



OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT  
FACILITIES DEVELOPMENT DIVISION

APPLICATION FOR OSHPD SPECIAL SEISMIC  
CERTIFICATION PREAPPROVAL (OSP)

OFFICE USE ONLY

APPLICATION #: OSP-0234-10

OSHPD Special Seismic Certification Preapproval (OSP)

Type:  New  Renewal

Manufacturer Information

Manufacturer: Maquet, Inc.

Manufacturer's Technical Representative: Paul Fraser, Engineer

Mailing Address: 45 Barbour Pond Drive, Wayne, NJ 07470

Telephone: (862) 485-5800 Email: paul.fraser@maquet-inc.com

Product Information

Product Name: Magnus OR Table System

Product Type: Mechanical Equipment

Product Model Number: See Attachment

(List all unique product identification numbers and/or part numbers)

General Description: The Magnus OR table system consists of a table column, table tops, accessories, controller and power supply.

Mounting Description: The Magnus OR table is certified for a rigid base-mount installation. The power supply for the Magnus OR table is certified for a rigid wall-mount installation.

Applicant Information

Applicant Company Name: DYNAMIC CERTIFICATION LABORATORIES

Contact Person: JOSEPH L. LA BRIE, S.E., MANAGING PARTNER

Mailing Address: 1315 GREG STREET, SUITE 109, SPARKS, NV 89431

Telephone: (775) 358-5085 Email: LABRIE@MAKEITRIGHT.NET

I hereby agree to reimburse the Office of Statewide Health Planning and Development review fees in accordance with the California Administrative Code, 2013.

Signature of Applicant:  Date: 3/24/14

Title: MANAGING PARTNER Company Name: DYNAMIC CERTIFICATION LABORATORIES

"Access to Safe, Quality Healthcare Environments that Meet California's Diverse and Dvnamic Needs"





**OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT  
FACILITIES DEVELOPMENT DIVISION**

**California Licensed Structural Engineer Responsible for the Engineering and Test Report(s)**

Company Name: DYNAMIC CERTIFICATION LABORATORIES

Name: DR. AHMAD ITANI, S.E. California License Number: SE-5220

Mailing Address: 1315 GREG STREET, SUITE 109, SPARKS, NV 89431

Telephone: (775) 358-5085 Email: ITANI@SHAKETEST.COM

**Supports and Attachments Preapproval**

- Supports and attachments are preapproved under OPM- \_\_\_\_\_  
(Separate application for OSHPD Preapproval of Manufacturer's Certification (OPM) of Supports and attachments is required)
- Supports and attachments are not preapproved

**Certification Method**

- Testing in accordance with:  ICC-ES AC156
- Other (Please Specify): \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

**Testing Laboratory**

Company Name: DYNAMIC CERTIFICATION LABORATORIES

Contact Name: AUSTIN BROWN, P.E., LABORATORY MANAGER

Mailing Address: 1315 GREG STREET, SUITE 109, SPARKS, NV 89431

Telephone: (775) 358-5085 Email: AUSTIN@SHAKETEST.COM





**OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT  
FACILITIES DEVELOPMENT DIVISION**

**Seismic Parameters**

Design in accordance with ASCE 7-10 Chapter 13:  Yes  No

Design Basis of Equipment or Components ( $F_p/W_p$ ) = 2.4

$S_{DS}$  (Design spectral response acceleration at short period, g) = 2.00

$a_p$  (In-structure equipment or component amplification factor) = 1.0

$R_p$  (Equipment or component response modification factor) = 1.5

$\Omega_0$  (System overstrength factor) = 1.5

$I_p$  (Importance factor) = 1.5

$z/h$  (Height factor ratio) = 1.0

Equipment or Component Natural Frequencies (Hz) = SEE ATTACHMENT

Overall dimensions and weight (or range thereof) = SEE ATTACHMENT

Equipment or Components @ grade designed in accordance with ASCE 7-10 Chapter 15:  Yes  No

Design Basis of Equipment or Components ( $V/W$ ) = \_\_\_\_\_

$S_{DS}$  (Design spectral response acceleration at short period, g) = \_\_\_\_\_

$S_{D1}$  (Design spectral response acceleration at 1 second period, g) = \_\_\_\_\_

$R$  (Response modification coefficient) = \_\_\_\_\_

$\Omega_0$  (System overstrength factor) = \_\_\_\_\_

$C_d$  (Deflection amplification factor) = \_\_\_\_\_

$I_p$  (Importance factor) = 1.5

Height to Center of Gravity above base = \_\_\_\_\_

Equipment or Component Natural Frequencies (Hz) = \_\_\_\_\_

Overall dimensions and weight (or range thereof) = \_\_\_\_\_

Tank(s) designed in accordance with ASME BPVC, 2010:  Yes  No

**List of Attachments Supporting Special Seismic Certification**

Test Report(s)  Drawings  Calculations  Manufacturer's Catalog

Other(s) (Please Specify): \_\_\_\_\_

**OSHPD Approval (For Office Use Only) – Approval Expires on December 31, 2019**

Signature:  Date: 4/1/2014

Print Name: M. R. Karim Title: SHFR

Special Seismic Certification Valid Up to :  $S_{DS}$  (g) = 2.0  $z/h$  = 1.0

Condition of Approval (if applicable): \_\_\_\_\_



# Special Seismic Certification

## List of Certified Components



**Manufacturer:** Maquet, Inc.

**Product Line:** Magnus OR Table System

**Certified Mounting Description:** OR tables are rigid base mounted; power supply is rigid wall mounted

Model	Manufacturer	Description	Certified Dimensions (in)			Maximum Loaded Mass (lb)	Maximum Operating Weight (lb)	Mounting	Sds (g), z/h=1	Unit
			Max. Length	Width	Min - Max Height					
Carbon Fiber Table*	Maquet	Hybrid OR table column with carbon fiber table top and hand control	106.3	24.4	26.5 - 51.5	0 - 350	1,130 - 1,480	Rigid base	2.0	UUT8a-d
Basis Table*	Maquet	Hybrid OR table column with Basis table top, accessories and hand control	90.5	23	26.5 - 51.5	0 - 500 lb	830 - 1,330	Rigid base	2.0	UUT9a-d
1150.80A0	Maquet	Power Supply	13.8	5.9	15.6	n/a	57	Rigid wall	2.0	UUT10a, UUT10b

\*Reference certified subcomponents for carbon fiber and Basis table model numbers, as tables are customizable.

# Special Seismic Certification Certified Subcomponents



**Manufacturer:** Maquet, Inc.

**Product Line:** Magnus OR Table System

**Subcomponents:** Table Columns, Tops, Controller and Power Supply

## TABLE COLUMNS

Model No.	Mfr.	Description	Dimensions (in)			Weight (lb)	Material	Unit
			Length	Width	Max. Height*			
118001B1	Maquet	Hybrid OR Table Column, surface-mounted, 16.14" bolt circle	21.3	14.1	46.9	690	Stainless Steel	UUT8a-d, UUT9a-d
118001B2	Maquet	Hybrid OR Table Column, surface-mounted, 16.14" bolt circle	21.3	14.1	46.9	690	Stainless Steel	Extrapolated**
118001B3	Maquet	Hybrid OR Table Column, surface-mounted, 16.14" bolt circle	21.3	14.1	46.9	690	Stainless Steel	Extrapolated**

\*Column maximum height is for fully extended position.

\*\*Extrapolated subcomponents are structurally identical to those tested in UUT8a-d and UUT9a-d, and differ by a software change only.

## TABLE TOPS

Model No.	Mfr.	Description	Dimensions (in)			Weight (lb)	Material	Unit
			Length	Width	Height			
118010F0	Maquet	Basis Table Top	23.2	21.3	13.1	176	Stainless Steel	UUT9a-d
118016F0	Maquet	MAGNUS Carbon Fiber Table Top	86.6	22.0	20.6	408	Carbon Fiber	Extrapolated*
118016F3	Maquet	MAGNUS Carbon Fiber Table Top	86.6	22.0	20.6	419	Carbon Fiber	Extrapolated*
118016F1	Maquet	MAGNUS Carbon Fiber Table Top	94.5	22.0	20.6	419	Carbon Fiber	Extrapolated*
118016F2	Maquet	MAGNUS Carbon Fiber Table Top	94.5	22.0	20.6	430	Carbon Fiber	Extrapolated*
118016F4	Maquet	MAGNUS Carbon Fiber Table Top	106.3	22.0	20.6	430	Carbon Fiber	Extrapolated*
118016F5	Maquet	MAGNUS Carbon Fiber Table Top	106.3	22.0	20.6	440	Carbon Fiber	UUT8a-d
T2857000	Maquet	MAGNUS Carbon Fiber Table Top	114.2	22.0	20.6	440	Carbon Fiber	Extrapolated*

\*Extrapolated unit is identical in construction and within +/- 10% of the weight of the tested units (UUT8a-d).

## CONTROLLER

Model No.	Mfr.	Description	Dimensions (in)			Weight (lb)	Material	Unit
			Length	Width	Height			
118090A0	Maquet	Cable-Connected Hand Control	n/a	3.1	12.8	1.3	Stainless Steel	UUT8a-d, UUT9a-d

## POWER SUPPLY

Model No.	Mfr.	Description	Dimensions (in)			Material	Unit
			Length	Width	Height		
1150.80A0	Maquet	Power Supply Enclosure, NEMA 1	13.8	5.9	15.6	Powder-coated coated carbon steel	UUT10a, UUT10b
S312/7 S	Powerfit	Battery, 12V	5.9	2.6	3.9	Lead Acid	UUT10a, UUT10b

# Special Seismic Certification Certified Subcomponents



**Manufacturer:** Maquet, Inc.

**Product Line:** Magnus OR Table System

**Subcomponents:** Accessories

### TABLE TOP ACCESSORIES

Model No.	Mfr.	Dimensions (in)			Weight (lb)	Material	Description	Photograph of Subcomponent	Unit
		Length	Width	Height					
118055F0	Maquet	6.3	22.1	7.6	15	Stainless Steel	Universal Module		Extrapolated <sup>1</sup>
118032F0	Maquet	9.1	21.3	7.7	17	Stainless Steel	Extension Plate		UUT9a-d
118011G0	Maquet	9.1	21.3	9.1	35	Stainless Steel	Motor Driven Joint Module - GYN		Extrapolated <sup>2</sup>
118011F0	Maquet	9.1	21.3	9.1	35	Stainless Steel	Motor Driven Joint Module - Back Section		UUT9a-d

Continued on Next Page

**Notes:**

1. Extrapolated item is identical in construction to and within -10% weight difference from accessory 118032F0 tested in UUT9a-d.
2. Extrapolated item is identical in construction to accessory 118011F0 tested in UUT9a-d.

# Special Seismic Certification Certified Subcomponents



**Manufacturer:** Maquet, Inc.

**Product Line:** Magnus OR Table System

**Subcomponents:** Accessories

## TABLE TOP ACCESSORIES

Model No.	Mfr.	Dimensions (in)			Weight (lb)	Material	Description	Photograph of Subcomponent	Unit
		Length	Width	Height					
Continued from Previous Page									
118053F0	Maquet	13.8	20.1	5.7	24	Stainless Steel	Head Rest		Extrapolated <sup>1</sup>
118050F0	Maquet	14.2	21.3	5.7	18	Stainless Steel	Head Rest		UUT9a-d
118031F0	Maquet	14.4	21.3	7.7	22	Stainless Steel	Back Plate		UUT9a-d
118055F1	Maquet	14.9	22.1	7.7	24	Stainless Steel	Universal Module for Basic Unit		Interpolated
118038F0	Maquet	21.7	22.9	7.6	25	Stainless Steel	Universal Elongation Plate USA		UUT9a-d

Note:

1. Extrapolated item is similar in construction to accessories 118050F0, 118031F0 and 118038F0 tested in UUT9a-d.

# Special Seismic Certification

## List of Tested Units



**Manufacturer:** Maquet, Inc.

**Product Line:** Magnus OR Table System

**Tested Mounting Description:** OR tables are rigid base mounted; power supply is rigid wall mounted

Product Line	Model Numbers	Description	Configuration	Overall Dimensions as Tested (in)			Additional Loaded Mass (lb)	Maximum Operating Weight (lb)	Mounting	Sds (g), z/h=1	Unit
				Length	Width	Height					
Operating Table Column, Top and Accessories	118001B1 118016F5 118090A0	Hybrid OR table column with carbon fiber table top and hand control	Column fully extended	106.3	24.4	51.5	350	1,480	Rigid base	2.0	UUT8a
			Column fully retracted	106.3	24.4	26.5		1,480	Rigid base	2.0	UUT8b
			Column fully extended	106.3	24.4	51.5	0	1,130	Rigid base	2.0	UUT8c
			Column fully retracted	106.3	24.4	26.5		1,130	Rigid base	2.0	UUT8d
	118001B1 118010F0 118031F0 118032F0 118011F0 118038F0 118050F0 118090A0	Hybrid OR table column with Basis table top, accessories and hand control	Column fully extended	90.5	23	51.5	500	1,330	Rigid base	2.0	UUT9a
			Column fully retracted	90.5	23	26.5		1,330	Rigid base	2.0	UUT9b
			Column fully extended	90.5	23	51.5	0	830	Rigid base	2.0	UUT9c
			Column fully retracted	90.5	23	26.5		830	Rigid base	2.0	UUT9d
	1150.80A0	Power Supply	N/A	13.8	5.9	15.6	n/a	57	Rigid wall	2.0	UUT10a
	1150.80A0	Power Supply	N/A	13.8	5.9	15.6	n/a	57	Rigid wall	2.0	UUT10b

UUT8a



### UNIT UNDER TEST (UUT) Summary Sheet

**Manufacturer:** Maquet, Inc.

**Product Line:** Magnus OR Table System

**Model Number:** 118001B1 (Hybrid OR Table Column, surface-mounted, 16.14" bolt circle), 118016F5 (Magnus Carbon Fiber Table Top), 118090A0 (Cable Connected Hand Control)

**Product Construction Summary:** Stainless steel column with carbon fiber table top

**Options / Component Summary:** Hybrid OR table column with carbon fiber table top (column fully extended w/ 350 lb simulated patient mass), cable connected hand control

**Note:** The UUT was operational before and after shaking and was full of operating content during the tests. The structural integrity of the component and attachment system and force-resisting systems was maintained.

#### UUT Properties

Operating Weight (lb)	Overall Unit Dimensions (inches)			Lowest Natural Frequency (Hz)		
	Length	Width	Height	Front-Back	Side-Side	Vertical
1,480	106.3	24.4	51.50	2.3	2.3	9.3

#### Seismic Test Parameters

Building Code	Test Criteria	Sds	z/h	Ip	Aflx-H	Arig-H	Aflx-V	Arig-V
CBC 2013	2012 ICC-ES AC156	2.0	1.0	1.5	3.20	2.40	1.33	0.53

#### Unit Mounting Description:



The unit was rigid base-mounted to the DCL shake table interface plate using six M10x1.5 bolts. The shake table interface plate was attached to the shake table with M12 threaded rod spaced at approximately 8-inches on-center.

UUT8b



UNIT UNDER TEST (UUT) Summary Sheet

Manufacturer: Maquet, Inc.

Product Line: Magnus OR Table System

Model Number: 118001B1 (Hybrid OR Table Column, surface-mounted, 16.14" bolt circle), 118016F5 (Magnus Carbon Fiber Table Top), 118090A0 (Cable Connected Hand Control)

Product Construction Summary: Stainless steel column with carbon fiber table top

Options / Component Summary: Hybrid OR table column with carbon fiber table top (column fully retracted w/ 350 lb simulated patient mass), cable connected hand control

Note: The UUT was operational before and after shaking and was full of operating content during the tests. The structural integrity of the component and attachment system and force-resisting systems was maintained.

UUT Properties

Operating Weight (lb)	Overall Unit Dimensions (inches)			Lowest Natural Frequency (Hz)		
	Length	Width	Height	Front-Back	Side-Side	Vertical
1,480	106.3	24.4	26.50	3.3	3.5	4.5

Seismic Test Parameters

Building Code	Test Criteria	Sds	z/h	Ip	Aflx-H	Arig-H	Aflx-V	Arig-V
CBC 2013	2012 ICC-ES AC156	2.0	1.0	1.5	3.20	2.40	1.33	0.53

Unit Mounting Description:



The unit was rigid base-mounted to the DCL shake table interface plate using six M10x1.5 bolts. The shake table interface plate was attached to the shake table with M12 threaded rod spaced at approximately 8-inches on-center.

UUT8c



**UNIT UNDER TEST (UUT) Summary Sheet**

**Manufacturer:** Maquet, Inc.

**Product Line:** Magnus OR Table System

**Model Number:** 118001B1 (Hybrid OR Table Column, surface-mounted, 16.14" bolt circle), 118016F5 (Magnus Carbon Fiber Table Top), 118090A0 (Cable Connected Hand Control)

**Product Construction Summary:** Stainless steel column with carbon fiber table top

**Options / Component Summary:** Hybrid OR table column with carbon fiber table top (column fully extended w/ no additional mass), cable connected hand control

**Note:** The UUT was operational before and after shaking and was full of operating content during the tests. The structural integrity of the component and attachment system and force-resisting systems was maintained.

**UUT Properties**

Operating Weight (lb)	Overall Unit Dimensions (inches)			Lowest Natural Frequency (Hz)		
	Length	Width	Height	Front-Back	Side-Side	Vertical
1,130	106.3	24.4	51.50	1.8	2.5	2.8

**Seismic Test Parameters**

Building Code	Test Criteria	Sds	z/h	Ip	Aflx-H	Arig-H	Aflx-V	Arig-V
CBC 2013	2012 ICC-ES AC156	2.0	1.0	1.5	3.20	2.40	1.33	0.53

**Unit Mounting Description:**



The unit was rigid base-mounted to the DCL shake table interface plate using six M10x1.5 bolts. The shake table interface plate was attached to the shake table with M12 threaded rod spaced at approximately 8-inches on-center.

UUT8d



### UNIT UNDER TEST (UUT) Summary Sheet

**Manufacturer:** Maquet, Inc.

**Product Line:** Magnus OR Table System

**Model Number:** 118001B1 (Hybrid OR Table Column, surface-mounted, 16.14" bolt circle), 118016F5 (Magnus Carbon Fiber Table Top), 118090A0 (Cable Connected Hand Control)

**Product Construction Summary:** Stainless steel column with carbon fiber table top

**Options / Component Summary:** Hybrid OR table column with carbon fiber table top (column fully retracted w/ no additional mass), cable connected hand control

**Note:** The UUT was operational before and after shaking and was full of operating content during the tests. The structural integrity of the component and attachment system and force-resisting systems was maintained.

#### UUT Properties

Operating Weight (lb)	Overall Unit Dimensions (inches)			Lowest Natural Frequency (Hz)		
	Length	Width	Height	Front-Back	Side-Side	Vertical
1,130	106.3	24.4	26.50	5.8	6.0	8.0

#### Seismic Test Parameters

Building Code	Test Criteria	Sds	z/h	Ip	Aflx-H	Arig-H	Aflx-V	Arig-V
CBC 2013	2012 ICC-ES AC156	2.0	1.0	1.5	3.20	2.40	1.33	0.53

#### Unit Mounting Description:



The unit was rigid base-mounted to the DCL shake table interface plate using six M10x1.5 bolts. The shake table interface plate was attached to the shake table with M12 threaded rod spaced at approximately 8-inches on-center.

UUT9a



### UNIT UNDER TEST (UUT) Summary Sheet

**Manufacturer:** Maquet, Inc.

**Product Line:** Magnus OR Table System

**Model Number:** 118001B1 (Hybrid OR Table Column, surface-mounted, 16.14" bolt circle), 118010F0 (Basis Table Top), 118031F0, 118032F0 (Back Plate), 118011F0 (Motor Driven Joint Module - Back Section), 118038F0 (Universal Elongation Plate USA), 118050F0 (Head Rest), 118090A0 (Cable-Connected Hand Control)

**Product Construction Summary:** Stainless steel column with stainless steel table top and accessories

**Options / Component Summary:** Hybrid OR table column with Basis table top and accessories (column fully extended w/ 500 lb simulated patient mass), cable connected hand control

**Note:** The UUT was operational before and after shaking and was full of operating content during the tests. The structural integrity of the component and attachment system and force-resisting systems was maintained.

#### UUT Properties

Operating Weight (lb)	Overall Unit Dimensions (inches)			Lowest Natural Frequency (Hz)		
	Length	Width	Height	Front-Back	Side-Side	Vertical
1,330	90.5	23	51.50	5.0	4.8	5.5

#### Seismic Test Parameters

Building Code	Test Criteria	Sds	z/h	Ip	Aflx-H	Arig-H	Aflx-V	Arig-V
CBC 2013	2012 ICC-ES AC156	2.0	1.0	1.5	3.20	2.40	1.33	0.53

#### Unit Mounting Description:



The unit was rigid base-mounted to the DCL shake table interface plate using six M10x1.5 bolts. The shake table interface plate was attached to the shake table with M12 threaded rod spaced at approximately 8-inches on-center.

UUT9b



### UNIT UNDER TEST (UUT) Summary Sheet

**Manufacturer:** Maquet, Inc.

**Product Line:** Magnus OR Table System

**Model Number:** 118001B1 (Hybrid OR Table Column, surface-mounted, 16.14" bolt circle), 118010F0 (Basis Table Top), 118031F0, 118032F0 (Back Plate), 118011F0 (Motor Driven Joint Module - Back Section), 118038F0 (Universal Elongation Plate USA), 118050F0 (Head Rest), 118090A0 (Cable-Connected Hand Control)

**Product Construction Summary:** Stainless steel column with stainless steel table top and accessories

**Options / Component Summary:** Hybrid OR table column with Basis table top and accessories (column fully retracted w/ 500 lb simulated patient mass), cable connected hand control

**Note:** The UUT was operational before and after shaking and was full of operating content during the tests. The structural integrity of the component and attachment system and force-resisting systems was maintained.

#### UUT Properties

Operating Weight (lb)	Overall Unit Dimensions (inches)			Lowest Natural Frequency (Hz)		
	Length	Width	Height	Front-Back	Side-Side	Vertical
1,330	90.5	23	26.50	2.8	3.0	3.5

#### Seismic Test Parameters

Building Code	Test Criteria	Sds	z/h	Ip	Aflx-H	Arig-H	Aflx-V	Arig-V
CBC 2013	2012 ICC-ES AC156	2.0	1.0	1.5	3.20	2.40	1.33	0.53

#### Unit Mounting Description:



The unit was rigid base-mounted to the DCL shake table interface plate using six M10x1.5 bolts. The shake table interface plate was attached to the shake table with M12 threaded rod spaced at approximately 8-inches on-center.

UUT9c



**UNIT UNDER TEST (UUT) Summary Sheet**

**Manufacturer:** Maquet, Inc.

**Product Line:** Magnus OR Table System

**Model Number:** 118001B1 (Hybrid OR Table Column, surface-mounted, 16.14" bolt circle), 118010F0 (Basis Table Top), 118031F0, 118032F0 (Back Plate), 118011F0 (Motor Driven Joint Module - Back Section), 118038F0 (Universal Elongation Plate USA), 118050F0 (Head Rest), 118090A0 (Cable-Connected Hand Control)

**Product Construction Summary:** Stainless steel column with stainless steel table top and accessories

**Options / Component Summary:** Hybrid OR table column with Basis table top and accessories (column fully extended w/ no additional mass), cable connected hand control

**Note:** The UUT was operational before and after shaking and was full of operating content during the tests. The structural integrity of the component and attachment system and force-resisting systems was maintained.

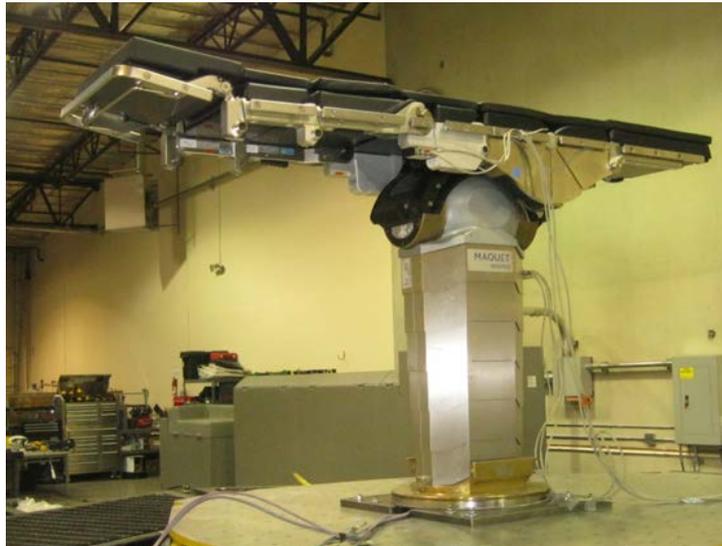
**UUT Properties**

Operating Weight (lb)	Overall Unit Dimensions (inches)			Lowest Natural Frequency (Hz)		
	Length	Width	Height	Front-Back	Side-Side	Vertical
830	90.5	23	51.50	4.5	5.3	18.3

**Seismic Test Parameters**

Building Code	Test Criteria	Sds	z/h	Ip	Aflx-H	Arig-H	Aflx-V	Arig-V
CBC 2013	2012 ICC-ES AC156	2.0	1.0	1.5	3.20	2.40	1.33	0.53

**Unit Mounting Description:**



The unit was rigid base-mounted to the DCL shake table interface plate using six M10x1.5 bolts. The shake table interface plate was attached to the shake table with M12 threaded rod spaced at approximately 8-inches on-center.

UUT9d



### UNIT UNDER TEST (UUT) Summary Sheet

**Manufacturer:** Maquet, Inc.

**Product Line:** Magnus OR Table System

**Model Number:** 118001B1 (Hybrid OR Table Column, surface-mounted, 16.14" bolt circle), 118010F0 (Basis Table Top), 118031F0, 118032F0 (Back Plate), 118011F0 (Motor Driven Joint Module - Back Section), 118038F0 (Universal Elongation Plate USA), 118050F0 (Head Rest), 118090A0 (Cable-Connected Hand Control)

**Product Construction Summary:** Stainless steel column with stainless steel table top and accessories

**Options / Component Summary:** Hybrid OR table column with Basis table top and accessories (column fully retracted w/ no additional mass), cable connected hand control

**Note:** The UUT was operational before and after shaking and was full of operating content during the tests. The structural integrity of the component and attachment system and force-resisting systems was maintained.

#### UUT Properties

Operating Weight (lb)	Overall Unit Dimensions (inches)			Lowest Natural Frequency (Hz)		
	Length	Width	Height	Front-Back	Side-Side	Vertical
830	90.5	23	26.50	12.8	11.3	7.8

#### Seismic Test Parameters

Building Code	Test Criteria	Sds	z/h	Ip	Aflx-H	Arig-H	Aflx-V	Arig-V
CBC 2013	2012 ICC-ES AC156	2.0	1.0	1.5	3.20	2.40	1.33	0.53

#### Unit Mounting Description:



The unit was rigid base-mounted to the DCL shake table interface plate using six M10x1.5 bolts. The shake table interface plate was attached to the shake table with M12 threaded rod spaced at approximately 8-inches on-center.

UUT10a



### UNIT UNDER TEST (UUT) Summary Sheet

**Manufacturer:** Maquet, Inc.

**Product Line:** Magnus OR Table System

**Model Number:** 1150.80A0 (Power Supply)

**Product Construction Summary:** Powder-coated carbon steel enclosure, NEMA 1

**Options / Component Summary:** 12V battery

**Note:** The UUT was operational before and after shaking and was full of operating content during the tests. The structural integrity of the component and attachment system and force-resisting systems was maintained.

#### UUT Properties

Operating Weight (lb)	Overall Unit Dimensions (inches)			Lowest Natural Frequency (Hz)		
	Length	Width	Height	Front-Back	Side-Side	Vertical
57	13.8	5.9	15.6	N/A	N/A	N/A

#### Seismic Test Parameters

Building Code	Test Criteria	Sds	z/h	Ip	Aflx-H	Arig-H	Aflx-V	Arig-V
CBC 2013	2012 ICC-ES AC156	2.0	1.0	1.5	3.20	2.40	1.33	0.53

#### Unit Mounting Description:



The unit was rigid wall-mounted to the shake table interface wall fixture using four 1/4-inch diameter Grade 5 bolts. The shake table interface wall fixture was attached to the shake table with M12 threaded rod spaced at approximately 8-inches on-center.

UUT10b



### UNIT UNDER TEST (UUT) Summary Sheet

**Manufacturer:** Maquet, Inc.

**Product Line:** Magnus OR Table System

**Model Number:** 1150.80A0 (Power Supply)

**Product Construction Summary:** Powder-coated carbon steel enclosure, NEMA 1

**Options / Component Summary:** 12V battery

**Note:** The UUT was operational before and after shaking and was full of operating content during the tests. The structural integrity of the component and attachment system and force-resisting systems was maintained.

#### UUT Properties

Operating Weight (lb)	Overall Unit Dimensions (inches)			Lowest Natural Frequency (Hz)		
	Length	Width	Height	Front-Back	Side-Side	Vertical
57	13.8	5.9	15.6	N/A	N/A	N/A

#### Seismic Test Parameters

Building Code	Test Criteria	Sds	z/h	Ip	Aflx-H	Arig-H	Aflx-V	Arig-V
CBC 2013	2012 ICC-ES AC156	2.0	1.0	1.5	3.20	2.40	1.33	0.53

#### Unit Mounting Description:



The unit was rigid wall-mounted to the shake table interface wall fixture using four 1/4-inch diameter Grade 5 bolts. The shake table interface wall fixture was attached to the shake table with M12 threaded rod spaced at approximately 8-inches on-center.