TEST REPORT FOR
HOISTS FOR THE TRANSFER OF DISABLED PERSONS

Allegro Pivoting Spreader Bar

TEST DOCUMENTS
AS ISO 10535-2002

LABORATORY REFERENCE
491143

19 December 2007

TEST REPORT

JOB NO: **491143**

PRODUCT

Name and Model No
Allegro Pivoting spreader bar

Serial no(s) of test sample
None

Maximum user mass
200kg

Documents used in testing
AS ISO 10535-2002

SUPPLIER

Name
Active Mobility
(Allegro Hoists)

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Order No.: None

Order Date: None

TESTING AUTHORITY

NovitaTech Engineering.
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Testing supervisor: Ben Symonds
(NATA signatory)

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Date: 2007.12.20 09:30:10 +10'30'

Dates of testing period: November – December 2007

Date of issue of this report: 19 December 2007

4 General Requirements & Test Methods

4.1 General Requirements

Not applicable.

4.3 General safety requirements

Test	Result	Specification according to AS ISO10535-2002	Reference in clause of AS ISO10535-2002
Safe working load (SWL)	PASS	>120kg	4.3.1
Load bearing fasteners	PASS	Shall be self-locking	4.3.3
Load bearing fasteners	PASS	Shall not be single use	4.3.4
Smooth edges	PASS	No burrs, sharp edges	4.3.6
Hoist assembly	PASS	Not possible to assemble incorrectly	4.3.7
Function after static test	PASS	No sign of damage	4.3.18
Body support	PASS	Shall not become inadvertently detached	4.3.19
Protection of lifted person	PASS	Precautions to protect falling off/from body support unit	4.3.20
Sling connection points	PASS	Smooth to prevent wear	4.3.22

4.5 Requirements for Performance

Not applicable.

4.7 Requirements for Rate (velocity) of Lifting & Lowering

Not applicable.

4.9 Requirements for Operating Force

Not applicable.

4.11 Information to be Supplied by the Manufacturer

Not applicable.

4.12 REQUIREMENTS FOR DURABILITY

Test	Result	Specification according to AS ISO10535-2002	Reference in clause of AS ISO10535-2002
Correct functioning after testing to 4.13	PASS	No permanent deformation or wear that affects function	4.12.1

4.13 TEST METHODS FOR DURABILITY

Test	Actual cycles	Specification according to AS ISO10535-2002	Reference in clause of AS ISO10535-2002
Lower 250mm or 25% (whichever is greater) of range	1000	1000 cycles, 100% SWL, bottom limit switch must be activated	4.13.8(a)
Upper 250mm or 25% (whichever is greater) of range	1000	1000 cycles, 80% SWL, top limit switch must be activated	4.13.8(b)
Middle 250mm or 25% (whichever is greater) of range	3000	3000 cycles, 80% SWL	4.13.8(c)
Middle 250mm or 25% (whichever is greater) of range	5000	5000 cycles, 60% SWL (but not < 90kg)	4.13.8(d)

5 MOBILE HOISTS – SPECIFIC REQUIREMENTS & TEST METHODS

5.1 REQUIREMENTS FOR STATIC STRENGTH

Test	Result	Specification according to AS ISO10535-2002	Reference in clause of AS ISO10535-2002
Correct functioning after testing to 5.2	PASS	No permanent deformation or wear that affects function	5.1

5.2 TEST METHODS FOR STATIC STRENGTH

Test	Result	Specification according to AS ISO10535-2002	Reference in clause of AS ISO10535-2002
Static loading		Lifting boom/actuator in most adverse position	5.2
Forwards	PASS	10°, 1.25 times max load, 5mins	5.2(a)
Backwards	PASS	10°, 1.25 times max load, 5mins	5.2(b)
Sideways	PASS	5°, 1.25 times max load, 5mins	5.2(c)
Horizontal	PASS	Horizontal, 1.5 times max load, 20mins	

5.3 REQUIREMENTS FOR STATIC STABILITY

Not tested.

5.5 REQUIREMENTS FOR IMMOBILISING DEVICE

Not applicable.

5.7 REQUIREMENTS FOR OPERATING FORCES

Not applicable.

5.9 INSTRUCTIONS FOR USE FOR MOBILE HOISTS

Not applicable.

6 STATIONARY HOISTS – SPECIFIC REQUIREMENTS & TEST METHODS

Not applicable.

7 NON-RIGID BODY SUPPORT UNITS (BSUS) – SPECIFIC REQUIREMENTS & TEST METHODS

Not applicable.

8 RIGID BODY SUPPORT UNITS – SPECIFIC REQUIREMENTS & TEST METHODS

Not applicable.

The sample submitted for this test satisfies the relevant requirements of AS ISO 10535-2002, Hoists for the Transfer of Disabled Persons (except the methods indicated in this report as "not tested" and/or tested with deviations).	Yes

NOTES

1 U_{95} Uncertainty of measurements where not specified: linear ±1mm, angular +- 30', force, mass ±1%, temperature ±1°C, cycles ±1 count. This means the true measurement is within the stated tolerances at least ninety five times in one hundred
2 All testing was carried out in a controlled environment laboratory using methods set out in the Standards documents, all deviations and additions to the Standards' methods are noted in remarks.
3 All instruments either carried valid calibration certificates throughout the test period or were checked against traceable Standards before and after use.
4 NOVITATECH ENGINEERING HAS NO CONTROL OVER THE SELECTION OF TEST SAMPLES. ANY EXTENSION OF THE FINDINGS OF THIS REPORT TO COVER PRODUCTION ITEMS MUST BE BASED ON PRODUCTION BEING TRULY REPRESENTED BY THE SAMPLE(S).
5 Any non-conformances are indicated in red.

_____END OF REPORT_____