

SQUONK OPERA
Astro-Rama
Technical Rider (Rev. 08/20/08)

Squonk Opera
307 George Street
Turtle Creek, PA 15145
Office Phone: 412 824 9399 / Shop Phone: 724 265 5235
Web: <http://squonkopera.org>

Technical Contacts

Lighting Designer/

Production Manager

Bob Steineck
Office 412 521 2245
Fax 412 521 4554
Cell 412 656 3400
BOBLITE@aol.com

Artistic Director

Steve O'Hearn
Office 724 265 5235
Cell 412 496 6480
steve@squonkopera.org

Sound Engineer

George Powell
Cell 814 880 2892
georgetpowell@gmail.com

GENERAL:

Definitions:

Presenter/Purchaser – refers to the sponsoring organization and its subcontractors and representatives who have entered into contract with Artist to provide site and all required technical support for installation and performance of Astro-Rama

Company – refers to Squonk Opera and its performers, technical and design staff.

Artist(s) – refers to Squonk Opera and its performers, technical and design staff.

Site – Refers to the entire area designated for production and audience

Platforms – refers to the DS scaffold levels on which musicians perform

A-Frame – refers to the structure supporting the dish and pivot mechanism

Dish – refers to the fabric covered concave structure and main projection surface

Video Com – refers to the small RP screen mounted to the SR truss towers

Guy Cables – refers all stabilizing cables on all structures

Pivot – refers to the point and mechanism at which the dish tips up

Stakes – refer to steel rods driven into the earth to anchor structure

Tie-Downs – refer to straps that connect counter balance weight to the structure

Water Drums – refers weights that support the set when stakes cannot be driven into the turf

Tech Booth – refers to the small scaffold tower housing sound and light consoles and video

Truss Tower – refers to the vertical mounted trusses SL and SR of platforms that support lighting positions

Decking – refers to the surface supported by the scaffolds that create the staging area

Dish Fabric – refers the fabric used to skin the dish / projection material

Site Preparation – refers the Presenter’s time cleaning and preparing the site for load-in

Site Pre-installation – refers Artists’ and Presenter’s staff laying out marking and leveling the site prior To building the scenery

Site Leveling – refers to building up the site using lumber to create pads for upon which scaffold, towers and truss shall mount

Shop Pre-Production – refers to the time spent prepping the lighting equipment, programming the console and testing equipment prior to delivery of equipment

Site Dimensions:

70’ wide by 110’ deep minimum

Set Dimensions:

50’ wide by 60’ deep minimum

UFO Crash Dimensions: UFO crash at site is located USR of main scenic structure. Final position will be determined once the main scenic structure has been laid out and leveled
20’ wide by 30’ deep minimum

Site Preparation: Presenter shall prepare site prior to Artists’ arrival. The turf shall be mowed and raked, all debris including trash, branches, litter, leaves shall be removed. Holes and deep divets shall be filled with a mix of gravel/dirt and shall be tamped level. Stumps and other non-mechanical obstructions shall be removed so as not to interfere with the construction, staging and strike of scenic elements. All mechanical items, drains, vaults, conduits, sewers, sprinklers and other obstructions that may be present on the site, must be clearly labeled and marked for safety.

Travel: Artist tours with 1 – 24’ scenery truck, 1 -18’ UFO truck and 2-3 cars.

Parking: There must be secure and adequate parking near the site, and at the hotel for 1 – 18’ truck and 3 cars. Trucks must have easy access to site at all times throughout the Artists’ residency beginning with site pre-installation. One 24’ truck shall remain at site for equipment storage. This truck must have access 24/7 to the site and be parked very near for storing delicate electronic equipment.

Dressing Rooms: 2 dressing rooms near the site must be provided for the performers, and washer/dryer, iron, steamer. A green room or other space must be provided for Artist’s crew and performers to take breaks, eat and meet for notes during the entire time Artist is on site.

Production Office: Artist must have access to a production office with phone, fax, Internet and access to a photocopier preferred. This office must be near the site for access during setup, run and strike.

Security: The Presenter agrees to provide 24 hour security at the site from the beginning of Day 1 (first load-in day) through the morning of strike when the technical staff arrives to begin dismantling the scenery. Security will not be necessary when the Artist is working on site with local crew. Security must arrive 1 hour before scheduled departure of Artist’s staff each

day/night on site. Security must be provided during periods of inclement weather while Artist cannot be on site.

Hospitality: The company consists of 12 people, including performers and traveling technicians. Lunches should be provided on site along with water and hot beverages during the load-in and setup – 3 days. Presenter shall provide meal prior to sound check/performance

Meal available 2 1/2 hours before each performance

Light dinner, i.e. pasta and salad, or deli platter, vegetarian selections & fruit

Lodging: 6 double rooms and at a local hotel are required for 12 performers and technical staff per the schedule indicated. 2 rooms evening prior to Day 1; four rooms evening of Day 1; six rooms evening of Day 2

Merchandise: Two tables are required for merchandise. Actual location and position will be determined once the site and orientation has been determined. Additional tables/personnel may be required once general audience size has been determined.

SCENERY:

All scenery (except as noted), video equipment, properties and costumes provided by the touring company and are freestanding.

The Company requires **Stanchions or other posts, construction barrels** to tie caution/danger tape around the perimeter of the site. The Company shall provide the tape. The perimeter shall include a 20' buffer around the set, and UFO. A 5' buffer around the tech tower should also be maintained to prevent patrons keep patrons away from the stabilizing outriggers.

Scissor Lift*: Company uses a **5'x 8' to 10'** platform scissor lift during load-in and setup as and is parked DS of set scaffold and platforms for the performance. Key board, lighting and sound equipment will be installed and affixed to platform and rails. Lift will require power during the performance to elevate the platform with performers and equipment installed. The scissor lift will be used during Artist's strike of scenic and lighting equipment. (Failure to supply specified lift will severely compromise the Artists' ability to setup, strike, and perform as well as the visual aesthetics of the show.

Scissor Lift Specifications: See addendum #1

Articulating Arm Lift*: Company uses a single person platform articulating arm lift during load-in and setup as and is parked DSL of set scaffold and platforms for the performance. Lighting and sound equipment will be installed and affixed to platform and rails. Lift will require fuel and engine will be powered on during the performance to operate the arm for elevating the platform with performers and equipment installed. Multiple performers are likely to utilize the lift, but never more than 2 at any given time. The articulating arm lift will be used during Artist's strike of scenic and lighting equipment. (Failure to supply specified lift will severely compromise the Artists' ability to setup, strike, perform and visual aesthetics of the show.

Articulating Arm Lift Specifications: See addendum #1

***Lifts must be delivered to site 1 day prior to Day 1 of Artist’s residency. Failure to have lift for load-in on Day 1 shall jeopardize scenic construction and impact the Artist’s ability to meet the performance schedule.**

Scaffold/Deck/Truss/Hardware

The Company shall provide all of the scenic pieces including:
Scaffold, braces, collars, locking keys, leveling feet, railings and decking for set construction
Guy wires, stakes, cheeseboros, bracing angle & pipe, Chain motor(s)
Decking for below platforms for installing dimmer racks, distro, audio equipment

Presenter must provide water source with standard garden hose connector or fire hydrant & hose near the site to fill 14 -18 water drums (Approximately 900 gallons of water)

Crossover Lighting: Shall be provided by Company.

Props: Presenter shall provide two (2) backstage prop tables to be placed beneath the bridge. Additional tables may be required left and/or right of the platforms

LABOR:

Presenter agrees to provide at least the following crew for load-in, running and load-out of the production. An optimal crew will be one that can change job titles through out the load-in and load-out. All run crew must be dressed in black attire.

Presenter will be solely responsible for any local union or non-union requirements for labor and for any such fees, salaries, penalties, dues, benefits, etc. in connection with the presentation of the production.

Local Crew for load-in and load-out:

(Artist reserves the right to change crew requirements based upon site conditions, weather, rental equipment, and pre-production accomplishments)

For the sake of keeping on schedule, it may be necessary for the crew to switch between departments.

- 1 technical director
- 1 Site Coordinator
- 1 master electrician
- 1 automated fixture tech
- 4 electricians
- 1 head carpenter
- 6 carpenters/set and props
- 1 sound engineer
- 2 sound/video techs

Local crew for performance and rehearsals: (We may require fewer run crew personnel, however we need to have 6 – 8 crew to strike quickly in case of bad weather as well as at the end of each performance. Setup will also require this crew).

1 technical director familiar with lights and sound
1 sound/video tech
1 Site Coordinator
1 electrician/light board operator/programmer (**Company LD typically runs the lighting console during show**)
2 back stage crew for props and equipment handling
1 followspot operator

Estimated Total Tech Time: 18 hours

Breakdown of Tech Time (This is an estimate and may change)

Site pre-installation: 2 – 4 hours Day 1
Load-in and setup: 10 – 15 hours (Structural: 4 – 8 hours Day 1
Lighting, Sound, Video Equipment 4 – 6 hours) Day 1
Focus: 4 hours / Focus Point update 2 hours (Includes video projector focus) Dusk Day 1 or 2
Full tech rehearsal: 4 hours (day before first show date) Dusk Day 2 or 3
Rehearsal: 4 hours (day of show) Day light – Day 3

Running time: 65 – 75 minutes with no intermission

Traveling crew and performers will include 12 production personnel and all necessary drivers.

6 performers

6 (7) technicians

Tour Technical Director

Lighting Designer/PM

Video Designer/Operator

Sound Board Operator

Stage Manager

Tech Assistant/ALD

Sound Company technician (if presenter uses Artist's Sound Company)

SOUND – See Input List and Riser (To Follow)

The following must be installed and working prior to load-in: 100amp single phase service with CamLoks or lugs. All sound power and equipment must be isolated, grounded and rated for outdoor use. Equipment not meeting IP65 rating for outdoor use, will not be acceptable.

The sound power service shall be located under the platforms

The sound rental company shall be fully self contained downstream from the service provided by the Presenter. Sound Contractor shall supply sound equipment and for a fully working system. Equipment shall include but not be limited to the following:

Yamaha LS9 32 channel digital mixing console
12 Verrarray line array hi/mid speaker cabinets
4 4x15" sub cabinets
32x8 channel 150ft audio snake
100amp power distribution pack

6 crest cx3.0 amps
2 Crown Macro tech 5000 amps
4 monitor amps
6 monitor speakers
20 assorted microphones
Stands, Cables, mic cords, sub snakes etc.

Artist's sound company will provide the above package at a daily rate beginning Day 2 of load-in through final performance and strike. Presenter shall pay this amount to the Artist's sound company in lieu of supplying the above sound package through a vendor of their choice. The day rate will be supplied upon request.

INPUT LIST TO FOLLOW

Any alternate options for sound or audio equipment must be discussed with the TD and the Sound Tech.

Headsets: Presenter shall supply a total of 6 Clearcom/Telex wireless headsets in place for the run.

1 SR

1 SL

1 Top tech tower / or follow spot operator

1 light board op.

1 scissor lift

1 articulating lift

A wired system may be acceptable for certain positions when high quality 2 way radios are available to augment the headset system.

POWER:

Note: all power and distribution equipment must be rated for outdoor use and bear an IP65 label. All 20amp circuits must employ GFI breaker protection. Items not bearing such rating shall not be acceptable.

Stage Lighting & Dimming

300 amps/leg 3 phase, 120/208VAC, 5-wire service for conventional lighting and dimming equipment. Dimming power must include distro/disconnect for tie-in of stage dimmers.

Sound/Video/Devices

200 amps/leg single phase, 120VAC, 4-wire service for sound system, video projectors, and automated/LED devices. Sound power must include disconnect/distribution panel for sound system tie-in and 20 – 20 amp circuits for individual distribution throughout the set/site.

1. Power may be delivered via generator, ground box, nearby building or other source that meets the requirements and specifications for # of wires, amperage and outdoor ratings.

2. Generator power cannot be split, meaning that a generator cannot supply both single and three phase power. Generators come in many sizes and ratings. It is best, since construction generators tend to be loud, to use generators with sound attenuation control. All generators must be placed out of view and away from audience as they produce diesel fumes that can be offensive to the audience.

3. Presenter shall provide all power distribution devices properly sized cable, junction boxes, panels and breakers for both sound and lighting power/service.

4. Presenter shall provide sufficient cable covers to cover all cable runs between the set and the tech booth.

5. Presenter shall provide the means to cover and protect from contact with ground water all power and control cable.

VIDEO: Video for the production shall be fully self contained and provided by the Artist. Power drops as indicated on the site plan lighting plot fulfill the extent of Presenter's obligation to video setup.

LIGHTING / DIMMING / CONTROL:

At least one month in advance of the first scheduled load-in day of Artist's engagement, Presenter shall receive a light plot, instrument schedule, channel hook-up, cable run schedule, device schedule, control riser diagram, template schedule and color cut list. Discussions of lighting equipment and details of lighting package shall be discussed in depth prior to finalizing the plot to ensure optimum performance at reasonable rental rates

On your technical information package please include:

- 1) Instrument inventory**
- 2) Source of power for both dimming and sound.**
- 3) Site plan of entire staging area (in scale)**

The LD works in AutoCAD and will generate in that format or as Adobe PDF files.

It is necessary that all lighting, dimming and devices be prepped in the lighting contractor's shop at least 2 days prior to scheduled load-in day. All equipment slated for this production must be in the shop for addressing, coloring, labeling, testing and shall be pre-rigged as per lighting plot and specifications. Failure to have all lighting equipment arrive prepped and ready for install at the assigned load-in time will severely impact the Artists' ability to meet the performance schedule.

Dimmers

Minimum required dimmer capacity is no fewer than **48 dimmers** at no less than 2,400 watt capacity per dimmer. 96 dimmers at 1,200 watt per dimmer shall be an acceptable substitution.

Note: Up to 24 additional dimmers may be required of Presenter is without access to LED instruments and/or automated lighting instruments of sufficient wattage.

All dimmers must be DMX controlled and have socca-pex connections with an internal patch bay. Dimmer racks without an internal patch bay or that use sliders or matrix pins for patching shall not be acceptable.

Lighting Console

Lighting console must be High End Systems Hog 3 or Road Hog. **(Artist reserves the right to bring a console with them at Presenter's expense if the above cannot be supplied by the Presenter/Lighting Contractor).** The lighting console must be available one day prior to the scheduled load-in for the lighting designer to program/setup the show in the console.

DMX: The Presenter must provide all DMX cable whether 3 or 5 pin for control runs to all devices not specifically supplied by the Artist. Company travels with DMX and LED control cable in the runs noted on the riser diagram. All other DMX cable shall be supplied by Presenter.

Lighting Instruments

1 – Medium throw Follow Spot

40 – Par 64's (WFL, MED, NAR)

(Some PAR's may be mounted on 6 bars not in truss – TBA)

The number of PAR's may increase along with total number of dimmers depending upon the number of automated and LED units available.

6 – 10 10° ellipsoidal spotlights

3 – 6 VL3000 1200 watt (or equal automated unit MAC 2000 Profile)

4 – 8 VL2500 700 watt (or equal HES x.Spot or x.Spot HO)

3 – 6 4 bar ACL's

6 -10 AF1000 or Superstrobe/Atomic3000

1 Lot Multi cable and jumpers both 2P&G and Edison

1 Lot Data cable A-3, A-4 & A-5 for DMX

1 – 10'x12" Box Truss, Spansets & shackles for mounting truss to Super Towers

20 – 40 LED pars IP65 rated for outdoor use*

1 Lot truss, fixture and mounting hardware

Miscellaneous Ltg Details

*Color Scrollers may be required of Presenters who do not have access to IP65 rated LED instruments. Scrollers must be fully tested and operational prior to the Company's Load-in.

1. Color and color frames shall be provided by the Presenter.

2. Company uses 1 follow spot provided by the Presenter.

3. Circuits and cables need to be run to the electric units provided by the Artist. (fogger, video projectors, LED units, musical instruments.).
4. Prior to making any equipment, color or other lighting substitutions, the Presenter's TD must first discuss them with the LD and receive permission to make a substitution.
5. Lighting instruments indicated with special mounting must arrive with the necessary mounting device and hardware. Most lighting instruments should be pre-mounted prior to arriving on site.
6. All lighting circuits and cable runs must be labeled clearly for quick installation and removal due to severe weather.
7. Some ground mounted instruments may need additional cabling to accommodate site anomalies. All cables must have sufficient slack to enable adjustment for final placement once the set is fully assembled.
8. All lighting cues and effects must be preloaded into the Hog lighting console prior to the load-in. Failure to pre-load lighting cues will severely impact performances and/or aesthetic quality of the show.
9. Lighting contractor shall provide weather bags for his equipment in case of bad weather.

Lighting/Schedule:

Lighting instruments, cable, power, and control must be fully installed 6pm of the first or second day depending upon Artist's arrival and weather. Focus will commence at dusk followed by automated focus and cueing.

Day 2 and/or Day 3 evening will be for rehearsal as necessary.

If the above schedule cannot be met due to weather or late equipment arrivals, then additional crew and lifts may be necessary to maintain performance scheduled. (Please discuss with LD and Production Mgr.)

ASTRO-RAMA Technical Rider Addendum #1

Scissor Lift: Company uses a **5'x 8' to 10'** platform scissor lift during load-in and setup as and is parked DS of set scaffold and platforms for the performance. Key board, lighting and sound equipment will be installed and affixed to platform and rails. Lift will require power during the performance to elevate the platform with performers and equipment installed. The scissor lift will be used during Artist's strike of scenic and lighting equipment. (Failure to supply specified lift will severely compromise the Artists' ability to setup, strike, perform and visual aesthetics .of the show. Scissor Lift Specifications: roughly 5'x 8' to 10' Deck size, **All terrain** scissor lift with a minimum 25' platform height.

Preferred Models: GS-2668 RT (Genie) or Skyjack model # SJ7127

SELF-PROPELLED SCISSOR LIFTS GS™-2668 RT & GS™-3268 RT



Specifications

MODELS	GS™-2668 RT		GS™-3268 RT	
	US	Metric	US	Metric
Working height maximum*	32 ft	9.92 m	38 ft	11.75 m
1 Platform height maximum	26 ft	7.92 m	32 ft	9.75 m
2 Platform height - stowed	3 ft 10.75 in	1.19 m	4 ft 3.75 in	1.31 m
3 Platform length - outside	8 ft 3 in	2.51 m	8 ft 3 in	2.51 m
extended	13 ft	3.96 m	13 ft	3.96 m
Slide-out platform extension deck	5 ft	1.52 m	5 ft	1.52 m
4 Platform width - outside	5 ft 1 in	1.55 m	5 ft 1 in	1.55 m
Toeboard height	6 in	.15 m	6 in	.15 m
5 Height - stowed**	7 ft 7.5 in	2.32 m	8 ft 5 in	2.45 m
rails lowered	5 ft 7 in	1.70 m	6 ft	1.83 m
6 Length - stowed	8 ft 9 in	2.67 m	8 ft 9 in	2.67 m
platform extended	13 ft 5.5 in	4.10 m	13 ft 5.5 in	4.10 m
with outriggers	11 ft 3 in	3.38 m	11 ft 3 in	3.38 m
7 Width	5 ft 8 in	1.73 m	5 ft 8 in	1.73 m
8 Wheelbase	6 ft 1 in	1.85 m	6 ft 1 in	1.85 m
9 Ground clearance - center	7.5 in	.19 m	7.5 in	.19 m

PRODUCTIVITY

Maximum platform occupancy***	4	4	4	4
Lift capacity	1,250 lbs	567 kg	1,000 lbs	454 kg
Extension deck capacity	300 lbs	136 kg	300 lbs	136 kg
Drive speed - stowed	3.8 mph	6.1 km/h	3.8 mph	6.1 km/h
Drive speed - raised	0.5 mph	0.8 km/h	0.5 mph	0.8 km/h
Gradeability - stowed****	35%		30%	
Maximum outrigger leveling:				
front to back	6.6°		6.6°	
side to side	10.6°		10.6°	
Turning radius - inside	5 ft	1.52 m	5 ft	1.52 m
Turning radius - outside	12 ft 1 in	3.68 m	12 ft 1 in	3.68 m
Raise/lower speed	30/35 sec		40/37 sec	
Controls	proportional		proportional	
Drive	four wheel		four wheel	
Tires - rough terrain	12 x 23.5 in	30 x 60 cm	12 x 23.5 in	30 x 60 cm

POWER

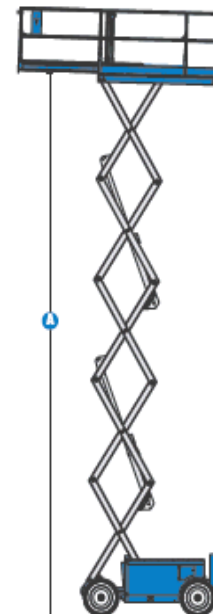
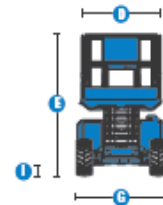
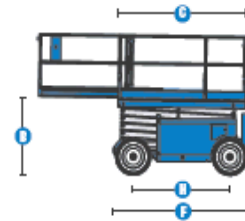
Power source	Kubota DF-752 gas/LPG 22 hp Kubota D-905 Diesel 20 hp Perkins 403C-11 Diesel 26 hp	Kubota DF-752 gas/LPG 22 hp Kubota D-905 Diesel 20 hp Perkins 403C-11 Diesel 26 hp
Fuel tank capacity	15 gal 56.8 L	15 gal 56.8 L
Hydraulic system capacity	16.5 gal 62.5 L	16.5 gal 62.5 L

WEIGHT****

	6,373 lbs 2,891 kg	8,008 lbs 3,632 kg
with outriggers	7,434 lbs 3,372 kg	9,072 lbs 4,115 kg

STANDARDS COMPLIANCE

ANSI A92.6, CSA B354.2, CE Compliance, AS 1418.10



* The metric equivalent of working height adds 2 m to platform height. U.S. adds 6 ft to platform height.
 ** Based on RT tires; deduct 2 in (5.8 cm) for turf and non-marking tires.
 *** CE/AUS markets: GS-3268 limited to 2 person platform occupancy when used outdoors.



SELF-PROPELLED SCISSOR LIFTS GS™-2668 RT & GS™-3268 RT

Features

STANDARD FEATURES

MEASUREMENTS

GS™-2668RT

- 32 ft (9.92 m) working height
- Up to 1,250 lb (567 kg) lift capacity

GS™-3268RT

- 38 ft (11.75 m) working height
- Up to 1,000 lb (454 kg) lift capacity

PRODUCTIVITY

- 99 x 61 in (2.51 x 1.55 m) steel platform
- 60 in (1.52 m) extension deck
- Folding guardrails
- Proportional lift and drive
- Platform control with battery charge indicator and diagnostic display
- AC power to platform
- Full height swing gate
- 4WD
- Positive traction control
- Four-wheel braking
- Swing-out engine tray
- Foam-filled rough terrain tires
- Tilt level sensor with audible alarm
- Descent alarm
- Horn
- Hour meter

POWER

- Kubota gas/LPG 22 hp (16 kW)

OPTIONS & ACCESSORIES

PRODUCTIVITY

- Automatic leveling hydraulic outriggers
- Air line to platform
- Pipe cradle (pair)
- Non-marking rough terrain tires 12 x 23.5 in (30 x 60 cm)
- Dual flashing beacons
- Motion alarm
- Platform work lights

POWER OPTIONS

- Kubota diesel 20 hp (15 kW)
- Perkins diesel 26 hp (19 kW)
- 2000 AC Watt generator (120V/60 Hz)
- Diesel Scrubber (Perkins)
- Cold weather package
- Arctic package
- Hydraulic oil cooler
- LPG steel tank only, 33.5 lb capacity
- Additional LPG tank and carrier



Genie United States

18340 NE 76th Street
P.O. Box 97030
Redmond, Washington 98073-9730
Telephone +1 (425) 881-1800
Toll Free in USA/Canada +1 (800)-536-1800
Fax +1 (425) 883-3475

Genie Europe

Millennium House
Brunel Drive
Newark NG24 2DE
UK
Telephone +44 (0)1476 584333
Fax +44 (0)1476 584334
Email: infoeurope@genieind.com

Distributed By:

Effective Date: July, 2008. Product specifications and prices are subject to change without notice or obligation. The photographs and/or drawings in this document are for illustrative purposes only. Refer to the appropriate Operator's Manual for instructions on the proper use of this equipment. Failure to follow the appropriate Operator's Manual when using our equipment or to otherwise act irresponsibly may result in serious injury or death. The only warranty applicable to

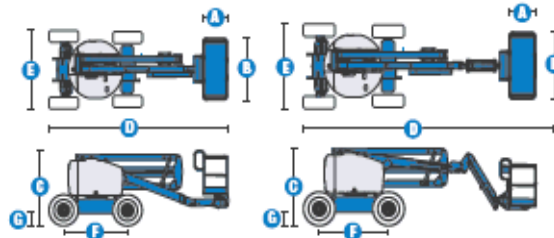
Articulating Arm Lift: Company uses a single person platform articulating arm lift during load-in and setup. Unit is parked DSL of set scaffold and platforms for the performance. Lighting and sound equipment will be installed and affixed to platform rails. Lift will require fuel and engine will be powered on during the performance to operate the arm for elevating the platform with performers and equipment installed. Multiple performers are likely to utilize the lift, but never more than 2 at any given time. The articulating arm lift will be used during Artist's strike of scenic and lighting equipment. (Failure to supply specified lift will severely compromise the Artists' ability to setup, strike, perform and visual aesthetics of the show. Articulating Arm Lift specifications: **Rough terrain** Articulating Boom Lift, with 35-40' platform height. Platform must rotate 180° - 90° left and 90° right of jib arm.

Preferred Model: Z-45/25 RT (Genie)

SELF-PROPELLED ARTICULATING BOOMS Z™-45/25 RT & Z™-45/25J RT



Specifications



MODELS	Z™-45/25 RT		Z™-45/25J RT	
MEASUREMENTS	US	Metric	US	Metric
Working height maximum*	51 ft 11 in	16.00 m	52 ft 2 in	16.07 m
Platform height maximum	45 ft 11 in	14.00 m	46 ft 2 in	14.07 m
Horizontal reach maximum	25 ft	7.62 m	25 ft 1 in	7.65 m
Up and over clearance maximum	23 ft 6 in	7.16 m	23 ft 6 in	7.16 m
A Platform length	2 ft 6 in	.76 m	2 ft 6 in	.76 m
B Platform width	6 ft	1.83 m	6 ft	1.83 m
C Height - stowed	6 ft 11 in	2.11 m	6 ft 11 in	2.11 m
D Length - stowed	18 ft 3 in	5.56 m	22 ft 5 in	6.83 m
E Width	7 ft 6 in	2.29 m	7 ft 6 in	2.29 m
F Wheelbase	6 ft 8 in	2.03 m	6 ft 8 in	2.03 m
G Ground clearance - center	1 ft 3.5 in	.39 m	1 ft 3.5 in	.39 m

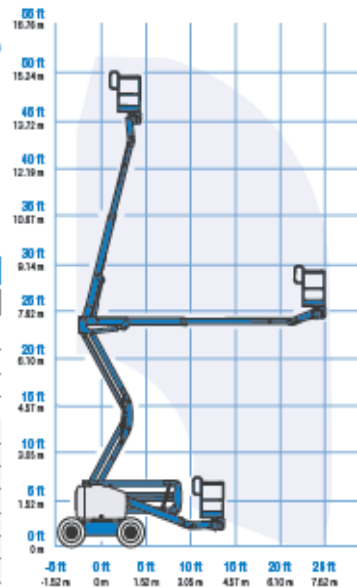
PRODUCTIVITY				
Lift capacity	500 lbs	227 kg	500 lbs	227 kg
Platform rotation	180°		160°	
Vertical Jib rotation	—		135°	
Turntable rotation	355° non-continuous		355° non-continuous	
Turntable tailswing	zero		zero	
Drive speed - stowed	5.0 mph	8.0 km/h	5.0 mph	8.0 km/h
Drive speed - raised**	0.68 mph	1.1 km/h	0.61 mph	1.0 km/h
Gradeability - 2WD - stowed***	30%		30%	
Gradeability - 4WD - stowed***	45%		45%	
Turning radius - inside	5 ft 6 in	1.70 m	5 ft 6 in	1.70 m
Turning radius - outside	14 ft 9 in	4.50 m	14 ft 9 in	4.50 m
Controls	12 V DC proportional		12 V DC proportional	
Tires	355/55 D625		355/55 D625	

POWER				
Power source	Ford D5G-423 4 cylinder gas/LPG 75 hp (56 kW) Deutz diesel D2011L031 3 cylinder diesel 48 hp (35.8 kW) Perkins diesel 404-D22 4 cylinder diesel 51 hp (38 kW)			
Auxiliary power unit	12 V DC		12 V DC	
Hydraulic tank capacity	24 gal	90.8 L	24 gal	90.8 L
Fuel tank capacity	17 gal	64.4 L	17 gal	64.4 L

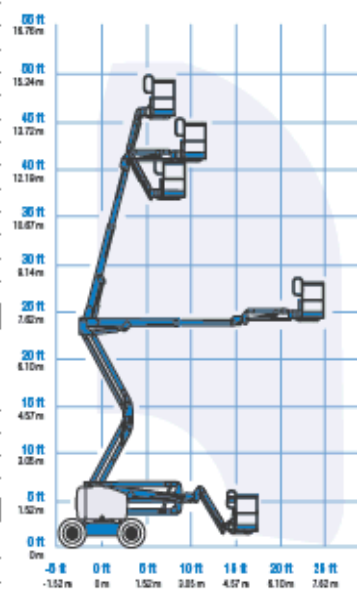
WEIGHT****				
2WD	13,675 lbs	6,203 kg	14,300 lbs	6,486 kg
4WD	13,875 lbs	6,294 kg	14,500 lbs	6,577 kg

STANDARDS COMPLIANCE ANSI A92.5, CSA B364.4, CE Compliance, AS 1418.10

RANGE OF MOTION Z™-45/25 RT



RANGE OF MOTION Z™-45/25J RT





SELF-PROPELLED ARTICULATING BOOMS Z™-45/25 RT & Z™-45/25J RT

Features

EASILY CONFIGURED TO MEET YOUR NEEDS

PLATFORM OPTIONS

- Steel 6 ft (1.83 m) (standard)
- Steel 4 or 5 ft (1.22 or 1.52 m)
- Steel 6 ft (1.83 m) tri-entry**

JIB OPTIONS

- Non-jib
- 5 ft (1.52 m) jib boom

POWER OPTIONS

- Ford gas/LPG 75 hp (56 kW)
- Deutz diesel 48 hp (35.8 kW)
- Perkins diesel 51 hp (38 kW)

DRIVE OPTIONS

- 2WD
- 4WD

AXLE OPTIONS

- Active oscillation (standard on 4WD)
- Non-oscillating

TIRE OPTIONS

- Rough terrain air-filled (standard)
- Rough terrain foam-filled
- Rough terrain non-marking (air or foam-filled)
- High flotation
- Sealant treated air-filled

STANDARD FEATURES

MEASUREMENTS

Z™-45/25 RT

- 51 ft 11 in (16.00 m) working height
- 25 ft (7.62 m) horizontal reach
- 23 ft 6 in (7.16 m) up and over clearance
- Up to 500 lb (227 kg) lift capacity

Z™-45/25J RT

- 52 ft 2 in (16.07 m) working height
- 25 ft 1 in (7.65 m) horizontal reach
- 23 ft 6 in (7.16 m) up and over clearance
- Up to 500 lb (227 kg) lift capacity

PRODUCTIVITY

- Self-leveling platform
- Hydraulic platform rotation
- Fully proportional controls
- Drive enable
- AC power cord to platform
- Horn
- Hour meter
- Tilt alarm
- Descent alarm
- 355° non-continuous turntable rotation
- Positive traction drive
- Two speed wheel motors

POWER

- All engines are emissions compliant
- 12 V DC auxiliary power
- Engine protection package
- Deutz intake air heater
- Swing out engine tray



OPTIONS & ACCESSORIES

PRODUCTIVITY

- Platform swing gate
- Half mesh platform inserts with swing gate
- Platform top auxiliary rail
- Air line to platform
- Thumb rocker steer
- Fire resistant hydraulic oil
- Biodegradable hydraulic oil
- Standard aircraft protection package*
- Deluxe aircraft protection package*
- Basic hostile environment kit
- Tool tray
- Fluorescent tube caddy
- Pipe cradle (pair)
- Alarm package
- Panel cradle package
- Platform work lights
- Front driving lights
- Lockable platform control box cover
- Tow package

POWER

- Engine gauge package
- AC generator packages (110V/60Hz, 3000W or 220V/50Hz, 2500W)
- Cold Weather Packages
- Arctic Packages
- Diesel scrubber/spark arrestor muffler
- Diesel spark arrestor muffler
- LPG tank 33.5 lb (15.19 kg) capacity
- Additional LPG tank with carrier
- Retained key selector switch

* Reduces platform capacity to 440 lbs
** Not available on CE machines

Genie United States

18340 NE 76th Street
P.O. Box 97030
Redmond, Washington 98073-9730
Telephone +1 (425) 881-1800
Toll Free in USA/Canada +1 (800) 536-1800
Fax +1 (425) 883-3475

Genie Europe

Millennium House
Brunel Drive
Newark NG24 2DE
UK
Telephone +44 (0)1476 584333
Fax +44 (0)1476 584334
Email: infoeurope@genieind.com

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