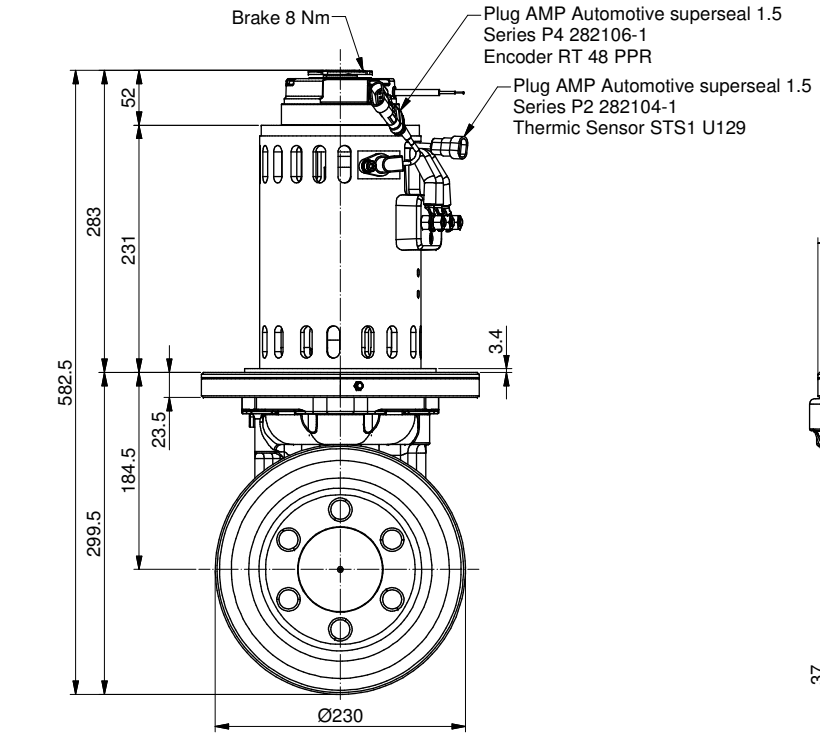
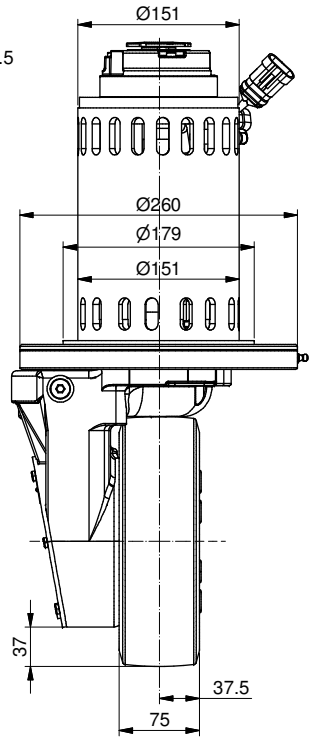
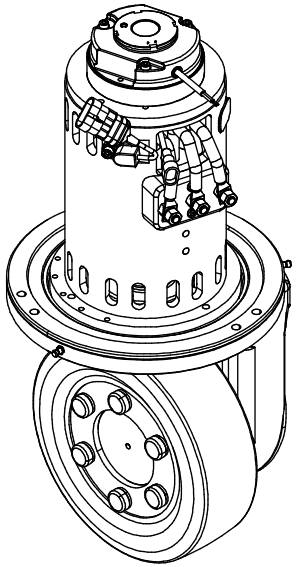
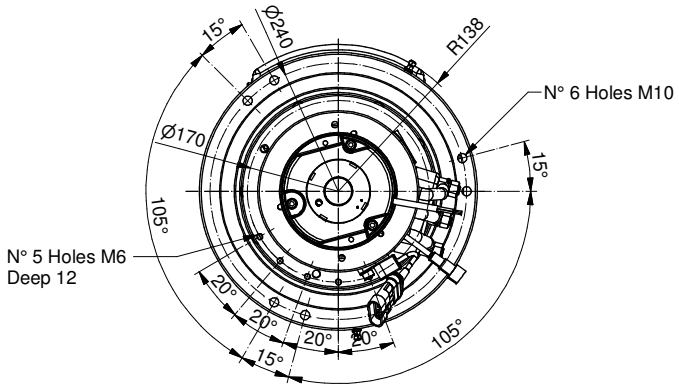
C.F.R. srl Modena - Italy	AC MOTOR IN WHEEL UNIT	CODE MRT90.A0100	Rev.: / Date:









Traction motor data		
Type : AC Asynchronous		
Power (S2 - 60 min)	W	1500
Motor voltage (~3)	V	16
Battery voltage	V	24
Speed	Rpm	3000
Frequency	Hz	100
Current	A	85
Torque	Nm	4.8
Enclosure	IP	44
AC motor type	AM135 - 100 - 4	

Traction gear data		
Gear ratio	i	1:28.9
Max accel. and braking torque	Nm	365
Nominal wheel torque	Nm	124.2
Max load on vulkollan wheel	Kg	1000
Max load on poliurethan wheel	Kg	1000
Max load on solid rubber wheel	Kg	600
Brake torque	Nm	8
Lubrication		Oil

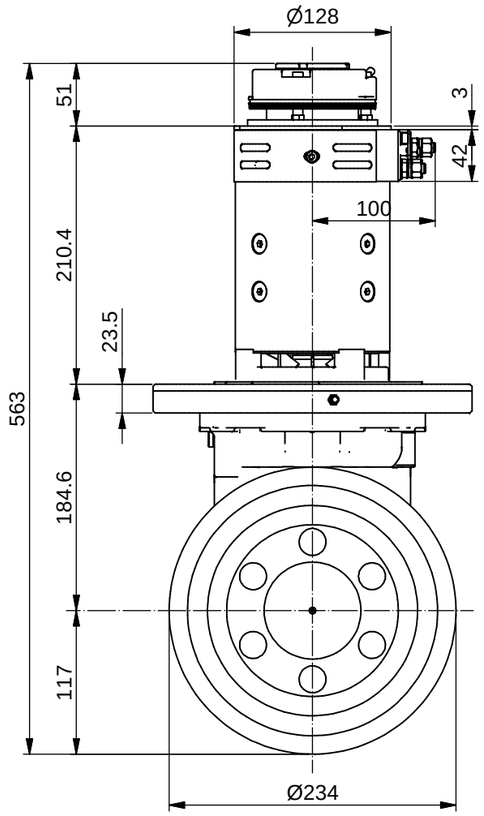
Total Weight	Kg	54

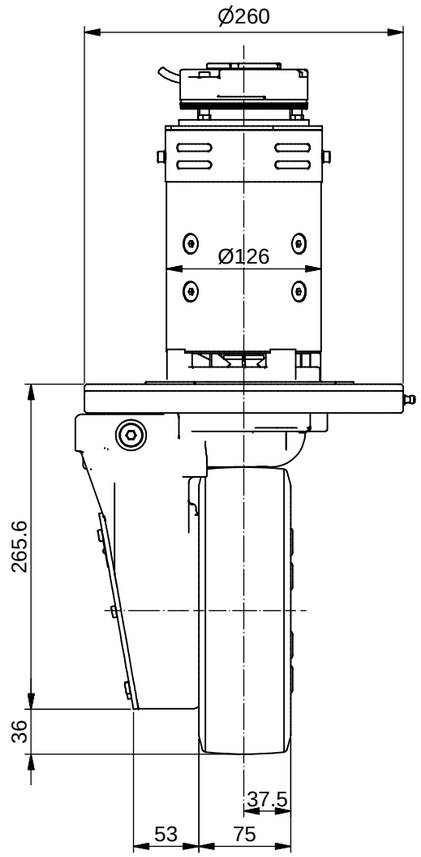
Data : Date : 01/09/2018	Scala : Scale : 1 : 5	A3
Dis : Drawn : R.P.		

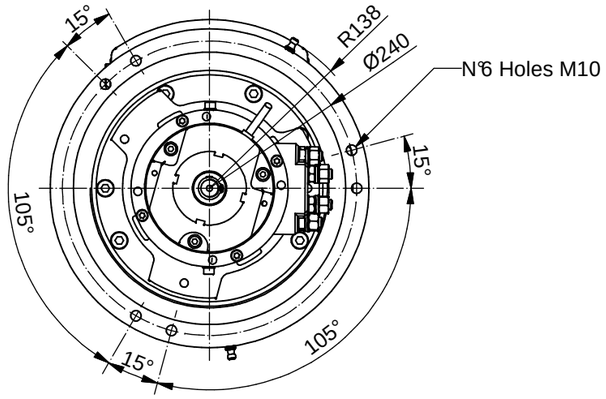
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Modena - Italy

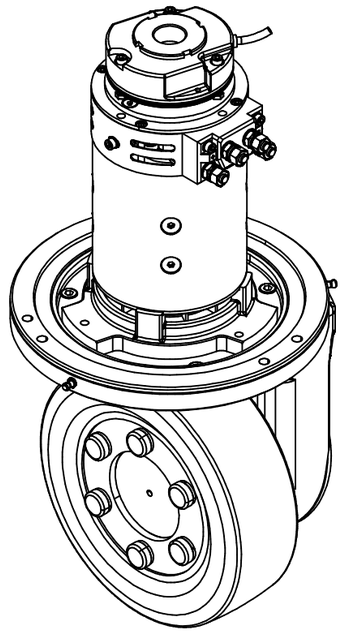
ELETTROMOTORUOTA
DRIVE WHEEL

CODICE
CODE
MRT90.D0001







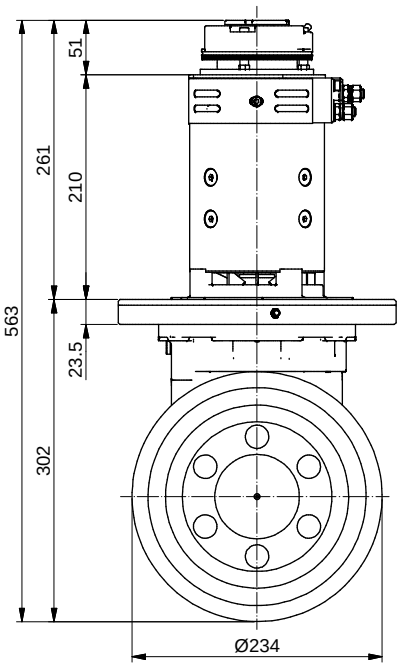


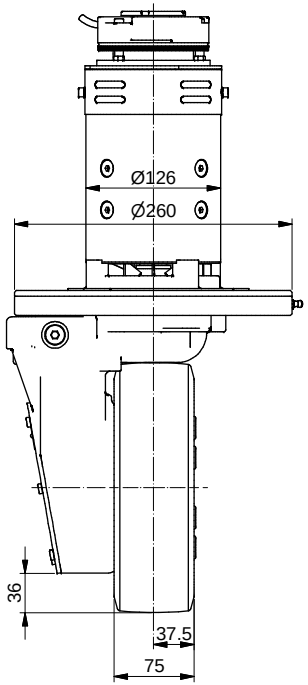
	Available on request
A	Motors: Permanent Magnet, Series Wound, Sepex, AC
B	Voltages: 12V, 24V, 36V, 48V, 72V, 80V
C	Gear Ratio: 1:18, 1:21, 1:23.3
D	Encoders application
E	Forced ventilation

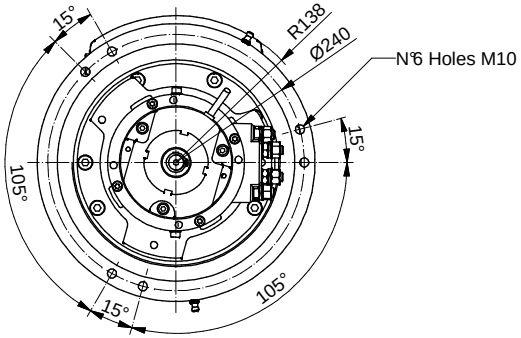
	Traction motor data		
1	Type : Motor DC Sepex		
2	Power (S2 - 60 min)	W	1000
3	Motor voltage	V	24
4			
5	Speed	Rpm	3000
6			
7	Current (1000 W)	A	52
8	Torque (1000 W)	Nm	3.2
9			
10			
11	Enclosure	IP	23
12	Brake torque	Nm	8
	Gear data		
13	Max input motor power	W	2000
14	Gear ratio	i	1:23.3
15	Max accel. and braking torque	Nm	380
16			
17	Wheel torque	Nm	63
18			
19			
20			
21	Lubrication		Oil
22	Max load on vulkollan wheel	Kg	1000
23	Max load on poliurethan wheel	Kg	900
24	Max load on solid rubber wheel	Kg	600
	Steering motor data		
25	Type : Motor DC		
26	Power (S2 - 60 min)	W	
27	Motor voltage	V	
28			
29	Speed	Rpm	
30			
31	Current (W)	A	
32	Motor torque (W)	Nm	
33	Enclosure	IP	
34			
35	Steering gear ratio	i	
36	Efficiency of steering gear	η	

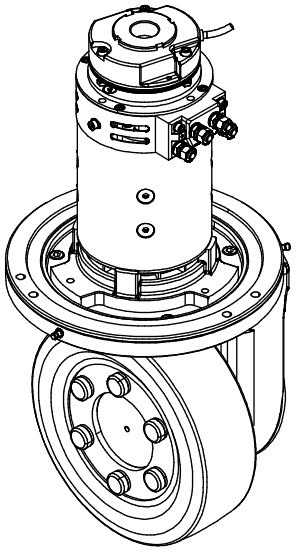
Data : *Date :* 17/10/2007	Scala : *Scale :* 1:5		**A3**
Dis : *Drawn :* C.M.			

C.F.R. srl Modena - Italy	D.C. MOTOR IN WHEEL UNIT	CODE MRT90.DC001









	Traction motor data		
1	Type : D.C. Sepex		
2	Power (S2 - 60 min)	W	1000
3	Motor voltage	V	24
4			
5	Speed	rpm	3000
6			
7	Current	A	60
8	Torque	Nm	3.2
9			
10			
11	Enclosure	IP	20
12	Brake torque	Nm	8
	Traction gear data		
13	Max input motor power	W	2000
14	Gear ratio	i	1:23.3
15	Max accel. and braking torque	Nm	380
16			
17	Nominal wheel torque	Nm	52
18			
19			
20			
21	Lubrication		Oil
22	Max load on vulkollan wheel	kg	1000
23	Max load on polyurethan wheel	kg	900
24	Max load on solid rubber wheel	kg	600
	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	

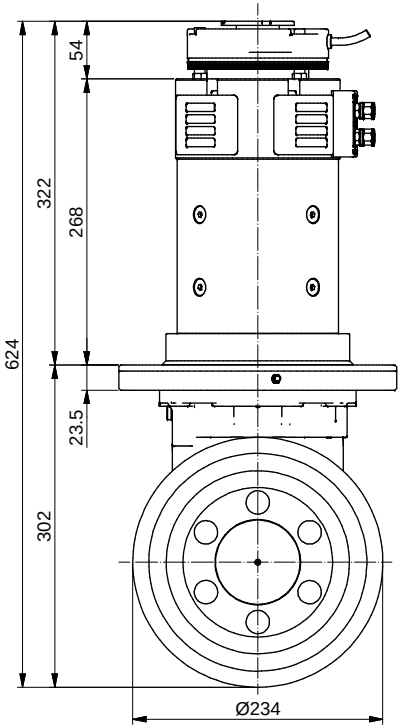
37	Total Weight	kg	42

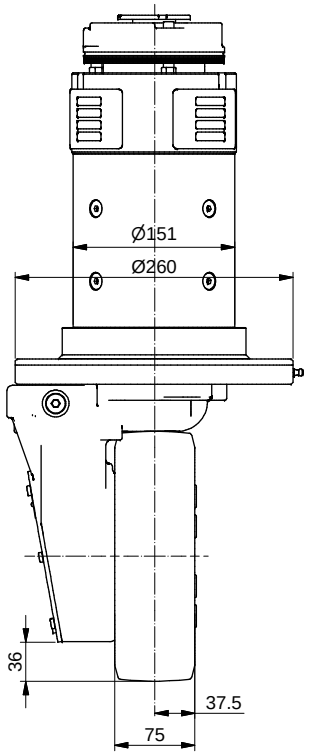
	Available on request
A	Motors: Permanent Magnet, Series Wound, Sepex, AC Asynchronous
B	Voltages: 24V, 36V, 48V, 72V, 80V, 96V
C	Gear Ratio: 1:21, 1:23.3
D	Encoders application ; Thermic Sensor
E	Forced ventilation
F	

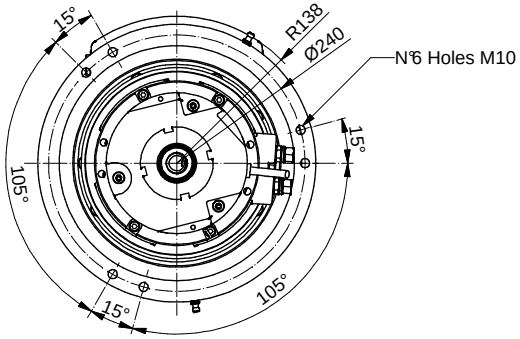
C.F.R. srl
Modena - Italy

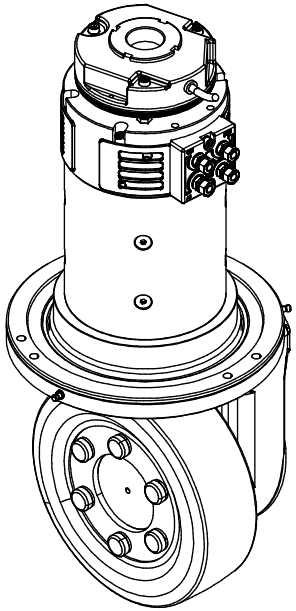
D.C. MOTOR IN WHEEL UNIT

CODE **MRT90.DC002**









	Traction motor data		
1	Type : D.C. Sepex		
2	Power (S2 - 60 min)	W	1600
3	Motor voltage	V	24
4			
5	Speed	rpm	2800
6			
7	Current	A	95
8	Torque	Nm	5.6
9			
10			
11	Enclosure	IP	20
12	Brake torque	Nm	16
	Traction gear data		
13	Max input motor power	W	2000
14	Gear ratio	i	1:23.3
15	Max accel. and braking torque	Nm	380
16			
17	Nominal wheel torque	Nm	89
18			
19			
20			
21	Lubrication		Oil
22	Max load on vulkollan wheel	kg	1000
23	Max load on polyurethan wheel	kg	900
24	Max load on solid rubber wheel	kg	600
	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	

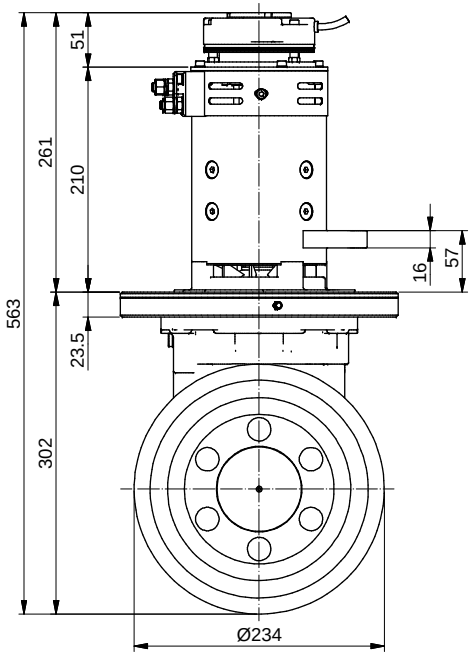
37	Total Weight	kg	52

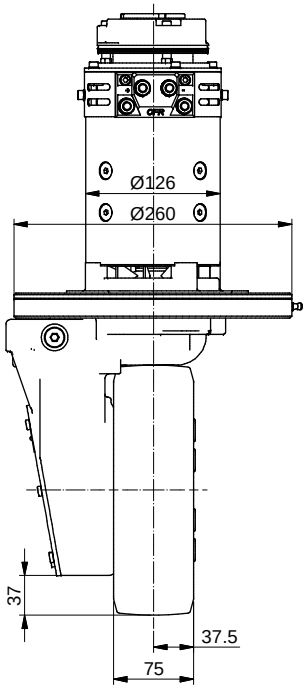
	Available on request
A	Motors: Permanent Magnet, Series Wound, Sepex, AC Asynchronous
B	Voltages: 24V, 36V, 48V, 72V, 80V, 96V
C	Gear Ratio: 1:21, 1:23.3
D	Encoders application ; Thermic Sensor
E	Forced ventilation
F	

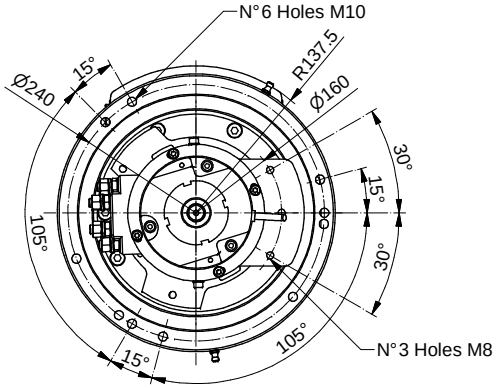
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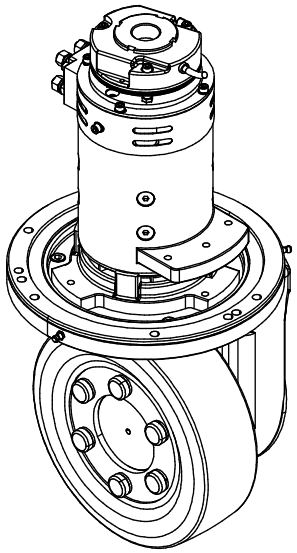
D.C. MOTOR IN WHEEL UNIT

CODE **MRT90.DC003**









	Available on request
A	Motors: Permanent Magnet, Series Wound, Sepex, AC Asynchronous
B	Voltages: 24V, 36V, 48V, 72V, 80V, 96V
C	Gear Ratio: 1:21, 1:23.3
D	Encoders application ; Thermic Sensor
E	Forced ventilation
F	

	Traction motor data		
1	Type : D.C. Series wound		
2	Power (S2 - 60 min)	W	1000
3	Motor voltage	V	24
4			
5	Speed	rpm	3000
6			
7	Current	A	60
8	Torque	Nm	3.2
9			
10			
11	Enclosure	IP	20
12	Brake torque	Nm	8
	Traction gear data		
13	Max input motor power	W	2000
14	Gear ratio	i	1:23.3
15	Max accel. and braking torque	Nm	280
16			
17	Nominal wheel torque	Nm	52
18			
19			
20			
21	Lubrication		Oil
22	Max load on vulkollan wheel	kg	1000
23	Max load on polyurethan wheel	kg	900
24	Max load on solid rubber wheel	kg	600
	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	42