

Test-  
report

Nr. Q IWQ MBL 735 1495

**Reported to:** O.M.S. S.p.A  
Via Calmaor 73  
31020 San Vendemiano (VI)  
Italy

**Object:** Seat mechanism for Office Work Chairs  
model "X117CV"  
(2 samples supplied by the client)

**Order:** Durability tests in accordance with  
EN 1335-3, cl. 7

**Findings:**

The seat mechanism for office work chairs model "X117CV" **meets** the requirements of the EN 1335-2, cl. 4.5.

The test was carried out to EN 1335, part 2, cl. 4.5 and part 3, cl. 7, ed. 08.2002 mounted on an office work chair "Master 30" of company TOPSTAR.

Nürnberg, 2005-07-22  
QIWQMBL hy/bir/ju

LGA QualiTest GmbH  
Furniture Test Institute

  
Dipl. Ing. (FH) R. Heym



Test Officer

  
Peter Birkmann

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Seat and company register Nürnberg HRB 20544  
Directors: Peter Röckl, Hans-Hermann Ueffing  
A member of the LGA® - group of companies  
(LGA -corporate under public law).

## Test Results

### Object

Article: Seat mechanism for Office Work Chairs  
model "X117CV"  
Number of samples: 2  
Samples  
delivered by: OMS, Italy  
delivered: 16.06.2005  
LGA-ID nr.: 450

### Scope of tests

General examination

Technical tests

- Durability seat centre to DIN EN 1335-3, ed. 08.2002
- Alternating bending load on seat and back to DIN EN 1335-3, ed. 08.2002

### Applicability of test results

The test results refer solely to the samples tested. The digital pictures shown in this report are for additional information only and are not part of this report.

### Measurement uncertainty

Unless otherwise stated all dimensions are measured to an accuracy according to DIN 7168-g f or old constructions resp. DIN ISO 2768 part 1 "c" for new constructions. For all other physical values the measurement uncertainty is < 5 %. The test has been carried out at standard climate 23 °C/50 % r.h.

## General examination

### Brief description of the sample

Seat mechanism for office work chairs made of steel sheet, one lever for adjusting the gas spring and one turning knob for adjusting the tilting force for the back rest.

### Measurements (in mm)

	Reg.-nr. 450-1	Reg.-nr. 450-2
Length :	225	225
Hight :	115	115
Width :	195	195
Weight :	1844.24 grams	1836.11 grams
Marking :	FRONT , 44	FRONT , 44

### Materials :

- Steel sheet 2,5 mm thick,
- Lever made of steel round material Ø 7,8 mm with a plastic handle,
- Turn knob for spring force adjustment made of plastic,
- The surfaces are powder coated,

### Photos



Photo 1 : Seat mechanism model X117CV  
LGA-reg 450-2 visible side when built in the  
office work chair



Photo 2 : Seat mechanism model X117CV  
LGA-reg 450-2 hidden side when built in  
the office work chair

Prüfkriterium / Anforderung	Ergebnis	+ positiv - negativ
<p><b>Technical Test</b></p> <p><b>Seat and back rest</b> (EN 1335-3 cl. 7)</p> <p>Durability test seat centre                      Alternate bending load of seat and back                      Alternate bending load off centre                      Alternate bending load - lateral</p> <p>Remark 1: The seat mechanism X117CV was mounted on an office work chair "Master 30" of company TOPSTAR.</p>	<p>Requirements met (see remark 1)</p> <p>1500 N, 120000 cycles                      1200 N/320 N, 80000 cycles                      1200 N/320 N 20000 cycles                      1100 N, 20000 cycles</p>	<p>+ + + +</p>
<div data-bbox="196 958 834 1704" data-label="Image"> </div> <div data-bbox="196 1704 834 1874" data-label="Caption"> <p>Photo 3 : Seat mechanism model X117CV built in the office work chair Master 30 – View from the underside</p> </div>	<div data-bbox="862 958 1466 1704" data-label="Image"> </div> <div data-bbox="862 1704 1466 1874" data-label="Caption"> <p>Photo 4 : Seat mechanism model X117CV built in the office work chair Master 30 – Total view</p> </div>	