


Prüfbericht-Nr.: <i>Test Report No.:</i>	NN20WYF3	Auftrags-Nr.: <i>Order No.:</i>	244263385- 10	Seite 1 von 9 Page 1 of 9	
Kunden-Referenz-Nr.: <i>Client Reference No.:</i>	2083760	Auftragsdatum: <i>Order date:</i>	01.09.2020		
Auftraggeber: <i>Client:</i>	DXRacer Technology Wuxi Co., Ltd 17th floor, Building C ,Unit2 ,No.108 huishan Road, Huishan Zone, Wuxi City, Jiangsu Province, China				
Prüfgegenstand: <i>Test item:</i>	MASTER				
Bezeichnung / Typ-Nr.: <i>Identification / Type No.:</i>	MASTER				
Auftrags-Inhalt: <i>Order content:</i>	Mechanical Tests				
Prüfgrundlage: <i>Test specification:</i>	EN 1335-1:2000/AC:2002, EN 1335-2:2018 EN 1022:2018 EN 1728:2012+AC:2013				
Wareneingangsdatum: <i>Date of receipt:</i>	01.09.2020				
Prüfmuster-Nr.: <i>Test sample No.:</i>	A002900135-001				
Prüfzeitraum: <i>Testing period:</i>	01.09.2020 – 18.09.2020				
Ort der Prüfung: <i>Place of testing:</i>	TUV Rheinland (Shanghai) Co., Ltd				
Prüflaboratorium: <i>Testing laboratory:</i>	TUV Rheinland (Shanghai) Co., Ltd				
Prüfergebnis*: <i>Test result*:</i>	Fail				
geprüft von / tested by:	<i>Maksim Huang</i>				kontrolliert von / reviewed by:
18.09.2020	Maksim Huang / TE		18.09.2020	Jin Yuan / Reviewer	
Datum <i>Date</i>	Name / Stellung <i>Name / Position</i>	Unterschrift <i>Signature</i>	Datum <i>Date</i>	Name / Stellung <i>Name / Position</i>	Unterschrift <i>Signature</i>
Sonstiges / Other: Information for use was not provided and covered in the report.					
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>			Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>		
* Legende: 1 = sehr gut 2 = gut 3 = befriedigend 4 = ausreichend 5 = mangelhaft P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet Legend: 1 = very good 2 = good 3 = satisfactory 4 = sufficient 5 = poor P(ass) = passed a.m. test specification(s) F(ail) = failed a.m. test specification(s) N/A = not applicable N/T = not tested					
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>					

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Liste der verwendeten Prüfmittel
List of used test equipment

Prüfmittel <i>Test equipment</i>	Prüfmittel-Nr. / ID-Nr. <i>Equipment No. / ID-No.</i>	Nächste Kalibrierung <i>Next calibration</i>
See Remark		

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Produktbeschreibung
Product description

1	Produktdetails <i>Product details</i>	MASTER
2	Maße / Gewicht <i>Dimensions / Weight</i>	H x W x D: 1340 / 1095 x 770 / 710 x 910 / 668 mm Weight: 28.29 kg
3	Bedienelemente <i>Operating elements</i>	/
4	Ausstattung / Zubehör <i>Equipment / Accessories</i>	/
5	Verwendete Materialien <i>Used materials</i>	/
6	Sonstiges <i>Other</i>	/

Front view



Side view



Back view



Bottom view



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Clause	Anforderungen - Prüfungen / Requirements - Tests	Measuring results - Remarks	Evaluation

EN 1335-1:2000/AC:2002 Office furniture – Office work chair – Part 1: Dimensions – Determination of dimensions

6	Determination of dimensions	Details of measurement refer to Dimensions table	F
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Annex A (normative) Dimensional requirements

Table A.1 - Dimensions of an office work chair

Dimensions in millimetres

Dimension[symbol]	Adjustability	Type A				Type B				Type C				
		(-) allow.	Min. ^{a)}	Max. ^{a)}	(+) allow.	(-) allow.	Min. ^{a)}	Max. ^{a)}	(+) allow.	(-) allow.	Min. ^{a)}	Max. ^{a)}	(+) allow.	
SEAT														
seat height ^{b)}	a	adjustable	yes	400	510	yes	yes	420	510	yes	yes	420	480	yes
		adjustment range	no	120	⊕	yes	no	100	⊕	yes	no	80	⊕	yes
seat depth	b	non-adjustable	no	no	no	no	no	380	440	no	no	380	⊕	yes
		adjustable	yes	400	420	yes	yes	400	420	yes	yes	400	⊕	yes
		adjustment range	no	50	⊕	yes	no	50	⊕	yes	no	⊕	⊕	yes
depth of seat surface	c		no	380	⊕	yes	no	380	⊕	yes	no	380	⊕	yes
seat width	d		no	400	⊕	yes	no	400	⊕	yes	no	400	⊕	yes
inclination of seat surface	e	non-adjustable	yes	no	no	no	no	-2°	-7°	no	no	-2°	-7°	no
		adjustable	yes	-2°	-7°	yes	yes	-2°	-7°	yes	yes	-2°	-7°	yes
		adjustment range	no	6°	⊕	yes	no	⊕	⊕	yes	no	⊕	⊕	yes
BACK REST														
Height of the back supporting point "S" above the seat surface	f	non-adjustable	yes	170	220	yes	no	170	220	no	no	170	220	no
		adjustable	yes	50	⊕	yes	no	50	⊕	yes	no	⊕	⊕	yes
		adjustment range	no	220	⊕	yes	no	220	⊕	yes	no	⊕	⊕	yes
height of the back pad - adjustable in height	g		no	260	⊕	yes	no	260	⊕	yes	no	260	⊕	yes
height of the back pad - non-adjustable in height			no	260	⊕	yes	no	260	⊕	yes	no	260	⊕	yes
height of the upper edge of the back rest above the seat surface	h		no	360	⊕	yes	no	360	⊕	yes	no	360	⊕	yes
back rest width	i		no	360	⊕	yes	no	360	⊕	yes	no	360	⊕	yes
horizontal radius of the back rest	k		no	400	⊕	yes	no	400	⊕	yes	no	400	⊕	yes
back rest inclination	l	adjustment range	no	15°	⊕	yes	no	15°	⊕	yes	no	⊕	⊕	yes

Table A.1 - Dimensions of an office work chair (concluded)

Dimension[symbol]	Adjustability	Type A				Type B				Type C				
		(-) allow.	Min. ^{a)}	Max. ^{a)}	(+) allow.	(-) allow.	Min. ^{a)}	Max. ^{a)}	(+) allow.	(-) allow.	Min. ^{a)}	Max. ^{a)}	(+) allow.	
ARM REST														
length of arm rest	n		no	200	⊕	yes	no	200	⊕	yes	no	200	⊕	yes
width of arm rest ^{c)}	o		no	40	⊕	yes	no	40	⊕	yes	no	40	⊕	yes
height of arm rest above the seat	p	non-adjustable	no	200	250	no	no	200	250	no	no	200	250	no
		adjustable	yes	200	250	yes	yes	200	250	yes	yes	200	250	yes
distance from the front of the arm rests to the front edge of the seat surface ^{d)}	q		no	100	⊕	yes	no	100	⊕	yes	no	100	⊕	yes
clear width between the arm rests ^{e)}	r		no	460	510	no	no	460	510	no	no	460	⊕	yes
UNDERFRAME														
maximum offset of the underframe (anti-stumbling-dimension)	s		yes	⊕	365 ^{f)}	no	yes	⊕	365 ^{f)}	no	yes	⊕	x ^{g)} +50	no
stability dimension ^{h)}	t		no	195	⊕	yes	no	195	⊕	yes	no	195	⊕	yes

- a) For adjustable functions the Min. and Max. values must be obtained.
b) The minimum range of adjustment is suitable for working surface heights between at least 680 mm and 780 mm. For some part of the user group a foot rest is required.
c) The requirement applies over the minimum value n (see clause 6.13).
d) The requirement applies from a height of 170 mm above point "A" (see clause 6.15).
e) The requirement applies to 3/4 of the seat depth b (measured from the front edge of the seat) with the back rest in its foremost position (see clause 6.16).
f) If swivel castors are fitted the requirement is 415 mm.
g) x is the maximum horizontal distance between parts of the upper part of the chair and the axis of rotation (see clause 6).
h) See clause 4.
⊕ No requirement specified.

Annex B (informative) A-deviations

EN 1335-2:2018 Office furniture – Office work chair – Part 2: Safety requirements

4	Safety requirements		
4.1	General		P
4.2	Shear and squeeze points		/
4.2.1	Shear and squeeze points under influence of powered mechanisms		P
4.2.2	Shear and squeeze points during use		P

Absatz	EN 1335-1:2000/AC:2002, EN 1335-2:2018	Messergebnisse - Bemerkungen	Bewertung
Clause	Anforderungen - Prüfungen / Requirements - Tests	Measuring results - Remarks	Evaluation

4.3	Sequence of testing		/
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4.4	<p>Stability tests and requirements When tested according to Table 1, the seating shall not overturn.</p> <p style="text-align: center;">Table 1 — Stability tests and parameters</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Tests</th> <th>Reference</th> <th>Loads and cycles</th> <th>Test parameters</th> </tr> </thead> <tbody> <tr> <td>1. Corner stability</td> <td>EN 1022:2018, 7.3.3</td> <td>Force F1, N Cycle</td> <td>300 1</td> </tr> <tr> <td>2. Forward overturning</td> <td>EN 1022:2018, 7.3.1</td> <td>Force F1, N Force F2, N Cycle</td> <td>600 20 1</td> </tr> <tr> <td>3. Forward overturning for chairs with footrests</td> <td>EN 1022:2018, 7.3.2</td> <td>Force F1, N Force F2, N Cycle</td> <td>1100 20 1</td> </tr> <tr> <td>4. Sideways overturning for chairs without arm rests</td> <td>EN 1022:2018, 7.3.4</td> <td>Force F1, N Force F2, N Cycle</td> <td>600 20 1</td> </tr> <tr> <td>5. Sideways overturning for chairs with arm rests</td> <td>EN 1022:2018, 7.3.5.1 and 7.3.5.2</td> <td>Force F1, N Force F2, N Force F3, N Cycle</td> <td>250 350 20 1</td> </tr> <tr> <td>6. Rearwards overturning for chairs without back rest inclination and for chairs with adjustable backrest inclination that can be locked</td> <td>EN 1022:2018, 7.3.6</td> <td>Force F1, N Force F2, N Cycle</td> <td>600 0,2857*(1000-H^a) 1</td> </tr> <tr> <td>7. Rearwards overturning for chairs with back rest inclination</td> <td>EN 1022:2018, 7.4</td> <td>Number of Discs Cycle</td> <td>13 1</td> </tr> </tbody> </table> <p>^a H = height of the loaded seat above the floor in millimetres.</p>	Tests	Reference	Loads and cycles	Test parameters	1. Corner stability	EN 1022:2018, 7.3.3	Force F1, N Cycle	300 1	2. Forward overturning	EN 1022:2018, 7.3.1	Force F1, N Force F2, N Cycle	600 20 1	3. Forward overturning for chairs with footrests	EN 1022:2018, 7.3.2	Force F1, N Force F2, N Cycle	1100 20 1	4. Sideways overturning for chairs without arm rests	EN 1022:2018, 7.3.4	Force F1, N Force F2, N Cycle	600 20 1	5. Sideways overturning for chairs with arm rests	EN 1022:2018, 7.3.5.1 and 7.3.5.2	Force F1, N Force F2, N Force F3, N Cycle	250 350 20 1	6. Rearwards overturning for chairs without back rest inclination and for chairs with adjustable backrest inclination that can be locked	EN 1022:2018, 7.3.6	Force F1, N Force F2, N Cycle	600 0,2857*(1000-H ^a) 1	7. Rearwards overturning for chairs with back rest inclination	EN 1022:2018, 7.4	Number of Discs Cycle	13 1	Refer to below result(s)	/
Tests	Reference	Loads and cycles	Test parameters																																
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/	1. Corner stability		P
/	2. Forward overturning		P
/	3. Forward overturning for chairs with footrests		N/A
/	4. Sideways overturning for chairs without arm rests		N/A
/	5. Sideways overturning for chairs with arm rests		P
/	6. Rearwards overturning for chairs without back rest inclination and for chairs with adjustable backrest inclination that can be locked		P
/	7. Rearwards overturning for chairs with back rest inclination		P

4.5	Structural safety requirements The structural safety requirements are met when the requirements according to 5.2 are fulfilled.	Refer to clause 5.1 & 5.2	/
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5	Strength and durability		
5.1	General	Refer to below result(s)	/

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Table 2 — Test sequence and parameters			
Tests	Reference	Loads and cycles	Test parameters
1. Combined seat and back static load test	EN 1728:2012, 7.3	Seat force F1, N Back rest force F2, N Cycles	1600 560 10
2. Seat front edge static load test	EN 1728:2012, 7.4	Force, N Cycles	1600 10
3. Foot rest static load test	EN 1728:2012, 7.8	Force, N Cycles	1300 10
4. Seat and back durability	EN 1728:2012, 7.9	Step 1: Force, N, at point A Cycles	1 500 120 000
		Step 2: Force, N, at point C Force, N, at point B Cycles	1 200 320 80 000
		Step 3: Force, N, at point J Force, N, at point E Cycles	1 200 320 20 000
		Step 4: Force, N, at point F Force, N, at point H Cycles	1 200 320 20 000
		Step 5 ^a : Force, N, at point D and G Cycles	1 100 20 000
5. Armrests durability	EN 1728:2012, 7.10	Force, N Cycles	400 60 000
6.1 Armrest downward static load test – central ^b	EN 1728:2012, 7.5	Force, N Cycles	750 5
6.2 Armrest downward static load test – central ^c		Force, N Cycles	900 5
^a In derogation to EN 1728:2012, 7.2.5 and 7.2.8, the loading point D shall be 150 mm to the right of point A and the loading point G shall be 150 mm to the left of point A. ^b This test shall be carried out before the stability tests. ^c This test shall be carried out after the stability tests.			
	1. Combined seat and back static load test		P
/	2. Seat front edge static load test		P
/	3. Foot rest static load test		N/A
/	4. Seat and back durability		/
/	Step 1: Force at point A		P
/	Step 2: Force at point C & point B		P
/	Step 3: Force at point J & point E		P
/	Step 4: Force at point F & point H		P
/	Step 5: Force at point D and G		P
/	5. Armrests durability		P
/	6.1 Armrest downward static load test – central (before the stability tests)		P
/	6.2 Armrest downward static load test – central (after the stability tests)		P
5..2	Requirements The strength and durability requirements are fulfilled when, after testing in accordance with Table 2: a) there are no fractures of any member, joint or component;	Refer to above result(s) of clause 5.1	/

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	b) there is no loosening of joints intended to be rigid; and c) the chair fulfils its functions after removal of the test loads.																																		
5.3	Rolling resistance test and requirements The rolling resistance test shall be carried out after the stability (according to Table 1) and after the strength and durability tests (according to Table 2). The unloaded chair shall be tested for rolling resistance according to EN 1728:2012, 6.30 and shall fulfil the following requirements: a) the castors shall be of identical construction; b) the rolling resistance shall be ≥ 12 N.	See Note 1	F																																
6	Information for use Information for use shall be available in the language of the country in which the product will be available to the end user. It shall contain at least the following details: a) information regarding the intended use; b) information regarding possible adjustments; c) instruction for operating the adjusting mechanisms; d) instruction for the care and maintenance of the chair; e) information for chairs with seat height adjustments with energy accumulators that only trained personnel may replace or repair seat height adjustment components with energy accumulators; f) information on the choice of castors in relation to the floor surface.		N/T																																
7	Test Report																																		
/	Annex A (informative) Loads, masses and cycles for functional tests - Suggested loads, masses and cycles Tests included in Table A.1 are not safety tests but may be useful for testing functions of the chair. If the functional tests listed in Table A.1 of Annex A (informative) are carried out, they can be carried out on a separated sample. The suggested loads, masses and cycles in this informative Annex are based upon use for 8 h a day by persons weighing up to 110 kg. <small>Table A.1 — Loads, masses and cycles for functional tests</small>	Refer to below result(s)	/																																
	<table border="1"> <thead> <tr> <th>Tests</th> <th>Reference</th> <th>Loads and cycles</th> <th>Test parameters</th> </tr> </thead> <tbody> <tr> <td>1. Arm rest downward static load test – front</td> <td>EN 1728:2012, 7.6</td> <td>Force, N Cycles</td> <td>450 5</td> </tr> <tr> <td>2. Arm rest sideways static load test</td> <td>EN 1728:2012, 7.7</td> <td>Force, N Cycles</td> <td>400 10</td> </tr> <tr> <td rowspan="3">3. Swivel test</td> <td rowspan="3">EN 1728:2012, 7.11</td> <td>Masse M₁, kg</td> <td>60</td> </tr> <tr> <td>Masse M₂, kg</td> <td>35</td> </tr> <tr> <td>Cycles</td> <td>120 000</td> </tr> <tr> <td rowspan="2">4. Foot rest durability</td> <td rowspan="2">EN 1728:2012, 7.12</td> <td>Force, N</td> <td>900</td> </tr> <tr> <td>Cycles</td> <td>50 000</td> </tr> <tr> <td rowspan="2">5. Castor and chair base durability</td> <td rowspan="2">EN 1728:2012, 7.13</td> <td>Masse M₁, kg</td> <td>110</td> </tr> <tr> <td>Cycles</td> <td>36 000</td> </tr> </tbody> </table>	Tests	Reference	Loads and cycles	Test parameters	1. Arm rest downward static load test – front	EN 1728:2012, 7.6	Force, N Cycles	450 5	2. Arm rest sideways static load test	EN 1728:2012, 7.7	Force, N Cycles	400 10	3. Swivel test	EN 1728:2012, 7.11	Masse M ₁ , kg	60	Masse M ₂ , kg	35	Cycles	120 000	4. Foot rest durability	EN 1728:2012, 7.12	Force, N	900	Cycles	50 000	5. Castor and chair base durability	EN 1728:2012, 7.13	Masse M ₁ , kg	110	Cycles	36 000		
Tests	Reference	Loads and cycles	Test parameters																																
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/	Arm rest downward static load test – front		P																																

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/	Arm rest sideways static load test		P
/	Swivel test		P
/	Foot rest durability test		N/A
/	Castor and chair base durability		P

Dimensions table acc. to EN 1335-1:2000 (Type C):

Seat height	loaded:	a	420 - 513	mm	P
	adjustment range:		93	mm	P
Seat depth:		b	470 - 475	mm	P
Depth of seat surface:		c	560	mm	P
Seat width:		d	535	mm	P
Inclination of seat surface:		e	-5.69 - -11.85	°	F
Height of the back supporting point "S" above the seat		f	179	mm	P
Height of the back rest:		g	770	mm	P
Height of the upper edge of the backrest above the seat surface:		h	800	mm	P
Backrest width:		i	530	mm	P
Horizontal radius of the backrest:		k	>400	mm	P
Backrest inclination:		l	20	°	/
Length of armrest:		n	270	mm	P
Width of armrest:		o	100	mm	P
Height of armrest above the seat:		p	243/315	mm	F
Distance from the front of the armrests to the front edge of the seat surface:		q	100/225	mm	P
Clear width between the armrests:		r	370/460	mm	/
Maximum offset of the under frame:		s	385	mm	P
Stability dimension:		t	285	mm	P

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Note:

1. The rolling resistance force is 0N, where specified force is no less than 12N.
2. The seat inclination angle range is -5.69 - -11.85° does not meet the standard requirement $\leq -2^\circ$ to $\geq -7^\circ$
3. The height of armrest range is 243-315mm, does not meet the standard requirement of height within 200~250mm.

Remark:

- List of used test equipment could be traceable and provided separately upon request.
- Clause(s) with the symbol “ / ” in the result refers to the result(s) of its sub-clause(s).
- Detailed information regarding measurement uncertainty is available in the test laboratory(s) and could be shown on client request. Deviation report in Simplified Chinese is available on client’s request.

*** End of test report ***