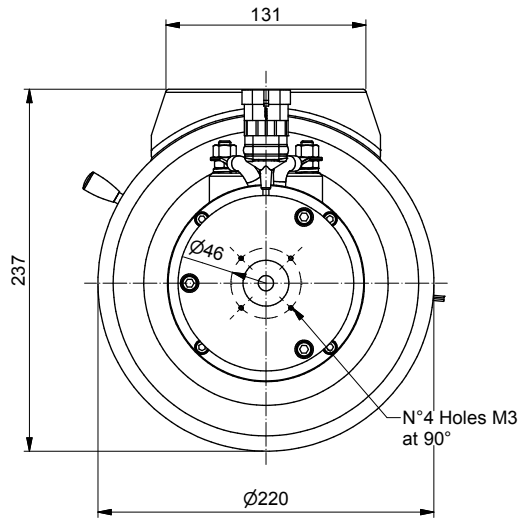
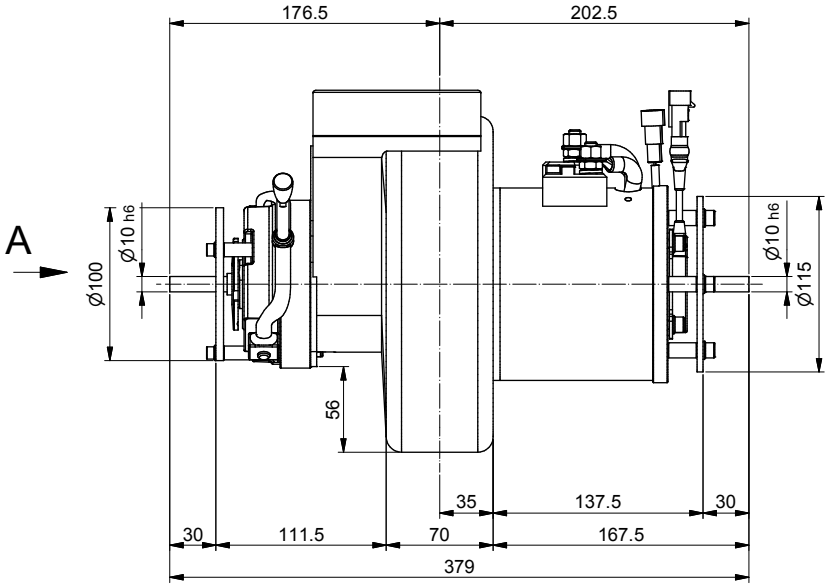
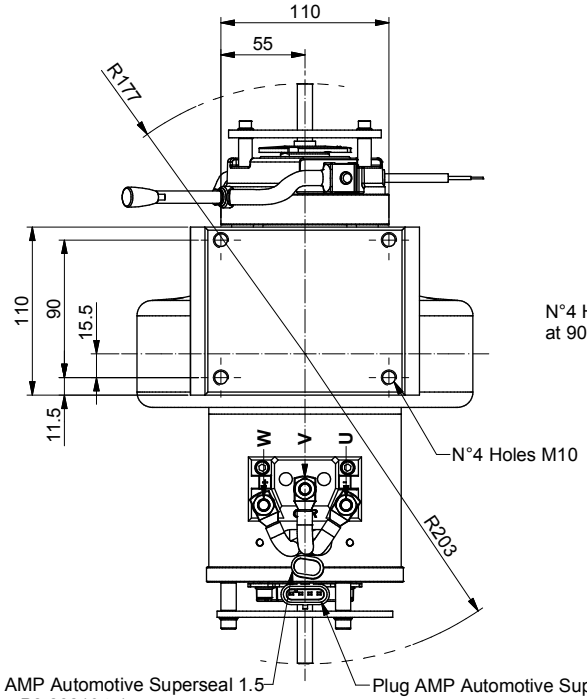
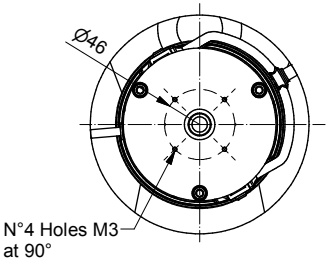
C.F.R. srl Modena - Italy	AC MOTOR IN WHEEL UNIT	CODE MRT10.A0100	Rev.: / Date:

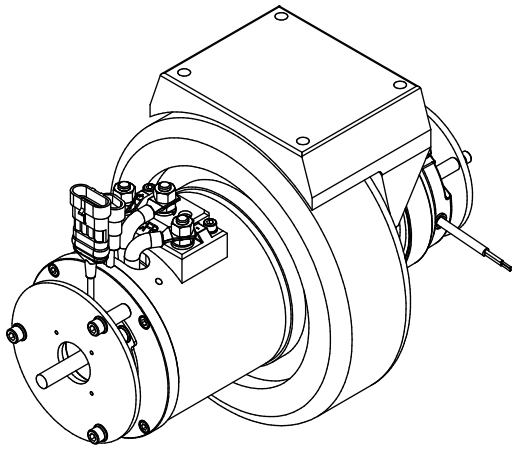






View A





Traction motor data		
Type : AC Asynchronous		
Power (S2 - 60 min)	W	500
Motor voltage (~3)	V	16
Battery voltage	V	24
Speed	Rpm	2850
Frequency	Hz	100
Current	A	28
Torque	Nm	1.67
Enclosure	IP	20

Traction gear data		
Gear ratio	i	1:32.6
Max accel. and braking torque	Nm	230
Nominal wheel torque	Nm	41
Max load on vulkollan wheel	Kg	
Max load on poliurethan wheel	Kg	600
Max load on solid rubber wheel	Kg	420
Brake torque	Nm	8
Lubrication		Grease

Total Weight	Kg	28

Plug AMP Automotive Superseal 1.5
Series P2 282104-1
Thermic sensor STS1 U129

Plug AMP Automotive Superseal 1.5
Series P4 282106-1
Encoder ES 64 PPR

Data : Date : 15/06/2018	Scala : Scale : 1 : 3.5	A3
Dis : Drawn : L.L.		

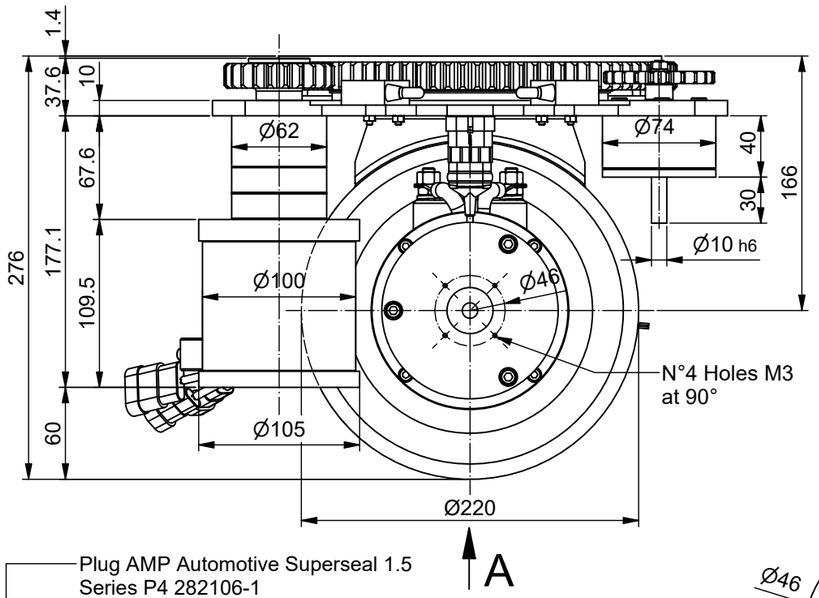
C.F.R. srl
Modena - Italy

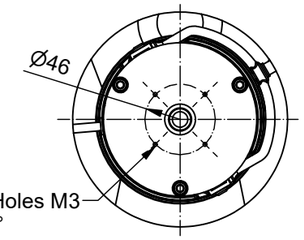
AC MOTOR IN WHEEL UNIT

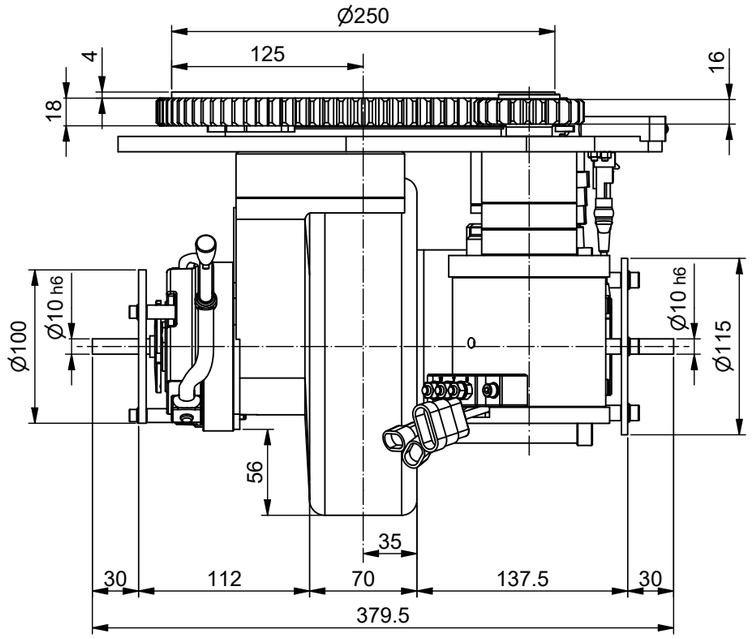
CODE MRT10.A0101

Rev.: C

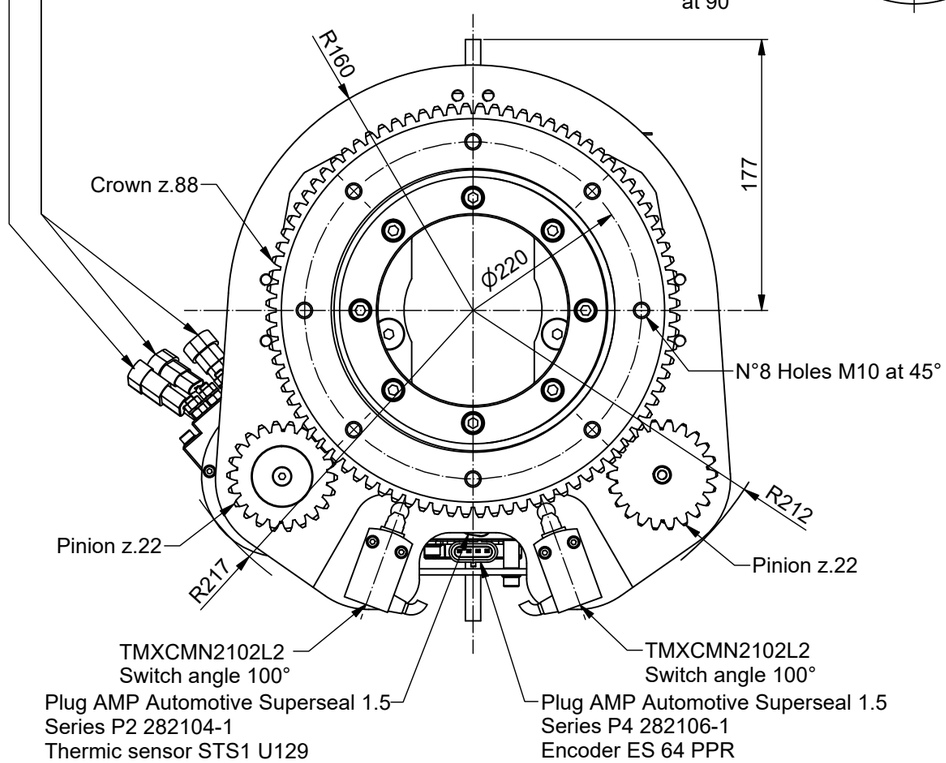
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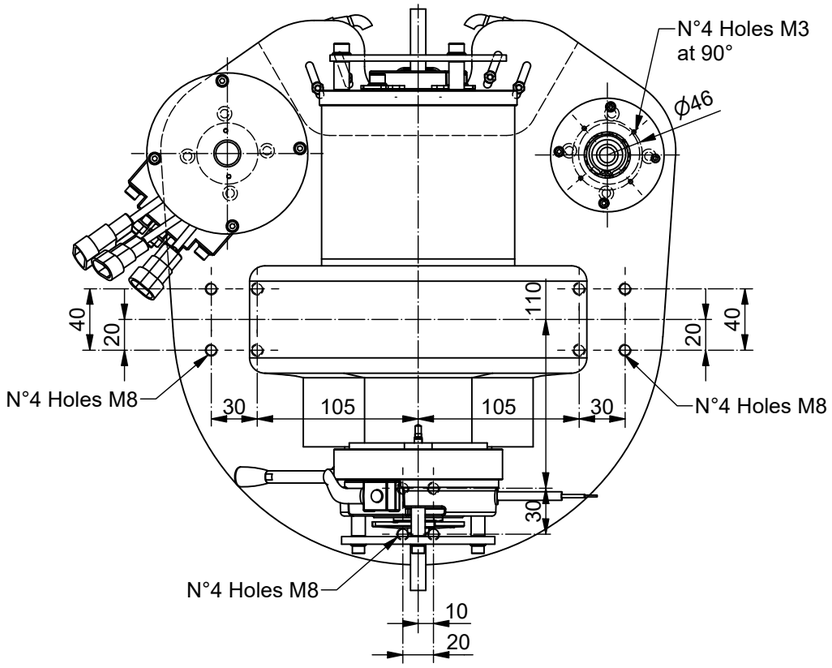






View A





Traction motor data		
Type : AC Asynchronous		
Power (S2 - 60 min)	W	500
Motor voltage (~3)	V	16
Battery voltage	V	24
Speed	Rpm	2850
Frequency	Hz	100
Current	A	28
Torque	Nm	1.67
Enclosure	IP	20

Traction gear data		
Gear ratio	i	1:32.6
Max accel. and braking torque	Nm	230
Nominal wheel torque	Nm	41
Max load on poliurethan wheel	Kg	600
Max load on solid rubber wheel	Kg	420
Brake torque	Nm	8
Lubrication		Grease

Steering gearmotor data		
Type : AC Asynchronous		
Power (S2 - 60 min)	W	150
Motor voltage (~3)	V	16
Battery voltage	V	24
Motor Speed	Rpm	2850
Frequency	Hz	100
Current	A	8
Motor torque	Nm	0.5
Gear ratio	i	1:46
Gear output torque	Nm	17.3
Enclosure	IP	20
Lubrication		Grease

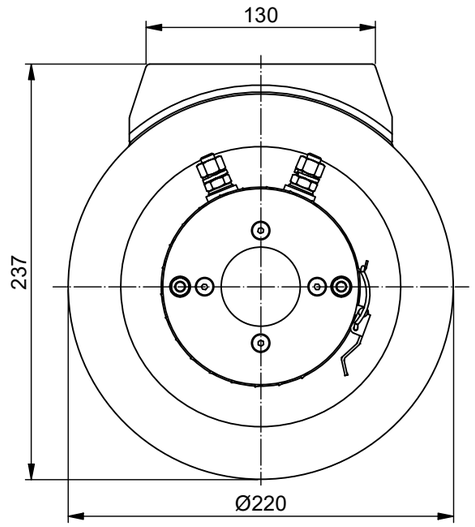
Total Weight	Kg	48

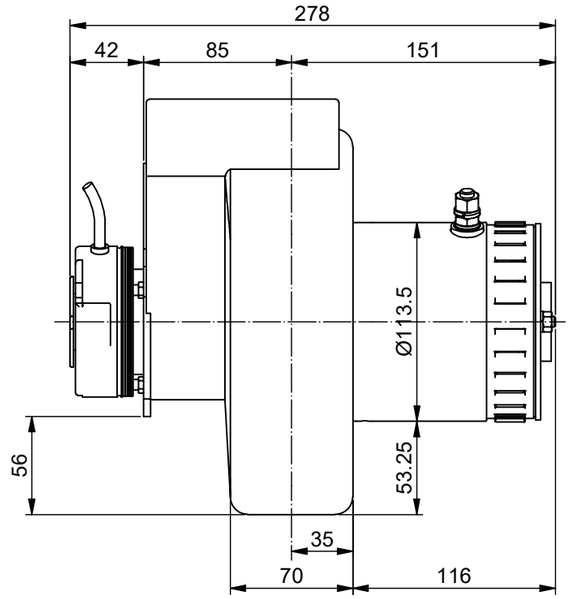
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Dis : *Drawn :*	M.C.		

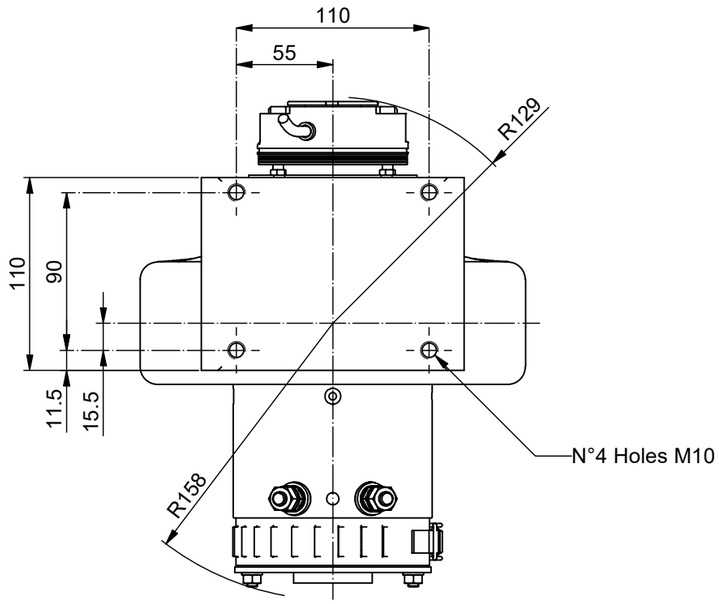
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Modena - Italy

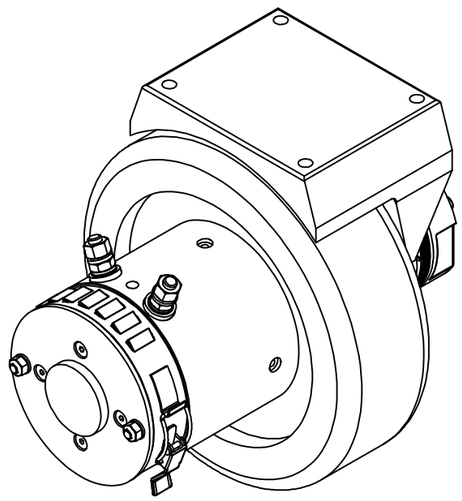
D.C. MOTOR IN WHEEL UNIT

CODE **MRT10.DC001**









	Traction motor data		
1	Type : D.C. Permanent Magnet		
2	Power (S2 - 60 min)	W	500
3	Motor voltage	V	24
4			
5	Speed	rpm	2800
6			
7	Current	A	30
8	Torque	Nm	1.7
9			
10			
11	Enclosure	IP	20
12	Brake torque	Nm	4
	Traction gear data		
13	Max input motor power	W	600
14	Gear ratio	i	1:32.6
15	Max accel. and braking torque	Nm	230
16			
17	Nominal wheel torque	Nm	39
18			
19			
20			
21	Lubrication		Grease
22	Max load on vulkollan wheel	kg	660
23	Max load on polyurethan wheel	kg	600
24	Max load on solid rubber wheel	kg	420
	Steering gear motor data		
25	Type :		
26	Power (S2 - 60 min)	W	
27	Motor voltage	V	
28			
29	Motor Speed	rpm	
30			
31	Current	A	
32	Motor torque	Nm	
33	Enclosure	IP	
34			
35	Gear ratio	i	
36	Efficiency	η	

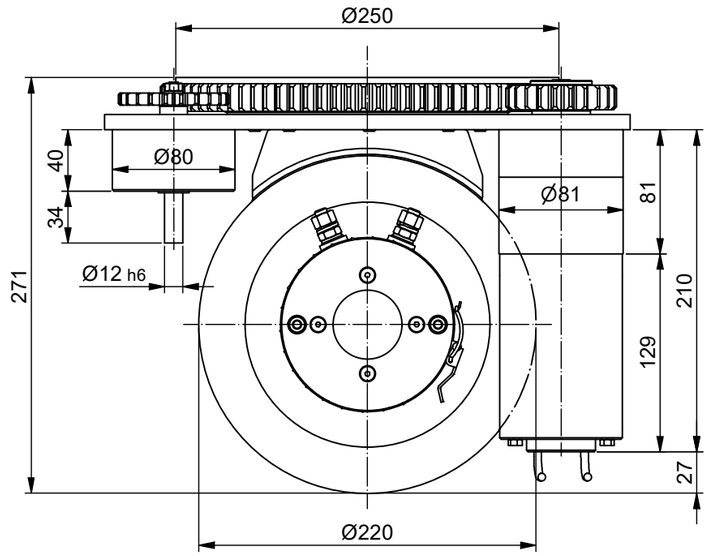
37	Total Weight	kg	27

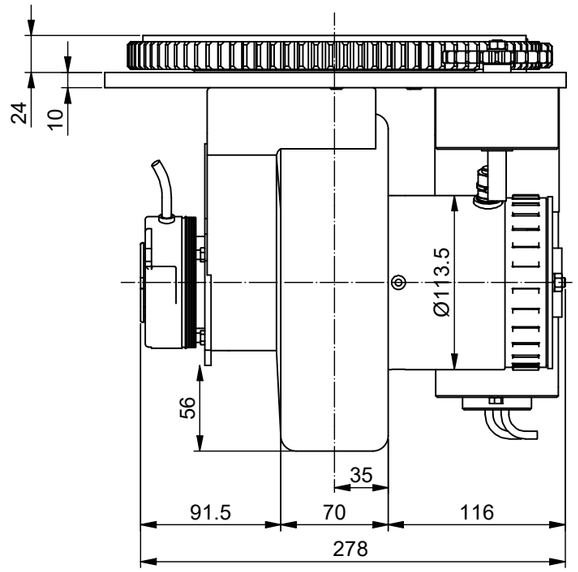
	Available on request
A	Motors: Permanent Magnet, Series Wound, Sepex, AC Asynchronous
B	Voltages: 12V, 24V, 36V, 48V, 72V, 80V, 96V
C	Gear Ratio: 1:20.9, 1:26.6, 1:32.6
D	Encoders application ; Thermic Sensor
E	Forced ventilation
F	

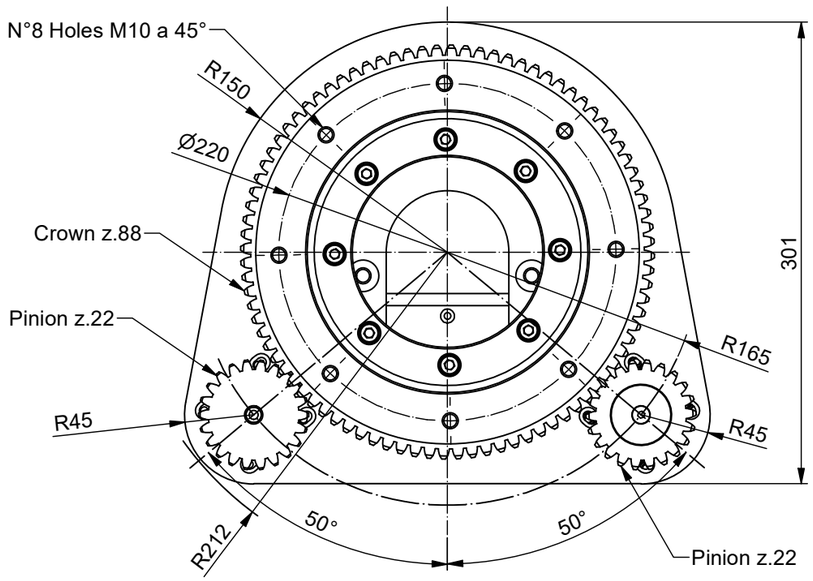
C.F.R. srl
Modena - Italy

D.C. MOTOR IN WHEEL UNIT

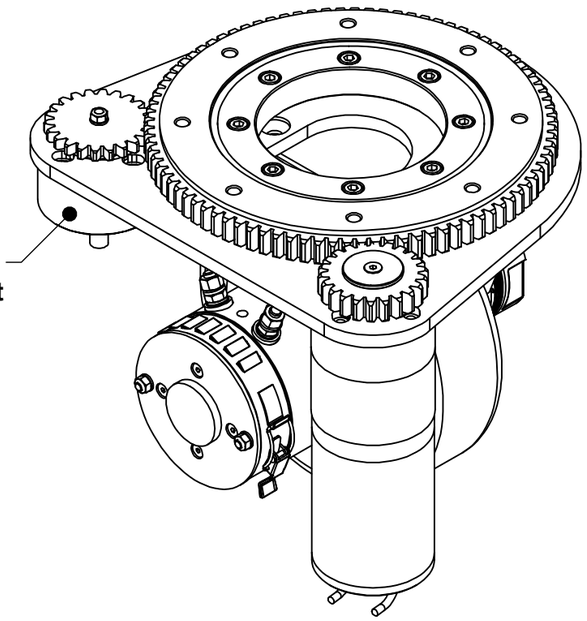
CODE **MRT10.DC002**







Available on request



	Available on request
A	Motors: Permanent Magnet, Series Wound, Sepex, AC Asynchronous
B	Voltages: 24V, 36V, 48V, 72V, 80V, 96V
C	Gear Ratio: 1:20.9, 1:26.6, 1:32.6
D	Encoders application ; Thermic Sensor
E	Forced ventilation
F	

	Traction motor data		
1	Type : D.C. Permanent Magnet		
2	Power (S2 - 60 min)	W	500
3	Motor voltage	V	24
4			
5	Speed	rpm	2800
6			
7	Current	A	30
8	Torque	Nm	1.7
9			
10			
11	Enclosure	IP	20
12	Brake torque	Nm	4
	Traction gear data		
13	Max input motor power	W	600
14	Gear ratio	i	1:32.6
15	Max accel. and braking torque	Nm	230
16			
17	Nominal wheel torque	Nm	39
18			
19			
20			
21	Lubrication		Grease
22	Max load on vulkollan wheel	kg	660
23	Max load on polyurethan wheel	kg	600
24	Max load on solid rubber wheel	kg	420
	Steering gear motor data		
25	Type : D.C. Permanent Magnet		
26	Power (S2 - 60 min)	W	100
27	Motor voltage	V	24
28			
29	Motor Speed	rpm	3000
30			
31	Current	A	6
32	Motor torque	Nm	0.3
33	Enclosure	IP	23
34			
35	Gear ratio	i	1:46
36	Efficiency	η	0.75

37	Total Weight	kg	49