

SUSPENSION SYSTEMS

Suspension Systems can provide an effective solution for all studios requiring the capability of meeting a variety of production needs and having an efficient method of achieving short rigging times. Ideally the design of the building structure will be closely co-ordinated from the concept stage of a new studio complex to ensure an optimum layout, achieve overall economies in building costs and provide an effective operational system.

For existing structures, suspension systems can be proposed to enable efficiencies in all types of studio from the largest to small continuity and news studios. Strand offers a comprehensive range of lighting hoists, scenery hoists and control systems to satisfy rigging requirements.

Strand's studio suspension equipment also provides the means to solve specific access and rigging problems economically in concert halls, theatres, multi-purpose venues and lecture theatres.

This section gives details of the most popular 'standard' ranges of studio suspension equipment. There is also an extensive range of 'special' suspension equipment which can be custom made to suit a particular application. Call Strand for further information on suspension products and studio system planning advice.

Strand's new Telescope designs offer all the safety benefits of the helical wind rope system employed on their self climbing hoists. They are available in grid, or above grid versions to suit a wide range of applications where the flexibility of single point suspension is required.

Strand's expert project planning teams are available to advise on the design of installation based around the new telescope range at an early stage in the studio planning process. More detailed information on the new telescopes is available on request.

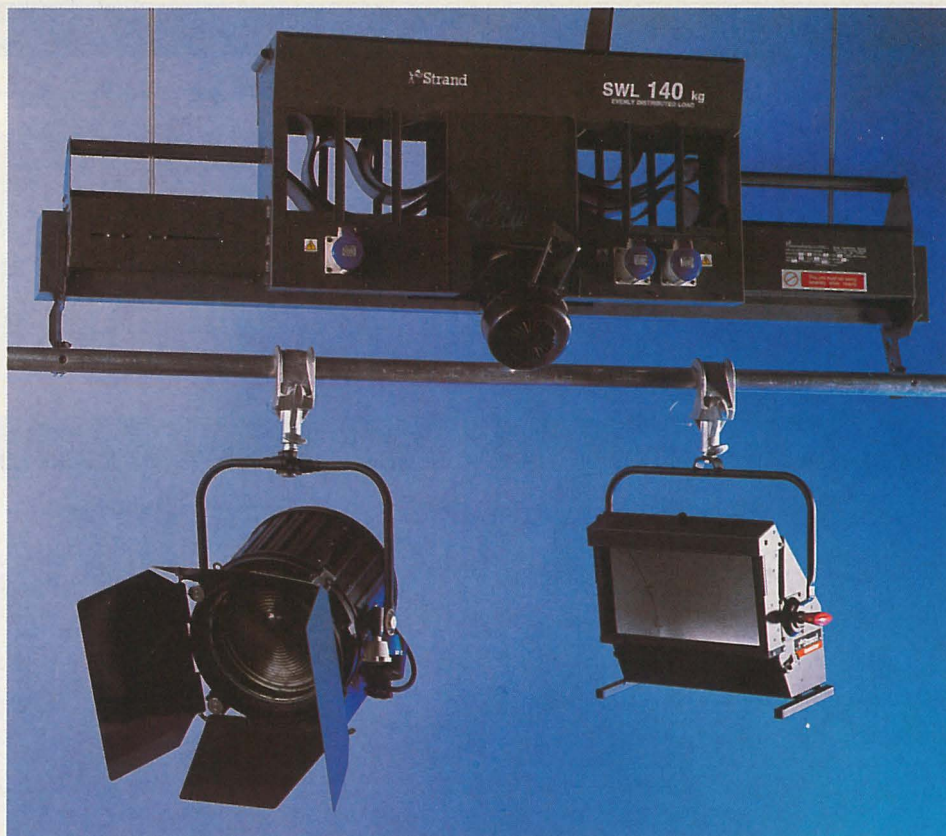
Suspension Systems Guide

Single Point Hoist Systems	Height* (m)	Studio area (m ³)
LightRig / SuperRig	3-4	10 to 75
Spring Pantograph	3-5	50 to 300
Pole Operated Pantograph	3-6	75 to 400
Motorised Pantograph	7-9	600 to 800
Motorised or Manual Telescope	10	600 to 1500

Barrel Hoists

Self-Climbing Hoist	6-14	300 to 1500
Grid Mounted Hoist	8-14	600 to 1500

* Floor to grid height



SELF-CLIMBING HOIST

BARREL LIGHTING HOISTS SELF-CLIMBING

- Individual or group control from studio floor
- Compact closed-height benefit for low headroom studios
- Helical wind for two or four wire suspension gives constant speed and keeps barrel level throughout travel range; minimises wear on suspension wires and extends operational life
- Low self-weight
- Robust design reduces chance of damage due to rough handling when rigging
- Simple inspection procedure during routine maintenance.
- Underload safety sensing halts hoist when foiled
- Mechanical load sensing protects hoist and structure from overload during operation
- Two standard chassis versions, 1.8m and 2.5m, with maximum barrel lengths of 3m and 4m
- Maximum safe working load 140kg
- Choice of lighting circuits and socket outlets
- Range of mounting kits or accessories available to suit any studio construction

SC Range of Self-Climbing Hoists

Self-Climbing hoists are an efficient system in saturation rigged studios to provide safe suspension and rapid access for rigging and de-rigging of studio lighting. Self-folding flat-form cable distributes both control signals to the hoist and power to the chassis mounted socket outlets.

Self-Climbing hoists are generally quoted for and made to special order to match specific requirements, but for information, two common arrangements are listed below. The 1.8m version includes 4-wire hoist chassis, 380/415V 50Hz gear motor assembly, 48mm diameter 3m barrel, flat cable (up to 10.5m travel), one twin 32A and one single 32A CEE17 socket assembly (3 circuits). The 2.5m version is similar, but includes a 4m barrel, flat cable (up to 12m travel), and two twin 32A CEE17 socket assemblies (4 circuits). Both arrangements include a terminal box and hoist I-beam mounting kits. Custom versions can be provided to suit particular applications.

⊠ 6-14m ◆ Travel up to 10.5m (1.8m), 12m (2.5m) ✕ 0.8m
 ▽ 380/415V ⚡ 140kg ■ 3m max (1.8m), 4m max (2.5m)
 ⬆ 95kg (1.8m), 105kg (2.5m) 120kg (1.8m), 140kg (2.5m)
 ⬇ 0.88m³ (1.8m), 1.2m³ (2.5m) ✓ CE i 3.3.1

Cat No. Description

33047	1.8m Self-Climbing Hoist, 3 x 32A Circuits, 10.5m travel
33053	2.5m Self-Climbing Hoist, 4 x 32A Circuits, 12m travel

SC Self-Climbing Hoist Accessories

Cat No. Description

33026	Hoist Terminal Box Hoist Mounting Kits (ask for details)
38001	Braked Barrel Trolley - BS Version
38002	Barrel Trolley (unbraked) - BS Version
38003	Braked Barrel Trolley - DIN Version
38004	Barrel Trolley (unbraked) - DIN Version