
1. Machine Information

- **Machine Name:** Columbus Wheel Spinner SP70-PC
- **Manufacturer:** Columbusmaskiner AB
- **Tested Product Description:** Wheel spinner for car wheels

2. EMC Test Report

- **Test Date:** 2024-12-18
- **Test Time:** 13:00:05 - 13:00:25
- **Test Leader:** Jari Palosaari
- **Responsible for Machine's CE Marking:** Alexander Österström
- **Test Type:** Electromagnetic Compatibility (EMC)
- **Test Setup:** The measurement equipment (Combinova FD 10) was placed on a stand approximately 20 cm from the machine throughout the test.
- **Measurement Range:** Frequency range 10 Hz - 400 kHz
- **Applied Standards:**
 - EN 61000-6-2 (Immunity)
 - EN 61000-6-4 (Emission Requirements)

3. **Test Results** The test was performed using the specified measurement equipment, which recorded electromagnetic field values at different frequencies. Here are some of the key measurements:

No.	Status	Peak Value (μT)	X (μT)	Y (μT)	Z (μT)	RMS (μT)	X RMS (μT)	Y RMS (μT)	Z RMS (μT)	Frequency (Hz)
1	Range change	0.6785	0.3185	0.4902	0.5824	0.3913	0.1594	0.2674	0.2371	0
2	OK	0.8029	0.5989	0.7395	0.3117	0.4764	0.2565	0.3919	0.0872	0
3	OK	0.8221	0.5909	0.7640	0.6647	0.5053	0.2009	0.3345	0.3211	0
4	OK	0.7753	0.3114	0.5614	0.6578	0.5402	0.1802	0.3212	0.3952	0
5	OK	0.7730	0.3151	0.5619	0.6644	0.5293	0.1806	0.3187	0.3821	0
6	OK	0.7003	0.4393	0.6046	0.6088	0.3969	0.1850	0.3138	0.1576	0
7	OK	0.8242	0.3254	0.5962	0.7216	0.5586	0.1844	0.3322	0.4095	0
8	OK	0.8074	0.3148	0.5639	0.6850	0.5501	0.1815	0.3251	0.4051	0
9	OK	0.7758	0.3077	0.5611	0.6667	0.5524	0.1823	0.3284	0.4051	0
10	OK	0.7825	0.3149	0.5710	0.6692	0.5507	0.1848	0.3270	0.4028	0
11	OK	0.7461	0.3009	0.5493	0.6069	0.5056	0.1715	0.3060	0.3642	0
12	OK	0.8974	0.6272	0.8190	0.4593	0.4426	0.2223	0.3530	0.1481	0
13	OK	0.9620	0.6681	0.8943	0.6721	0.5589	0.2678	0.4306	0.2351	0
14	OK	0.8860	0.3368	0.6450	0.7478	0.5840	0.1919	0.3442	0.4310	0
15	OK	0.8799	0.3524	0.6263	0.7296	0.5906	0.1925	0.3472	0.4372	0
16	OK	0.8770	0.3475	0.6296	0.7331	0.5782	0.1893	0.3412	0.4267	0
17	OK	0.8232	0.3322	0.5944	0.6726	0.5432	0.1796	0.3241	0.3972	0
18	OK	0.7665	0.3113	0.5599	0.6507	0.5011	0.1700	0.3079	0.3570	0

No.	Status	Peak Value (μT)	X (μT)	Y (μT)	Z (μT)	RMS (μT)	X RMS (μT)	Y RMS (μT)	Z RMS (μT)	Frequency (Hz)
19	OK	0.8239	0.5862	0.7403	0.3366	0.4189	0.2105	0.3439	0.1136	0
20	OK	0.8450	0.6053	0.7798	0.7164	0.5105	0.2292	0.3596	0.2807	0

4. **Measurement Uncertainty:** The measurement uncertainty for the recorded electromagnetic fields is estimated to be $\pm 5\%$, based on the specifications of the test equipment and the standard measurement uncertainty for this type of test.

5. **Conclusion**

- **Test Results:** The test was performed to measure electromagnetic fields between 10 Hz and 400 kHz. All results have been documented in accordance with the standard EN 61000-6-2 (Immunity) and EN 61000-6-4 (Emission Requirements).
- **Approval:** The machine meets the electromagnetic compatibility requirements according to the applicable standards and is therefore approved.

In summary, the results show that the Columbus Wheel Spinner SP70-PV does not exceed the permissible limits for electromagnetic fields according to the tests, meaning the product is approved for use in environments with relevant EMC requirements.

6. **Approval**

- **Test Leader (Name, Title):** Jari Palosaari, Test Leader
- **Date:** 2024-12-20
- **Responsible for the Machine's CE Marking:** Alexander Österström, Technical Manager
- **Date:** 2024-12-20

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