



C.F.R. SRL

Since 1979

HORIZONTAL DRIVE WHEEL
VERTICAL DRIVE WHEEL









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COMPANY



INTRODUCTION

C.F.R., founded 1979, in Modena (Italy) designs, manufactures and sells DC motors, AC 3-phase asynchronous motors, PMAC synchronous motors, electro hydraulic pumps, motor in wheel units and gear motors all over the world.

C.F.R. continues to bring excellent products, technological innovation and easy of customizing to the motor market.

The factory, is 11000 sq. meter, and employs 110 people.
The core to C.F.R. growth is the constant dedication to the pursuit of full customers satisfaction. We have a strong presence in domestic and international markets, as well as, great production flexibility. C.F.R. has come to be recognized as one of the biggest suppliers for the battery-operated vehicles.

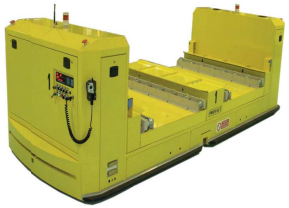
In 1995, C.F.R. made the strategic decision to purchase the society TVM, which even today is providing all the mechanical parts for production.
Continued investment in the most modern machinery has further increased and developed the quality and flexibility of each product.
Today, C.F.R. can quickly design and produce motors and special parts request from customers.

C.F.R. products are sold in 28 countries and are used in a myriad of applications, including but not limited to: Forklifts, AGV, Aerial Platforms, Airport Machines, Agricultural Machines, Hydraulic Applications, Floor Scrubbers, Sweepers, Wind Energy, Marine, and in the field of Medical Devices.

YOUR PARTNER FOR MOBILE APPLICATIONS



Electric tow tractor



AGV - LGV



Material Handling



YOUR PARTNER FOR MOBILE APPLICATIONS



Ground support equipment

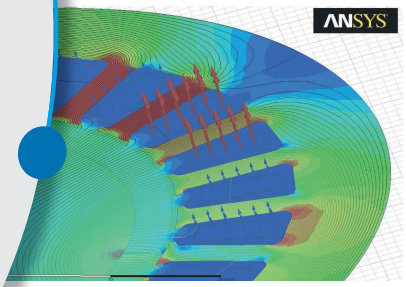


Agricolture



Building

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 optimazed 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



TÜV InterCert SAAR

CERTIFICATE

Certificato n. / Certificate No. 13-Q-0200579-TIC

SI CERTIFICA CHE IL SISTEMA DI GESTIONE PER LA QUALITA' DI
WE HEREBY CERTIFY THAT THE QUALITY MANAGEMENT SYSTEM
OPERATED BY

C.F.R. S.r.l.
Via Raimondo dalla Costa 625
41122 Modena MO ITALY

E' CONFORME AI REQUISITI DELLA NORMA
IS IN COMPLIANCE WITH THE REQUIREMENTS OF STANDARD

ISO 9001:2015

QUESTO CERTIFICATO E' VALIDO PER LE SEGUENTI ATTIVITA'
THIS CERTIFICATE IS VALID FOR THE FOLLOWING ACTIVITIES

Progettazione e produzione di motori elettrici in corrente continua, motori asincroni trifase, motori brushless, motoriduttori, elettromotoruote ed elettropompe

Design and manufacture of DC motors, AC 3 phase asynchronous motors, brushless motors, gearmotors, motor in wheel units and electro-hydraulic pumps

MEDIANTE UN AUDIT, RAPPORTO n. / AN AUDIT WAS PERFORMED, REPORT No. RR-0916-Q-TIC-MS-0200579-13

Data di prima emissione / First issuing 11.10.2013 — Data di scadenza / Expiring date 10.10.2019

IAF DAkkS

Bonn 11.10.2016

Dipl.- Ing. K. Lindenblatt
TÜV InterCert Certification Body

TÜV InterCert GmbH - Group of TÜV Saarland - Am Bonner Bogen 2 - 53227 Bonn GERMANY

PRODUCTS CERTIFICATIONS

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

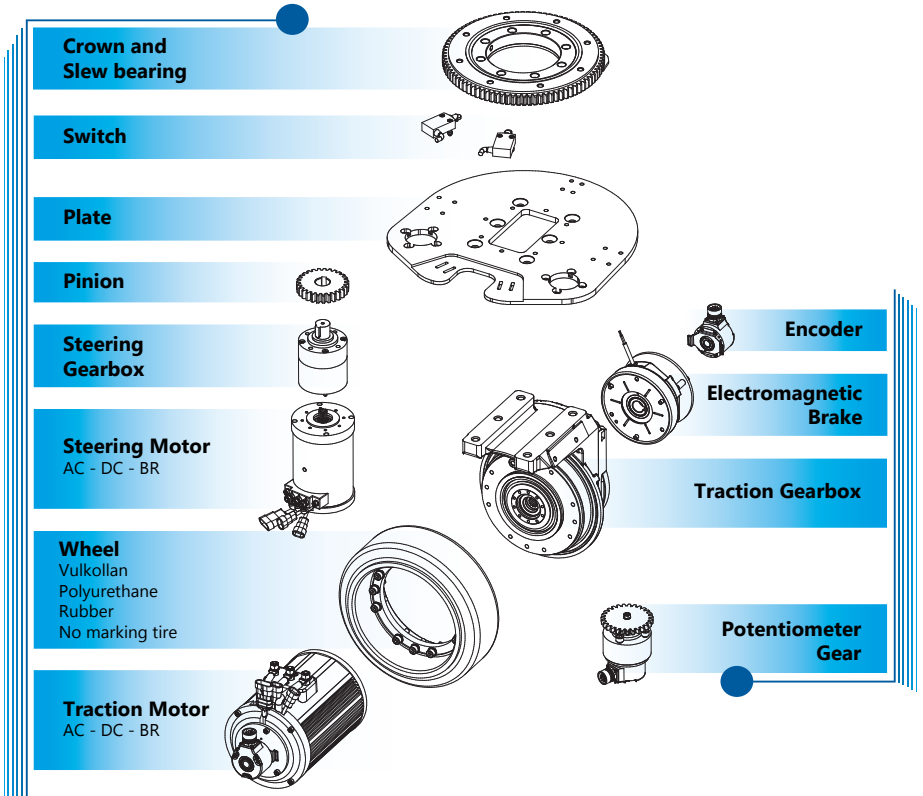
Every DC/AC motor assembled in C.F.R. conforms to the directives:

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:

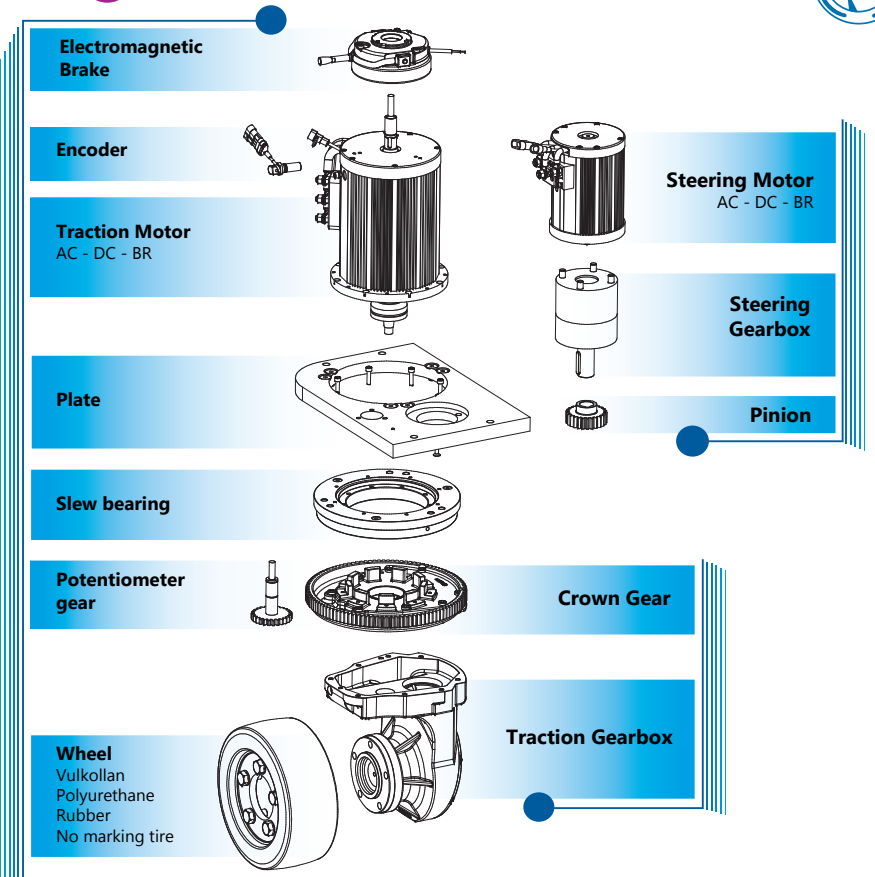
CEI EN 60034-1 Rating and operation;
CEI EN 60034-5 Degree of protection of rotating electrical machines (project basis);
CEI EN 60034-7 Classification types of construction, installation types, location of the terminal.

Horizontal Drive Wheel



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

Vertical Drive Wheel

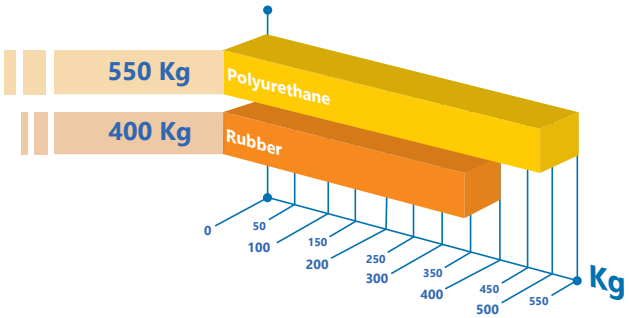


		MRT23	MRT90	MRT97	MRT130	MRT98	MRT99	MRT44	MRT100
Nominal motor power	[W]	500-2000	500-1500	1000-3000	1000-2300	2000-6000	4000-6000	4000-10000	4000-6000
Max wheel load	[Kg]	1000	1000	1500	1000	2600	2600	4300	1650
Max wheel torque	[Nm]	500	365	750	500	1400	1400	2600	1400
Nominal wheel torque	[Nm]	170	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
Lubrification	oil	●	●	●	●	●	●	●	●
	grease								
Available Gearbox	[i]	1:27,8	1:23,3	1:13,8	1:11	1:17,2	1:17,2	1:20	1:17
Ratio			1:28,9	1:16,1	1:16,5	1:20,3	1:20,3	1:24,4	1:20,3
				1:18,9	1:25,4	1:25,6	1:25,6		1:25,6
				1:21,8	1:28,4				
				1:25,6					

MRT05

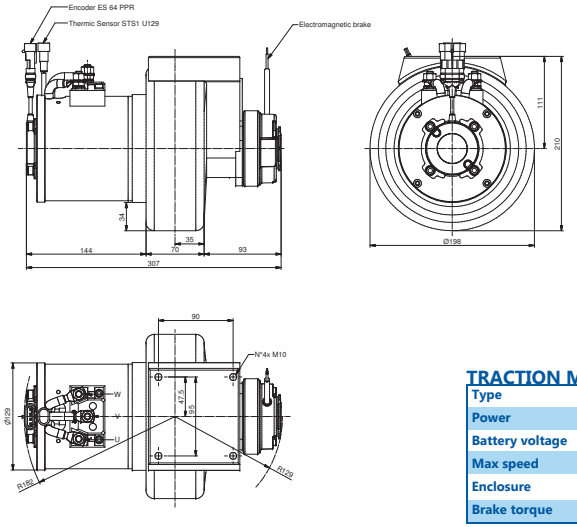
Horizontal Drive Wheel





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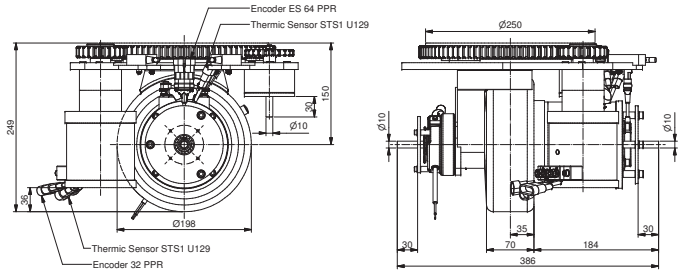
Without Steering

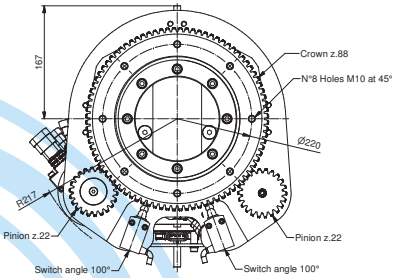


TRACTION MOTOR DATA

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

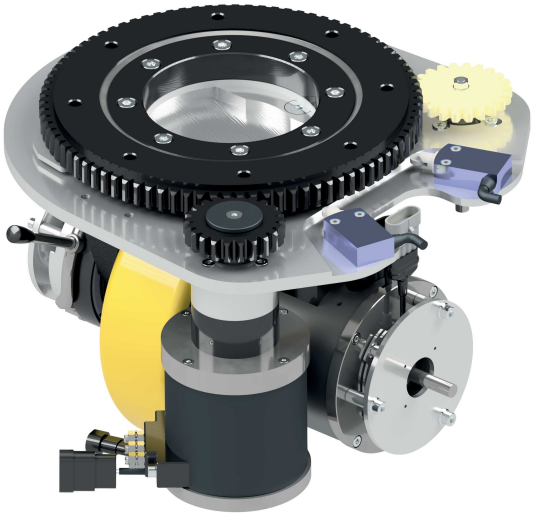
GEARBOX DATA

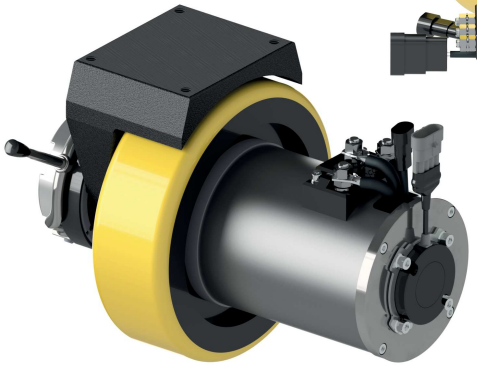
Ratio	[i]	1:21	1:30,9
Max output	[Nm]	180	
Lubrification	-	Grease	
Tire size	[mm]	198x70	

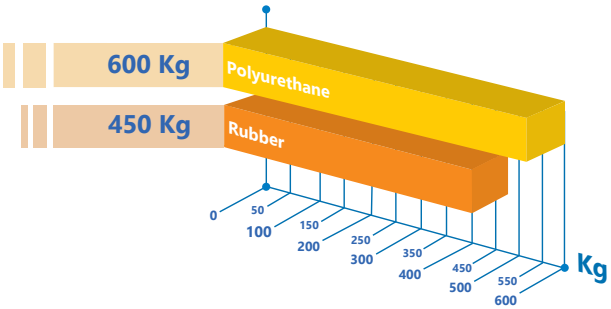
All data in this catalog are indicative.
For detailed information, please contact us.

MRT10

Horizontal Drive Wheel

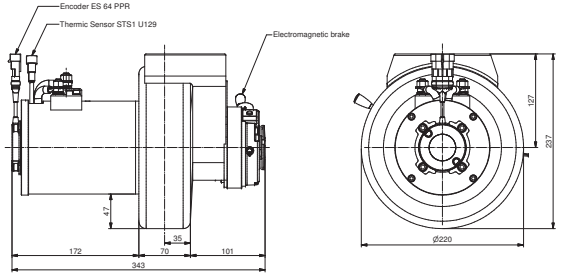


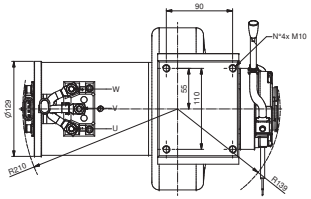




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Without Steering

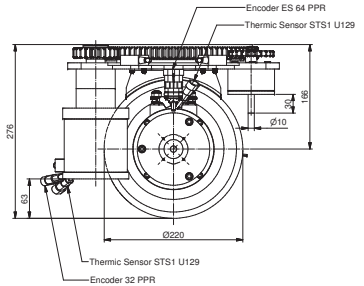


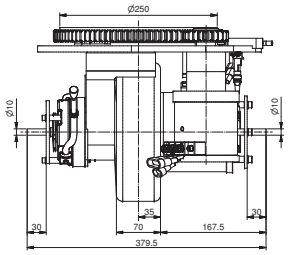


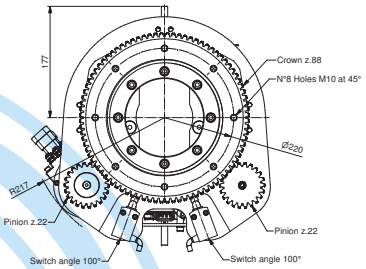
TRACTION MOTOR DATA

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

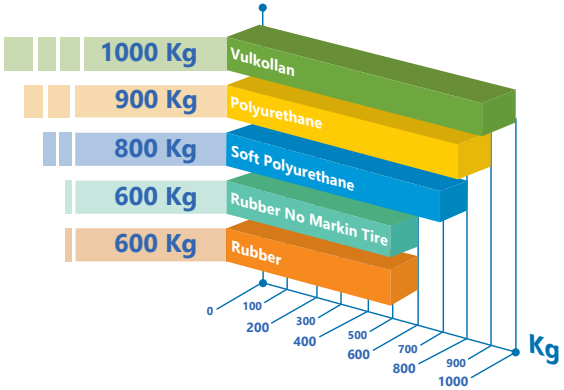
Ratio	[i]	1:20,8	1:32,7
Max output	[Nm]	230	
Lubrification	-	Grease	
Tire size	[mm]	220x70	

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

MRT18

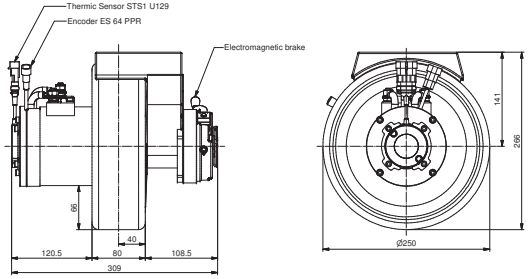
Horizontal Drive Wheel

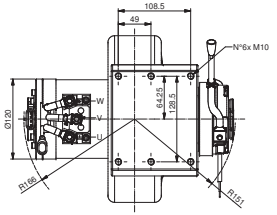




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Without Steering

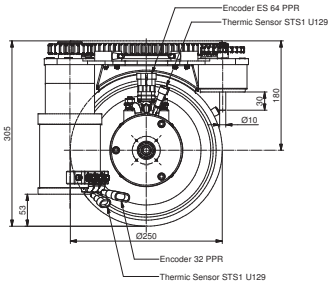


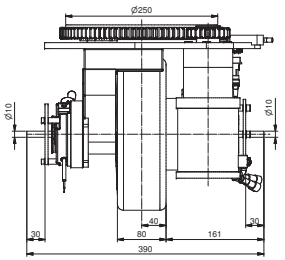


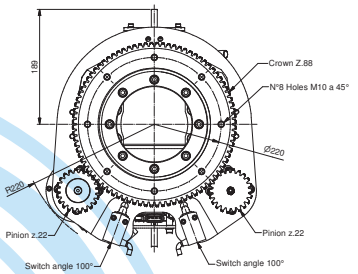
TRACTION MOTOR DATA

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

With Steering System







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

GEARBOX DATA

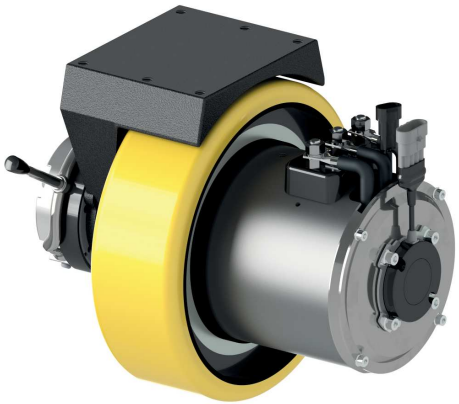
Ratio	[i]	1:20,1	1:28,3
		1:34.6	
Max output	[Nm]	280	
Lubrification	-	Grease	
Tire size	[mm]	250x80	

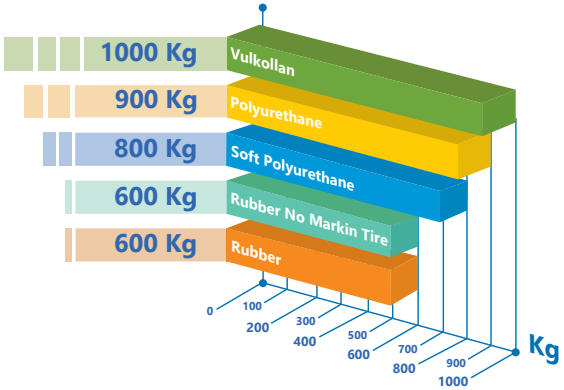
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MRT20

Horizontal Drive Wheel

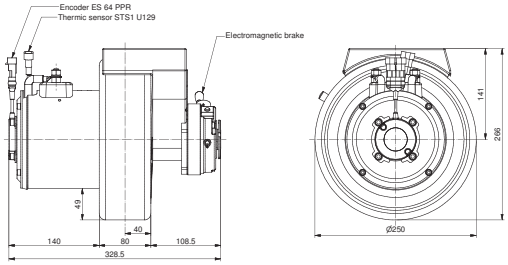


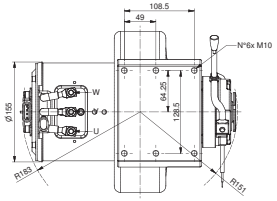




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Without Steering

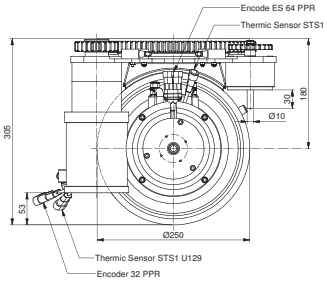


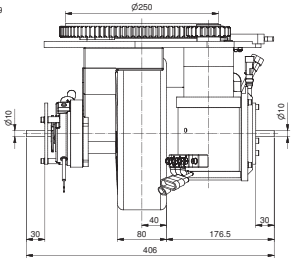


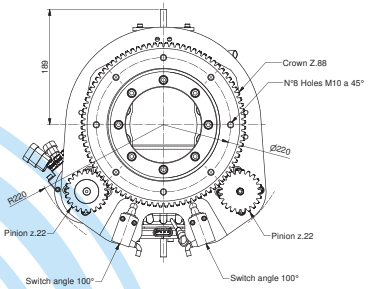
TRACTION MOTOR DATA

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

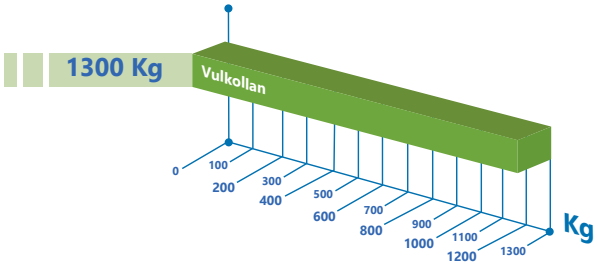
Ratio	[i]	1:20,1	1:28,3
		1:34.6	
Max output	[Nm]	280	
Lubrification	-	Grease	
Tire size	[mm]	250x80	

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For detailed information, please contact us.

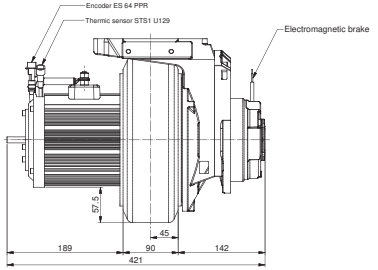
MRT27

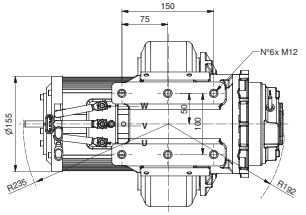
Horizontal Drive Wheel





Without Steering

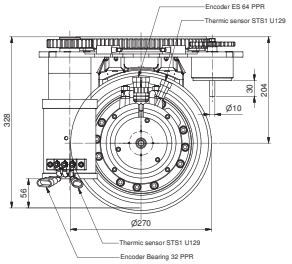


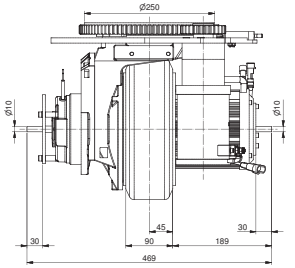


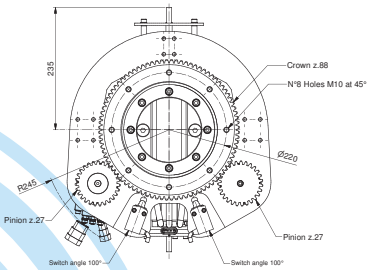
TRACTION MOTOR DATA

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

With Steering System







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

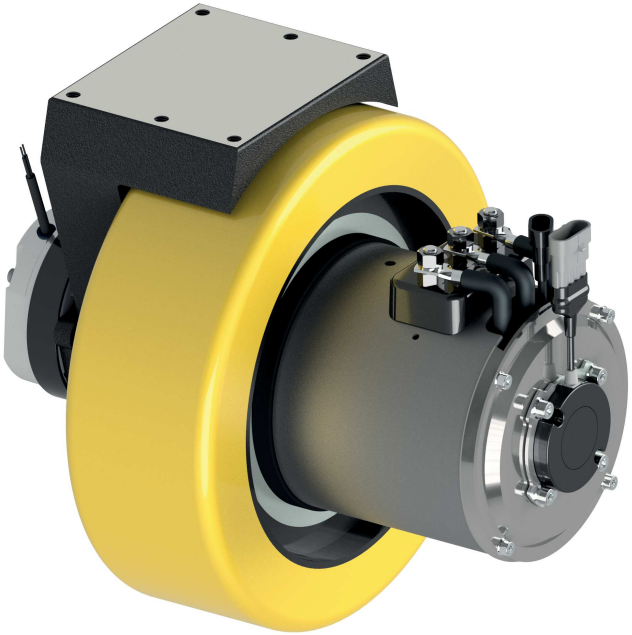
Ratio	[i]	1:22,9	1:28,2
Max output	[Nm]	500	
Lubrification	-	Grease	
Tire size	[mm]	270x90	

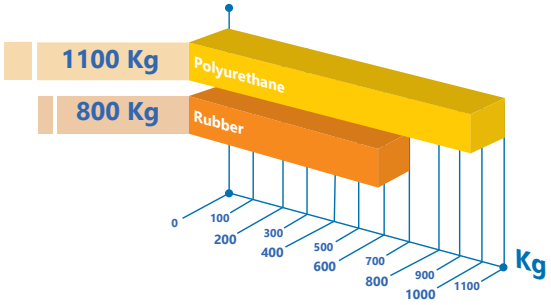
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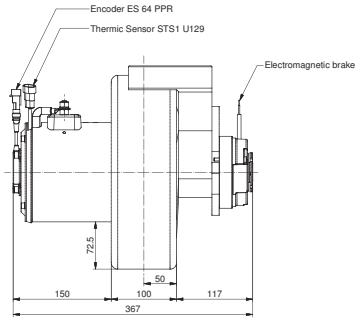
MRT30

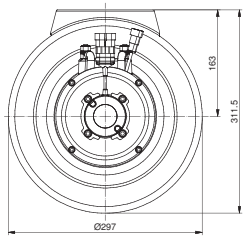
Horizontal Drive Wheel

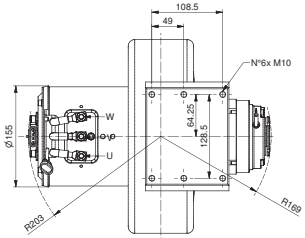




Without Steering







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	
Lubrification	-	Grease	
Tire size	[mm]	297x100	

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

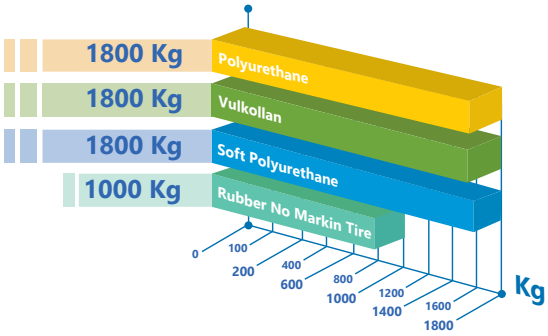
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MRT33

Horizontal Drive Wheel

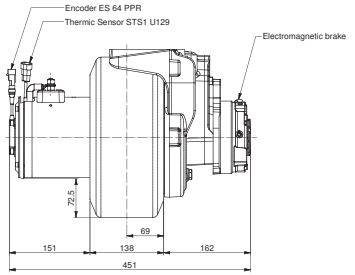


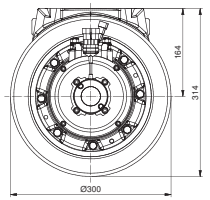


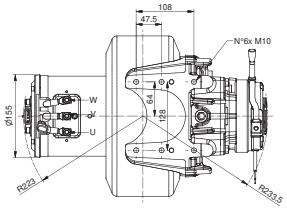


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Without Steering



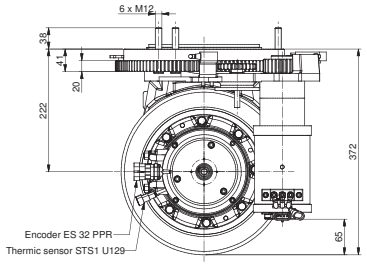


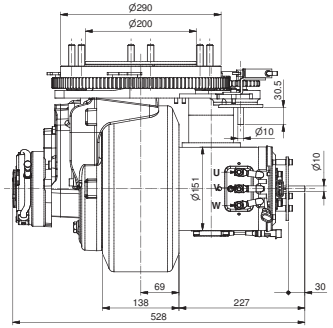


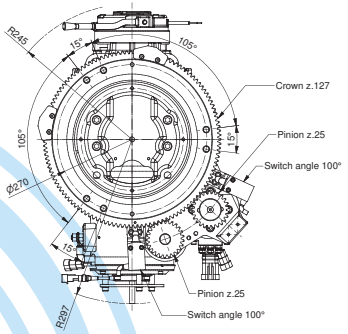
TRACTION MOTOR DATA

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

With Steering System







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

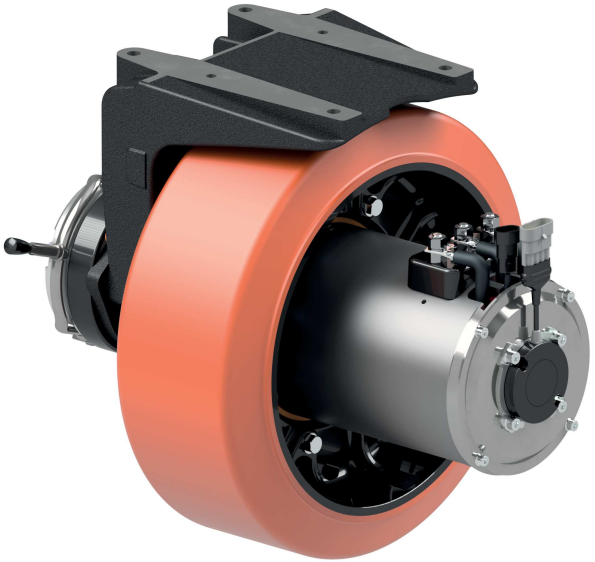
Ratio	[i]	1:29,3	
Max output	[Nm]	600	
Lubrification	-	Oil	
Tire size	[mm]	300x138	

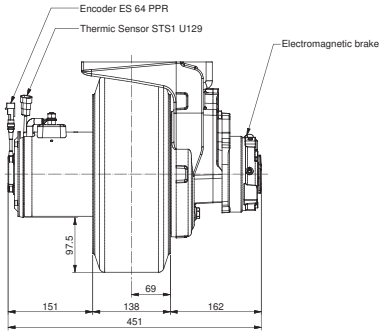
All data in this catalog are indicative.
For detailed information, please contact us.

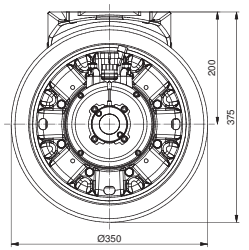
MRT35

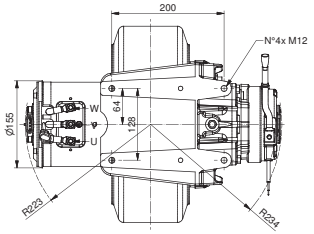
Horizontal Drive Wheel

Without Steering







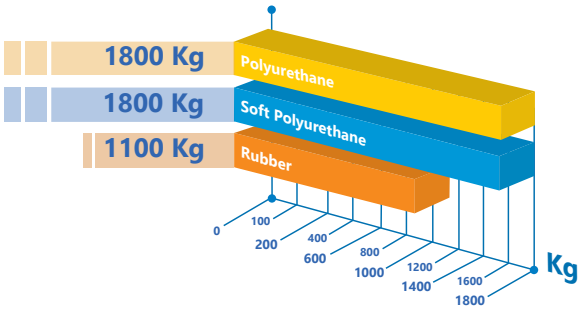


TRACTION MOTOR DATA

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	
Lubrification	-	Oil	
Tire size	[mm]	350x138	

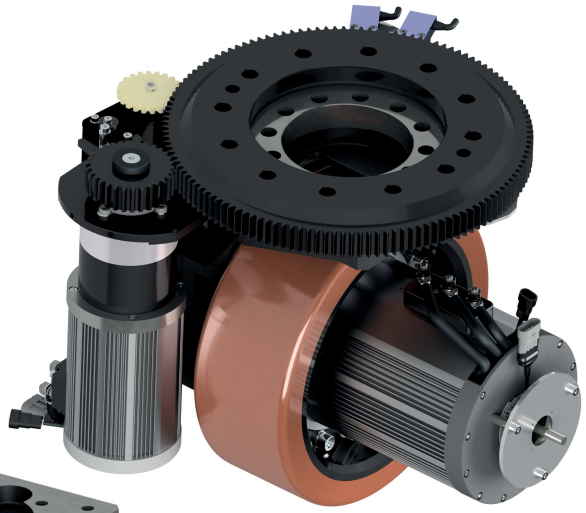


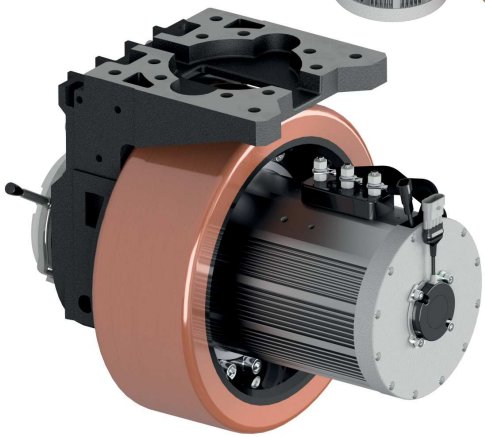
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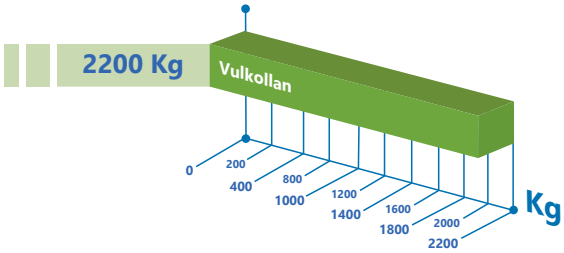
All data in this catalog are indicative.
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MRT36

Horizontal Drive Wheel

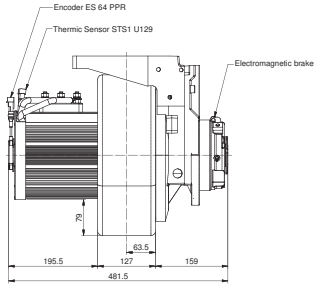


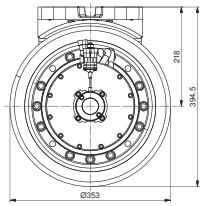


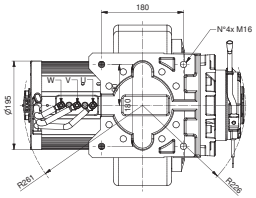


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Without Steering



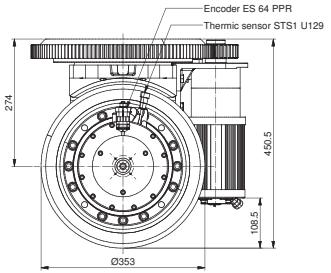


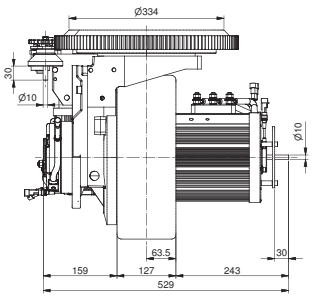


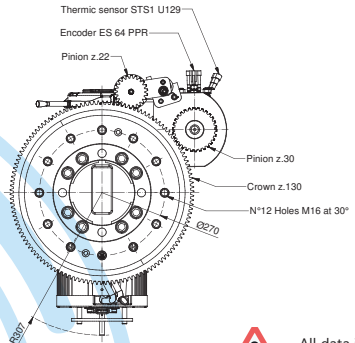
TRACTION MOTOR DATA

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

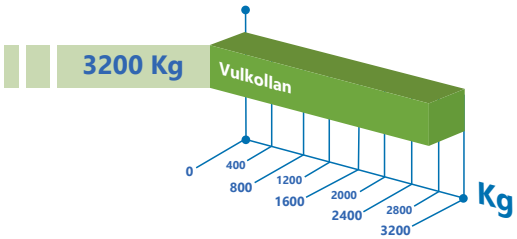
Ratio	[i]	1:24,7	1:34,5
Max output	[Nm]	1200	
Lubrification	-	Grease	
Tire size	[mm]	353x127	

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

MRT41

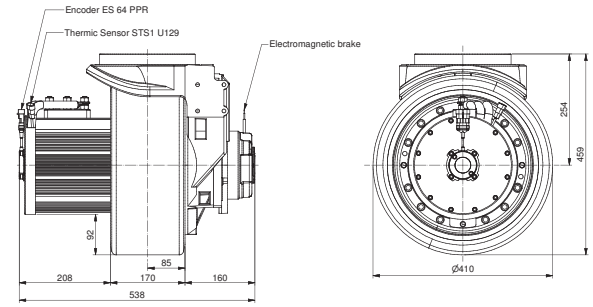
Horizontal Drive Wheel

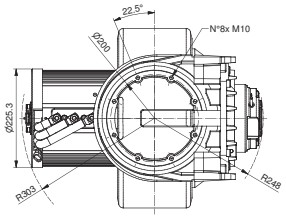




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Without Steering

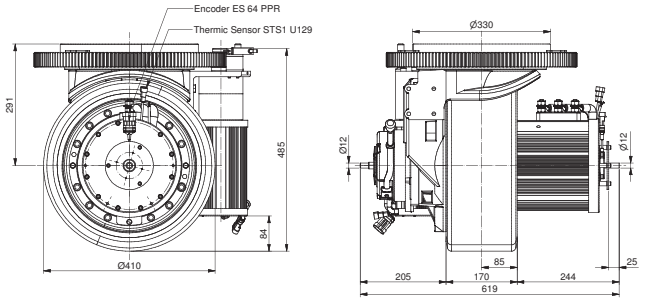


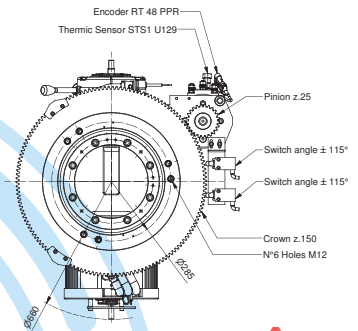


TRACTION MOTOR DATA

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

With Steering System





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	
Lubrification	-	Grease	
Tire size	[mm]	410x170	

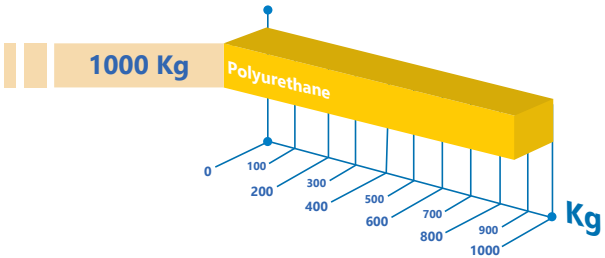
All data in this catalog are indicative.
For detailed information, please contact us.

MRT23

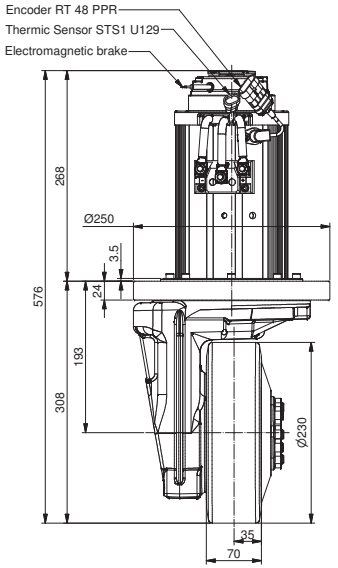
Vertical Drive Wheel

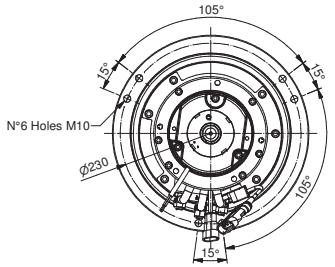






WITHOUT STEERING





TRACTION MOTOR DATA

Type	AC / DC / PMAC	
Power	[W]	500 - 2000
Battery voltage	[V]	24 - 144
Max speed	[Rpm]	3300
Enclosure	IP	20 - 65
Brake torque	[Nm]	8 - 16

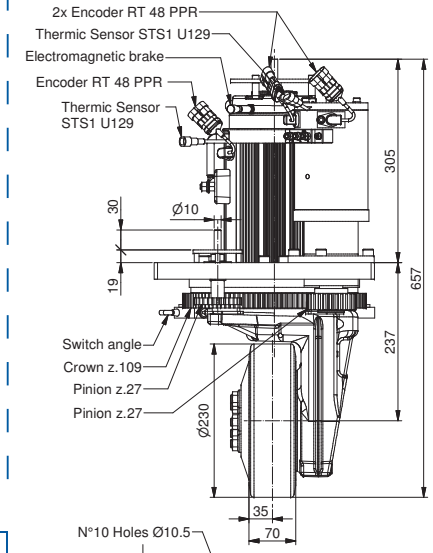
GEARBOX DATA

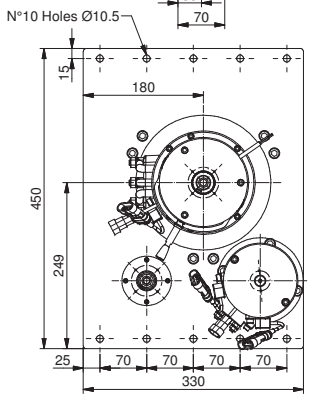
Ratio	[i]	1:27,8	
Max output	[Nm]	500	
Lubrification	-	Oil	
Tire size	[mm]	230x70	

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

WITH STEERING SYSTEM





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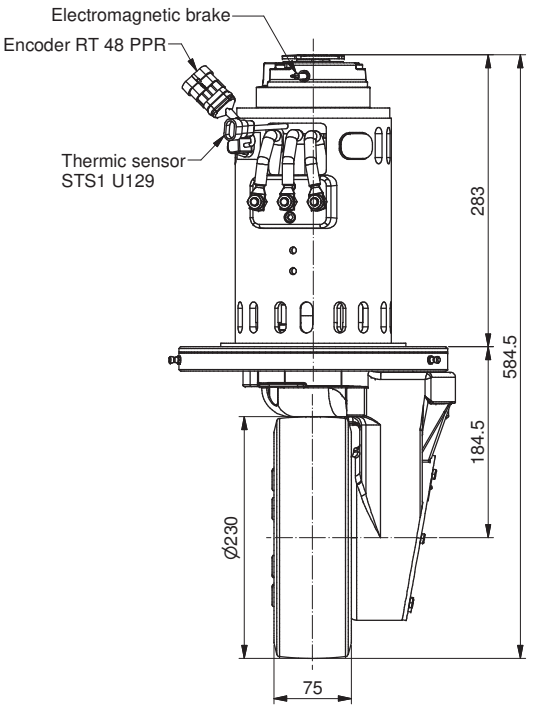
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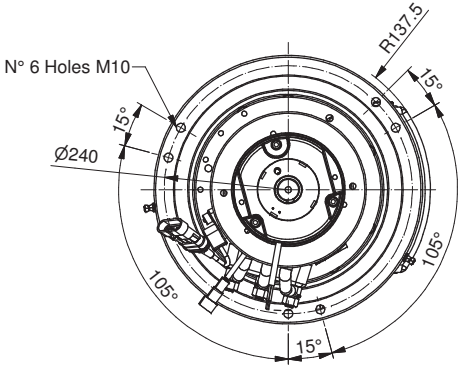
MRT90

Vertical Drive Wheel



Without Steering



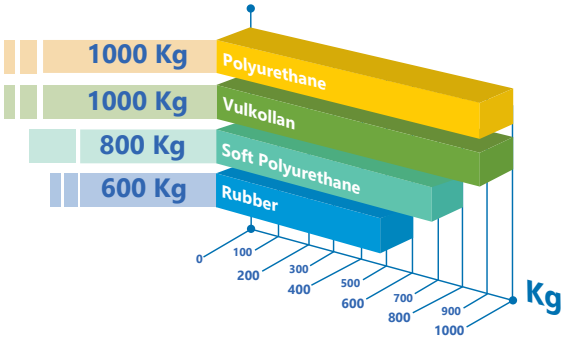


TRACTION MOTOR DATA

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	
Lubrification	-	Oil	
Tire size	[mm]	230x75	



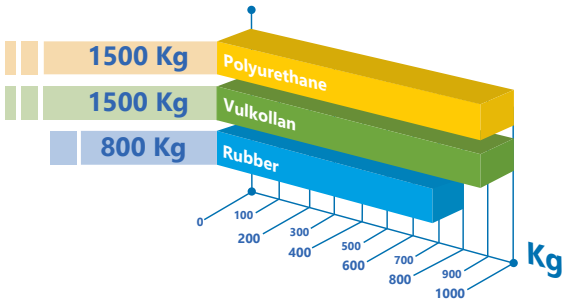
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MRT97

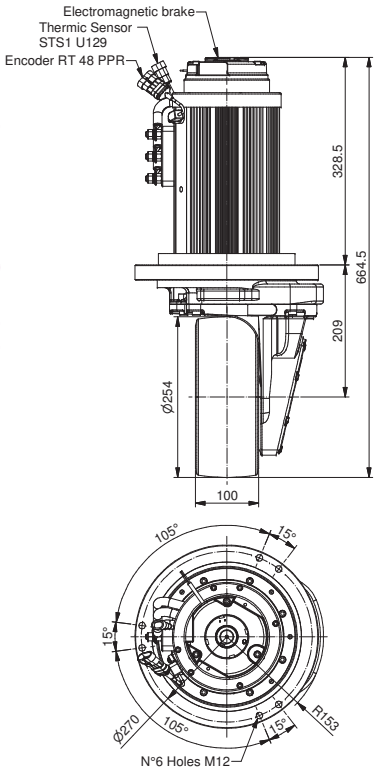
Vertical Drive Wheel





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Without Steering

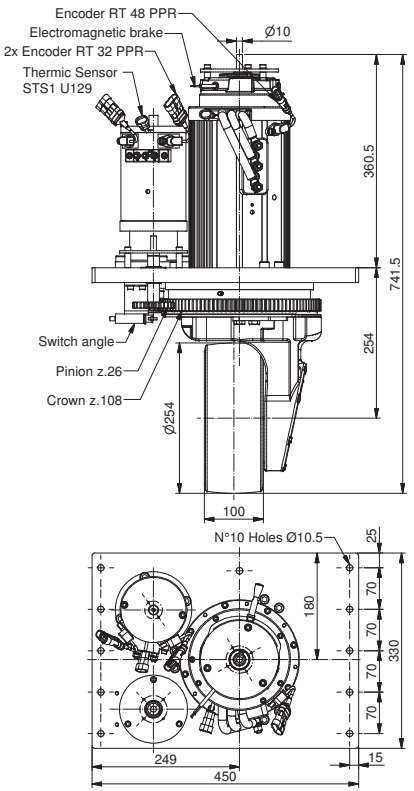


TRACTION MOTOR DATA

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	
Lubrification	-	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

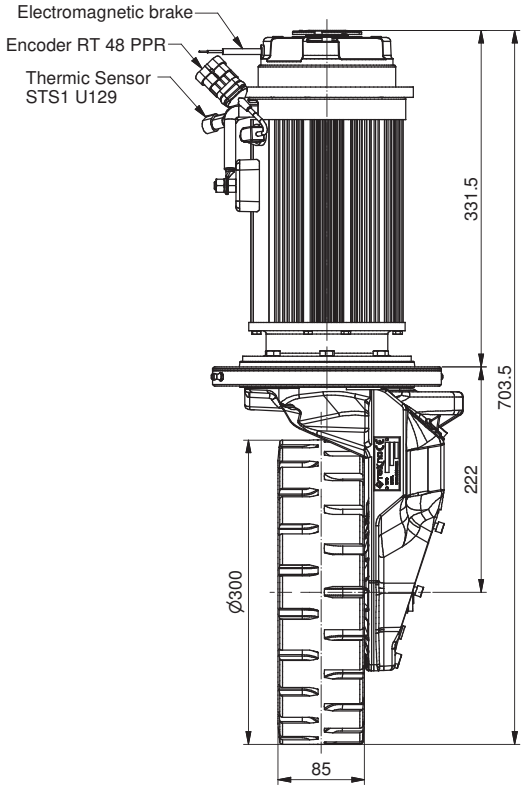
All data in this catalog are indicative.
For detailed information, please contact us.

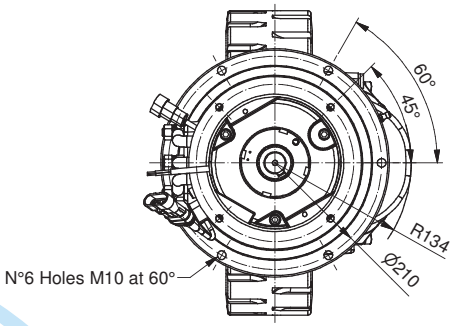
MRT130

Vertical Drive Wheel



WITHOUT STEERING



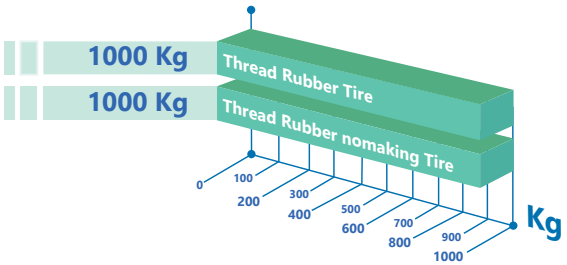


TRACTION MOTOR DATA

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	
Lubrification	-	Oil	
Tire size	[mm]	300x85	

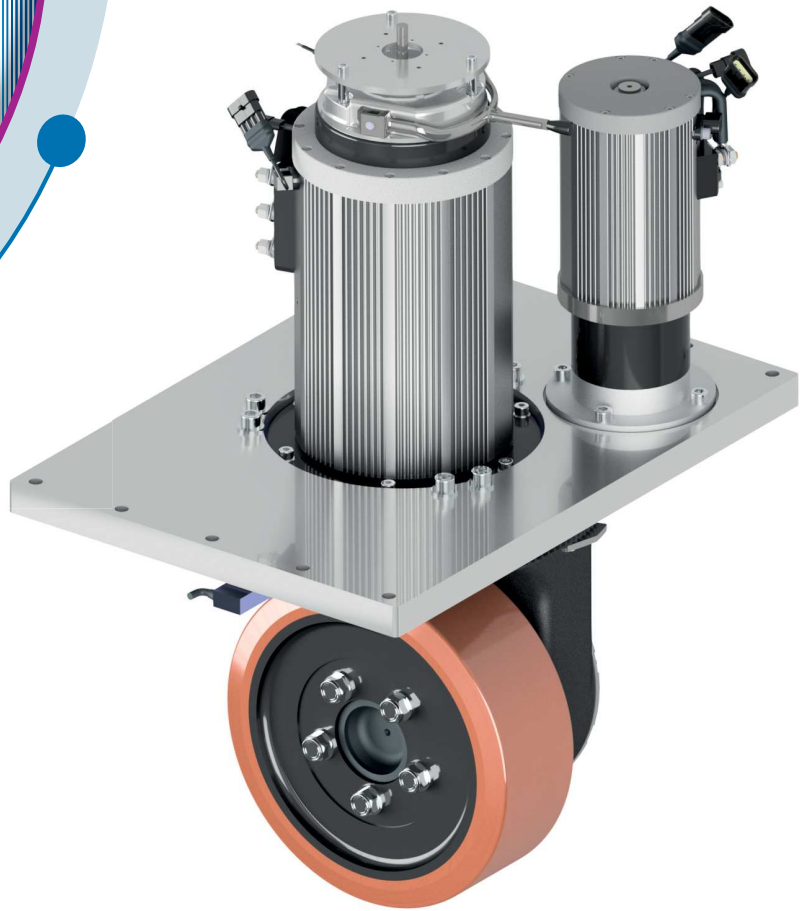


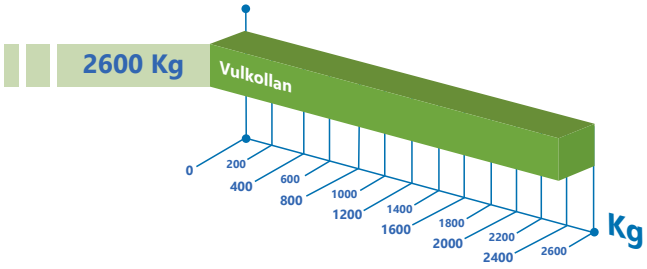
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All data in this catalog are indicative.
For detailed information, please contact us.

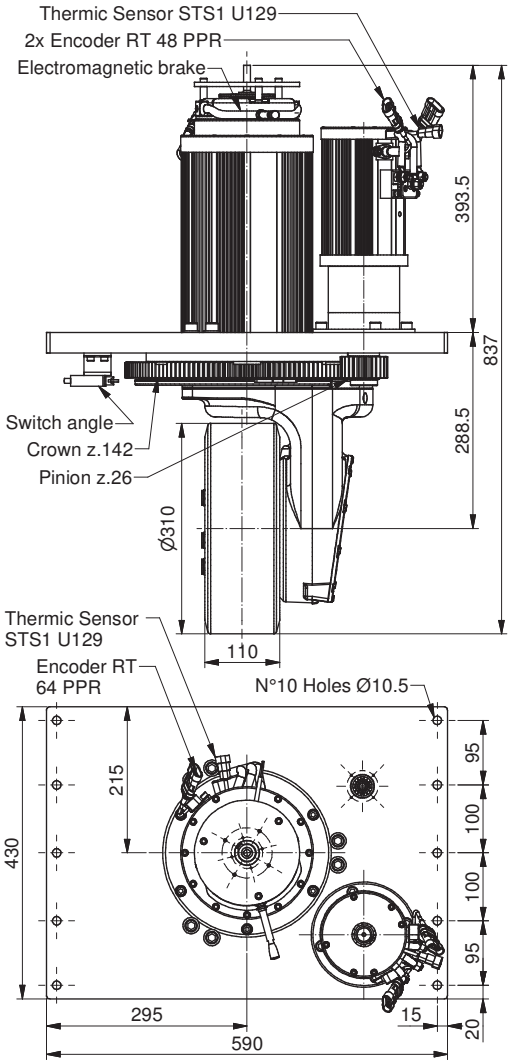
MRT98

Vertical Drive Wheel





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

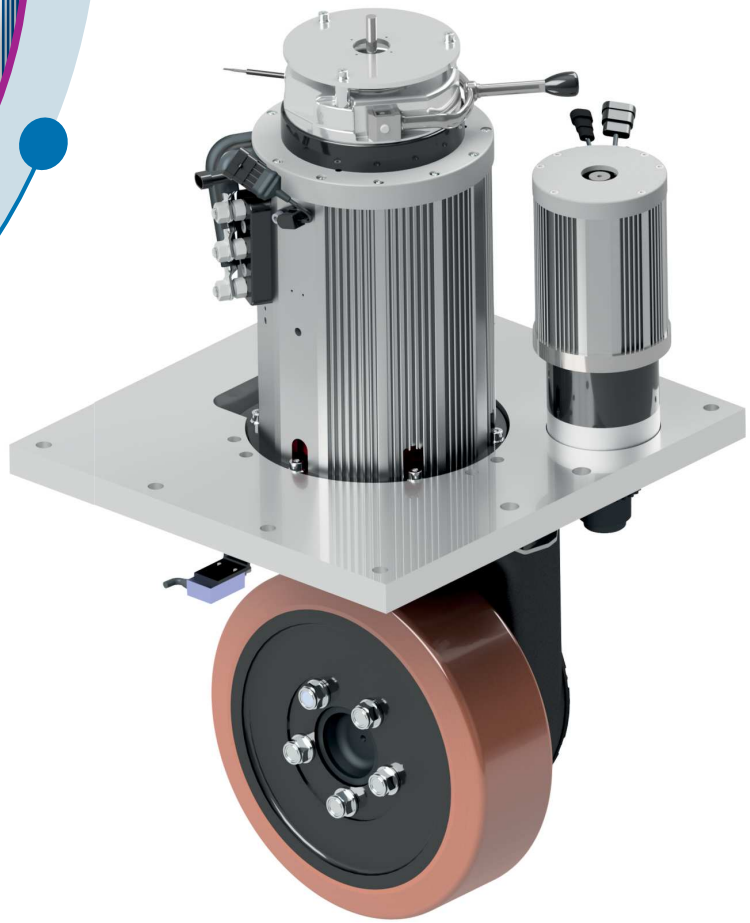
GEARBOX DATA

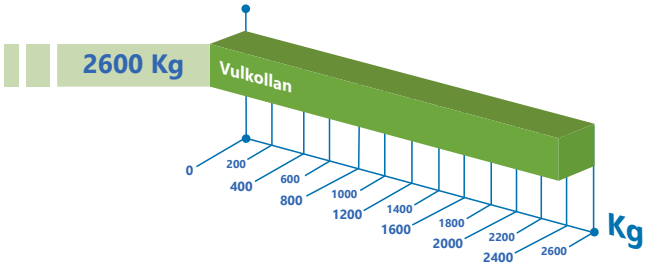
Ratio	[i]	1:17,2	1:20,3
		1:25,6	
Max output	[Nm]	1400	
Lubrification	-	Oil	
Tire size	[mm]	310x110	

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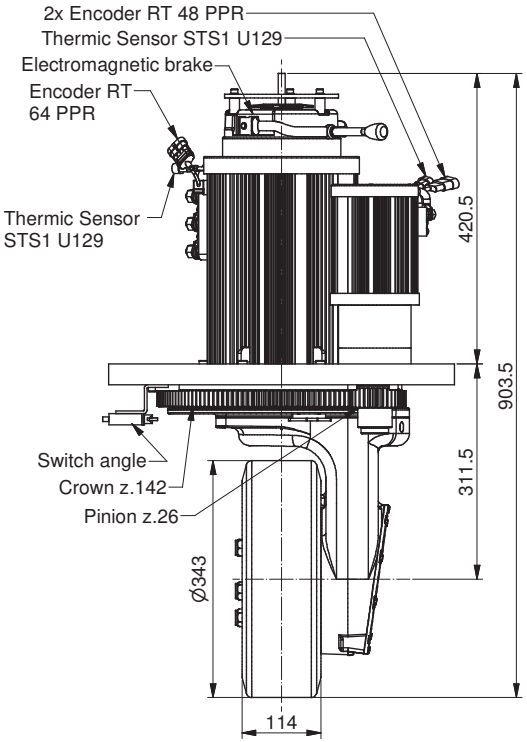
MRT99

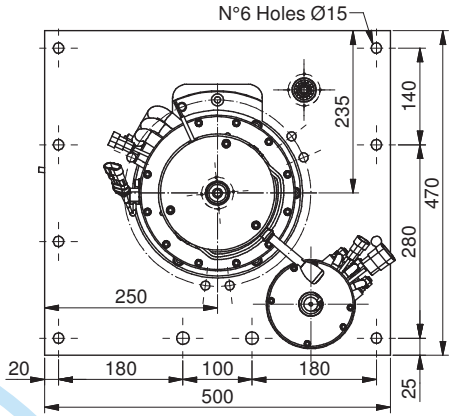
Vertical Drive Wheel





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 - 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

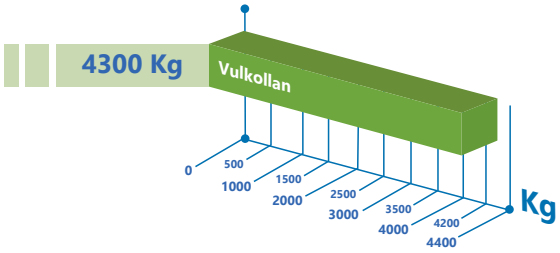
Ratio	[i]	1:17,2	1:20,3
		1:25,6	
Max output	[Nm]	1400	
Lubrification	-	Oil	
Tire size	[mm]	343x114	

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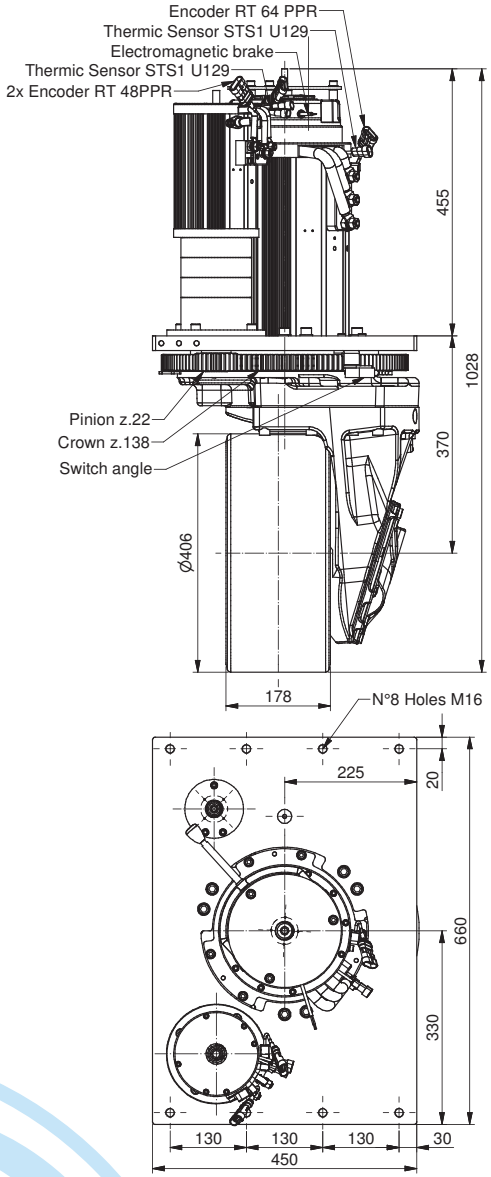
MRT44

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

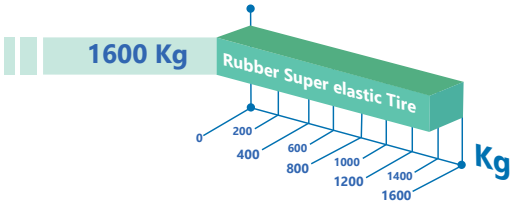
Ratio	[i]	1:20	1:24,4
Max output	[Nm]	2600	
Lubrification	-	Oil	
Tire size	[mm]	406x178	

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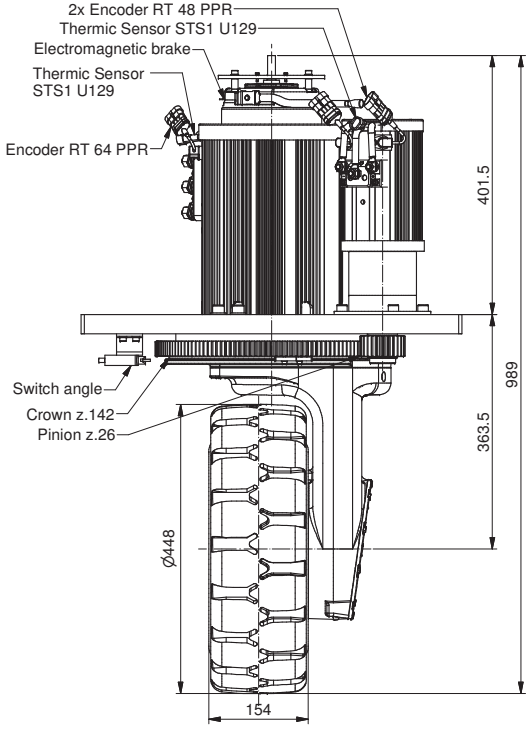
MRT100

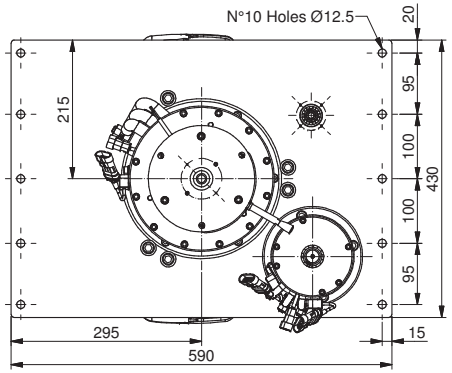
Vertical Drive Wheel





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	
Lubrification	-	Oil	
Tire size	[mm]	448x154	

C.F.R. SRL - Phone: +39 059 250837 -
Email: info@cfritaly.com - Website: www.cfritaly.com

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