

LIGHTRIG

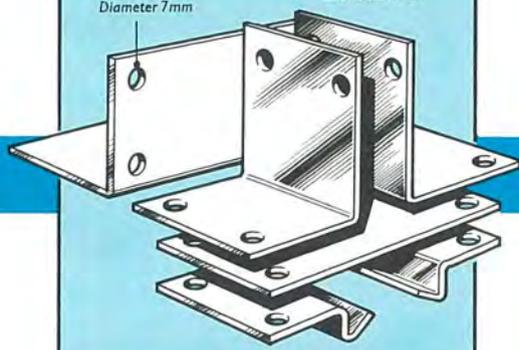
SUSPENSION SYSTEM



Strand Lighting

(1) 28 605 00

Diameter 7mm



Universal Rail Mount Bracket Assembly (clamping bolts provided)

METHODS OF MOUNTING

To facilitate secure overhead fixing of the track in different structural situations, a variety of brackets and mounting methods is available.

UNIVERSAL RAIL MOUNT BRACKET ASSEMBLY (1)

This kit provides for fixings to overhead beams. Three types of mounting arrangements are possible:

1A. In-line side mounting to beam with channel secured in bolted clamp underneath.

1B. Transverse mounting with beam at right angles to track, using cross mounting brackets.

1C. Mounting direct to flat underside of beam using face mounting brackets.

SHORT FIXING KIT (2)

This kit consists of the face mounting brackets only from the universal kit above.

ADJUSTABLE GIRDER CLAMP (3)

This adjustable clamp with channel section and fixing clamps can be secured anywhere along the lower flange of an I-type steel girder.

BACK TO BACK RAIL CLAMP (4)

The assembly clamps two lengths of track at 90° to each other.

SCAFFOLD CLAMP (5)

The bracket is securely bolted to an overhead scaffold pipe and the rail is clamped beneath it to run parallel with the pipe.

DROP CEILING SUPPORT (6)

These fixed or adjustable supports for high ceilings are secured overhead and provide rail clamping at the required height.

DROP CEILING SUPPORT (7) TUBES (38mm diameter)

To be used with the above, supplied in three lengths of 305mm, 610mm and 915mm.

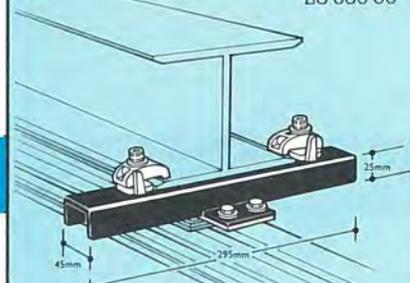
RAIL SIDE MOUNT BRACKET (8)

This 90° wall bracket provides a fixing for a lighting track or a cyclorama rail close to a wall.

TRIPLE SIDE MOUNT BRACKET (9)

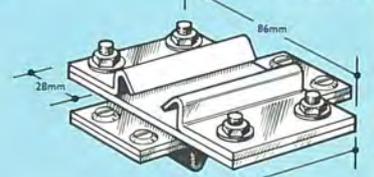
As above but with the addition of an extended channel to mount up to three tracks close to a wall.

(3) 28 650 00



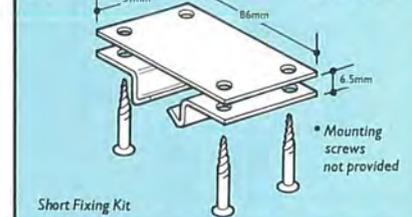
Adjustable Girder Clamp

(4) 28 632 00



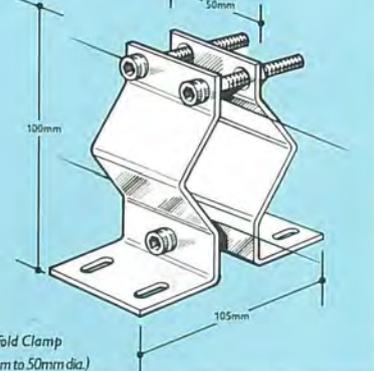
Back to Back Rail Clamp

(2) 28 629 00



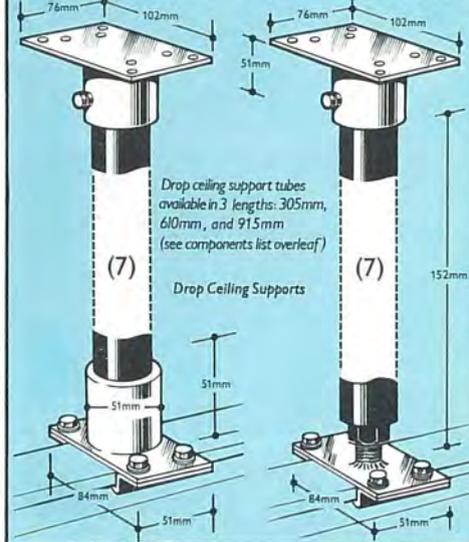
Short Fixing Kit

(5) 28 626 00



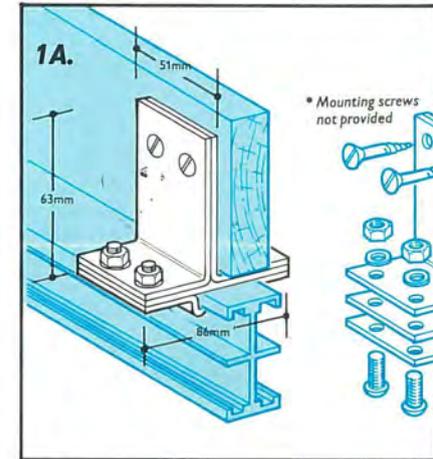
Scaffold Clamp (35mm to 50mm dia.)

(6) 28 636 00 (7) 28 657 00

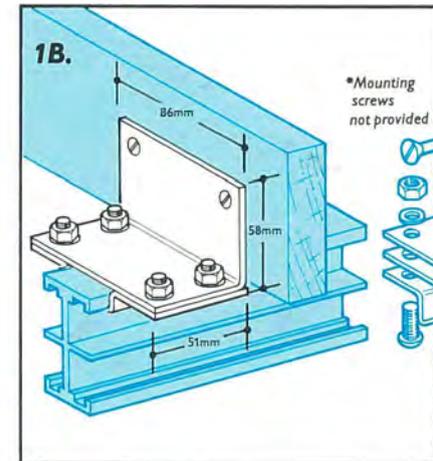


Drop ceiling support tubes available in 3 lengths: 305mm, 610mm, and 915mm (see components list overleaf)

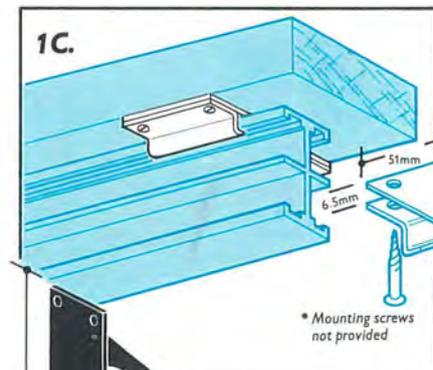
Drop Ceiling Supports



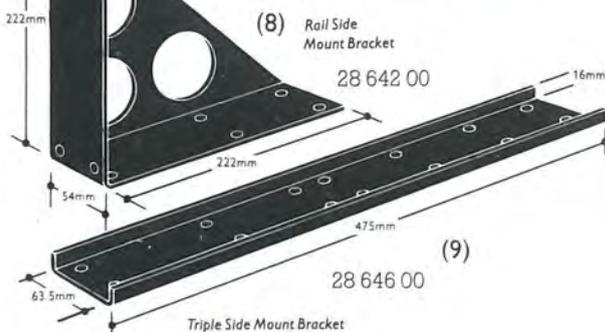
* Mounting screws not provided



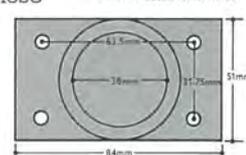
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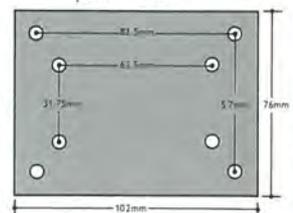


Bottom detail 7mm holes



Rail clamp plates (dimension details)

Top detail 7mm holes



LightRig

THE VERSATILE SUSPENSION SYSTEM FOR THE SMALLER TV AND VIDEO STUDIO

- Position lights anywhere in the studio
- No cross-bar jamming - rails glide on smooth-running carriages
- Ideal where floor space and ceiling height is restricted
- Floor left free of cables and lighting stands
- Curved rail for corners and cycloramas
- Leave rigged and connected for next job - speed turn-round
- Full range of accessories ensures maximum flexibility
- Economical system with robust, quality-built parts

Now at last there is a studio suspension system for the smaller studio which is practical, flexible and economical - adaptable to every lighting requirement! Strand LightRig is revolutionary in design, yet simple in concept. Cross beams are articulated and pivot on their bogie-type carriages making them capable of moving to any diagonal position. They are also free to extend in either direction beyond the parallel fixed track. Luminaires can thus be placed in any required position in the studio, reaching even the most inaccessible corners. With the use of pantographs, lights can also be set to any height.

DESCRIPTION

A basic LightRig system comprises two parallel light-weight fixed tracks equipped with free-running double carriages that support the movable cross-beams. The design of the carriages allows for cross-beam movement up and down the track, or diagonally across the track by moving only one carriage. A cross beam may also be pulled out to overhang beyond the fixed track area. Luminaires are supported from single 6 wheel carriages fitted with a standard male spigot. These make possible free movement of lights along the length of the cross beams. Lights may also be suspended from the

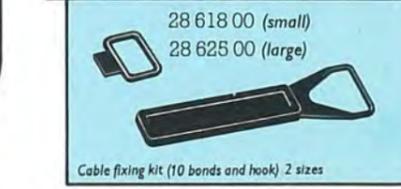
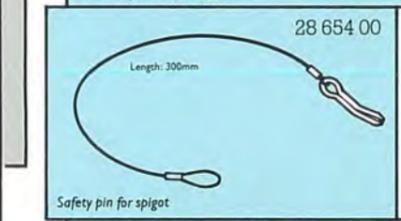
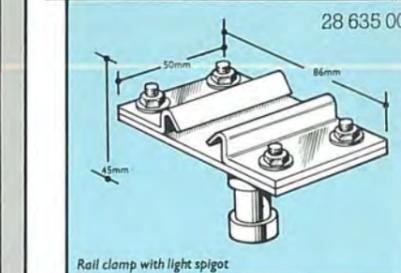
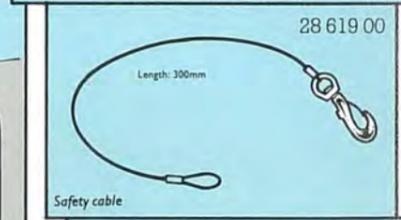
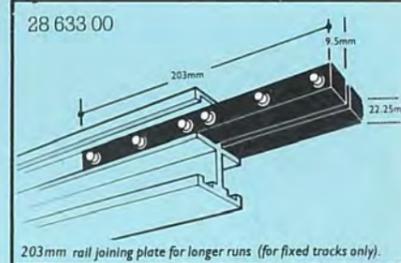
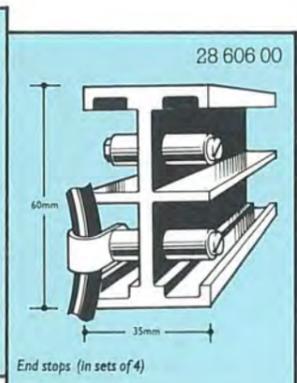
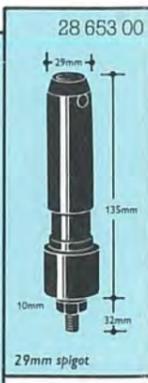
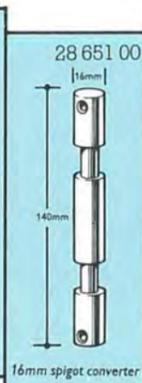
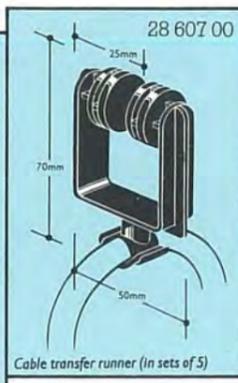
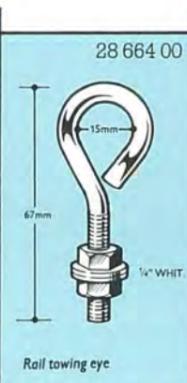
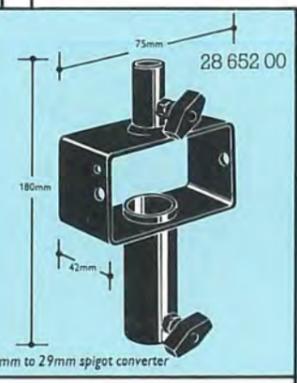
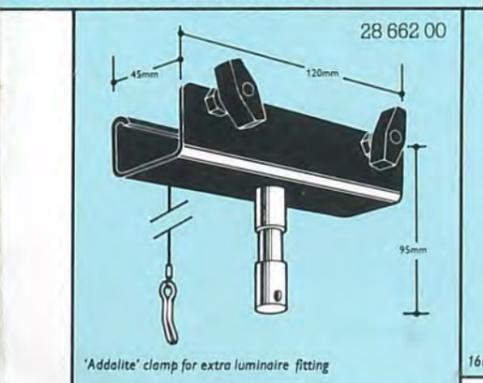
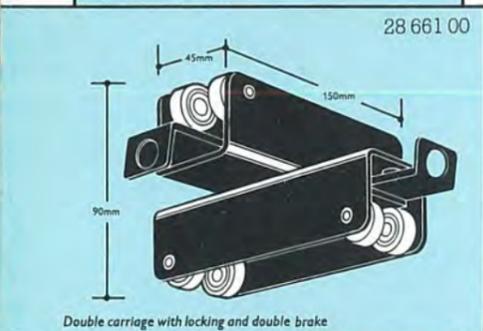
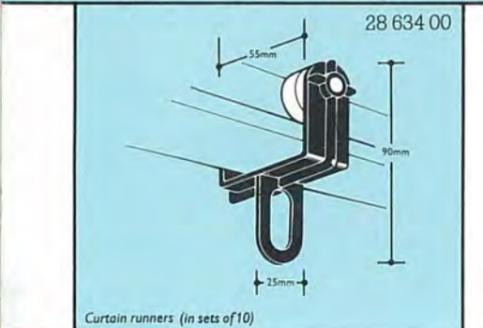
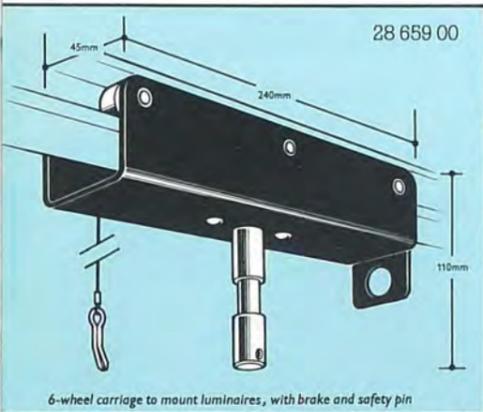
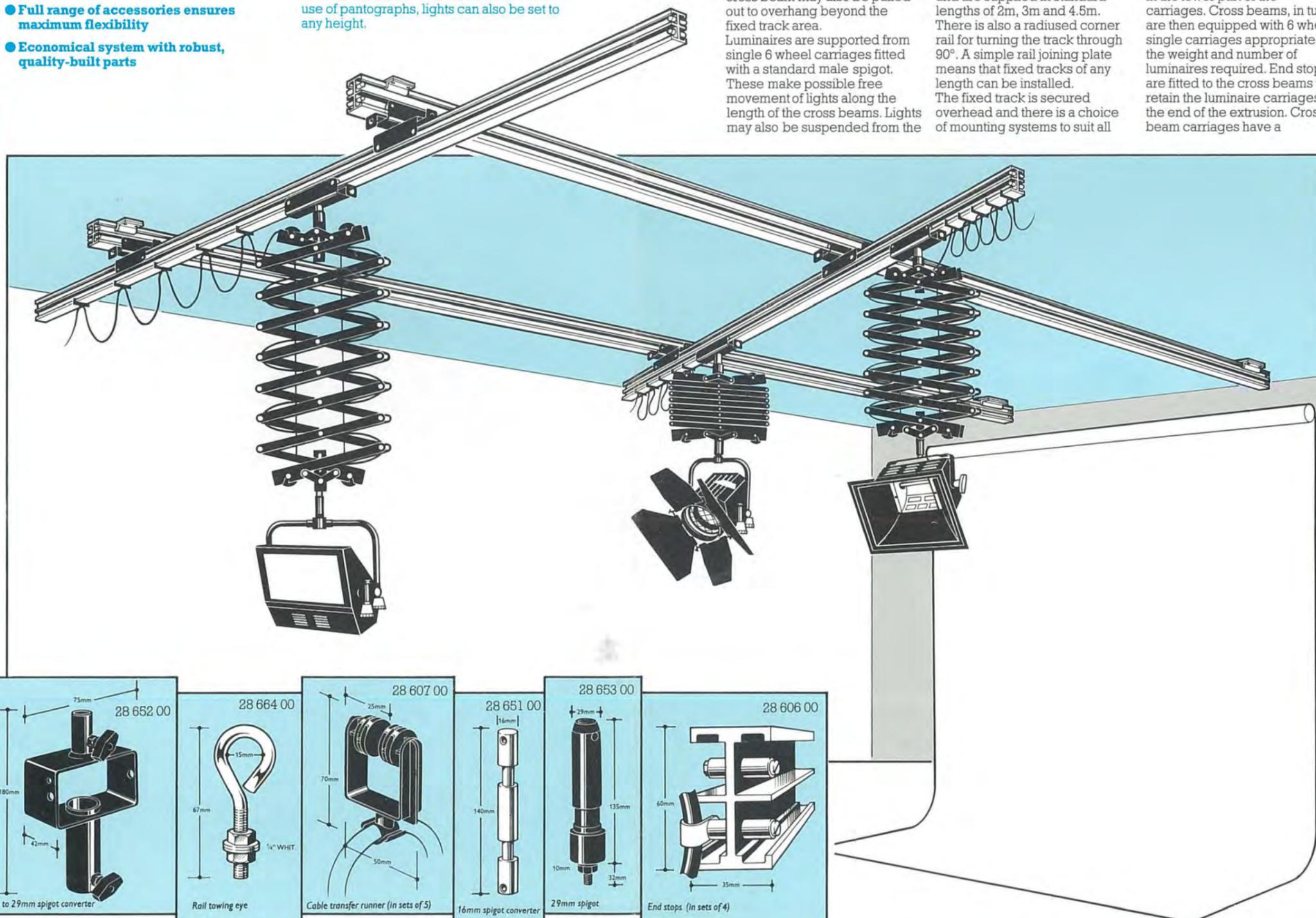
fixed track, if required, for movement in two directions only. To prevent uncontrolled fast movement of equipment along the tracks, the supporting carriages and luminaire support carriages incorporate pre-set friction brakes.

SIMPLE TO INSTALL

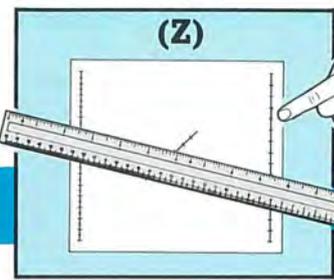
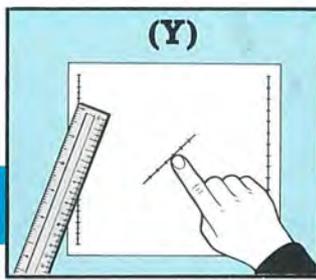
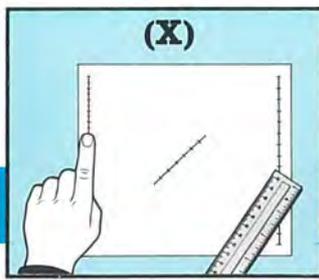
The extrusion used for the fixed and moving tracks are identical, and are supplied in standard lengths of 2m, 3m and 4.5m. There is also a radiused corner rail for turning the track through 90°. A simple rail joining plate means that fixed tracks of any length can be installed. The fixed track is secured overhead and there is a choice of mounting systems to suit all

types of structures. The parallel spacing or pitch of the track depends on studio requirements with consideration also given to loading limits when cross beams carrying luminaires extend beyond the track. Double carriage assemblies and channel end stops are fitted to the fixed overhead track, and cross beams located in the lower part of the carriages. Cross beams, in turn, are then equipped with 6 wheel single carriages appropriate to the weight and number of luminaires required. End stops are fitted to the cross beams to retain the luminaire carriages at the end of the extrusion. Cross beam carriages have a

standard 16mm (5/8") male spigot for fixing luminaires direct, or for mounting a pantograph. An adaptor is available to connect the mounting spigot into a 29mm (1 1/8") female socket to mount larger lights directly onto the carriage. Cable transfer runners are located on the rail to move with luminaires, keeping cable looped along the track. The far end of the light cables may be connected with a plug-top to the supply without need for dedicated sockets, so lights can be plugged in as required. All LightRig components are available separately so that systems can be planned exactly to suit individual needs.

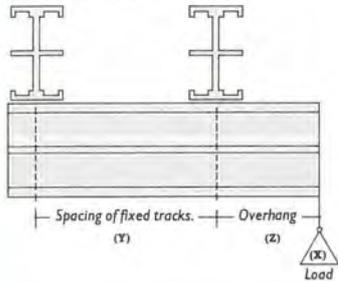


LOADING LIMITS



OVERHEAD FIXING

The fixed track of the Strand LightRig system must be secured to a load-bearing structure capable of carrying the full weight of all track, luminaires and accessories. To calculate the weight of a system use the component weights table on the back page.



SYSTEM LOADING

The LightRig system itself is robustly built with strong, rigid extrusions, and carriages with nylon wheels, designed to carry the weight of cross beams and luminaire/pantograph loads with capacity to spare. The maximum load is determined by the track suspension clips, with a 6:1 safety factor: the load on each pair of suspension clips must not exceed 50kg. Because the cross beams can be bunched together their loads must be calculated when they are all adjacent to one another. Allowing a space between for the size of the lights the load

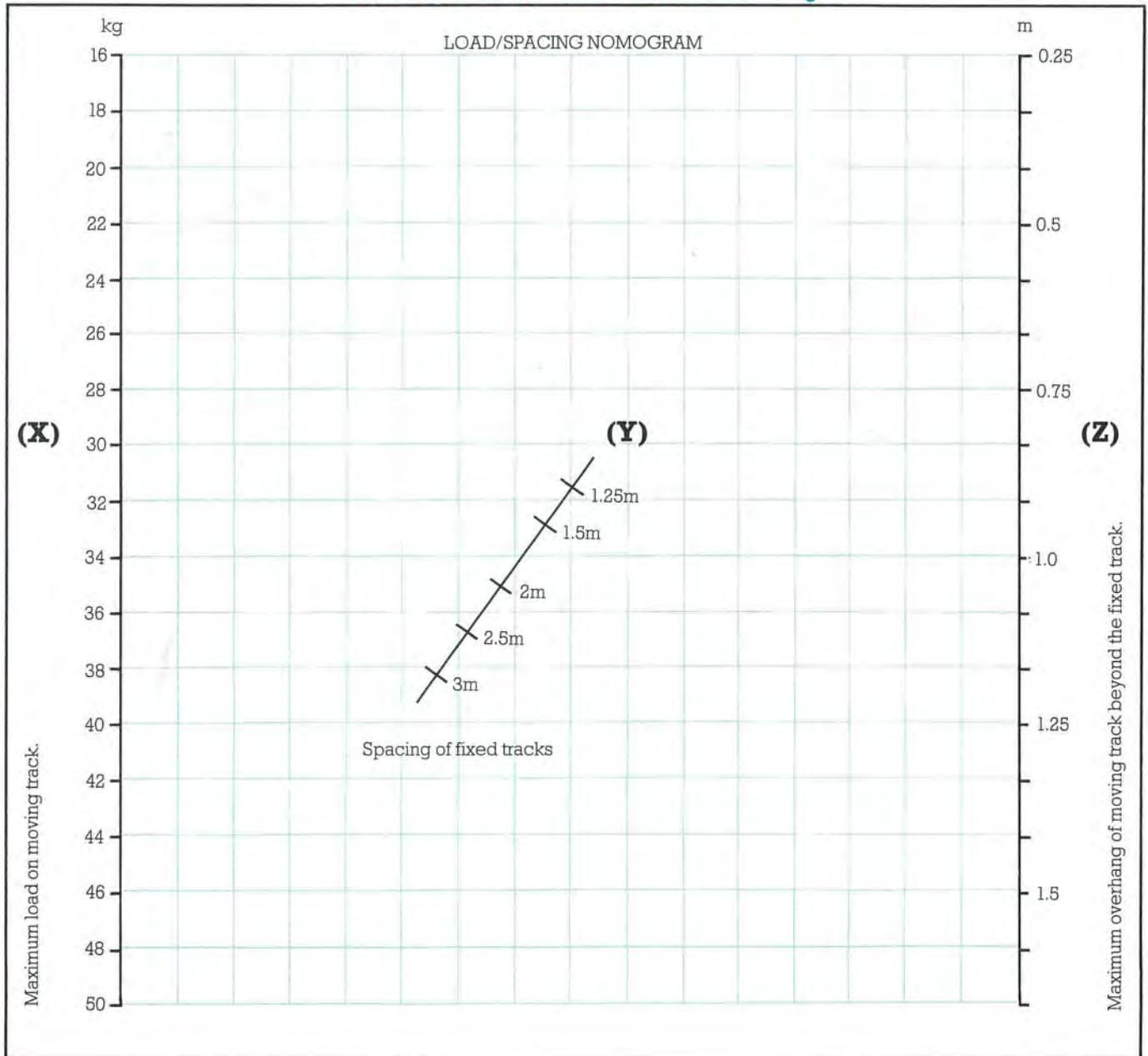
can then be calculated and a fixing provided at each point where a 50kg load occurs. However, when planning a system layout, allowance must be made for the extra loading placed on carriages when cross beams are extended outside the fixed tracks. The determining factors in assessing these loading limits are the spacing or pitch of the fixed tracks, the amount of overhang of the cross beam and the load on the cross beam. Using a straight edge on the nomogram below, loading limits (with a 6:1 safety factor) can be calculated for various situations.

Joining plates are not recommended to extend moving tracks. Ensure that there is a fixing adjacent to each rail joint and at spacings to provide a support at every 50kg loading along the rail.

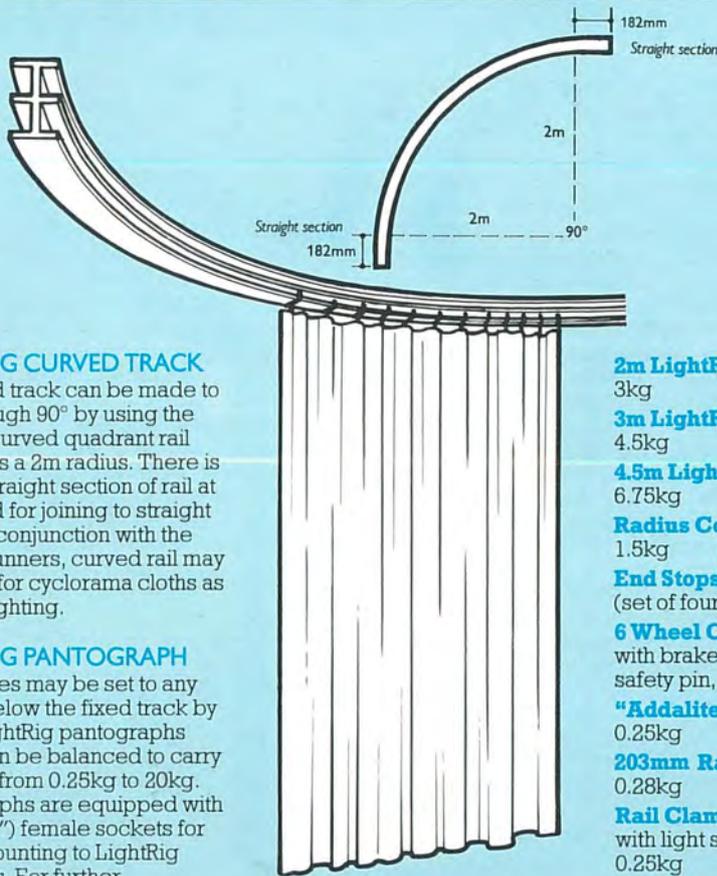
EXAMPLE

With a pitch of 2.5m and a load of 34kg the permitted overhang would be (1.28m). Increasing the overhang to 1.5m would necessitate a minimum pitch of 3m (or a reduced load).

LIGHTRIG LOADING LIMITS (6:1 SAFETY FACTOR)
MAXIMUM LOAD PER PAIR OF FIXING CLIPS = 50kg



COMPONENTS



LIGHTRIG CURVED TRACK

The fixed track can be made to turn through 90° by using the special curved quadrant rail which has a 2m radius. There is a short straight section of rail at each end for joining to straight track. In conjunction with the curtain runners, curved rail may be used for cyclorama cloths as well as lighting.

LIGHTRIG PANTOGRAPH

Luminaires may be set to any height below the fixed track by fitting LightRig pantographs which can be balanced to carry any load from 0.25kg to 20kg. Pantographs are equipped with 16mm (5/8") female sockets for direct mounting to LightRig carriages. For further information ask for the Strand LightRig Pantograph data sheet.



LightRig Pantograph 28 655 00

2m LightRig Rail	3kg	28 656 10
3m LightRig Rail	4.5kg	28 600 10
4.5m LightRig Rail	6.75kg	28 601 10
Radius Corner Rail	1.5kg per metre	28 631 10
End Stops	(set of four)	28 606 00
6 Wheel Carriage	with brake and safety pin, 0.5kg	28 659 00
"Addalite" Clamp	0.25kg	28 662 00
203mm Rail Joining Plate	0.28kg	28 633 00
Rail Clamp	with light spigot, 0.25kg	28 635 00
Cable Transfer Runner	(set of 5), 0.01kg	28 607 00
Lockable Double Carriage	with double brake, 0.42kg	28 661 00
Cable Fixing Kits	(10 bonds and hook)	
	Small bonds (Up to 15 Amp cables)	28 618 00
	Large bonds (Over 15 Amp cables)	28 625 00
Curtain Runners	(set of 10), 0.01kg	28 634 00
Safety Cable	0.01kg	28 619 00
Rail Towing Eye	0.02kg	28 664 00
29mm Spigot	0.67kg	28 653 00

16mm to 29mm Spigot Converter

0.5kg 28 652 00

16mm Spigot Converter

0.175kg 28 651 00

Safety Pin

0.01kg 28 654 00

Universal Rail Mount Bracket Assembly

0.63kg 28 605 00

Rail Side Mount Bracket

1kg 28 642 00

Triple Side Mount Bracket

2kg 28 646 00

Short Fixing Kit

0.21kg 28 629 00

Back to Back Rail Clamp

0.42kg 28 632 00

Scaffold Clamp

0.35kg 28 626 00

Adjustable Drop Ceiling

Supports (top and bottom)

75mm adjustment

1.4kg 28 657 00

Fixed Drop Ceiling Supports

(top and bottom)

1.1kg 28 636 00

305mm Drop Ceiling Support

Tube

0.27kg 28 637 00

610mm Drop Ceiling Support

Tube

0.54kg 28 638 00

915mm Drop Ceiling Support

Tube

0.81kg 28 639 00

Adjustable Girder Clamp

1.43kg 28 650 00

12m Mains Lead

10 Amp with CEE connector

1.1kg 28 627 00

STRAND LUMINAIRES

A comprehensive range of luminaires covering all types and sizes for TV and video studios, theatres, clubs, schools and other locations is available from Strand Lighting. Illustrated literature sent on request.

STRAND DESIGN SERVICE

If you require advice or assistance in planning your LightRig suspension system, please take advantage of the Strand design service. A system can be designed to suit you if you send full details of your studio and requirements.

The Company reserves the right to make any variation in design or construction to the equipment described.

01 560 3171.
0895 834 142.



Strand Lighting

Rank Strand Limited,
PO Box 51, Great West Road, Brentford, Middlesex TW8 9HR, United Kingdom.
Telephone: 01-568 9222. Telex: 27976. Cables: Rankaudio Brentford