MF30054414002340	

2:1	Load	Speed	Torque	Motor					Sheave					Code	Weight
				Power	RPM	Frequency	Current	Voltage	Diameter Ø	Rope	Angle		Pitch		
	kg	m/s	Nm	kW	RPM	Hz	A	V	mm	n°	β	γ	mm		kg
MF300	884	1.0	581	5.8	95	25.46	13.5	380	400	6xØ10	95°	35°	16	MF30088424001340	295
		1.5		8.7	143	38.20	19.0							MF30088424001.5340	
		1.75		10.2	167	44.56	23.5							MF30088424001.75340	
		2.0		11.7	191	50.93	26.5							MF30088424002340	
	1000	1.0	657	6.6	95	25.46	15.4							MF300100024001340	305
		1.5		9.9	143	38.20	22.5							MF300100024001.5340	
		1.75		11.5	167	44.56	26.0							MF300100024001.75340	
		2.0		13.1	191	50.93	30.5							MF300100024002340	
	1088	1.0	670	6.7	95	25.46	16.0							MF300108824001340	
		1.5		10.1	143	38.20	22.6							MF300108824001.5340	
		1.75		11.7	167	44.56	26.4							MF300108824001.75340	
		2.0		13.4	191	50.93	30.2							MF300108824002340	

1. Data are subject to change without prior notice
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Use	Code	Accessories
MRL	ACMF000008	Remote Manual Release-7m wire
	ACMF000011	Remote Manual Release-10m wire

MF450

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TRACTION MACHINES

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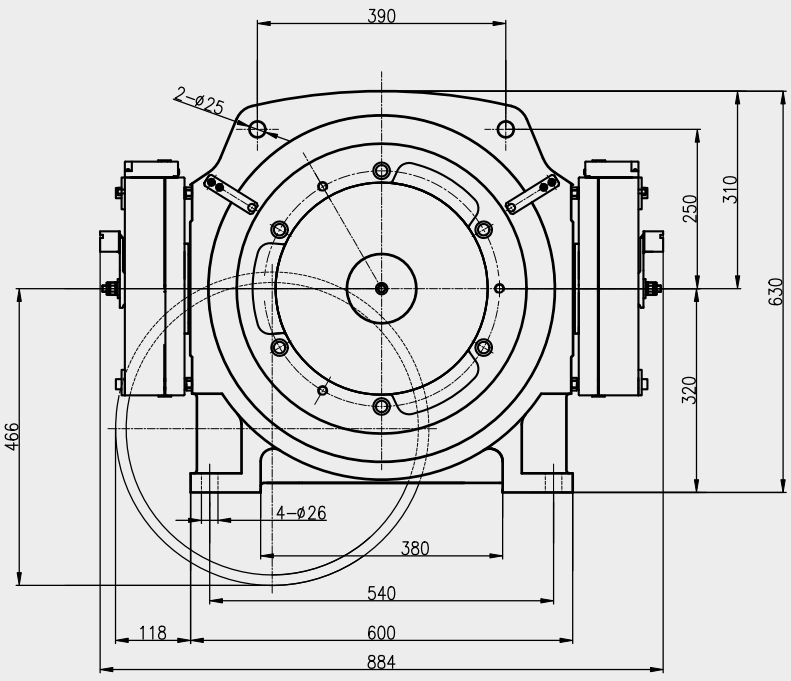
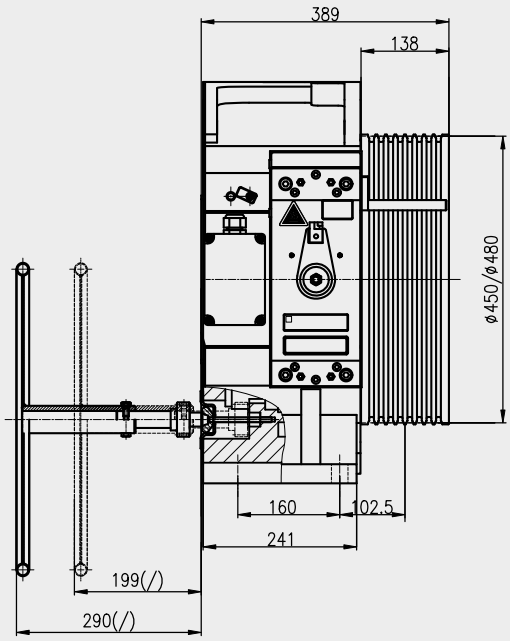
MOD	Static Load	Nominal Torque	Poles	Insulation Class	Encoder	Encoder Cable	Optional	Brake features
MF450	4500 kg	1070 Nm S5-40%ED	32	F	Haidenhain1387	7m	Motor power cable 7m	DZD1-653 2x1270Nm- 2×127W 2×1.15A-DC110V





(/) Means without flywheel

1:1	Load	Speed	Torque	Motor					Sheave					Code	Weight
				Power	RPM	Frequency	Current	Voltage	Diameter Ø	Rope	Angle		Pitch		
	kg	m/s	Nm	kW	RPM	Hz	A	V	mm	n°	β	γ	mm		kg
MF450	544	1.0	789	3.3	40	10.61	10.0	380	480	4xØ12	95°	35°	18	MF45054414801340	510
		1.5		4.9	60	15.92	13.0							MF45054414801.5340	
		1.75		5.8	70	18.57	15.0							MF45054414801.75340	
		2.0		6.6	80	21.22	17.0							MF45054414802340	
	680	1.0	937	4.1	42	11.20	10.5		450	8xØ10			16	MF45068014501340	500
		1.5		6.3	64	17.07	16.5							MF45068014501.5340	
		1.75		7.3	74	19.73	18.5							MF45068014501.75340	
		2.0		8.3	85	22.67	21.5							MF45068014502340	
		1.0	1000	4.2	40	10.61	11.4		480	5xØ12			18	MF45068014801340	510
		1.5		6.3	60	15.92	16.5							MF45068014801.5340	
		1.75		7.3	70	18.57	18.5							MF45068014801.75340	
		2.0		8.3	80	21.22	21.5							MF45068014802340	

2:1	Load	Speed	Torque	Motor					Sheave					Code	Weight
				Power	RPM	Frequency	Current	Voltage	Diameter Ø	Rope	Angle		Pitch		
	kg	m/s	Nm	kW	RPM	Hz	A	V	mm	n°	β	γ	mm		kg
MF450	1088	1.0	800	6.7	80	21.22	16.5	380	480	6xØ12	95°	35°	18	MF450108824801340	510
		1.5		10.0	119	31.83	24.0							MF450108824801.5340	
		1.75		11.7	139	37.14	28.0							MF450108824801.75340	
		2.0		13.3	159	42.44	32.0							MF450108824802340	
		2.5		16.7	199	53.05	38.0							MF450108824802.5340	
	1360	1.0	1000	8.3	80	21.22	20.5			7xØ12				MF450136024801340	
		1.5		12.5	119	31.83	30.0							MF450136024801.5340	
		1.75		14.6	139	37.14	35.0							MF450136024801.75340	
		2.0		16.7	159	42.44	39.0							MF450136024802340	
		2.5		20.8	199	53.05	47.5							MF450136024802.5340	
	1088	1.0	750	6.7	85	22.67	16.5		450	8xØ10			16	MF450108824501340	500
		1.5		10.0	127	33.87	24.0							MF450108824501.5340	
		1.75		11.7	149	39.73	28.0							MF450108824501.75340	
		2.0		13.3	170	45.33	32.0							MF450108824502340	
		2.5		16.6	212	56.53	38.0							MF450108824502.5340	
	1360	1.0	937	8.3	85	22.67	20.5							MF450136024501340	
		1.5		12.5	127	33.87	30.0							MF450136024501.5340	
		1.75		14.6	149	39.73	35.0							MF450136024501.75340	
		2.0		16.7	170	45.33	39.0							MF450136024502340	
		2.5		20.8	212	56.53	47.5							MF450136024502.5340	

1. Data are subject to change without prior notice
2. Rope groove number, β and γ angles can be customized upon request

Use	Code	Accessories
MRL	ACMF000010	Remote Manual Release-7m wire
	ACMF000013	Remote Manual Release-10m wire

MF600

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TRACTION MACHINES

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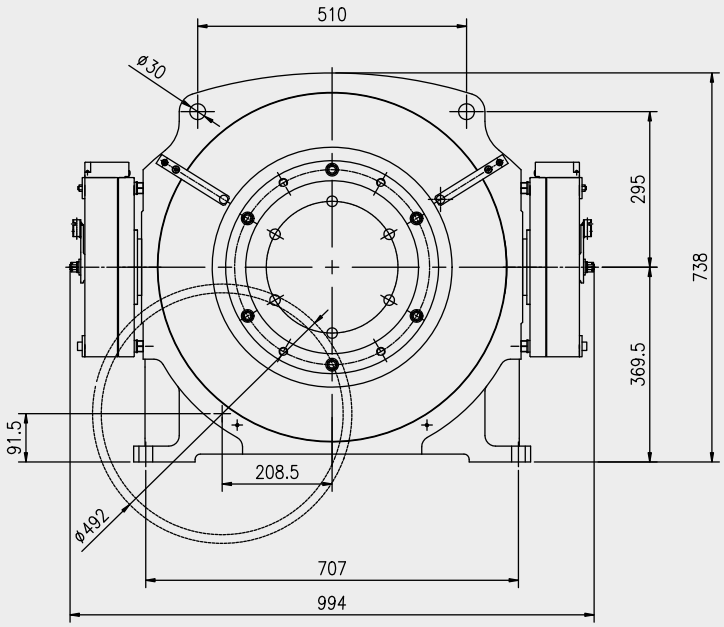
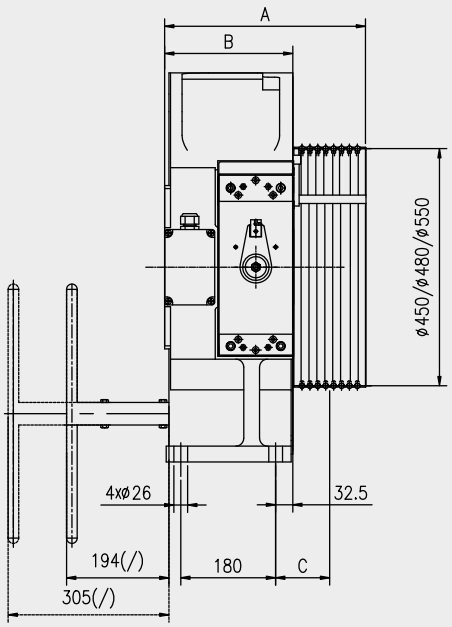
MOD	Static Load	Nominal Torque	Poles	Insulation Class	Encoder	Encoder Cable	Optional	Brake features
MF600	6000 kg	1470 Nm S5-40%ED	32	F	Haidenhain1387	7m	Motor power cable 7m	DZD1-653 2X1550Nm-2×127W 2×1.15A-DC110V
								DZD1-653 2X1838Nm-2×127W 2×1.15A-DC110V





(/) Means without flywheel

2:1				
Sheave Diameter Ø	Load	Size A	Size B	Size C
mm	kg	mm	mm	mm
450	≤1600	382	243	102.5
550	≤1600			
450	2000	408	253	110.5

1:1				
Sheave Diameter Ø	Load	Size A	Size B	Size C
mm	kg	mm	mm	mm
450	884	382	243	102.5
480/550	884	408	253	110.5
450/480	1088			

1:1	Load	Speed	Torque	Motor					Sheave					Code	Weight
				Power	RPM	Frequency	Current	Voltage	Diameter Ø	Rope	Angle		Pitch		
	kg	m/s	Nm	kW	RPM	Hz	A	V	mm	n°	β	γ	mm		kg
MF600	884	1.0	1218	5.4	42	11.32	13.5	380	450	8xØ10	95°	35°	16	MF60088414501340	640
		1.5		8.1	64	16.98	20.5							MF60088414501.5340	
		1.75		9.5	74	19.81	24.0							MF60088414501.75340	
		2.0		10.8	85	22.64	27.0							MF60088414502340	
		1.0	1299	5.4	40	10.67	13.5		480	7xØ12			18	MF60088414801340	710
		1.5		8.2	60	16.00	20.5							MF60088414801.5340	
		1.75		9.5	70	18.67	24.0							MF60088414801.75340	
		2.0		10.9	80	21.33	27.0							MF60088414802340	
		1.0	1489	5.5	35	9.33	13.5		550	6XØ13			20	MF60088415501340	
		1.5		8.1	52	13.87	20.5							MF60088415501.5340	
		1.75		9.5	61	16.27	24.0							MF60088415501.75340	
		2.0		10.8	69	18.40	27.0							MF60088415502340	
	1088	1.0	1499	6.7	42	11.32	16.5		450	9xØ10			16	MF600108814501340	682
		1.5		10.0	64	16.98	25.0							MF600108814501.5340	
		1.75		11.7	74	19.81	30.0							MF600108814501.75340	
		2.0		13.3	85	22.64	33.5							MF600108814502340	
		1.0	1599	6.7	40	10.61	16.5		480	7xØ12			18	MF600108814801340	710
		1.5		10.0	60	15.92	25.0							MF600108814801.5340	
		1.75		11.7	70	18.57	30.0							MF600108814801.75340	
		2.0		13.3	80	21.22	33.5							MF600108814802340	

2:1	Load	Speed	Torque	Motor					Sheave					Code	Weight
				Power	RPM	Frequency	Current	Voltage	Diameter Ø	Rope	Angle		Pitch		
	kg	m/s	Nm	kW	RPM	Hz	A	V	mm	n°	β	γ	mm		kg
MF600	1600	1.0	1176	10.5	85	22.67	23.0	380	450	8xØ10	95°	35°	16	MF600160024501340	640
		1.5		15.8	127	33.87	34.5							MF600160024501.5340	
		1.75		18.4	149	39.73	39.0							MF600160024501.75340	
		2.0		21.0	170	45.33	44.0							MF600160024502340	
		2.5		26.3	212	56.53	55.0							MF600160024502.5340	
	2000	1.0	1470	13.1	85	22.67	29.5			9xØ10				MF600200024501340	682
		1.5		19.7	127	33.87	45.0							MF600200024501.5340	
		1.75		23.0	149	39.73	48.5							MF600200024501.75340	
		2.0		26.3	170	45.33	60.0							MF600200024502340	
	1088	1.0	916	6.7	69	18.40	16.5		550	6XØ13			20	MF600108825501340	670
		1.5		10.0	104	27.73	24.0							MF600108825501.5340	
		1.75		11.7	122	32.53	26.5							MF600108825501.75340	
		2.0		13.3	139	37.07	32.0							MF600108825502340	
		2.5		16.7	174	46.40	37.0							MF600108825502.5340	
	1360	1.0	1145	8.3	69	18.40	20.4							MF600136025501340	
		1.5		12.5	104	27.73	31							MF600136025501.5340	
		1.75		14.6	122	32.53	33							MF600136025501.75340	
		2.0		16.7	139	37.07	39.8							MF600136025502340	
		2.5		20.9	174	46.40	46.2							MF600136025502.5340	
	1600	1.0	1437	10.5	69	18.40	23.1							MF600160025501340	710
		1.5		15.8	104	27.73	34.4							MF600160025501.5340	
		1.75		18.4	122	32.53	39.6							MF600160025501.75340	
		2.0		21.0	139	37.07	46							MF600160025502340	
		2.5		26.3	174	46.40	55.9							MF600160025502.5340	

1. Data are subject to change without prior notice
2. Rope groove number, β and γ angles can be customized upon request

Use	Code	Accessories
MRL	ACMF000010	Remote Manual Release-7m wire
	ACMF000013	Remote Manual Release-10m wire

Remote Manual Release in MF600 applicable to:
Ø450 mm sheave with 1600 kg load or less; Ø550 mm sheave with load 1360 kg or less.
Ø450 mm sheave with load 2000 kg and Ø550 mm sheave with load 1600 kg can not use Remote Manual Release.

MF800

Montanari Group
GEARLESS&GEARBOX
TRACTION MACHINES

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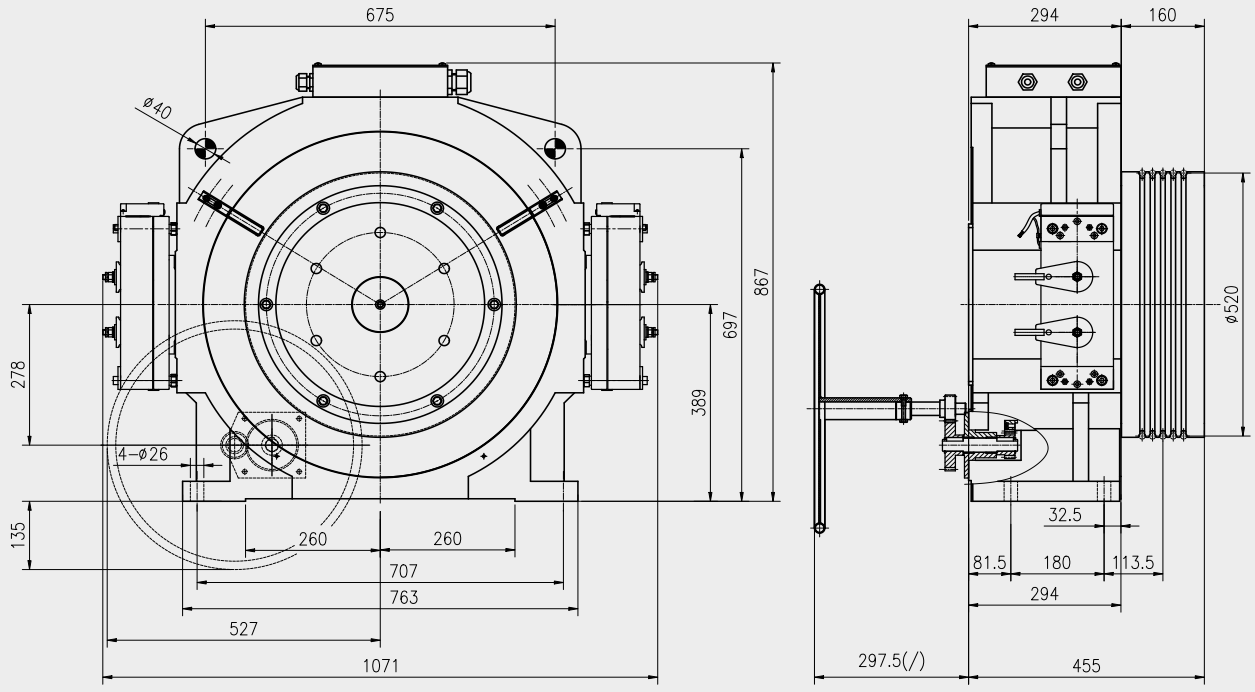
MOD	Static Load	Nominal Torque	Poles	Insulation Class	Encoder	Encoder Cable	Optional	Brake features
MF800	8000 kg	2200 Nm S5-40%ED	32	F	Haidenhain1387	7m	Motor power cable 7m	DZD1-21800 2X2172Nm-2×197W 2×1.8A-DC110V
								DZD1-25000 2X3188Nm-2×(540/135)W 2×(2.7/1.35)A-DC200/100V



(/)Means without flywheel

1:1	Load	Speed	Rated Torque	Motor					Sheave					CODE	Weight
				Power	RPM	Freq.	Current	Voltage	Ø	Rope	Angle		Pitch		
	kg	m/s	Nm	kW	RPM	Hz	A	V	mm	n°	β	γ	mm		kg
MF800	1350	1.0	2097	8.1	37	9.79	19.6	380	520	7XØ13	95°	35°	20	MF800135015201340	1010
		1.5		12.1	55	14.69	27.6							MF800135015201.5340	
		1.75		14.1	64	17.14	32.5							MF8001350152O1.75340	
		2.0		16.1	73	19.59	38.4							MF800135015202340	

2:1	Load	Speed	Rated Torque	Motor					Sheave					CODE	Weight
				Power	RPM	Freq.	Current	Voltage	Ø	Rope	Angle		Pitch		
	kg	m/s	Nm	kW	RPM	Hz	A	V	mm	n°	β	γ	mm		kg
MF800	2000	1.0	1737	13.4	74	19.73	32.0	380	520	7xØ13	95°	35°	20	MF800200025201340	1010
		1.5		20.0	110	29.38	44.0							MF800200025201.5340	
		1.75		23.3	129	34.28	52.5							MF800200025201.75340	
		2.0		26.7	147	39.18	62.5							MF800200025202340	
		2.5		33.4	184	48.97	75.5							MF800200025202.5340	
	2500	1.0	2172	16.7	74	19.73	35.0							MF800250025201340	
		1.5		25.0	110	29.38	58.0							MF800250025201.5340	
		1.75		29.2	129	34.28	66.0							MF800250025201.75340	
		2.0		33.3	147	39.18	72.0							MF800250025202340	
		2.5		41.8	184	48.97	94.0							MF800250025202.5340	

1. Data are subject to change without prior notice
2. Rope groove number, β and γ angles can be customized upon request

Use	Code	Accessories
MRL	Not available for this model	