



C.F.R. SRL

Since 1979

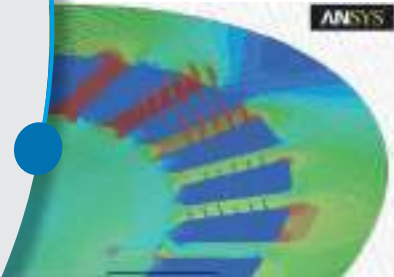
HORIZONTAL DRIVE WHEEL
VERTICAL DRIVE WHEEL



전화 032-213-0093
팩스 032-232-1753

알프모션-외국산모터전문업체
www.alpha-motioncontrol.com

TESTED - PROVEN VALIDATED - PMAC DESIGN



Designs are validated by Ansys® Maxwell, a finite element software. This software allows the simulation of the performance of the motor in all load conditions, confirming we are giving you the optimized design.



The motor are tested on the newest specialized CFR test bench providing highly-accuracy power measurements from 200W to 70KW and available from 24V-144V.



All prototypes are tested for extended periods of time to verify the quality and the duration will work perfectly before sending production parts to customers. Due diligence is paramount to the satisfaction of our customers. C.F.R. testing room is one of the most modern and well-equipped in a region known for the highest quality manufacturing. It is outfitted with modern equipment, capable of supplying all of the electrical and mechanical requirements, as well as power curves and productivity of the various motors.

PROCESS CERTIFICATIONS



PRODUCTS CERTIFICATIONS

C.F.R. maintains the highest industry standards including: ISO9001:2015, RoHS Compliant, Reach Policy, European Machinery Directive, and CE as applicable.

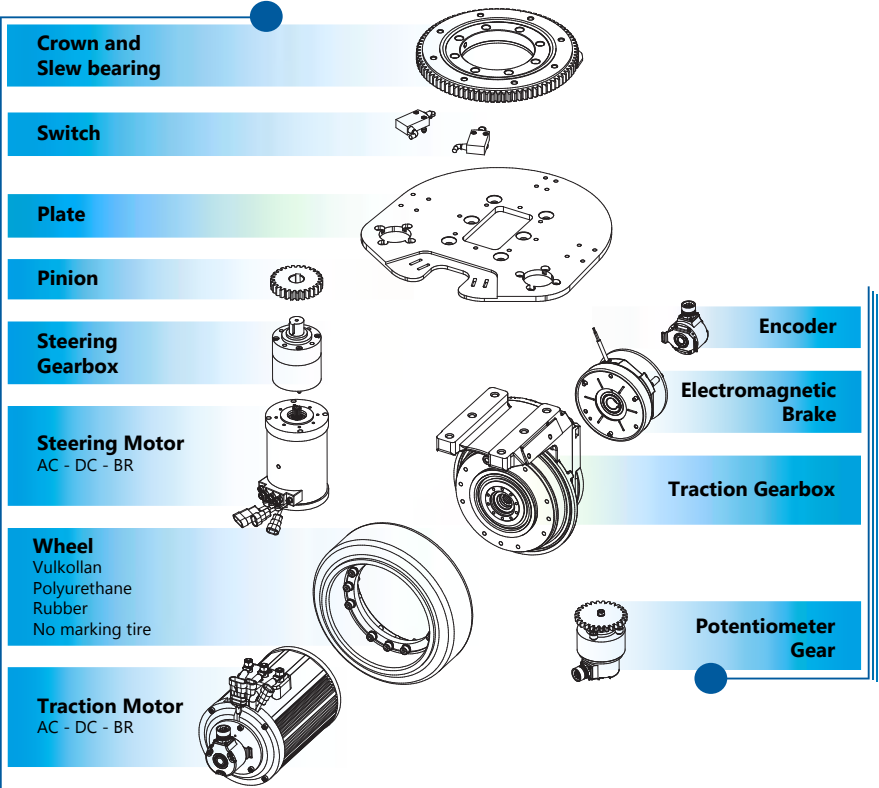
Every DC/AC motor assembled in C.F.R. conforms to the directives:

2014/35/UE (Low Voltage)
2014/30/UE (Electromagnetic Compatibility)
2006/42/CE (Machine Directive) Limitation applicable on the safety requirements and the ability to be incorporated in a machine.

The electric motors are also following the technical standards:

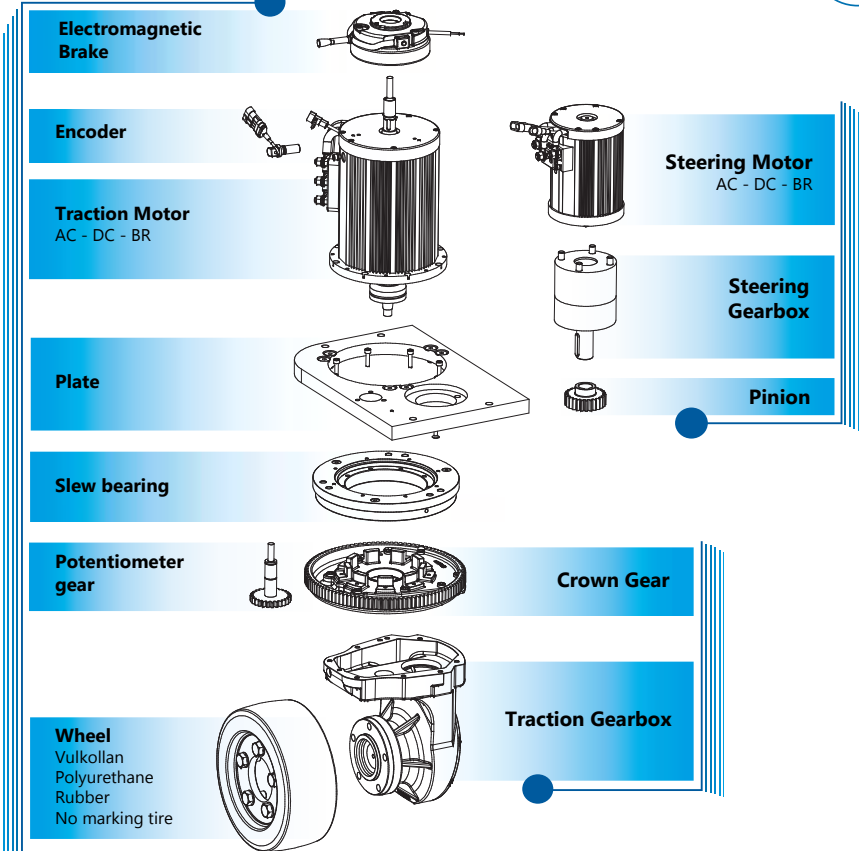
CEI EN 60034-1 Rating and operation;
CEI EN 60034-5 Degree of protection of rotating electrical machines (project basis);
CEI EN 60034-7 Classification types of construction, installation types, location of the terminal.

Horizontal Drive Wheel

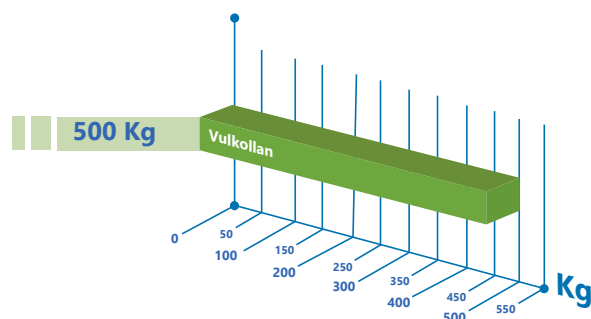


	MRT03	MRT05	MRT10	MRT18	MRT20	MRT27	MRT30	MRT33	MRT35	MRT36	MRT41
Nominal motor power [W]	200-500	200-500	300-600	500-1000	600-1400	800-1800	600-1400	1000-2500	1000-2500	2000-4000	3000-6000
Max wheel load [Kg]	500	550	600	1000	1000	1300	1100	1800	1800	2200	3200
Max wheel torque [Nm]	80	180	230	280	280	500	280	600	600	1200	2100
Nominal wheel torque [Nm]	27	60	75	90	90	165	90	200	200	400	700
Max vehicle speed [Km/h]	7.2	5.5	6	7	7	7	9	7	8	7	8
Tire diameter [mm]	154	198	220	250	250	270	297	300	350	353	410
Lubrication	oil grease	●	●	●	●	●	●	●	●	●	●
Available Gearbox Ratio	[i] 1:13,8	1:21 1:30,9	1:20,8 1:32,7	1:20,1 1:28,3 1:34,6	1:20,1 1:28,3 1:34,6	1:22,9 1:28,2 1:34,6	1:20,1 1:28,3 1:34,6	1:29,3	1:29,3	1:24,7 1:34,5	1:24,7 1:29,2

Vertical Drive Wheel



	MRT23	MRT90	MRT97	MRT130	MRT98	MRT99	MRT44	MRT100
Nominal motor power [W]	500-2000	500-1500	1000-3000	1000-2300	2000-6000	4000-6000	4000-10000	4000-6000
Max wheel load [Kg]	1000	1000	1500	1000	2600	2600	4300	1650
Max wheel torque [Nm]	500	365	750	500	1400	1400	2600	1400
Nominal wheel torque [Nm]	170	120	250	170	465	465	865	465
Max vehicle speed [Km/h]	5	6	10	12	8	9	12	15
Tire diameter [mm]	230	230	254	300	310	343	406	448
Lubrication	oil grease	●	●	●	●	●	●	●
Available Gearbox Ratio	[i] 1:27,8	1:23,3 1:28,9	1:13,8 1:16,1 1:18,9 1:21,8 1:25,6	1:11 1:16,5 1:25,4 1:28,4	1:17,2 1:20,3 1:25,6	1:17,2 1:20,3 1:25,6	1:20 1:24,4	1:17 1:20,3 1:25,6



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TRACTION

Type
Power
Battery voltage
Max speed
Enclosure
Brake torque

TRACTION MOTOR DATA		
Type	AC / DC / PMAC	
Power	[W]	200 - 500
Battery voltage	[V]	24 - 144
Max speed	[Rpm]	3500
Enclosure	IP	20 - 65
Brake torque	[Nm]	4 - 5

[illegible]

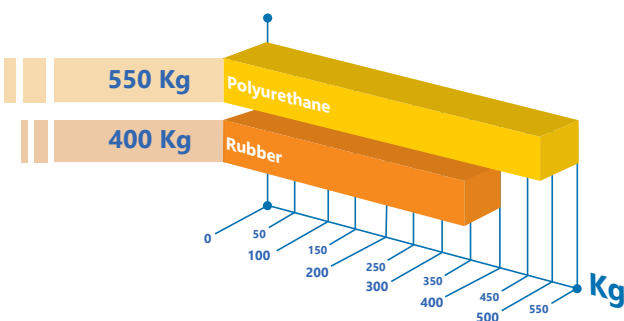
STEERING MOTOR DATA		
Type	AC / DC / PMAC	
Power	[W]	100
Battery voltage	[V]	24 - 144
Speed	[Rpm]	3000
Enclosure	IP	20 - 65
Gear ratio	[i]	1:45.56

GEARBOX DATA			
Ratio	[i]	1:13.8	
Max output	[Nm]	80	
Lubrication	-	Grease	
Tire size	[mm]	154x65	

All data in this catalog are indicative.
For detailed information, please contact us.

MRT05

Horizontal Drive Wheel

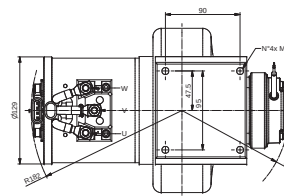
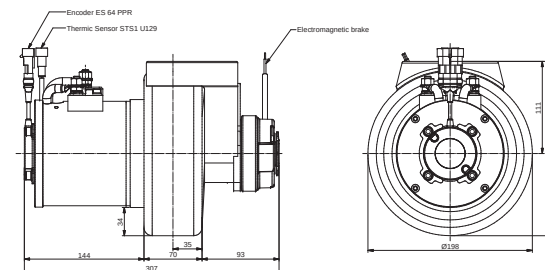


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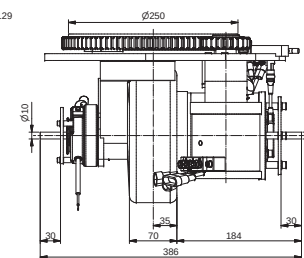
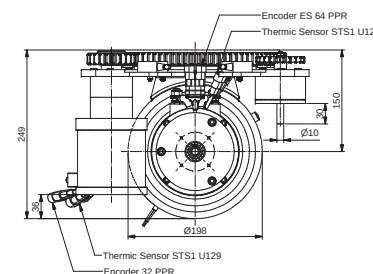
WITHOUT STEERING



TRACTION MOTOR DATA

Type	AC / DC / PMAC
Power	[W] 200 - 500
Battery voltage	[V] 24 - 144
Max speed	[Rpm] 3300
Enclosure	IP 20 - 65
Brake torque	[Nm] 4

WITH STEERING SYSTEM



STEERING MOTOR DATA

Type	AC / DC / PMAC
Power	[W] 100 - 150
Battery voltage	[V] 24 - 144
Speed	[Rpm] 3000
Enclosure	IP 20 - 65
Gear ratio	[i] 1:45,56

GEARBOX DATA

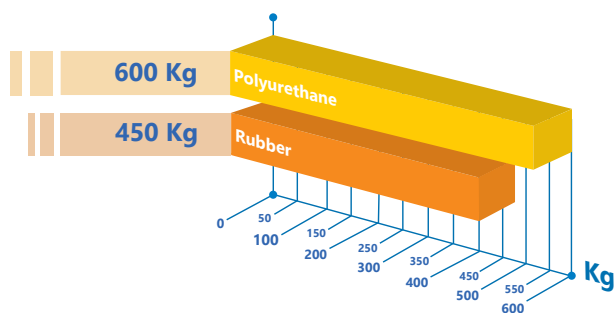
Ratio	[i]	1:21	1:30,9
Max output	[Nm]	180	
Lubrication	-	Grease	
Tire size	[mm]	198x70	



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MRT10

Horizontal Drive Wheel

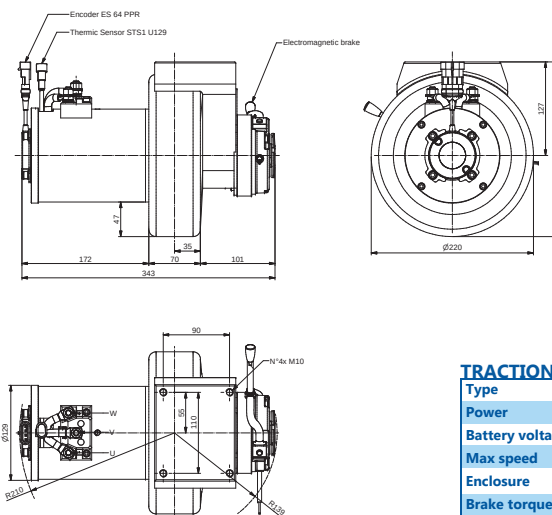


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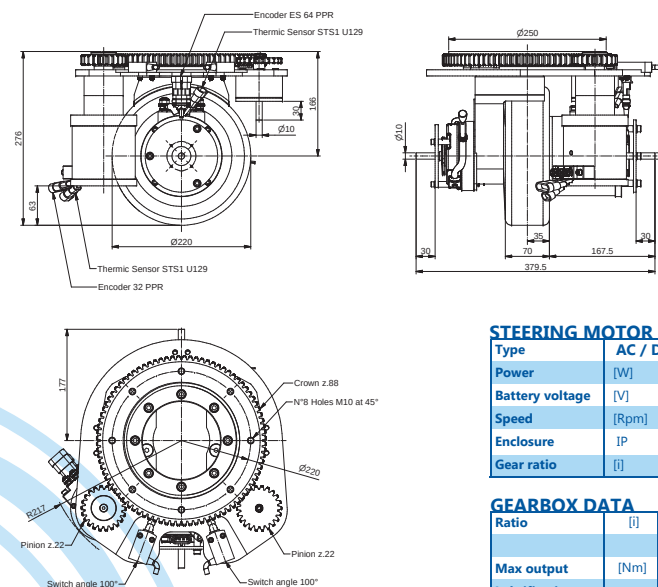
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WITHOUT STEERING



TRACTION MOTOR DATA		
Type	AC / DC / PMAC	
Power	[W]	300 - 600
Battery voltage	[V]	24 - 144
Max speed	[Rpm]	3300
Enclosure	IP	20 - 65
Brake torque	[Nm]	8

WITH STEERING SYSTEM

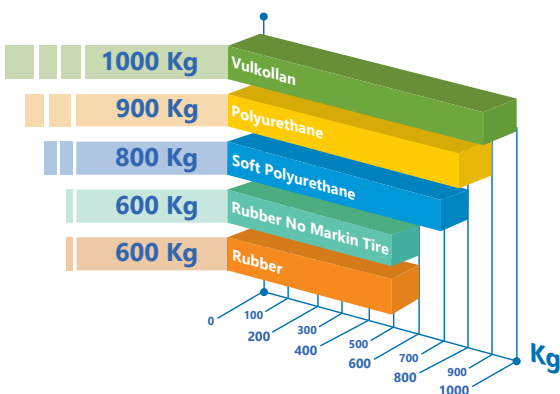


STEERING MOTOR DATA		
Type	AC / DC / PMAC	
Power	[W]	100 - 150
Battery voltage	[V]	24 - 144
Speed	[Rpm]	3000
Enclosure	IP	20 - 65
Gear ratio	[i]	1:45,56

GEARBOX DATA		
Ratio	[i]	1:20,8 1:32,7
Max output	[Nm]	230
Lubrication	-	Grease
Tire size	[mm]	220x70



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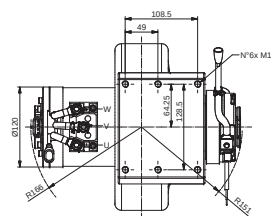
Technical drawing of the STS1 U129 motor, showing side and front views with dimensions and labels.

Labels:

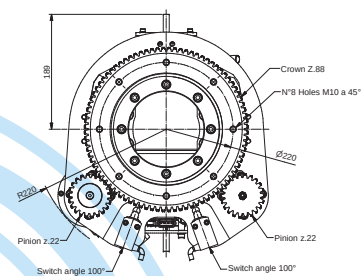
- Thermic Sensor STS1 U129
- Encoder ES 64 PPR
- Electromagnetic brake

Dimensions (mm):

- Side View:
 - Overall length: 309
 - Distance from encoder to motor body: 120.5
 - Motor body length: 89
 - Distance from motor body to brake: 108.5
 - Encoder height: 65
 - Brake mounting flange diameter: 40
- Front View:
 - Overall diameter: $\varnothing 250$
 - Mounting flange diameter: 141



Type	AC / DC / PMAC
Power	[W] 500 - 1000
Battery voltage	[V] 24 - 144
Max speed	[Rpm] 3300
Enclosure	IP 20 - 65
Brake torque	[Nm] 8



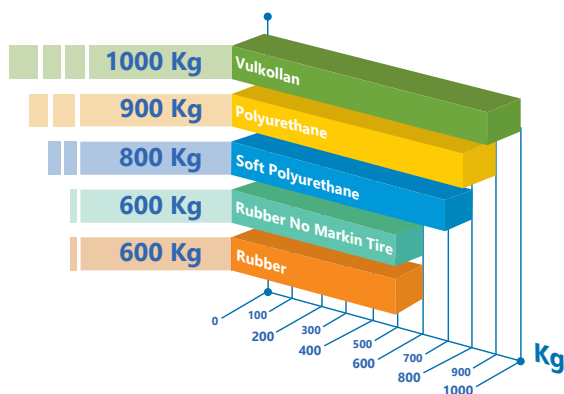
STEERING MOTOR DATA		
Type	AC / DC / PMAC	
Power	[W]	100 - 300
Battery voltage	[V]	24 - 144
Speed	[Rpm]	1500 - 3000
Enclosure	IP	20 - 65
Gear ratio	[i]	1:45,56

Ratio	[i]	1:20,1	1:28,3
		1:34,6	
Max output	[Nm]	280	
Lubrication	-	Grease	
Tire size	[mm]	250x80	

All data in this catalog are indicative.
For detailed information, please contact us.

MRT20

Horizontal Drive Wheel

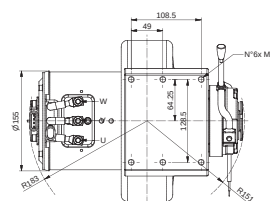
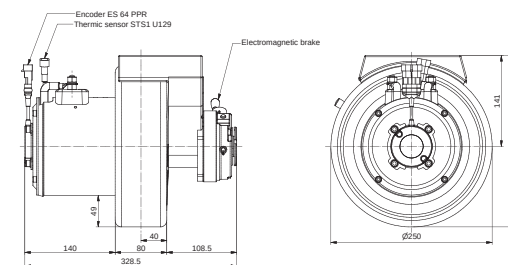


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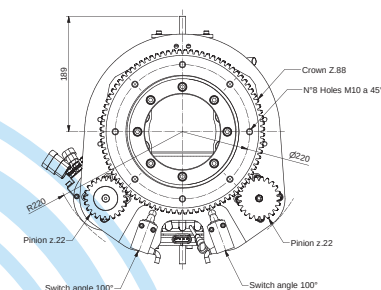
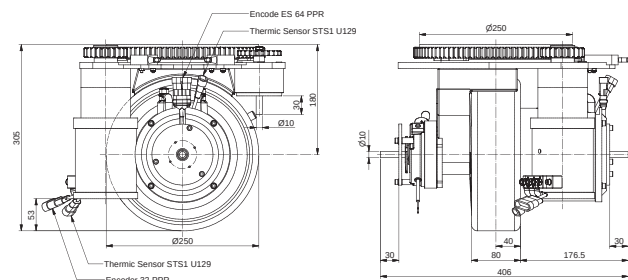
WITHOUT STEERING



TRACTION MOTOR DATA

Type	AC / DC / PMAC
Power	[W] 600 - 1400
Battery voltage	[V] 24 - 144
Max speed	[Rpm] 3300
Enclosure	IP 20 - 65
Brake torque	[Nm] 8

WITH STEERING SYSTEM



STEERING MOTOR DATA

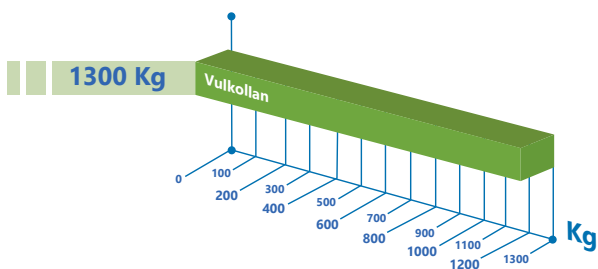
Type	AC / DC / PMAC
Power	[W] 100 - 300
Battery voltage	[V] 24 - 144
Speed	[Rpm] 3000
Enclosure	IP 20 - 65
Gear ratio	[i] 1:45,56

GEARBOX DATA

Ratio	[i]	1:20,1	1:28,3
Max output	[Nm]	280	
Lubrication		Grease	
Tire size	[mm]	250x80	



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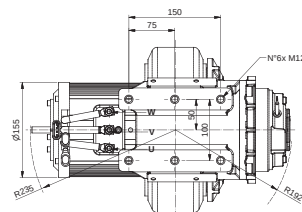


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Encoder ES 64 PPR
Thermic sensor STS1 L129
Electromagnetic brake

57.5
45
189
421
90
142



TRACTION MOTOR DATA		
Type	AC / DC / PMAC	
Power	[W]	800 - 1800
Battery voltage	[V]	24 - 144
Max speed	[Rpm]	3300
Enclosure	IP	20 - 65
Brake torque	[Nm]	16

Encoder ES 64 PPR

Thermic sensor STS1 U129

30
708

$\varnothing 10$

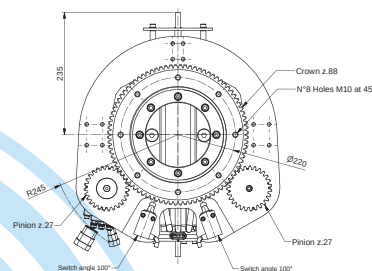
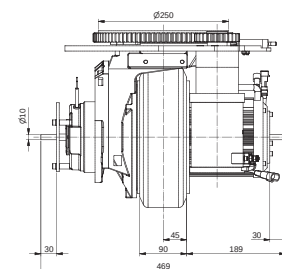
328

56

$\varnothing 270$

Thermic sensor STS1 U129

Encoder Basing 32 PPR



STEERING MOTOR DATA		
Type	AC / DC / PMAC	
Power	[W]	200 - 400
Battery voltage	[V]	24 - 144
Speed	[Rpm]	3000
Enclosure	IP	20 - 65
Gear ratio	[i]	1:45,56

GEARBOX DATA			
Ratio	[i]	1:22,9	1:28,2
Max output	[Nm]	500	
Lubrication	-	Grease	
Tire size	[mm]	270x90	

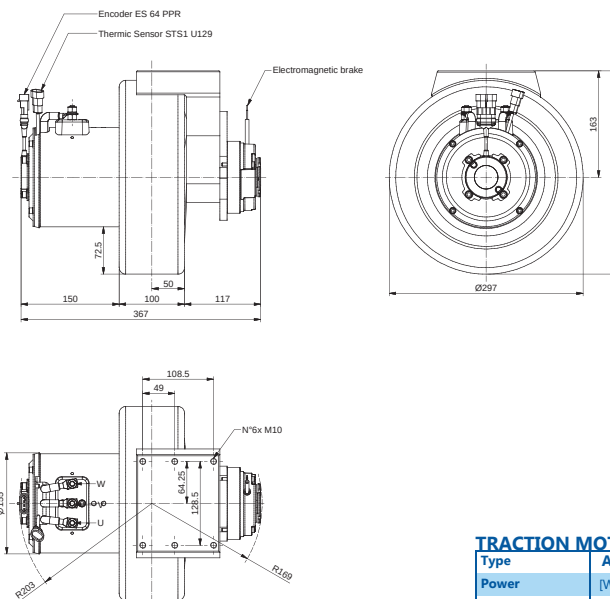
All data in this catalog are indicative.
For detailed information, please contact us.

MRT30

Horizontal Drive Wheel



WITHOUT STEERING

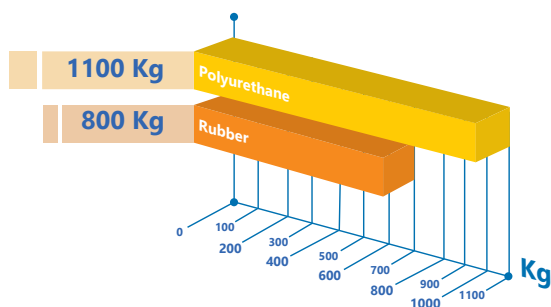


TRACTION MOTOR DATA

Type	AC / DC / PMAC
Power	[W] 600 - 1400
Battery voltage	[V] 24 - 144
Max speed	[Rpm] 3300
Enclosure	IP 20 - 65
Brake torque	[Nm] 8

GEARBOX DATA

Ratio	[i]	1:20,1	1:28,3
		1:34,6	
Max output	[Nm]	280	
Lubrication	-	Grease	
Tire size	[mm]	297x100	



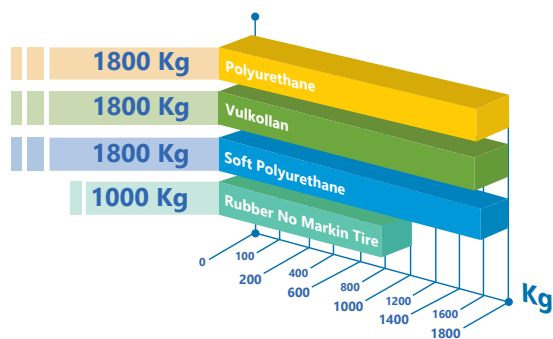
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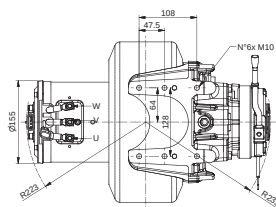


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Technical drawing of the ES 64 PPR encoder assembly. The drawing shows a side view of the assembly with the following dimensions and labels:

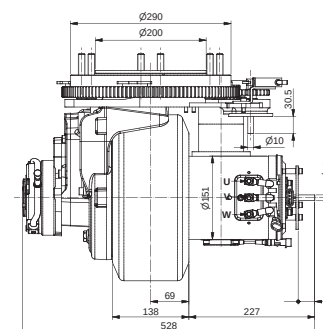
- Encoder ES 64 PPR
- Thermic Sensor STS1 U129
- Electromagnetic brake
- Dimensions: 151, 138, 69, 162, 451, 72.5



Type	AC / DC / PMAC
Power	[W] 1000 - 2500
Battery voltage	[V] 24 - 144
Max speed	[Rpm] 3300
Enclosure	IP 20 - 65
Brake torque	[Nm] 16

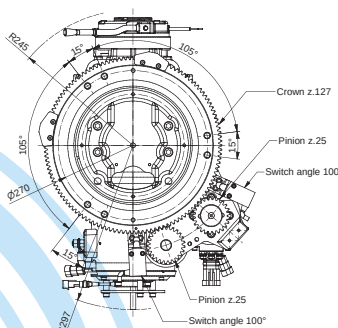
Technical drawing of the motor assembly showing dimensions and components. The drawing includes the following dimensions and labels:

- 6 x M12 (Top mounting holes)
- 38 (Total height)
- 4 (Top flange thickness)
- 20 (Internal shaft diameter)
- 222 (Total length)
- Encoder ES 32 PPR (Bottom left component)
- Thermic sensor: STS1 U129 (Bottom left component)
- 10 (Bottom flange thickness)



STEERING MOTOR DATA		
Type	AC / DC / PMAC	
Power	[W]	400
Battery voltage	[V]	24 - 144
Speed	[Rpm]	3000
Enclosure	IP	20 - 65
Gear ratio	[i]	1:45,56

GEARBOX DATA			
Ratio	[i]	1:29,3	
Max output	[Nm]	600	
Lubrication	-	Oil	
Tire size	[mm]	300x138	



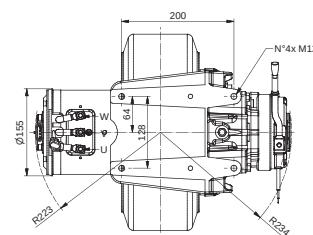
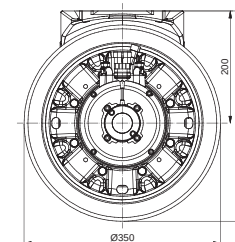
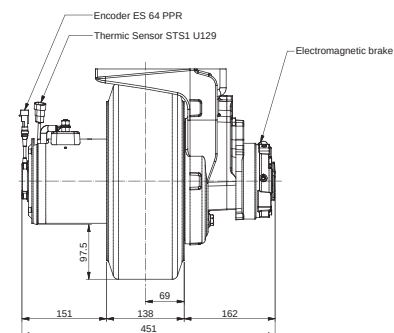
All data in this catalog are indicative.
For detailed information, please contact us.

MRT35

Horizontal Drive Wheel



WITHOUT STEERING

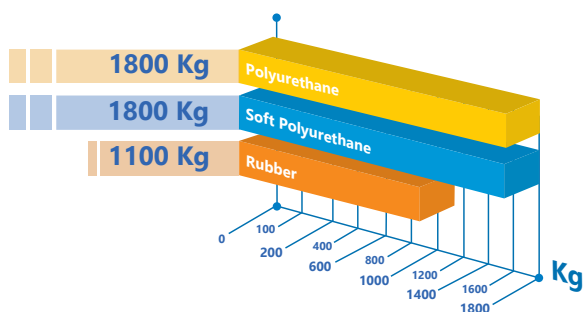


TRACTION MOTOR DATA

Type	AC / DC / PMAC
Power	[W] 1000 - 2500
Battery voltage	[V] 24 - 144
Max speed	[Rpm] 3300
Enclosure	IP 20 - 65
Brake torque	[Nm] 16

GEARBOX DATA

Ratio	[i]	1:29,3
Max output	[Nm]	280
Lubrication	-	Oil
Tire size	[mm]	350x138



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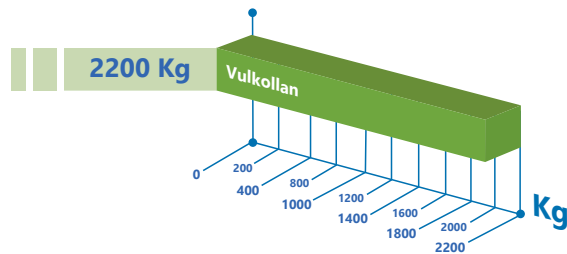
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MRT36

Horizontal Drive Wheel

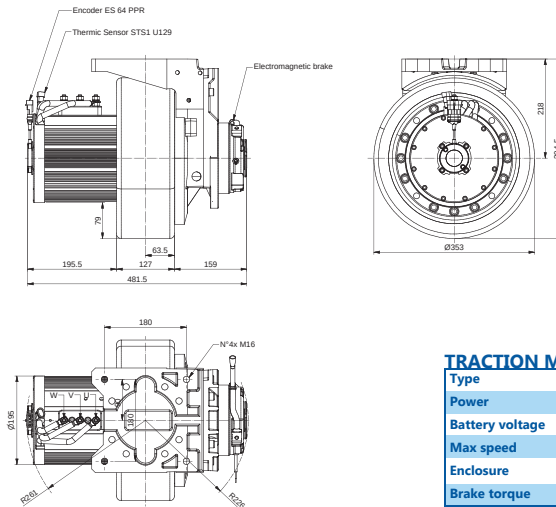


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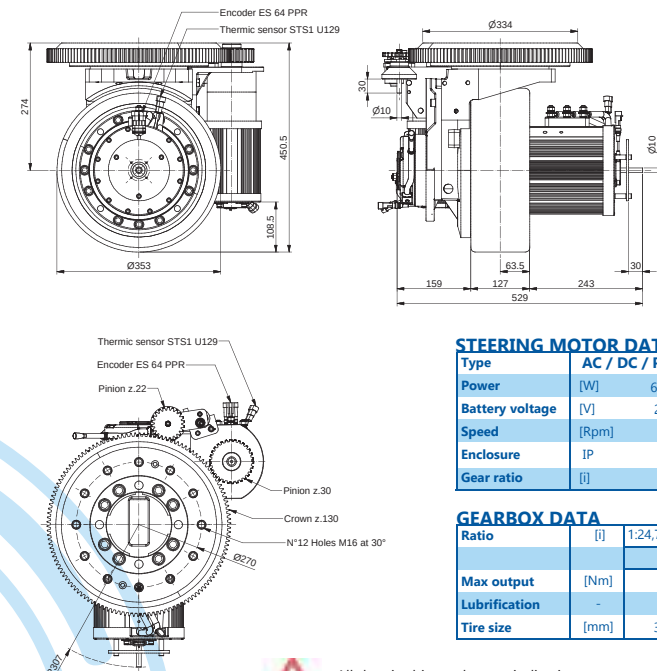
WITHOUT STEERING



TRACTION MOTOR DATA

Type	AC / DC / PMAC
Power	[W] 2000 - 4000
Battery voltage	[V] 24 - 144
Max speed	[Rpm] 2500
Enclosure	IP 20 - 65
Brake torque	[Nm] 32

WITH STEERING SYSTEM



STEERING MOTOR DATA

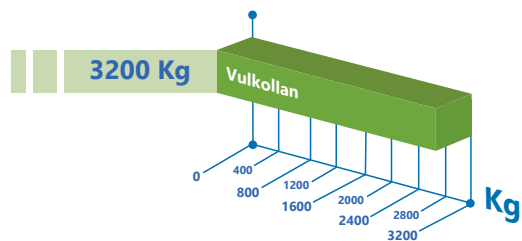
Type	AC / DC / PMAC
Power	[W] 600 - 800
Battery voltage	[V] 24 - 144
Speed	[Rpm] 3000
Enclosure	IP 20 - 65
Gear ratio	[i] 1:45,56

GEARBOX DATA

Ratio	[i]	1:24,7	1:34,5
Max output	[Nm]	1200	
Lubrication	-	Grease	
Tire size	[mm]	353x127	



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팩스 032-232-1753



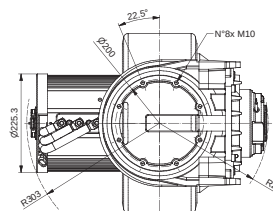
Technical drawing of the ES 64 PPR encoder, showing side and front views with dimensions and labels.

Labels:

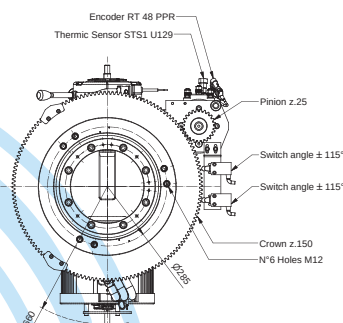
- Encoder ES 64 PPR
- Thermic Sensor STS1 U129
- Electromagnetic brake

Dimensions (mm):

- Side View:
 - Overall length: 538
 - Encoder body length: 208
 - Distance from encoder body to thermic sensor: 170
 - Distance from thermic sensor to electromagnetic brake: 160
 - Encoder body diameter: 92
- Front View:
 - Overall diameter: $\varnothing 410$
 - Mounting flange diameter: $\varnothing 254$



TRACTION MOTOR DATA		
Type	AC / DC / PMAC	
Power	[W]	3000 - 6000
Battery voltage	[V]	24 - 144
Max speed	[Rpm]	2500
Enclosure	IP	20 - 65
Brake torque	[Nm]	32 - 60

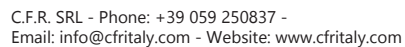
[illegible]

STEERING MOTOR DATA		
Type	AC / DC / PMAC	
Power	[W]	600 - 1000
Battery voltage	[V]	24 - 144
Speed	[Rpm]	3000
Enclosure	IP	20 - 65
Gear ratio	[i]	1:45,56

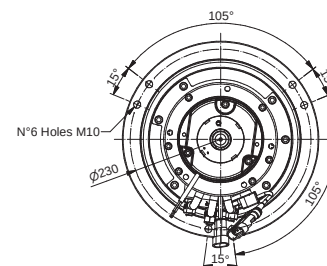
GEARBOX DATA			
Ratio	[i]	1:24,7	1:29,2
Max output	[Nm]	2100	
Lubrication	-	Grease	
Tire size	[mm]	410x170	



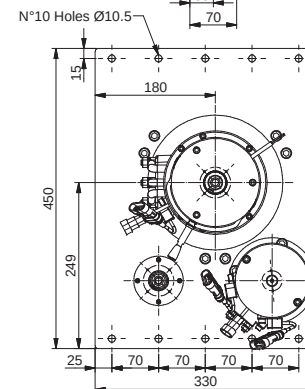
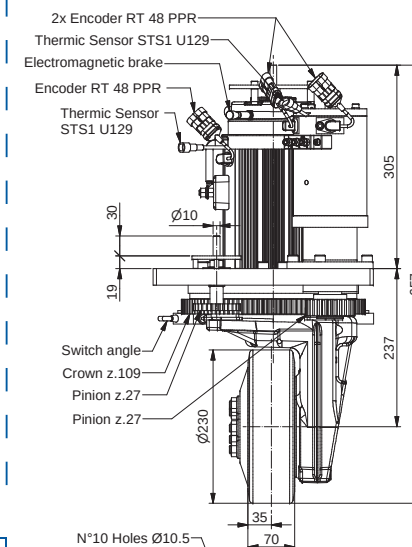
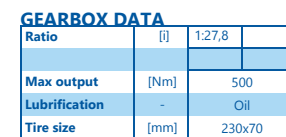
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STEERING MOTOR DATA		
Type	AC / DC / PMAC	
Power	[W]	400
Battery voltage	[V]	24 - 144
Speed	[Rpm]	3000
Enclosure	IP	20 - 65
Gear ratio	[i]	1:45,56

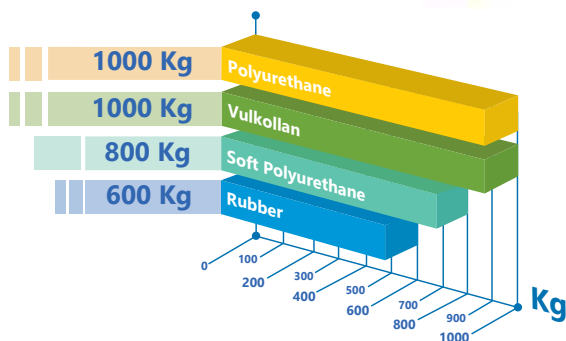


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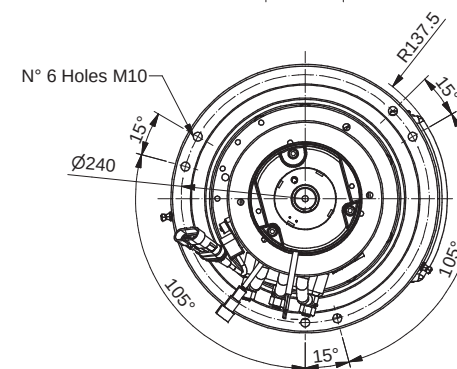
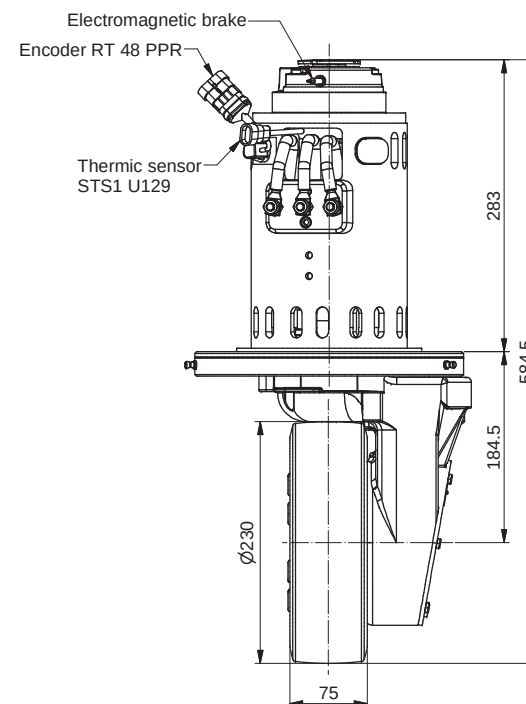
WITH STEERING SYSTEM

MRT90

Vertical Drive Wheel



WITHOUT STEERING



TRACTION MOTOR DATA

Type	AC / DC / PMAC
Power	[W] 500 - 1500
Battery voltage	[V] 24 - 144
Max speed	[Rpm] 3300
Enclosure	IP 20 - 65
Brake torque	[Nm] 8 - 16

GEARBOX DATA

Ratio	[i]	1:23,3	1:28,9
Max output	[Nm]	365	
Lubrication		Oil	
Tire size	[mm]	230x75	

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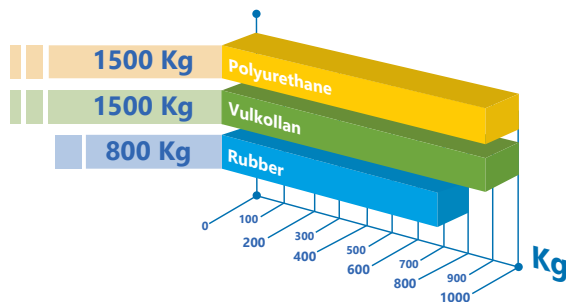
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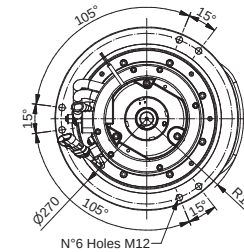
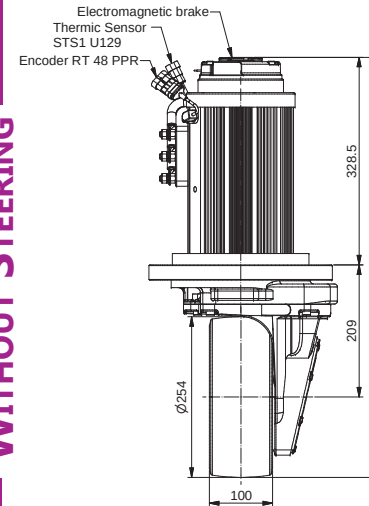
All data in this catalog are indicative.
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MRT97

Vertical Drive Wheel

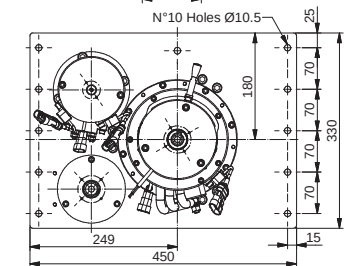
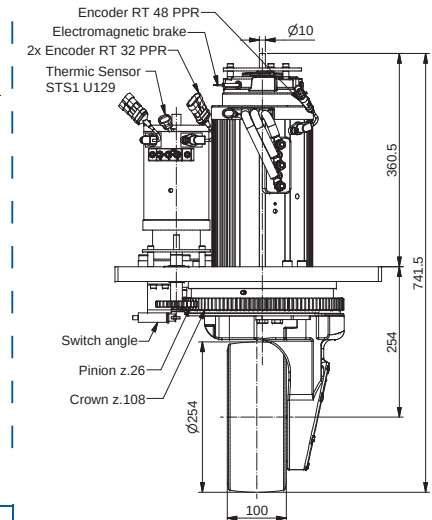


WITHOUT STEERING



TRACTION MOTOR DATA		
Type	AC / DC / PMAC	
Power	[W]	1000 - 3000
Battery voltage	[V]	24 - 144
Max speed	[Rpm]	3300
Enclosure	IP	20 - 65
Brake torque	[Nm]	16 - 32

GEARBOX DATA		
Ratio	[i]	1:13,8 1:16,1
		1:18,6 1:21,8
		1:25,6
Max output	[Nm]	750
Lubrication		Oil
Tire size	[mm]	254x100



STEERING MOTOR DATA		
Type	AC / DC / PMAC	
Power	[W]	400 - 600
Battery voltage	[V]	24 - 144
Speed	[Rpm]	3000
Enclosure	IP	20 - 65
Gear ratio	[i]	1:45,56

WITH STEERING SYSTEM

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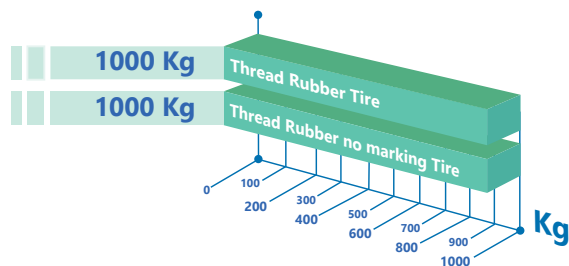
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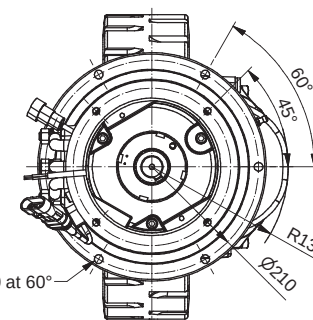
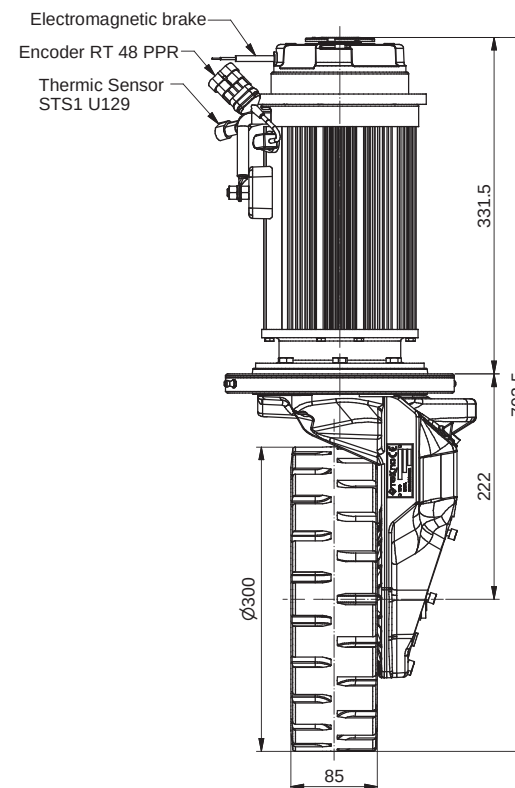
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MRT130

Vertical Drive Wheel



WITHOUT STEERING



N°6 Holes M10 at 60°

TRACTION MOTOR DATA

Type	AC / DC / PMAC
Power	[W] 1000 - 2300
Battery voltage	[V] 24 - 144
Max speed	[Rpm] 3300
Enclosure	IP 20 - 65
Brake torque	[Nm] 8 - 16

GEARBOX DATA

Ratio	[i]	1:16,5	1:25,4
		1:28,4	
Max output	[Nm]	88	
Lubrication	-	Oil	
Tire size	[mm]	300x85	

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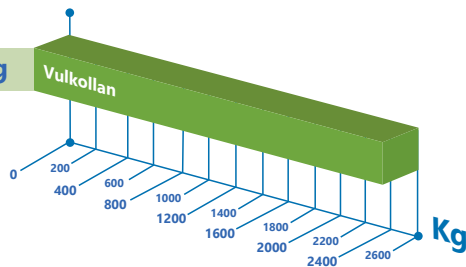
MRT98

Vertical Drive Wheel

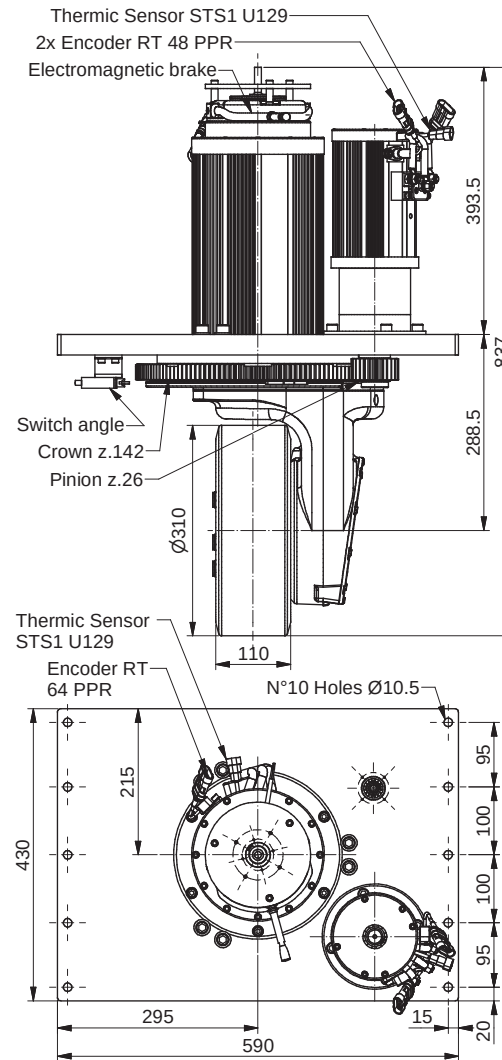


2600 Kg

Vulkollan



WITH STEERING SYSTEM



TRACTION MOTOR DATA

Type	AC / DC / PMAC
Power	[W] 2000 - 6000
Battery voltage	[V] 24 - 144
Max speed	[Rpm] 3300
Enclosure	IP 20 - 65
Brake torque	[Nm] 32 - 60

STEERING MOTOR DATA

Type	AC / DC / PMAC
Power	[W] 400 - 800
Battery voltage	[V] 24 - 144
Speed	[Rpm] 3000
Enclosure	IP 20 - 65
Gear ratio	[i] 1:45,56

GEARBOX DATA

Ratio	[i]	1:17,2	1:20,3
Max output	[Nm]	1400	
Lubrication	-	Oil	
Tire size	[mm]	310x110	

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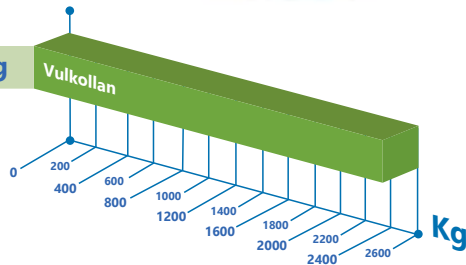
MRT99

Vertical Drive Wheel

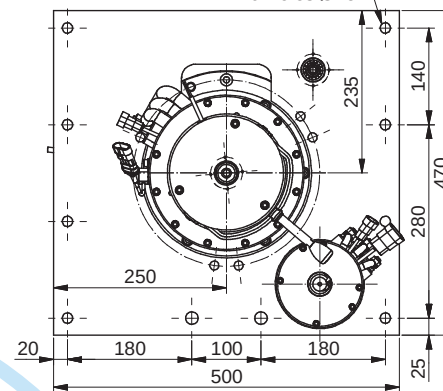
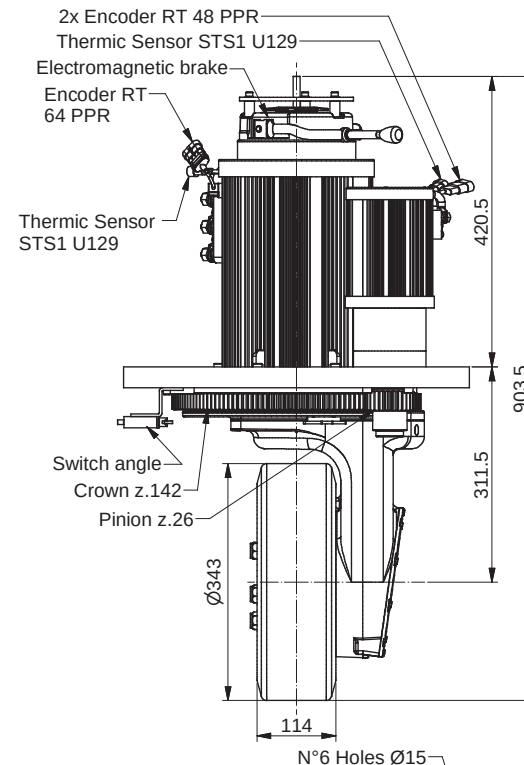


2600 Kg

Vulkollan



WITH STEERING SYSTEM



TRACTION MOTOR DATA

Type	AC / DC / PMAC
Power	[W] 4000 - 6000
Battery voltage	[V] 24 - 144
Max speed	[Rpm] 3300
Enclosure	IP 20 - 65
Brake torque	[Nm] 32 - 60

STEERING MOTOR DATA

Type	AC / DC / PMAC
Power	[W] 400 - 800
Battery voltage	[V] 24 - 144
Speed	[Rpm] 3000
Enclosure	IP 20 - 65
Gear ratio	[i] 1:45,56

GEARBOX DATA

Ratio	[i]	1:17,2	1:20,3
		1:25,6	
Max output	[Nm]	1400	
Lubrication		Oil	
Tire size	[mm]	343x114	

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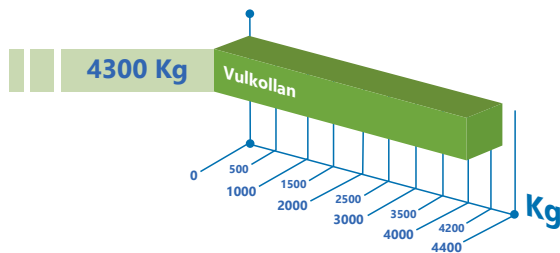
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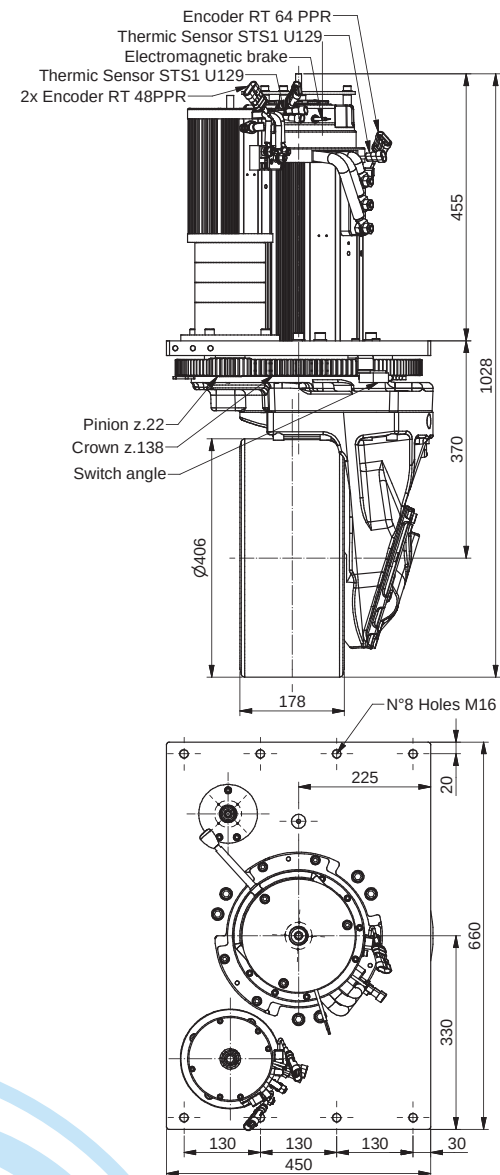
All data in this catalog are indicative.
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MRT44

Vertical Drive Wheel



WITH STEERING SYSTEM



TRACTION MOTOR DATA

Type	AC / DC / PMAC
Power	[W] 4000 - 10000
Battery voltage	[V] 24 - 144
Max speed	[Rpm] 3300
Enclosure	IP 20 - 65
Brake torque	[Nm] 60 - 100

STEERING MOTOR DATA

Type	AC / DC / PMAC
Power	[W] 800 - 1400
Battery voltage	[V] 24 - 144
Speed	[Rpm] 3000
Enclosure	IP 20 - 65
Gear ratio	[i] 1:45,56 - 1:51

GEARBOX DATA

Ratio	[i]	1:20	1:24,4
Max output	[Nm]	2600	
Lubrication	-	Oil	
Tire size	[mm]	406x178	

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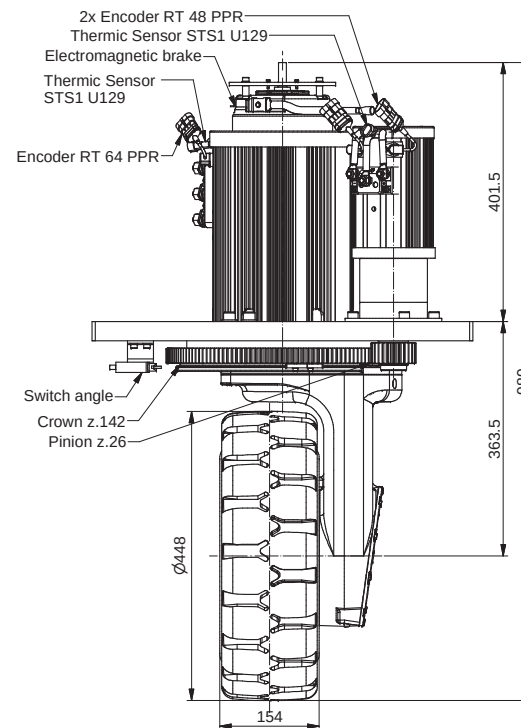
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MRT100

Vertical Drive Wheel



WITH STEERING SYSTEM



TRACTION MOTOR DATA

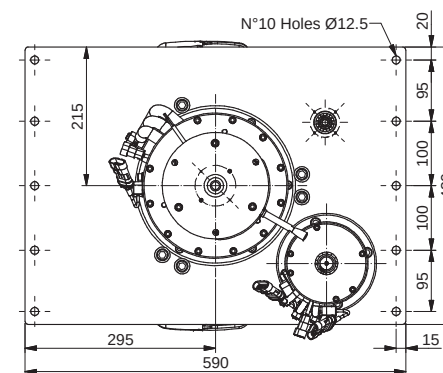
Type	AC / DC / PMAC
Power	[W] 4000 - 6000
Battery voltage	[V] 24 - 144
Max speed	[Rpm] 3300
Enclosure	IP 20 - 65
Brake torque	[Nm] 32 - 80

STEERING MOTOR DATA

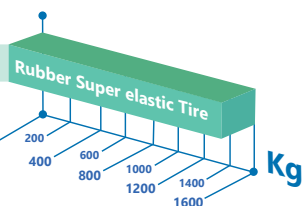
Type	AC / DC / PMAC
Power	[W] 800 - 1200
Battery voltage	[V] 24 - 144
Speed	[Rpm] 3000
Enclosure	IP 20 - 65
Gear ratio	[i] 1:45,56

GEARBOX DATA

Ratio	[i]	1:17	1:20,3
		1:25,6	
Max output	[Nm]	1400	
Lubrication	-	Oil	
Tire size	[mm]	448x154	



1600 Kg



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