

Our Ref. 3172418-1.50QS  
Tel. +86 21 6056 7666  
Fax. +86 21 6056 7555  
E-mail Info\_sh@dekra-certification.cn

## Test Report

**Subject:** Mechanical test for office chair

**Product name:** Office chair

**Item Reference:** HC-139C

**Applicant:** Zhejiang Anji Hengchang Chair Industry Co., Ltd.

**Applicant address:** No.2 Area, Sunny Industrial Zone, Dipu Town, Anji County  
Zhejiang Province China

**Supplier:** Zhejiang Anji Hengchang Chair Industry Co., Ltd.

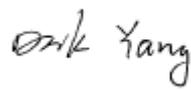
**Product ID No:** S150598711-2-1

**Test requirement:** EN 1335-1:2000  
Office furniture – Office work chair – Part 1: Dimensions –  
Determination of dimensions  
EN 1335-2:2009  
Office furniture – Office work chair – Part 2: Safety  
requirements  
EN 1335-3:2009  
Office furniture – Office work chair – Part 3: Test methods

**Conclusion:** Pass

Signed for and on behalf of  
DEKRA Testing and Certification (Shanghai) LTD.

Test Engineer:   
Date: Aug. 28<sup>th</sup> 2015

Approver:   
Date: Aug. 28<sup>th</sup> 2015

**Attention:** Please note that every statement made in this report is only valid for the samples tested and reported herein. This report shall not be reproduced except in full, without the written approval of the testing laboratory. If you have any comment on the test results, please contact us in writing in 15 days after the issuing of report.

## Test Results

**1. EN 1335-1:2000** Office furniture – Office work chair – Part 1: Dimensions – Determination of dimensions

Requirements: **Passed** (Office swivel chair for type C)

**Seat:**

- Seat height (a):	410 - 505 mm	Passed
- Seat depth (b):	400 mm	Passed
- Depth of seat surface (c):	520 mm	Passed
- Seat width (d):	500 mm	Passed
- Inclination of seat surface (e):	-1.2°~-15.2°	Passed

**Back Rest:**

- High of back supporting point "S" (f):	215 mm	Passed
- High of the back pad (g):	740 mm	Passed
- High of the upper edge of the back rest above the seat surface (h):	715 mm	Passed
- Back rest width (i):	470 mm	Passed
- Horizontal radius of back rest (k):	>400 mm	Passed

**Arm Rest:**

- Length of the useful area (n):	305 mm	Passed
- Width (o):	45 mm	Passed
- Height (p):	220 mm	Passed
- Distance to front edge of seat (q):	105 mm	Passed
- Clear width between arm rests (r):	535 mm	Passed

**Underframe:**

- Maximum offset (s):	375 mm	Passed
- Stability dimension (t):	235 mm	Passed

**2. EN 1335-2:2009** Office furniture – Office work chair – Part 2: Safety requirements

**EN 1335-3:2009** Office furniture – Office work chair – Part 3: Test methods

Clause	Test Description	Result/Remark	Rating
EN 1335-2 4.1	General safety requirements	No finding	<b>P</b>
EN 1335-3 7.2/7.3	Testing, static load and durability tests	Refer to below clause(s)	/
EN 1335-3 7.2.1	Seat front edge static load test	No damage Point F or J = 1600 N; 10 cycles x 15 s	<b>P</b>
EN 1335-3 7.2.2	Combined seat and back static load test	No damage Point A = 1600 N; Point B = max.560 N; 5 cycles (lock) + 5 cycles (unlock) x 15 s	<b>P</b>
EN 1335-3 7.3.1	Seat and back durability	No damage Point A = 1500 N; 120000 cycles x 2 s; Point B = 1200 N; Point C = 320 N; Alternating for 80000 cycles; 40000 cycles (lock) + 40000 cycles (unlock) x 2 s; Point E = 320 N; Point J = 1200 N; Alternating for 20000 cycles x 2 s; Point H = 320 N; Point F = 1200 N; Alternating for 20000 cycles x 2 s;; Point D = 1100 N; Point G:= 1100 N Alternating for 80000 cycles x 2 s	<b>P</b>

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EN 1335-3 7.2.6	Footrest static load test	No damage $F_v = 1300 \text{ N}$ ; 10 cycles x15 s	<b>N/A</b>
EN 1335-3 7.3.2	Arm rest fatigue test; center of the arm rest	No damage Vertical force: 400 N x 60000 cycles	<b>P</b>
EN 1335-3 7.2.3	Arm rest downward static load test; Arm rest overload static load test	No damage Center of the arm rest; $F_v = 750 \text{ N}$ ; 5 cycles x15 s; Center of the arm rest; $F_v = 900 \text{ N}$ ; 5 cycles x15 s (after the 2 <sup>nd</sup> stability test)	<b>P</b>
EN 1335-3 7.1.1	Front edge overbalancing;	Not overturned $F_v$ required = 270 N	<b>P</b>
EN 1335-3 7.1.2	Forward overbalancing	Not overturned $F_H$ required = 20 N; $F_v$ required = 600 N	<b>P</b>
EN 1335-3 7.1.3	Forward overbalancing for chairs with footrest	Not overturned $F_H$ required = 20 N; $F_v$ required = 600 N	<b>N/A</b>
EN 1335-3 7.1.4	Sideways overbalancing, all seating without arms	Not overturned $F_H$ required = 20 N; $F_v$ required = 600 N	<b>N/A</b>
EN 1335-3 7.1.5	Sideways overbalancing, all seating with arms	Not overturned $F_H$ required = 20 N; $F_{v1}$ required = 250 N; $F_{v2}$ required = 350 N	<b>P</b>
EN 1335-3 7.1.6	Rearwards overturning for chair without backrest inclination	Not overturned $F_v$ required = 600 N $F_H$ required = 192 N;	<b>P</b>
EN 1335-3 7.1.7	Rearwards overturning for chair with backrest inclination	Not overturned 13 discs against backrest	<b>P</b>
EN 1335-2/3 4.4/7.4	Rolling resistance of the unloaded chair	Rolling resistance force is $\geq 12 \text{ N}$	<b>P</b>
EN 1335-2 5	Information for use	Information for use was comply with the requirement	<b>P</b>
EN 1335-3 7.2/7.3	Functional test acc. to EN 1335-3:2009	Refer to below clause(s)	<b>/</b>
EN 1335-3 7.2.4	Arm rest downward static load test;	No damage 75 mm from the front edges; $F_v = 450 \text{ N}$ ; 5 cycles x15 s	<b>N/A</b>
EN 1335-3 7.2.5	Arm rest sideway static load test	No damage >75 mm from both ends; $F_v = 450 \text{ N}$ ; 10 cycles x15 s	<b>N/A</b>
EN 1335-3 7.3.3	Swivel test (upper part fixed)	No damage $M_1 = 60 \text{ kg (A)}$ ; $M_2 = 35 \text{ kg (C)}$ ; swivel for 120000 cycles	<b>N/A</b>
EN 1335-3 7.3.4	Footrest durability	No damage 80 mm from the edge; $F_v = 900 \text{ N}$ ; 50000 cycles x 2 s	<b>N/A</b>

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EN 1335-3 7.3.5	Castor and chair base durability	No damage M <sub>1</sub> = 110 kg (A); 180° for 36000 Z (back and forth)	<b>P</b>
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Abbreviation:

**P=Pass; N/A=Not Applicable**

Sample Data:

<b>Overall Dimension (cm):</b>	68.5L x 68.5W x 113.5-123.0H
<b>Base radius (cm)</b>	34.5
<b>Weight (kg):</b>	14.5

### Sample Photos

	
Photo No 1: Front view	Photo No 2: Side view
	
Photo No 3: Back view	Photo No 4: Bottom view



Photo No 5: Marking on the gas lift



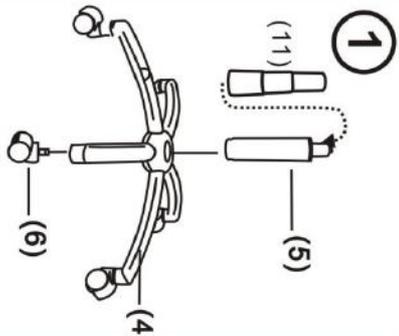
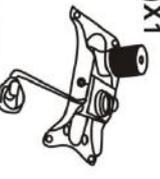
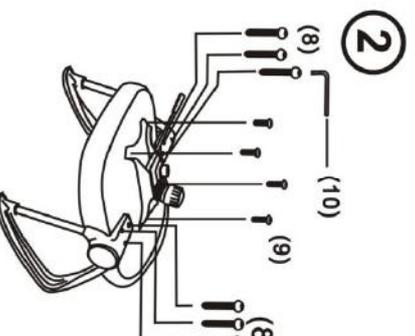
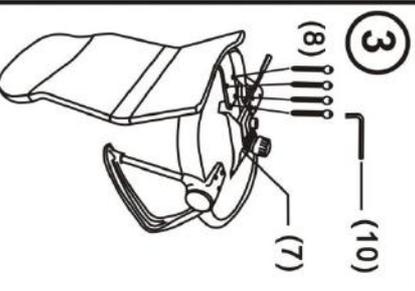
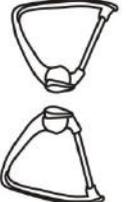
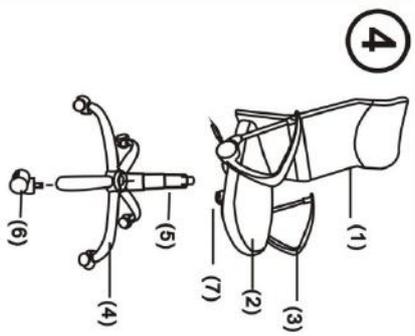
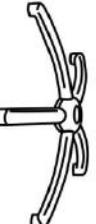
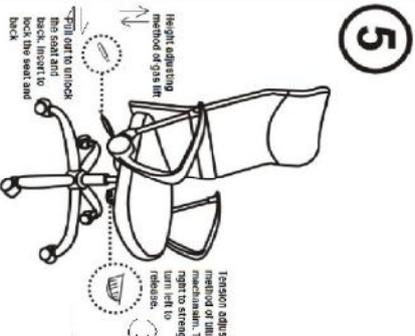
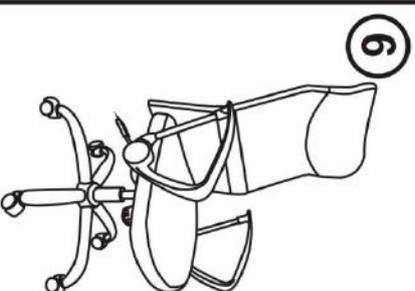
Photo No 6: Warning label on the gas lift



Photo No 7: Gas lift cone made in one piece



Photo No 8: Base radius was 345 mm

<p>HC-139C</p>	<p>(6)X5</p> 	<p>1</p> 
<p>(1)X1</p> 	<p>(7)X1</p> 	<p>2</p> 
<p>(2)X1</p> 	<p>(8)X10</p> 	<p>3</p> 
<p>(3)X2</p> 	<p>(9)X4</p> 	<p>4</p> 
<p>(4)X1</p> 	<p>(10)X1</p> 	<p>5</p> 
<p>(5)X1</p> 	<p>(11)X1</p> 	<p>6</p> 

\* Item reference no.: HC-139C  
 \* The office chair can be adjusted by operating the adjusting mechanism under the bottom of the office chair.  
 \* The office chair is intended to be office use  
 \* The office chair should be cleaned regularly and kept in dry area.  
 \* Attention! All repair work or exchange for the height adjustment must be done by specialists  
 \* Grinding or PU anti-scratch wheel should be used in hard surface floor.

\*\*\*\*\* End of Report \*\*\*\*\*