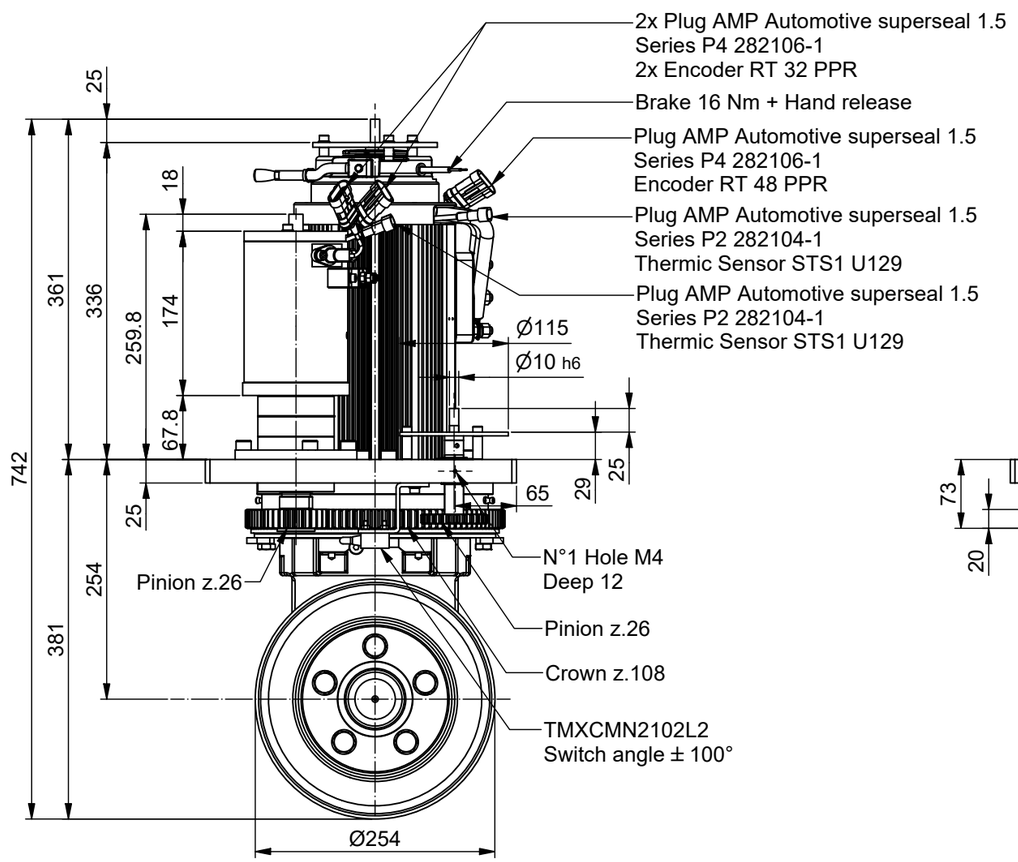
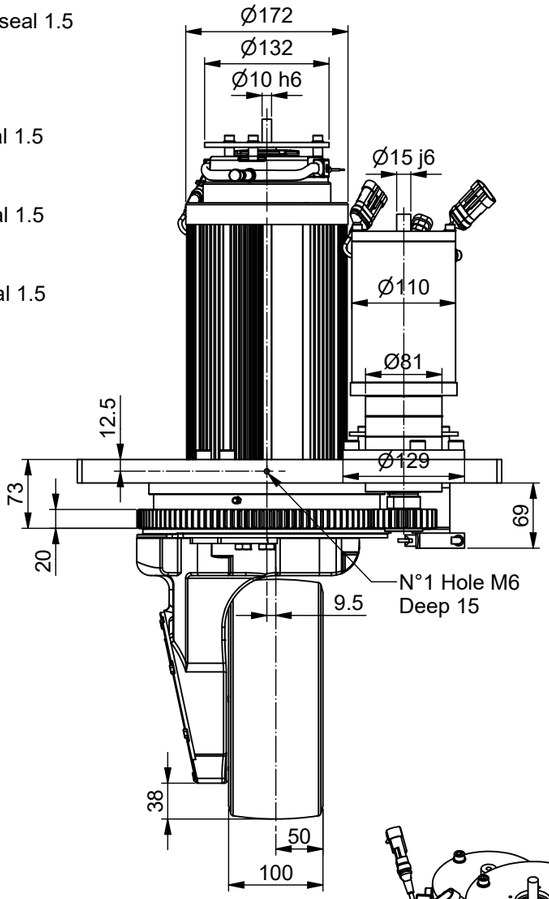
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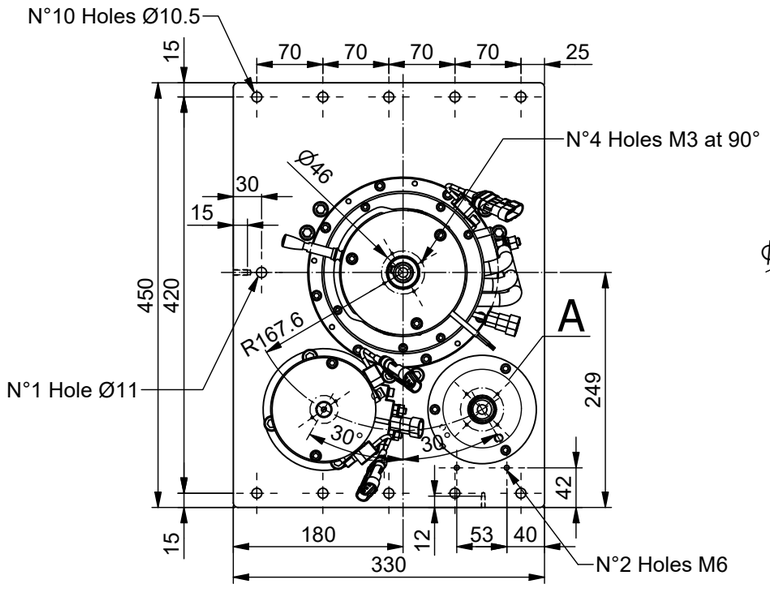
AC MOTOR IN WHEEL UNIT

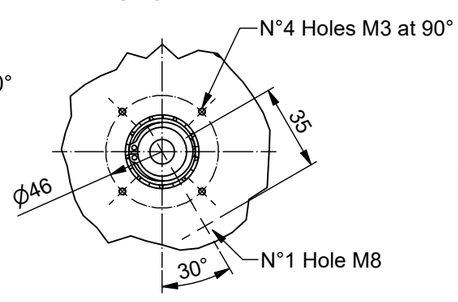
CODE **MRT97.A0101**

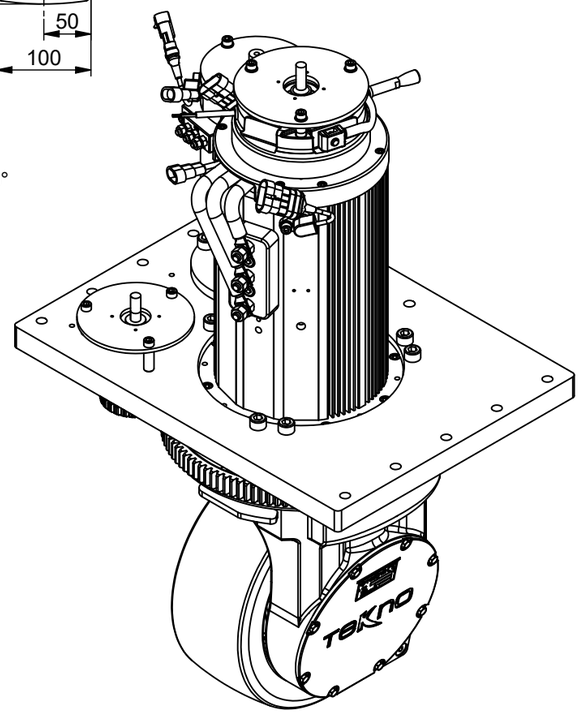
Rev.: A
Date: 28/04/21











Traction motor data		
Type : AC Asynchronous		
Power (S2 - 60 min)	W	2500
Motor voltage (~3)	V	27
Battery voltage	V	48
Speed	Rpm	3000
Frequency	Hz	100
Current	A	58
Torque	Nm	8
Enclosure	IP	44
AC motor type	AME150 - 150 - 4	

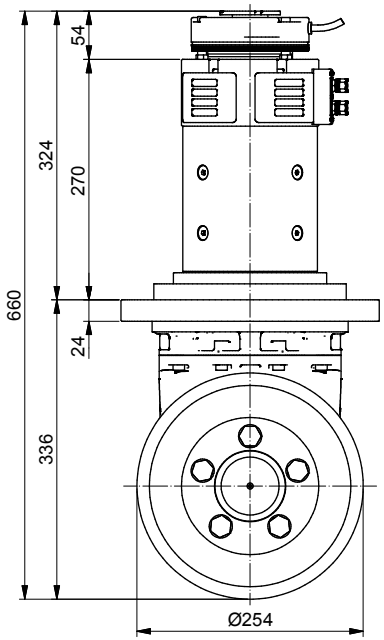
Traction gear data		
Gear ratio	i	1:22
Max accel. and braking torque	Nm	750
Nominal wheel torque	Nm	157.5
Max load on vulkollan wheel	Kg	1500
Max load on poliurethan wheel	Kg	1500
Max load on solid rubber wheel	Kg	800
Brake torque	Nm	16
Lubrication		Oil

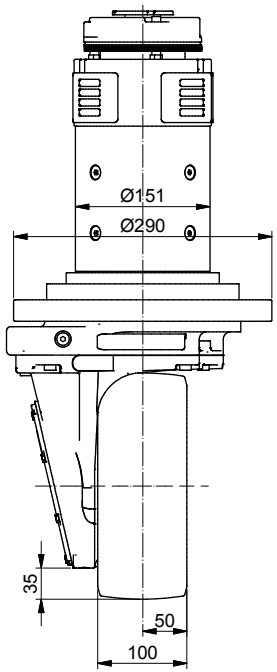
Steering gearmotor data		
Type : AC Asynchronous		
Power (S2 - 60 min)	W	400
Motor voltage (~3)	V	27
Battery voltage	V	48
Motor Speed	Rpm	3000
Frequency	Hz	100
Current	A	14
Motor torque	Nm	1.3
Gear ratio	i	1:45.56
Gear output torque	Nm	43.5
Enclosure	IP	44
Lubrication		Grease
AC motor type	AG090 - 70 - 4	

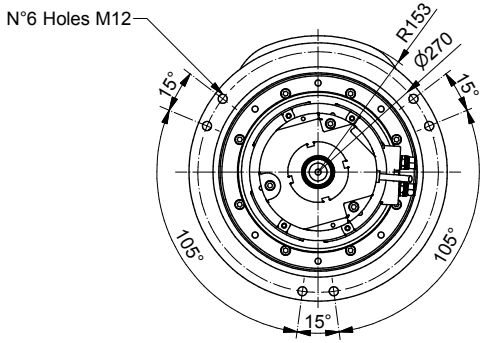
Total Weight	Kg	96

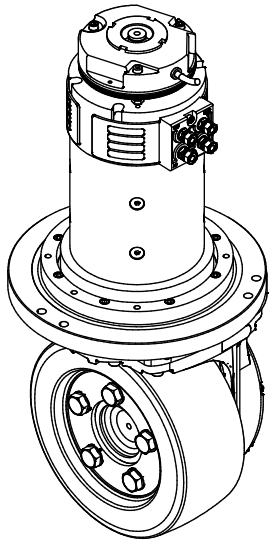
Data : *Date :* 21/11/2018	Scala : *Scale :* 1 : 6.5	A3
Dis : *Drawn :* R.P.		

C.F.R. srl Modena - Italy	D.C. MOTOR IN WHEEL UNIT	CODE MRT97.DC001







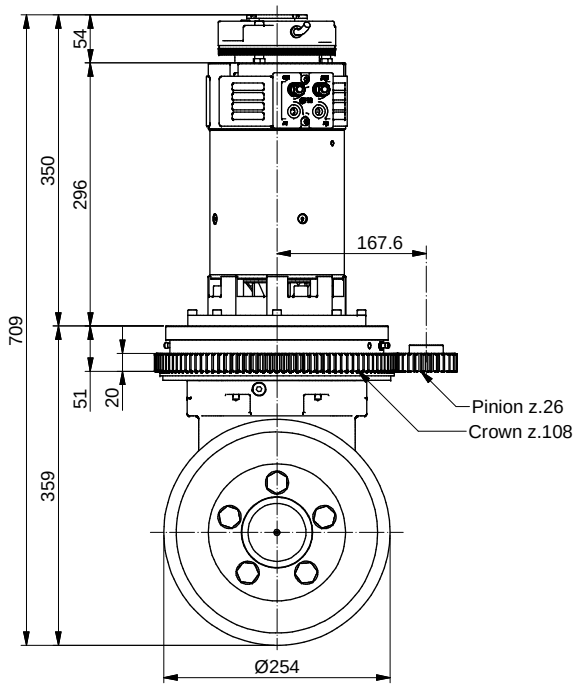


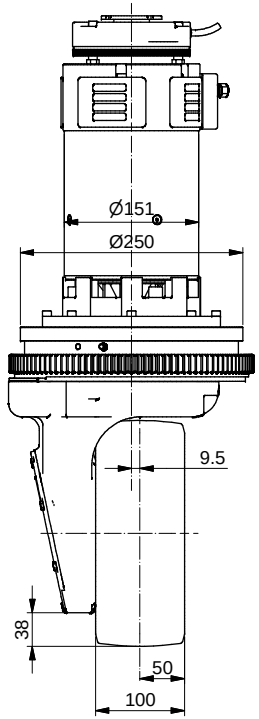
	Traction motor data		
1	Type : D.C. Series wound		
2	Power (S2 - 60 min)	W	2000
3	Motor voltage	V	24
4			
5	Speed	rpm	2000
6			
7	Current	A	119
8	Torque	Nm	9.6
9			
10			
11	Enclosure	IP	20
12	Brake torque	Nm	16
	Traction gear data		
13	Max input motor power	W	2600
14	Gear ratio	i	1:24
15	Max accel. and braking torque	Nm	490
16			
17	Nominal wheel torque	Nm	160
18			
19			
20			
21	Lubrication		Oil
22	Max load on vulkollan wheel	kg	1300
23	Max load on polyurethan wheel	kg	1200
24	Max load on solid rubber wheel	kg	900
	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	

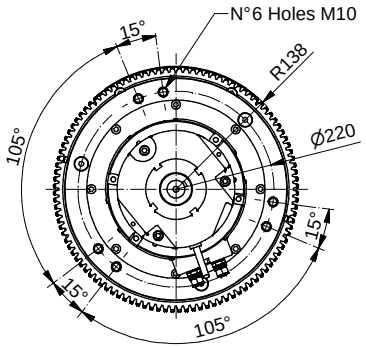
37	Total Weight	kg	70

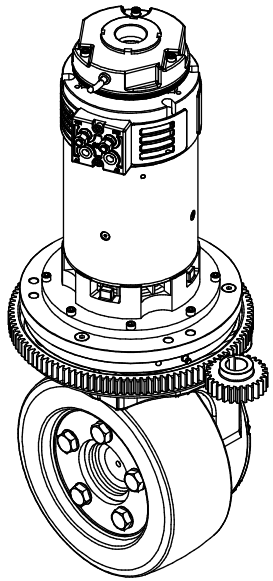
	Available on request
A	Motors: Permanent Magnet, Series Wound, Sepex, AC Asynchronous
B	Voltages: 24V, 36V, 48V, 72V, 80V, 96V
C	Gear Ratio: 1:14.7, 1:20.5, 1:24
D	Encoders application ; Thermic Sensor
E	Forced ventilation
F	

C.F.R. srl Modena - Italy	D.C. MOTOR IN WHEEL UNIT	CODE MRT97.DC002









	Available on request
A	Motors: Permanent Magnet, Series Wound, Sepex, AC Asynchronous
B	Voltages: 24V, 36V, 48V, 72V, 80V, 96V
C	Gear Ratio: 1:16, 1:22
D	Encoders application ; Thermic Sensor
E	Forced ventilation
F	

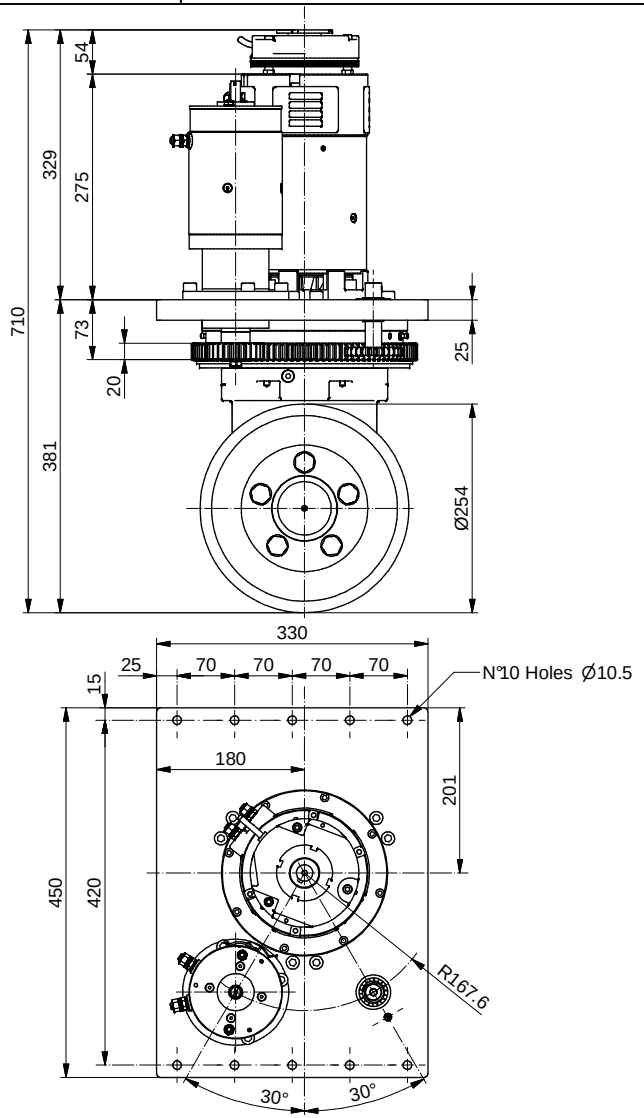
	Traction motor data		
1	Type : D.C. Permanent magnet		
2	Power (S2 - 60 min)	W	1600
3	Motor voltage	V	24
4			
5	Speed	rpm	2400
6			
7	Current	A	95
8	Torque	Nm	6.4
9			
10			
11	Enclosure	IP	20
12	Brake torque	Nm	16
	Traction gear data		
13	Max input motor power	W	2600
14	Gear ratio	i	1:22
15	Max accel. and braking torque	Nm	490
16			
17	Nominal wheel torque	Nm	98
18			
19			
20			
21	Lubrication		Oil
22	Max load on vulkollan wheel	kg	1300
23	Max load on polyurethan wheel	kg	1200
24	Max load on solid rubber wheel	kg	900
	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	

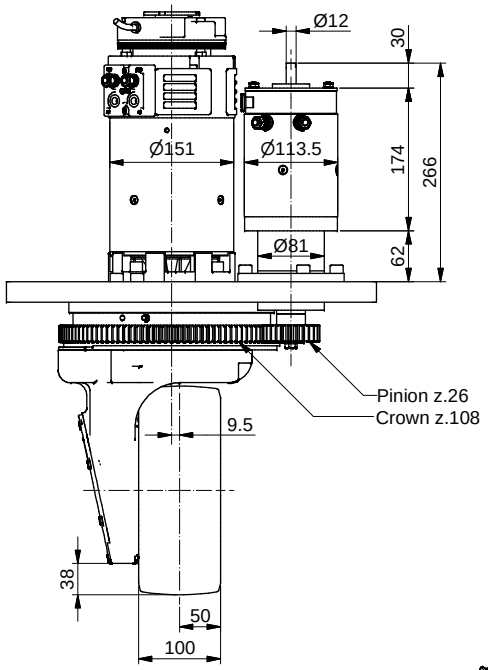
37	Total Weight	kg	74

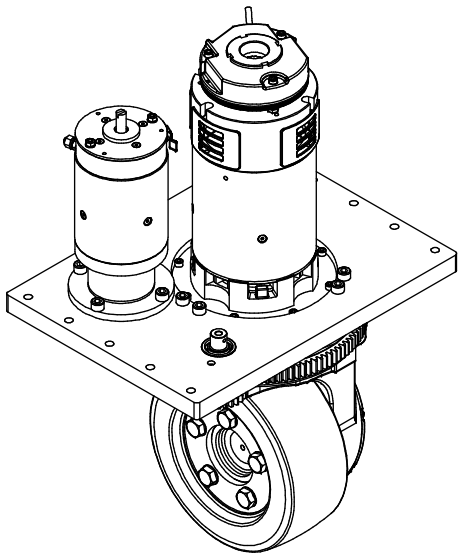
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D.C. MOTOR IN WHEEL UNIT

CODE **MRT97.DC003**







	Available on request
A	Motors: Permanent Magnet, Series Wound, Sepex, AC Asynchronous
B	Voltages: 24V, 36V, 48V, 72V, 80V, 96V
C	Gear Ratio: 1:16, 1:22
D	Encoders application ; Thermic Sensor
E	Forced ventilation
F	

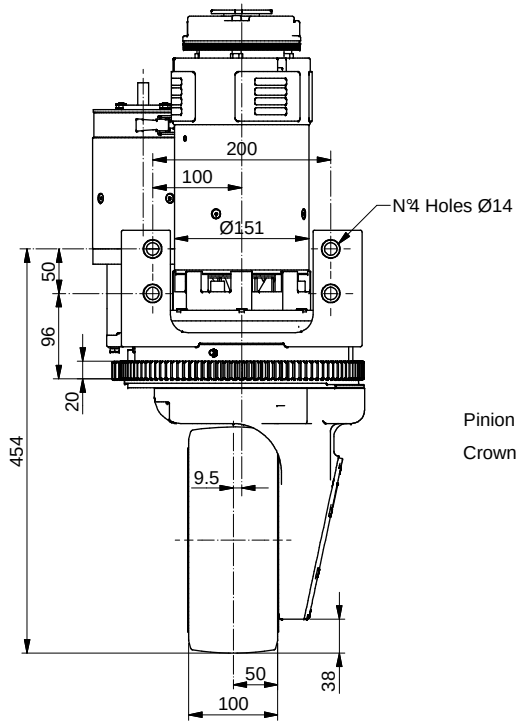
	Traction motor data		
1	Type : D.C. Permanent magnet		
2	Power (S2 - 60 min)	W	1600
3	Motor voltage	V	48
4			
5	Speed	rpm	2000
6			
7	Current	A	48
8	Torque	Nm	7.6
9			
10			
11	Enclosure	IP	20
12	Brake torque	Nm	16
	Traction gear data		
13	Max input motor power	W	2600
14	Gear ratio	i	1:22
15	Max accel. and braking torque	Nm	490
16			
17	Nominal wheel torque	Nm	118
18			
19			
20			
21	Lubrication		Oil
22	Max load on vulkollan wheel	kg	1300
23	Max load on polyurethan wheel	kg	1200
24	Max load on solid rubber wheel	kg	900
	Steering gear motor data		
25	Type : D.C: Permanent magnet		
26	Power (S2 - 60 min)	W	400
27	Motor voltage	V	48
28			
29	Motor Speed	rpm	2800
30			
31	Current	A	12
32	Motor torque	Nm	1.4
33	Enclosure	IP	20
34			
35	Gear ratio	i	1:46
36	Efficiency	η	0.75

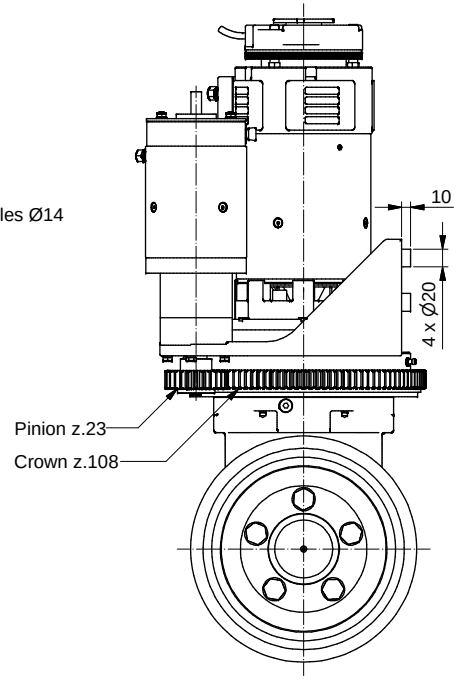
37	Total Weight	kg	105

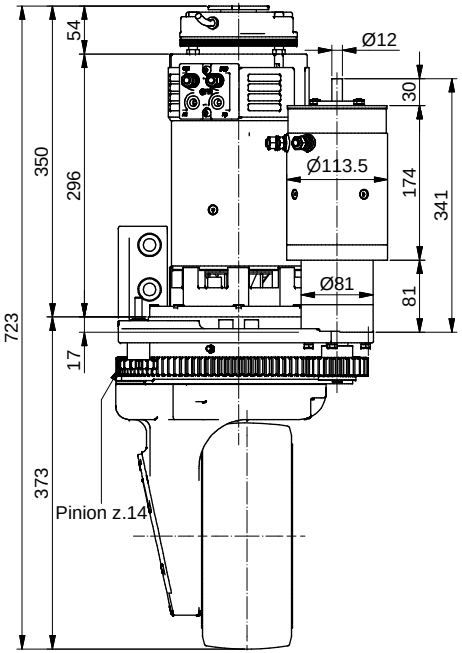
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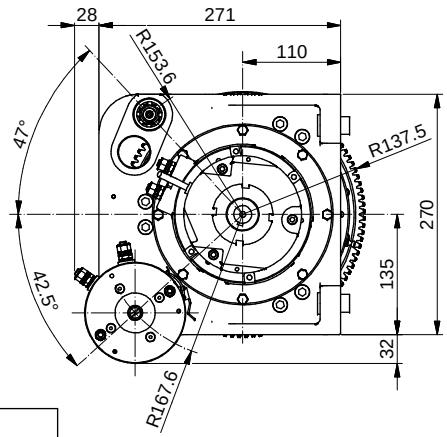
D.C. MOTOR IN WHEEL UNIT

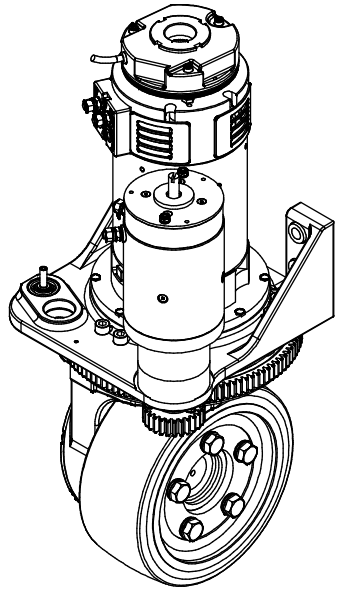
CODE **MRT97.DC004**











	Traction motor data		
1	Type : D.C. Permanent magnet		
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	5.5
9			
10			
11	Enclosure	IP	20
12	Brake torque	Nm	16
	Traction gear data		
13	Max input motor power	W	2600
14	Gear ratio	i	1:22
15	Max accel. and braking torque	Nm	490
16			
17	Nominal wheel torque	Nm	84
18			
19			
20			
21	Lubrication		Oil
22	Max load on vulkollan wheel	kg	1300
23	Max load on polyurethan wheel	kg	1200
24	Max load on solid rubber wheel	kg	900
	Steering gear motor data		
25	Type : D.C. Permanent magnet		
26	Power (S2 - 60 min)	W	400
27	Motor voltage	V	24
28			
29	Motor Speed	rpm	2800
30			
31	Current	A	24
32	Motor torque	Nm	1.4
33	Enclosure	IP	20
34			
35	Gear ratio	i	1:46
36	Efficiency	η	0.75

37	Total Weight	kg	96

	Available on request
A	Motors: Permanent Magnet, Series Wound, Sepex, AC Asynchronous
B	Voltages: 24V, 36V, 48V, 72V, 80V, 96V
C	Gear Ratio: 1:16, 1:22
D	Encoders application ; Thermic Sensor
E	Forced ventilation
F	