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**Technical Report No. 64.190.12.00180.01-01**

**Rev. 00**

**Dated 2012-07-27**

Client: Zhongshan Donati Co., Ltd  
58 Jinhe Road, North Shenghui Industrial Zone, Nantou, Zhongshan City,  
Guangdong, P.R.China

Manufacturing place: As above

Test subject: Product: ZSDONATI D 165 KT/ SYN, ZSDONATI EPRON PLUS SERIES,  
ZSDONATI DYNAMIC  
Model: 1120S, 1161S, 1180DS

Test specification: ANSI/BIFMA X 5.1-2011 clause 6, 10, 16

Purpose of examination: 

- Test according to the test specification

Test result: PASS  
Details see report Clause 3.

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## 1 Description of the test subject

### 1.1 Function

Manufacturer's specification for intended use:  
Tilting mechanism devices used on office chair.

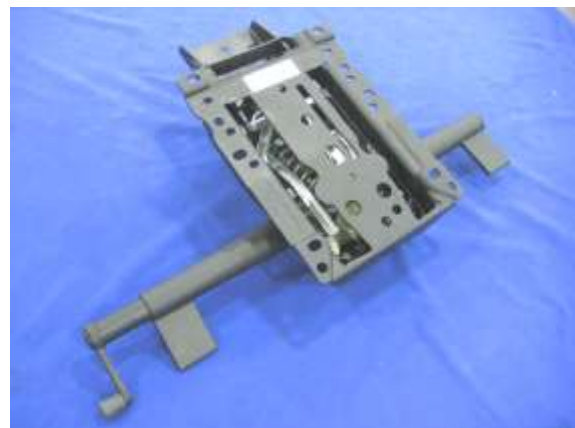
### 1.2 Technical Data

Model	Weight (kg)	Size (W x D x H) (mm)
1120S	3,76	495~560 x 258 x 140
1161S	4,06	475~515 x 307 x 105
1180DS	3,35	475~539 x 261 x 91

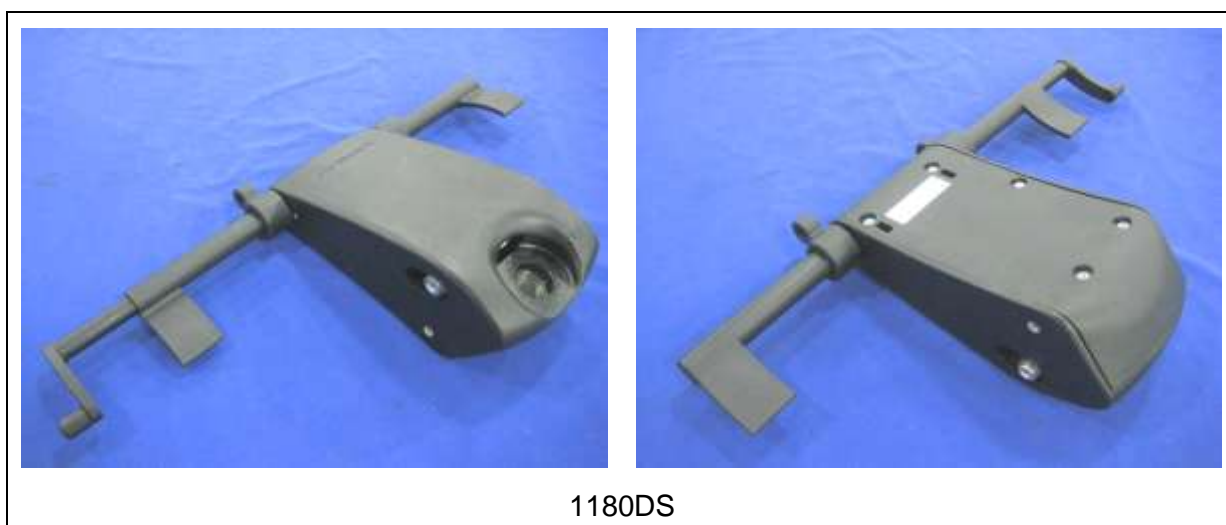
### 1.3 Product Photos



1120S



1161S



## 2 Order

### 2.1 Date of Purchase Order, Customer's Reference

2012-07-02

### 2.2 Receipt of Test Sample, Location

2012-07-02, Jiangsu TÜV Product Service Ltd. Guangzhou Branch

### 2.3 Date of Testing

From 2012-07-02 to 2012-07-27

### 2.4 Location of Testing

Jiangsu TÜV Product Service Ltd. Guangzhou Branch

### 2.5 Points of Non-compliance or Exceptions of the Test Procedure

None

## 3 Test Results

Abbreviations:

P(ass) = passed

F(ail) = failed

NA = not applicable

NT = not tested

### Test standard: ANSI/BIFMA X5.1-2011 selected items


Clause	Requirement ~Test	Measuring result -Remark	Verdict
6	Back Strength Test - Static - Type II & III		



6.4.1	Back Strength Test - Static - Type II & III - Functional Load Back force: 667 N (150 lbf.), 90 degree to the backrest, max 16 inch above the seat. Loading period: 1 minute Acceptance level: No loss of serviceability.	Fulfilled	P
6.4.2	Back Strength Test - Static - Type II & III - Proof Load Back force: 1112 N (250 lbf.), 90 degree to the backrest, max 16 inch above the seat. Loading period: 1 minute Acceptance level: No sudden and major change in the structural integrity of the chair. Loss of serviceability is acceptable.	Fulfilled	P
10	Tilt Mechanism Test - Cyclic - Type I & II Seat load: 102 kg (225 lb.) Cycles: 300,000 cycles, move the mechanism between the front and back stops, without overriding or impacting either stop. Acceptance level: No loss of serviceability to the tilt mechanism.	Fulfilled	P
16	Back Durability Test - Cyclic - Type II & III Seat load: 102 kg (225lb.) secured in the center of the seat Cycle force on backrest: 334 N (75 lbf.), Cycles: total 120,000 cycles. Acceptance level: no loss of serviceability	Fulfilled	P

Jiangsu TÜV Product Service Ltd. Guangzhou Branch  
TÜV SÜD Group



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