



**Little Blue
Book**
Issue 12



Welcome to the latest edition of the Little Blue Book.

This catalogue outlines a range of goods and services available from Doughty Engineering Ltd.

Doughty began the manufacture of products for the entertainment industry in 1985 and is now one of the world's leading manufacturers of rigging, suspension and lifting equipment for film/TV, theatre and concert halls.

Quality and safety are key issues for Doughty. All our products are subjected to the most rigorous testing possible and, where appropriate, are approved by the TÜV product services. Such products show the TÜV logo.

Doughty is a member of PLASA (Professional Light and Sound Association) and adheres strictly to the standards of trading expected.

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Telephone +44 1425 478961

Email sales@doughty-engineering.co.uk

Website www.doughty-engineering.co.uk



Doughty, Trigger Clamp and Twenty Clamp are registered Trade Marks of Doughty Engineering Limited.



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Aluminium Clamps

Quick Reference Guide

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Super Lightweights	Ø48 - 51mm	30mm	75kg	26 - 27
25mm Atom Clamps	Ø25mm	21mm	100kg	28 - 30
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Aluminium Clamps at a Glance



Twenty Clamp
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Doughty Clamps
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Trigger Clamps
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Baby Quick Triggers
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Quick Trigger Clamps
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Slimline Quick Triggers
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Titan Quick Triggers
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Space Savers
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Speciality Couplers
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Boom Arms
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Truss Adapters
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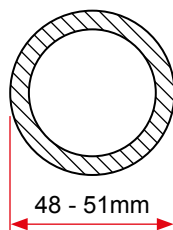
Twenty Clamp®

The Twenty Clamp is the latest addition to our range of aluminium clamps. Manufactured from pressure die cast aluminium, the Twenty Clamp has been designed to eliminate truss damage usually associated with steel hook clamps.

This stylish compact clamp has a WLL of 20kg and can be secured to tubes of 48 - 51mm diameter with just two turns of the Doughty knob. As with all major Doughty products the Twenty Clamp carries full CE marking and TÜV approval.

Main features:

- WLL 20kg
- TÜV approval
- Captive M10 or M12 bolt
- Fits 48 - 51mm diameter tubes
- Two turns to secure clamp
- Pressure die cast aluminium
- Prevents damage to thin wall truss



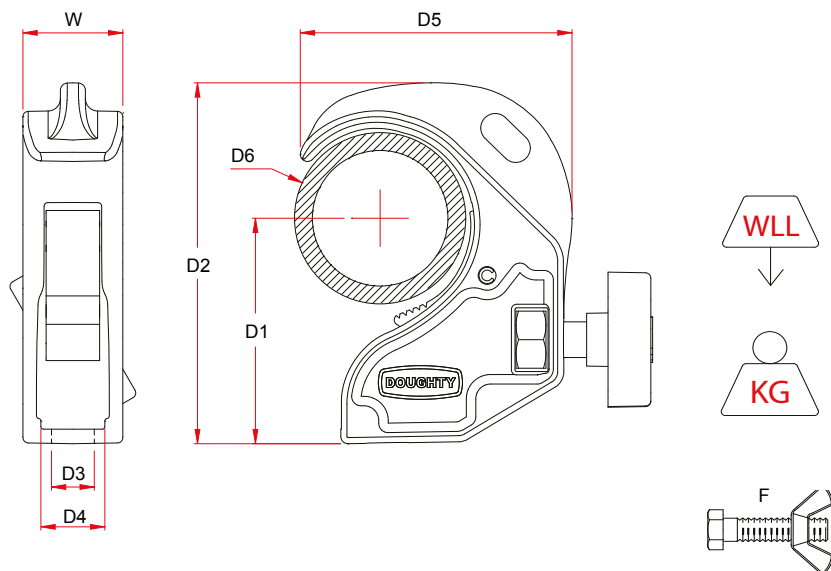


T58400



Twenty Clamp

WLL	20kg	D5	76mm
D1	63mm	D6	Ø48 - 51mm
D2	100mm	W	28mm
D3	Ø12.5mm	kg	0.26kg
D4	M10 & M12	F	M10 x 30



Laser Engraving

Doughty Engineering now offers professional laser engraving on all aluminium clamps. Any order over 100 units can now receive this fantastic offer at no extra charge. (Offer excludes T58400 Twenty Clamp)

State-of-the-art laser technology enables precise engraving of the highest quality - the perfect way to personalise clamps with your company logo.



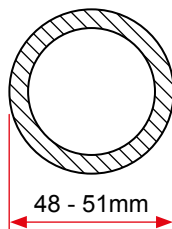
Doughty® Clamps

Doughty Clamps combine strength and durability with a high degree of safety. Constructed from high tensile aluminium & finished in either polished aluminium or black powder coated they provide a secure fixing for tubes with external diameters from 48 - 51mm.

These clamps are slotted, allowing the use of a captive M12 nut or bolt head, enabling users to create fixings suited to their own individual requirements. This clamp has been TÜV tested and approved with a WLL of up to 750kg.

Main features:

- WLL 750kg
- TÜV approval
- Captive M12 bolt
- Fits 48 - 51mm diameter tubes
- High tensile aluminium





T57000 - SILVER



T57200 - SILVER



T57120 - SILVER



T57010 - BLACK



T57201 - BLACK

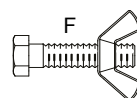
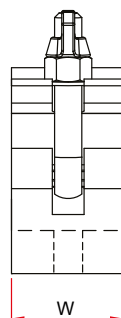
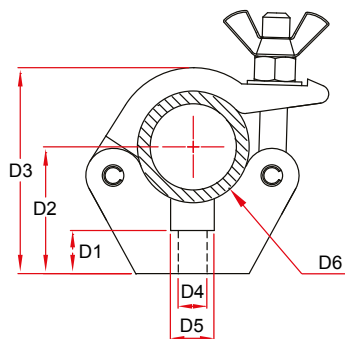


T57121 - BLACK

DOUGHTY CLAMP	
WLL	750KG
D1	19MM
D2	55MM
D3	90MM
D4	Ø12.7MM
D5	19MM
D6	Ø48 - 51MM
W	50MM
KG	0.63KG

DOUGHTY HOOK CLAMP	
WLL	750KG
D1	19MM
D2	55MM
D3	90MM
D4	Ø12.7MM
D5	19MM
D6	Ø48 - 51MM
W	50MM
KG	0.71KG
F	M12 x 50

DOUGHTY CLAMP WITH EASY GRIP	
WLL	750KG
D1	19MM
D2	55MM
D3	90MM
D4	Ø12.7MM
D5	19MM
D6	Ø48 - 51MM
W	50MM
KG	0.63KG





T57100 - SILVER



T57102 - SILVER



T57104 - SILVER



T57110 - BLACK



T57112 - BLACK



T57114 - BLACK

DOUGHTY SWIVEL COUPLER

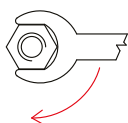
WLL	750KG
D1	110MM
D2	180MM
D3	Ø48 - 51MM
W	50MM
KG	1.33KG

DOUGHTY 90° FIXED COUPLER

WLL	750KG
D1	110MM
D2	180MM
D3	Ø48 - 51MM
W	50MM
KG	1.33KG

DOUGHTY PARALLEL COUPLER

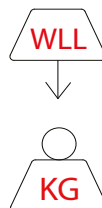
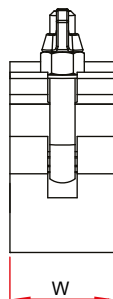
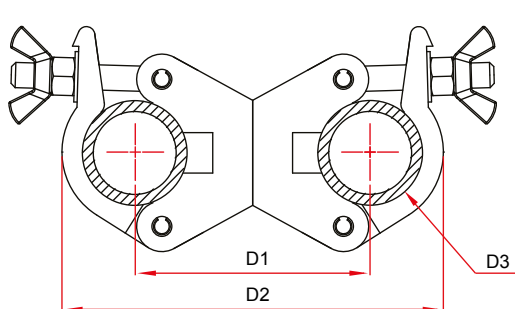
WLL	750KG
D1	110MM
D2	180MM
D3	Ø48 - 51MM
W	50MM
KG	1.33KG



MAXIMUM
TORQUE
30 N·M
22 LB·FT



TUBE DIAMETERS
48 - 51MM





T57225 - Silver
T5722501 - Black



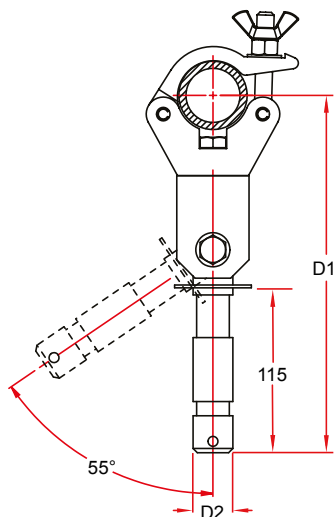
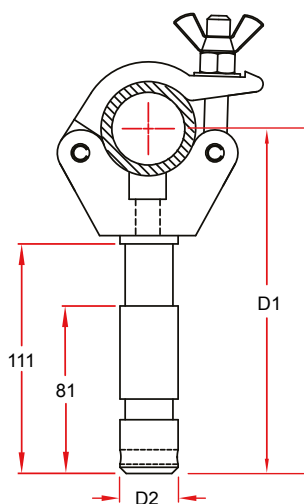
T57227 - Silver

Big Ben Clamp

WLL	200kg
D1	170mm
D2	Ø28mm
W	50mm
kg	0.86kg

Articulated Big Ben

WLL	200kg
D1	251mm
D2	Ø28mm
W	50mm
kg	1.77kg





T57223 - Silver
T57224 - Black



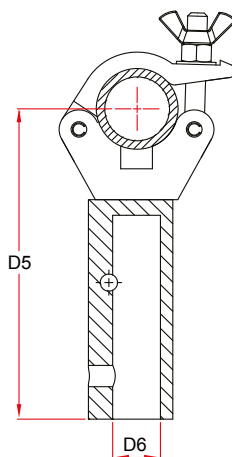
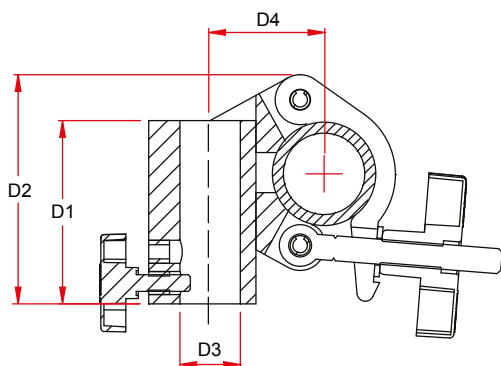
T57235 - Silver
T57236 - Black

TV Doughty Clamp

WLL	250kg
D1	83mm
D2	110mm
D3	Ø29mm
D4	55mm
W	50mm
kg	0.93kg

TV Quick Clamp

WLL	200kg
D5	190mm
D6	Ø29mm
W	50mm
kg	1.22kg





T57205



T57207



T57203



T57206



T57208



T57204

Hanging Clamp

340kg Standard Eye

WLL	340kg
D1	Ø48 - 51mm
D2	85mm
D3	Ø30mm
W	50mm
kg	0.84kg

Hanging Clamp

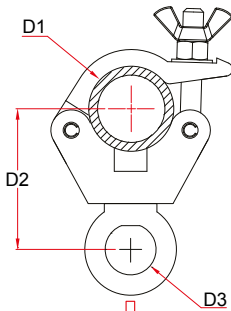
500kg Red Eye

WLL	500kg
D1	Ø48 - 51mm
D2	87.5mm
D3	Ø35mm
W	50mm
kg	0.90kg

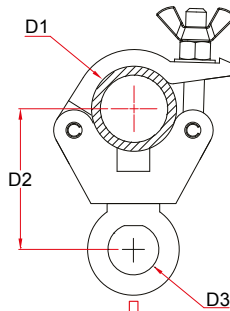
Hanging Clamp

750kg Pink Eye

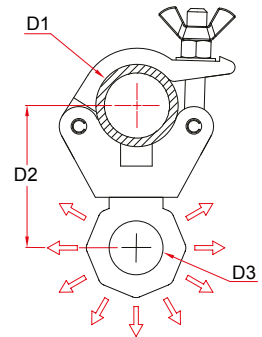
WLL	750kg
D1	Ø48 - 51mm
D2	87.5mm
D3	Ø30mm
W	50mm
kg	0.90kg



Vertical
Loads
Only



Vertical
Loads
Only



Unfavourable
Loads

Doughty®

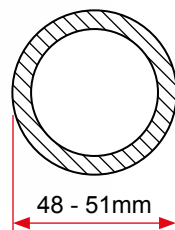
Low Profile Clamps

The Low Profile Doughty Clamp combines strength and durability with a high degree of safety. Constructed from high tensile aluminium & finished in either polished aluminium or black powder coated, this unit provides a secure fixing for tubes with external diameters from 48 - 51mm.

This clamp has been TÜV tested and approved with a WLL of 500kg.

Main features:

- WLL 500kg
- TÜV approval
- Fits 48 - 51mm diameter tubes
- High tensile aluminium





T57230



T58600



T58601


T58605 - Silver
T58606 - Black

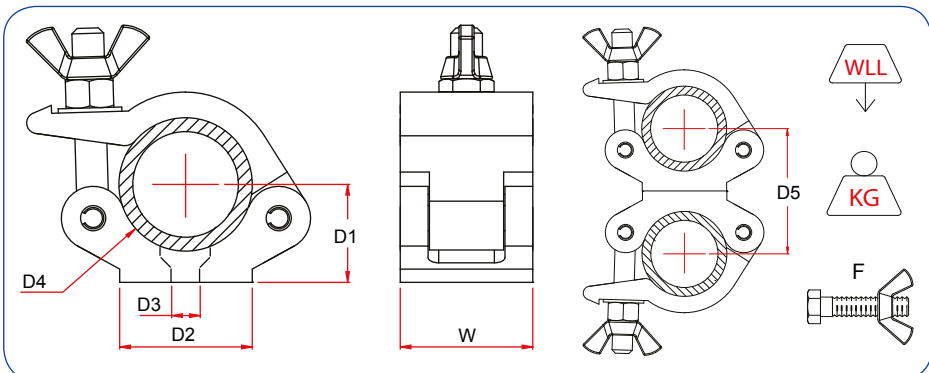
LP Weld Coupler	
WLL	500kg
D1	36mm
D2	50mm
D3	Ø12.7mm
D4	Ø48 - 51mm
W	50mm
kg	0.49kg

LP Hook Clamp	
WLL	500kg
D1	36mm
D2	50mm
D3	Ø12.7mm
D4	Ø48 - 51mm
W	50mm
kg	0.57kg

LP Swivel Coupler	
WLL	500kg
D4	Ø48 - 51mm
D5	72mm
W	50mm
kg	1.06kg

LP = Low Profile

F Countersunk M12 x 45

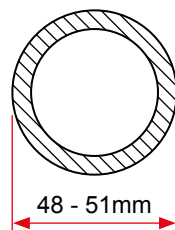
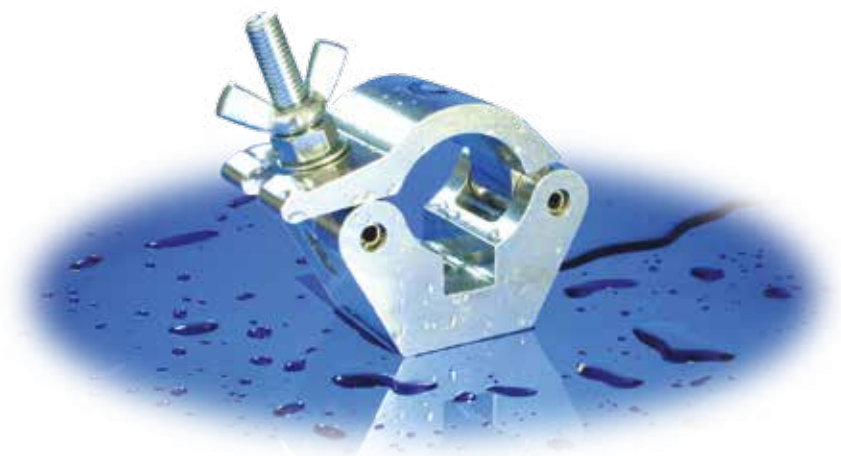


Stainless Fixings

Due to the increasing number of outdoor events using truss roof systems etc, Doughty Engineering has developed a range of Doughty Clamps with stainless steel fasteners to allow them to be used outside for prolonged periods while minimising any galvanic corrosion. These clamps have a WLL of 750kg.

Main features:

- WLL 750kg
- Captive M12 bolt
- Stainless steel fasteners
- Fits 48 - 51mm diameter tubes
- High tensile aluminium



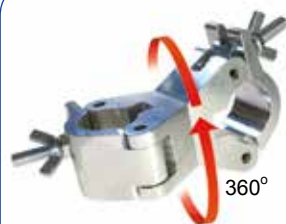
Stainless Steel Fasteners



ST57000



ST57001



ST57100

ST Doughty Clamp

WLL	750kg
D1	19mm
D2	55mm
D3	90mm
D4	Ø12.7mm
D5	19mm
D6	Ø48 - 51mm
W	50mm
kg	0.63kg

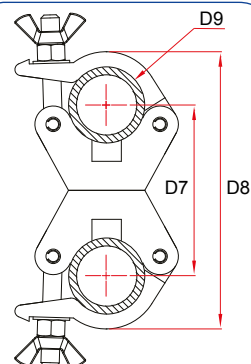
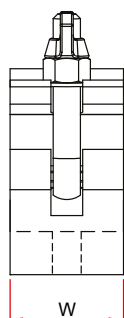
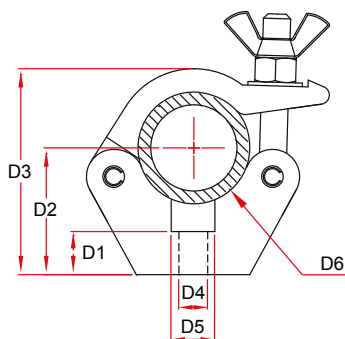
ST Slimline Clamp

WLL	750kg
D1	19mm
D2	55mm
D3	90mm
D4	Ø12.7mm
D5	19mm
D6	Ø48 - 51mm
W	30mm
kg	0.41kg

ST Swivel Coupler

WLL	750kg
D7	110mm
D8	180mm
D9	Ø48 - 51mm
W	50mm
kg	1.33kg

ST = Stainless Steel Fasteners



Slimline Doughty® Clamps

The Slimline range of Doughty Clamps carries the same features of the standard Doughty clamp range, but is just 30mm wide to allow the clamps to be used between truss webs etc. Slotted to captivate an M12 nut or bolt head, these clamps have been TÜV tested and approved with a WLL of up to 750kg.

Main features:

- WLL 750kg
- TÜV approval
- Captive M12 bolt
- Fits 48 - 51mm diameter tubes
- High tensile aluminium

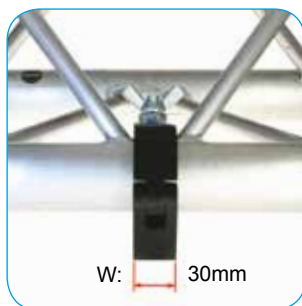




T57001



T58010



W: 30mm



T57011



T58011



T58014 - Silver
T58015 - Black

Slimline Doughty Clamp

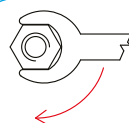
WLL	750kg
D1	19mm
D2	55mm
D3	90mm
D4	Ø12.7mm
D5	19mm
D6	Ø48 - 51mm
W	30mm
kg	0.41kg

Slimline Hook Clamp

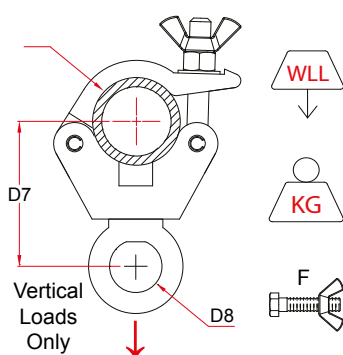
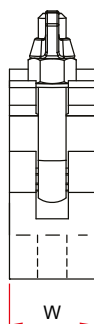
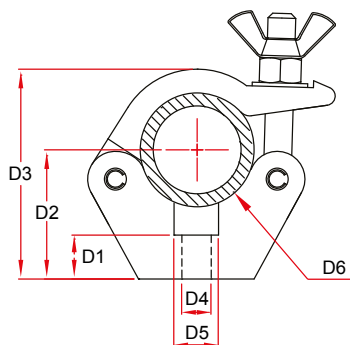
WLL	750kg
D1	19mm
D2	55mm
D3	90mm
D4	Ø12.7mm
D5	19mm
D6	Ø48 - 51mm
W	30mm
kg	0.50kg
F	M12 x 50

Slimline Hanging Clamp

WLL	340kg
D7	82mm
D8	Ø30mm
W	30mm
kg	0.61kg



Maximum
Torque
30 N-m
22 lb-ft





T58030 - Silver
T58031 - Black



T58026



T58018

Slimline Swivel Coupler

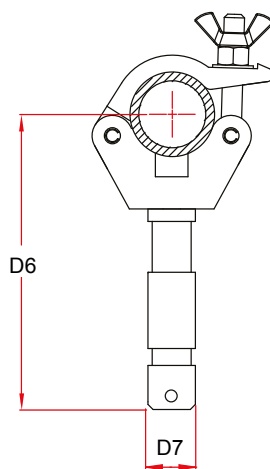
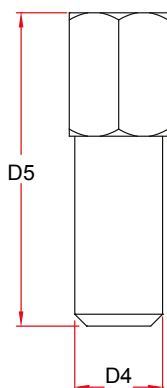
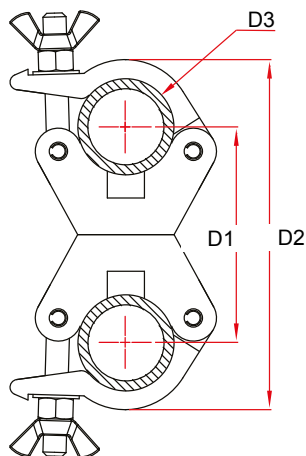
WLL	750kg
D1	110mm
D2	180mm
D3	Ø48 - 51mm
W	30mm
kg	0.89kg

Slimline Little Tom Clamp

WLL	N/A
D4	Ø19mm
D5	66mm
W	30mm
kg	0.44kg

Slimline Big Ben Clamp

WLL	200kg
D6	170mm
D7	Ø28mm
W	30mm
kg	0.48kg



Lightweight Clamps

Lightweight Doughty Clamps are constructed from high tensile aluminium extrusion and have been developed for installations where load capacities of up to 500kg are required. Designed to fit tubes with diameters of 48 - 51mm, these clamps are slotted to hold captive an M12 hexagon nut or bolt head. The lightweight half coupler has been TÜV tested and certified to a WLL and TÜV approval of 500kg. Slimline versions of this range are also available.

Main features:

- WLL 500kg
- TÜV approval
- Captive M12 bolt
- Fits 48 - 51mm diameter tubes
- High tensile aluminium
- Available in polished aluminium or black powder paint





T58100



T58105



T58107



T58101



T58106

LW Big Ben Clamp

WLL	200kg
H1	151mm
H2	Ø28mm
kg	0.63kg



T58109 - Silver
T58119 - Black

LW Clamp

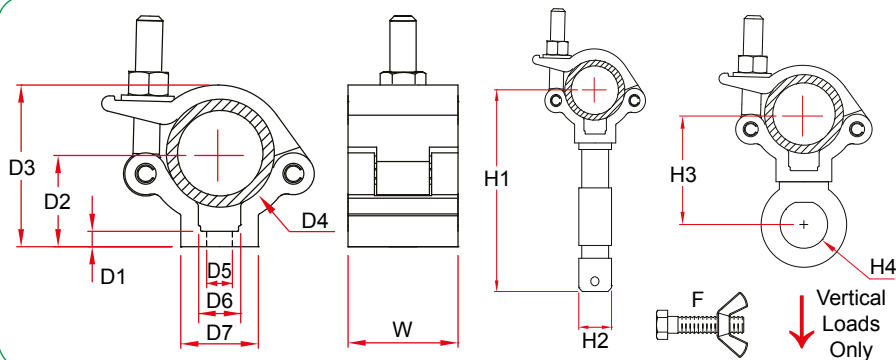
WLL	500kg
D1	7mm
D2	40mm
D3	70mm
D4	Ø48 - 51mm
D5	12.7mm
D6	19mm
D7	35mm
W	50mm
kg	0.34kg

LW Hook Clamp

WLL	500kg
D1	7mm
D2	40mm
D4	Ø48 - 51mm
D5	12.7mm
D6	19mm
D7	35mm
W	50mm
kg	0.34kg
F	M12 x 50

LW Hanging Clamp

WLL	340kg
H3	67mm
H4	Ø30mm
kg	0.44kg

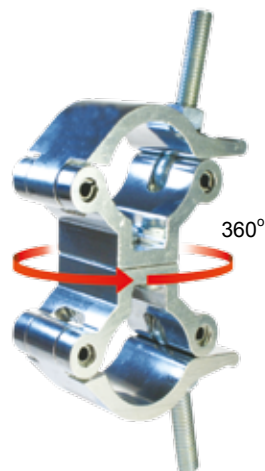




T58110 - Silver
T58111 - Black



T58115 - Silver
T58116 - Black



T58120 - Silver
T58121 - Black

LW 90° Fixed Coupler

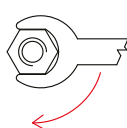
WLL	500kg
D1	80mm
D2	140mm
D3	Ø48 - 51mm
W	50mm
kg	0.76kg

LW Parallel Coupler

WLL	500kg
D1	80mm
D2	140mm
D3	Ø48 - 51mm
W	50mm
kg	0.76kg

LW Swivel Coupler

WLL	500kg
D1	80mm
D2	140mm
D3	Ø48 - 51mm
W	50mm
kg	0.76kg

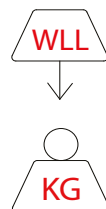
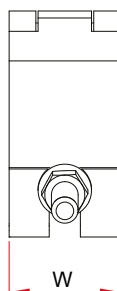
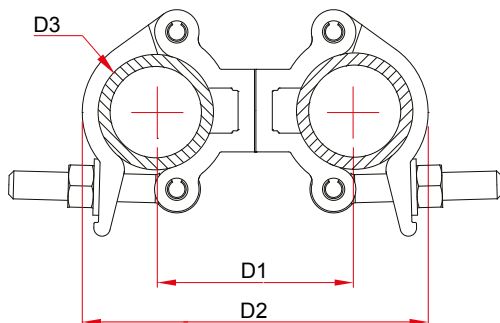


Maximum
Torque
30 N-m
22 lb-ft



Tube Diameters
48 - 51mm

LW =
Lightweight



Slimline Lightweight Clamps

Slimline Lightweight Doughty Clamps carry the same quality features of the standard lightweight range. The 30mm width allows these clamps to be used between truss webs etc.

Main features:

- WLL 300kg
- TÜV approval
- Captive M12 bolt
- Fits 48 - 51mm diameter tubes
- High tensile aluminium
- Available in polished aluminium or black powder coated

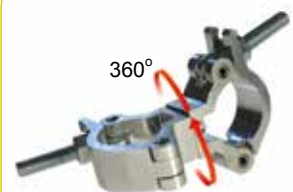




T58080



T58085



T58098 - Silver
T58099 - Black



T58081



T58086

S-line LW Swivel Coupler

WLL	300kg
W	30mm
kg	0.55kg



T58089 - Silver
T58090 - Black

Slimline LW Clamp

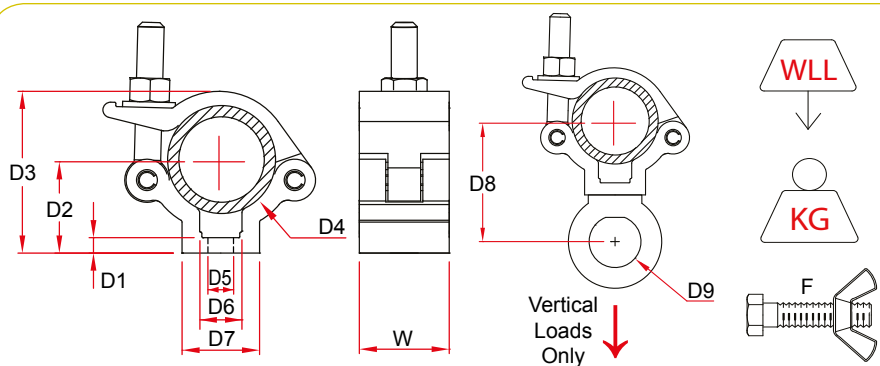
WLL	300kg
D1	7mm
D2	40mm
D3	70mm
D4	Ø48 - 51mm
D5	Ø12.7mm
D6	17 & 19mm
D7	35mm
W	30mm
kg	0.24kg

Slimline LW Hook Clamp

WLL	300kg
D1	7mm
D2	40mm
D4	Ø48 - 51mm
D5	Ø12.7mm
D6	17 & 19mm
D7	35mm
W	30mm
kg	0.32kg
F	M12 x 50

S-line LW Hanging Clamp

WLL	300kg
D8	67mm
D9	Ø30mm
W	30mm
kg	0.34kg



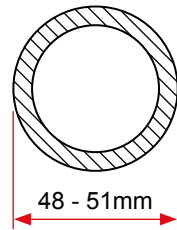
Super Lightweight Clamps

Super Lightweight Doughty Clamps are constructed from high tensile aluminium extrusions designed to fit bars with diameters between 48 - 51mm. They are slotted to hold captive an M10 nut or bolt head.

The clamps have a slimline profile of 30mm and a TÜV approval of 100kg WLL.

Main features:

- WLL 100kg
- TÜV approval
- Captive M10 bolt
- Fits 48 - 51mm diameter tubes
- High tensile aluminium
- Available in polished aluminium or black powder coated





T58122

**SLW =
Super
Lightweight**



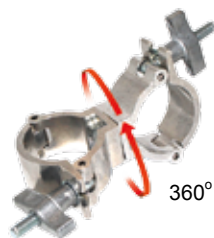
Tube Diameters
48 - 51mm



T58124 - Silver
T5812401 - Black



T5812201



T58123 - Silver
T5812301 - Black

SLW Hanging Clamp

WLL	100kg
H3	60mm
H4	Ø25mm
kg	0.28kg



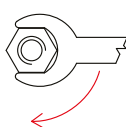
T58125 - Silver
T58126 - Black

SLW Clamp

WLL	100kg
D1	4.30mm
D2	36mm
D3	Ø10mm
D4	17mm
D5	30mm
D6	Ø48 - 51mm
W	30mm
kg	0.18kg
F	M10x30

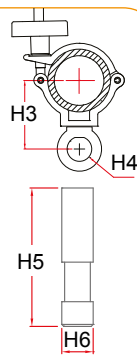
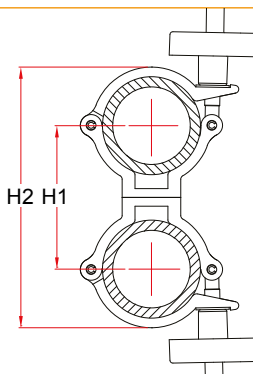
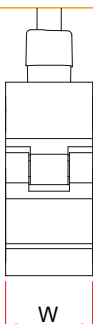
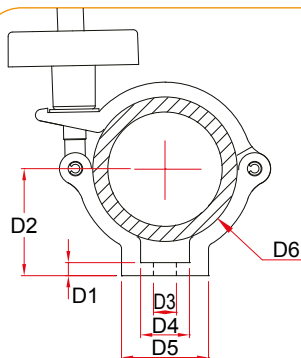
SLW Swivel Coupler

WLL	100kg
H1	72mm
H2	120mm
D6	Ø48 - 51mm
W	30mm
kg	0.40kg



SLW 'Beamer' Clamp

WLL	100kg
H5	70mm
H6	Ø16mm
W	30mm
kg	0.28kg



Atom Clamps

Atom Clamps are the smallest of the Doughty range of extruded aluminium couplers and are slotted to hold captive a nut or bolt head. These small clamps have a WLL of 100kg and are ideal for shop displays, film lighting etc. Atom clamps will fit tubes with exterior diameters of 25 - 38mm and are suitable for use not only for lightweight trusses, but also the centre tube on most varieties of stands.

Main features:

- WLL 100kg
- TÜV approval (32mm only)
- Captive bolt
- Fits 25, 32, 35 & 38mm diameter tubes
- High tensile aluminium
- Available in polished aluminium or black powder coated





T58870 - 25mm Silver
T58800 - 32mm Silver
T58900 - 35mm Silver
T58970 - 38mm Silver
T5887001 - 25mm Black
T58801 - 32mm Black
T5890001 - 35mm Black
T5897001 - 38mm Black



T58887 - 25mm Silver
T58830 - 32mm Silver
T58927 - 35mm Silver
T58997 - 38mm Silver
T5888701 - 25mm Black
T5883001 - 32mm Black
T5892701 - 35mm Black
T5899701 - 38mm Black



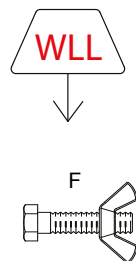
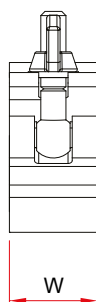
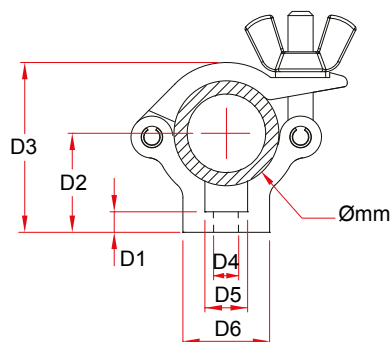
T58890 - 25mm Silver
T58840 - 32mm Silver
T58920 - 35mm Silver
T58990 - 38mm Silver
T5889001 - 25mm Black
T5884001 - 32mm Black
T5892001 - 35mm Black
T5899001 - 38mm Black

Atom Clamp

Atom Hook Clamp

Atom Hanging Clamp

	Ø25mm	Ø32mm	Ø35mm	Ø38mm
WLL	100kg	100kg	100kg	100kg
D1	5mm	5mm	5mm	5mm
D2	21mm	28mm	32mm	36mm
D3	41mm	48mm	55mm	55mm
D4	Ø6mm	Ø6mm	Ø10mm	Ø10mm
D5	10mm	10mm	14 & 17mm	17mm
D6	20mm	30mm	30mm	30mm
W	21mm	30mm	30mm	30mm
kg	0.04kg	0.08kg	0.09kg	0.09kg
F	M6 x 30	M6 x 30	M8 & M10	M10 x 30





T58885 - 25mm Silver
 T58820 - 32mm Silver
 T58915 - 35mm Silver
 T58985 - 38mm Silver
 T5888501 - 25mm Black
 T5882001 - 32mm Black
 T5891501 - 35mm Black
 T5898501 - 38mm Black



T58880 - 25mm Silver
 T58815 - 32mm Silver
 T58910 - 35mm Silver
 T58980 - 38mm Silver
 T5888001 - 25mm Black
 T5881501 - 32mm Black
 T5891001 - 35mm Black
 T5898001 - 38mm Black



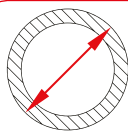
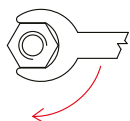
T58875 - 25mm Silver
 T58810 - 32mm Silver
 T58905 - 35mm Silver
 T58975 - 38mm Silver
 T5887501 - 25mm Black
 T5881001 - 32mm Black
 T5890501 - 35mm Black
 T5897501 - 38mm Black

Atom 90° Fixed Coupler

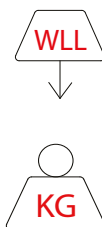
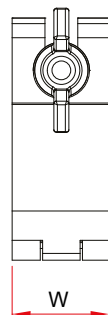
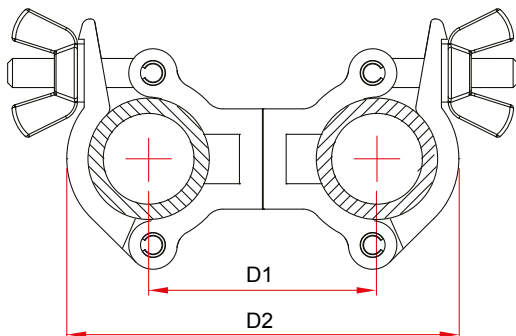
Atom Parallel Coupler

Atom Swivel Coupler

	Ø25mm	Ø32mm	Ø35mm	Ø38mm
WLL	100kg	100kg	100kg	100kg
D1	42mm	56mm	64mm	72mm
D2	82mm	96mm	110mm	110mm
W	21mm	30mm	30mm	30mm



Tube Diameters
 25mm, 32mm, 35mm & 38mm

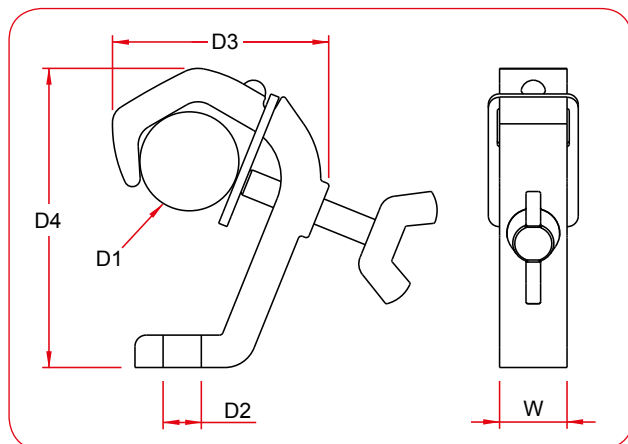


Atom G Clamp

The Atom G Clamp is designed specifically for small architectural luminaires.

Main features:

- WLL 20kg
- Fits 25, 32, 35 & 38mm diameter tubes
- High tensile aluminium
- Available in polished aluminium or black powder coated



Atom 'G' Clamp	
T58450	Silver
T58451	Black
WLL	20Kg
D1	Ø25mm
D2	Ø8.5mm
D3	48mm
D4	67mm
W	15mm
kg	0.05kg

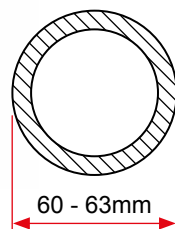
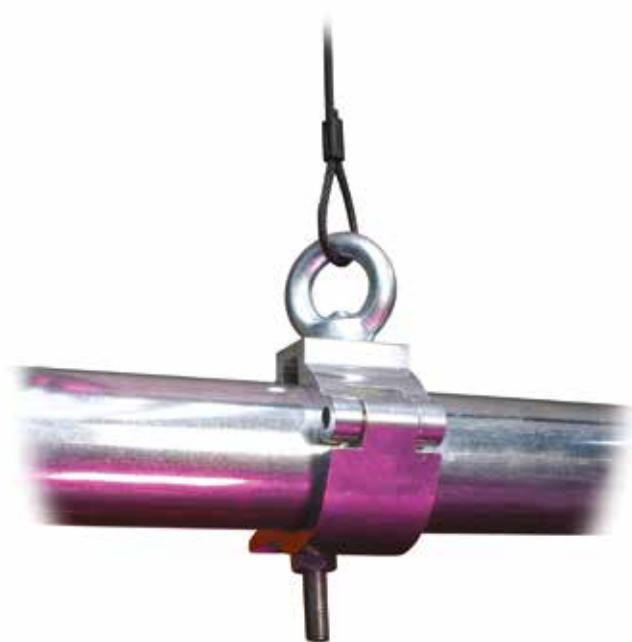
Mammoth Clamps

The Mammoth Clamp range has been designed to fit tubes with a diameter of 60 - 63mm. The Mammoth half coupler is TÜV tested and certified for a WLL of 500kg.

As with most other Doughty couplers, the high tensile aluminium base is slotted to hold captive a nut or bolt head.

Main features:

- WLL 500kg
- TÜV approval
- Captive M10 & M12 bolt
- Fits 60 - 63mm diameter tubes
- High tensile aluminium
- Available in polished aluminium or black powder paint





T57400



T57410



T57450



T57401



T57411



T57451

Mammoth Clamp

WLL	500kg
D1	7mm
D2	47mm
D3	87mm
D4	Ø12.7mm
D5	17 & 19mm
D6	35mm
D7	Ø60 - 63mm
W	50mm
kg	0.41kg

Mammoth Hook Clamp

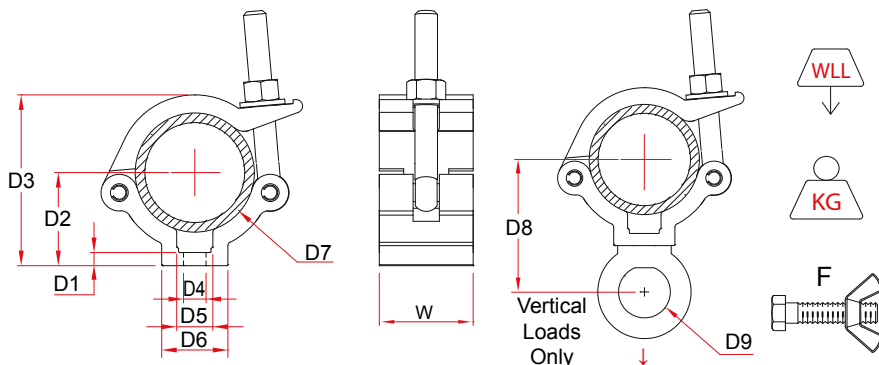
WLL	500kg
D1	7mm
D2	47mm
D3	87mm
D4	Ø12.7mm
D5	17 & 19mm
D7	Ø60 - 63mm
W	50mm
kg	0.49kg
F	M12 x 50

Mammoth Hanging Clamp

WLL	340kg
D8	74mm
D9	Ø30mm
W	50mm
kg	0.51kg
F	M12 Eye Nut



Tube Diameters
60 - 63mm





T57430 - Silver
T57431 - Black



T57420 - Silver
T57421 - Black



T57440 - Silver
T57441 - Black

Mammoth 90° Fixed

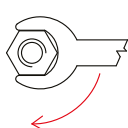
WLL	500kg
D1	94mm
D2	174mm
D3	Ø60 - 63mm
W	50mm
kg	0.90kg

Mammoth Swivel Coupler

WLL	500kg
D1	94mm
D2	174mm
D3	Ø60 - 63mm
W	50mm
kg	0.90kg

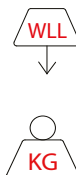
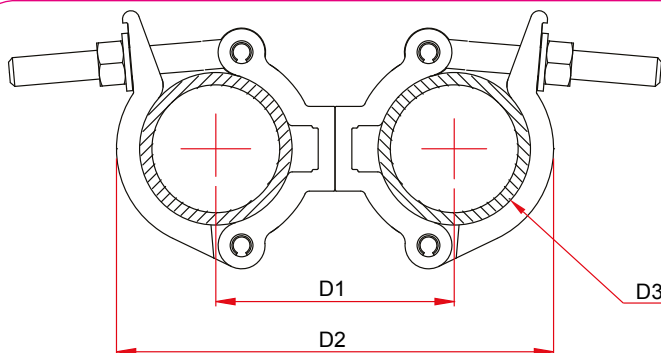
Mammoth Parallel Coupler

WLL	500kg
D1	94mm
D2	174mm
D3	Ø60 - 63mm
W	50mm
kg	0.90kg



Maximum
Torque
30 N-m
22 lb-ft

Mammoth





T57405



T57415



T57455



T57406



T57416



T57456

Slimline Mammoth Clamp

WLL	300kg
D1	7mm
D2	47mm
D3	87mm
D4	Ø12.7mm
D5	17 & 19mm
D6	35mm
D7	Ø60 - 63mm
W	30mm
kg	0.41kg

Slimline Hook Clamp

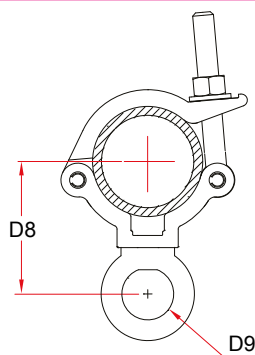
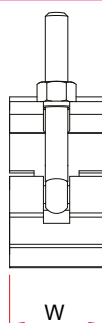
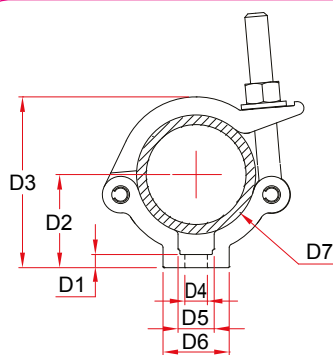
WLL	300kg
D1	7mm
D2	47mm
D3	87mm
D4	Ø12.7mm
D5	17 & 19mm
D7	Ø60 - 63mm
W	30mm
kg	0.49kg
F	M12 x 50

Slimline Hanging Clamp

WLL	300kg
D8	74mm
D9	Ø30mm
W	30mm
kg	0.51kg
F	M12 Eye Nut

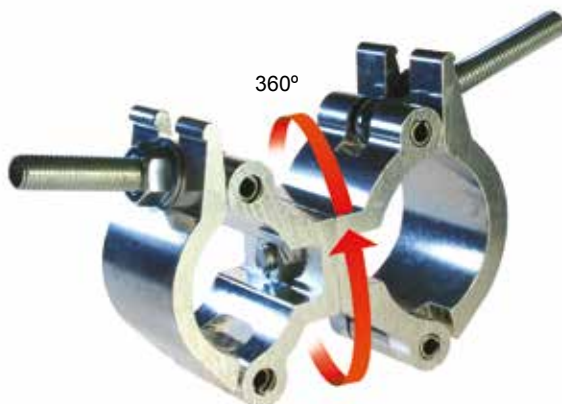


Tube Diameters
60 - 63mm





T57422 - Silver
T57423 - Black



T57435 - Fixed 90° - Silver
T57436 - Fixed 90° - Black
T57425 - Swivel - Silver
T57426 - Swivel - Black

Slimline Swivel Coupler

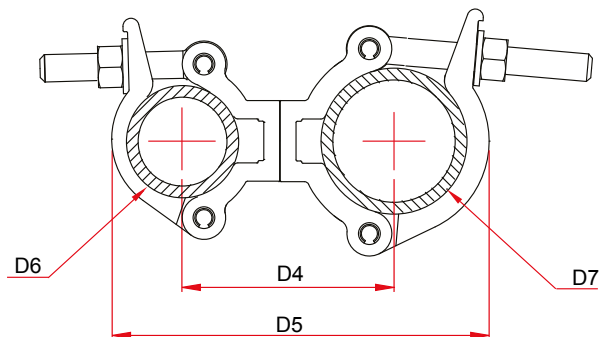
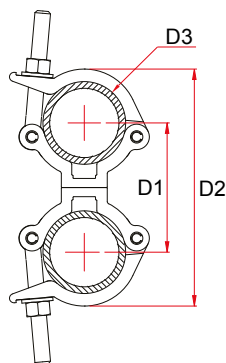
WLL	300kg
D1	94mm
D2	174mm
D3	Ø60 - 63mm
W	50mm
kg	0.90kg

Mammoth 60 to 50mm

WLL	500kg	D4	87mm
W	50mm	D5	157mm
kg	0.90kg	D6	Ø48 - 51mm
		D7	Ø60 - 63mm



Mammoth



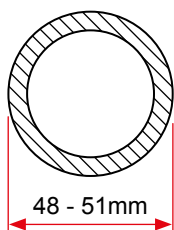
Trigger® Clamps

The Doughty Trigger Clamp is constructed from high tensile aluminium extrusion making it not only lightweight, but extremely strong, with a safe working load and TÜV approval of 200kg.

Designed to allow one person to hang heavy luminaires and scanners, the weight of the object being hung becomes its own safety factor by automatically closing the trigger and the bottom half of the clamp. This unique feature allows the luminaires to be easily positioned and securely 'locked off' using the large tee 'easygrip' handle.

Main features:

- WLL 200kg
- TÜV approval
- Captive M12 bolt
- Fits 48 - 51mm diameter tubes
- High tensile aluminium
- Available in polished aluminium or black powder coated





T58860



T58861



T58862



T588601



T5886101



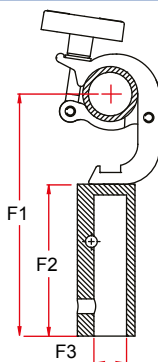
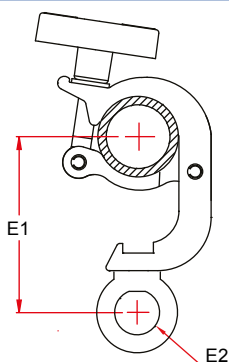
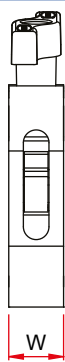
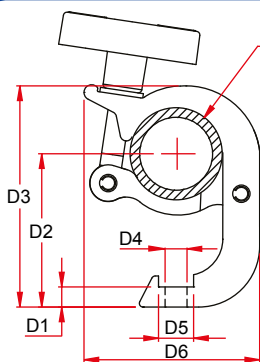
T5886201


T58869 - Silver
T5886901 - Black

Trigger Clamp		Hook Clamp		Hanging Clamp		TV Clamp	
WLL	200kg	WLL	200kg	WLL	200kg	WLL	200kg
D1	11mm	D1	11mm	E1	113mm	F1	221mm
D2	86mm	D2	86mm	E2	Ø30mm	F2	135mm
D3	121mm	D3	121mm	W	30mm	F3	Ø29mm
D4	Ø12.7mm	D4	Ø12.7mm	kg	0.71kg	W	30mm
D5	19mm	D5	19mm	F	M12 Eye Nut	kg	1.09kg
D6	97mm	D7	Ø48-51mm				
D7	Ø48 - 51mm	W	30mm				
W	30mm	kg	0.58kg				
kg	0.50kg	F	M12 x 45				



Tube Diameters
48 - 51mm

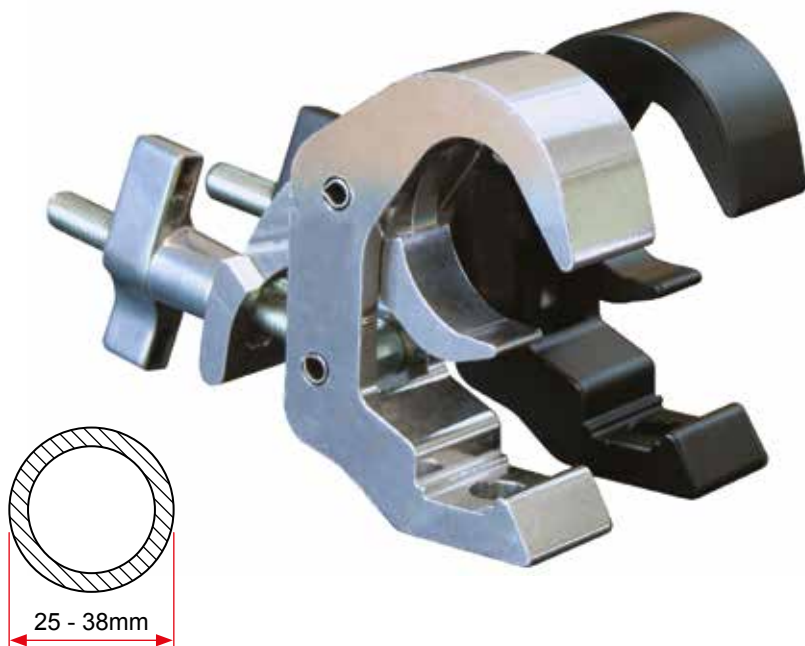


Baby Quick Trigger® Clamps

The Baby Quick Trigger Clamp is the latest addition to our range of Quick Trigger Clamps. Manufactured from high tensile aluminium this clamp is ideally suited to decorative truss etc.

Main features:

- WLL 40kg
- Captive M8 or M10 bolt
- Fits 25 - 38mm diameter tubes
- High tensile aluminium
- Available in polished aluminium or black powder coated





T58150



T58151


T58155 - Silver
T58156 - Black

T58160 - Silver
T58161 - Black

Baby Quick Trigger Standard Clamp

WLL	40kg
D1	7.7mm
D2	49.0mm
D3	84.3mm
D4	Ø10.5mm
D5	13.3 - 17.3mm
D6	62.2mm
D7	Ø25-38mm
kg	0.20kg

Baby Quick Trigger 'Beamer' Clamp

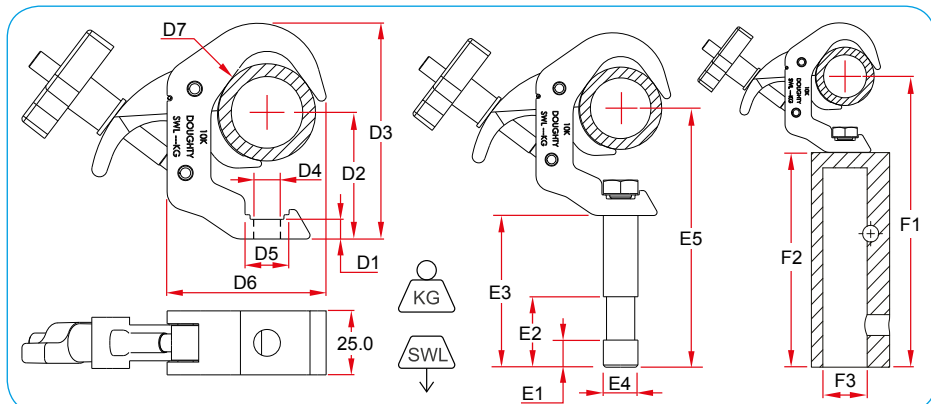
WLL	40kg
E1	12.5mm
E2	32.5mm
E3	70mm
E4	Ø16mm
E5	119.0mm
kg	0.25kg

Baby Quick Trigger TV Clamp

WLL	40kg
F1	117mm
F2	135mm
F3	Ø29mm
kg	0.71kg



Tube Diameters
25 - 38mm



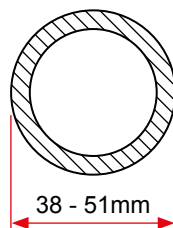
Quick Trigger® Clamps

The design of the Doughty Quick Trigger Clamp gives a high degree of safety by allowing one person to hang heavy luminaires and fixtures. The spring loaded jaws stay open and automatically close with the weight of the object being hung, leaving both hands free to lift and position the load.

The base of the clamp is slotted to hold either an M10 or M12 bolt head or nut captive without turning.

Main features:

- WLL 250kg
- TÜV approval
- Captive M10 or M12 bolt
- Fits 38 - 51mm diameter tubes
- High tensile aluminium
- Available in polished aluminium or black powder coated





T58200



T58205



T58215


T58240 - Silver
T58241 - Black


T58201



T58206



T58216

Quick Trigger Standard Clamp

WLL	250kg
D1	11mm
D2	66mm
D3	110mm
D4	Ø12.7mm
D5	17 & 19mm
D6	85mm
D7	Ø38 - 51mm
Width	50mm
kg	0.76kg

Quick Trigger Hook Clamp

WLL	250kg
D1	11mm
D2	66mm
D3	110mm
D4	Ø12.7mm
D5	17 & 19mm
D7	Ø38 - 51mm
Width	50mm
kg	0.84kg
Fastener	M12 x 45

Quick Trigger Hanging Clamp

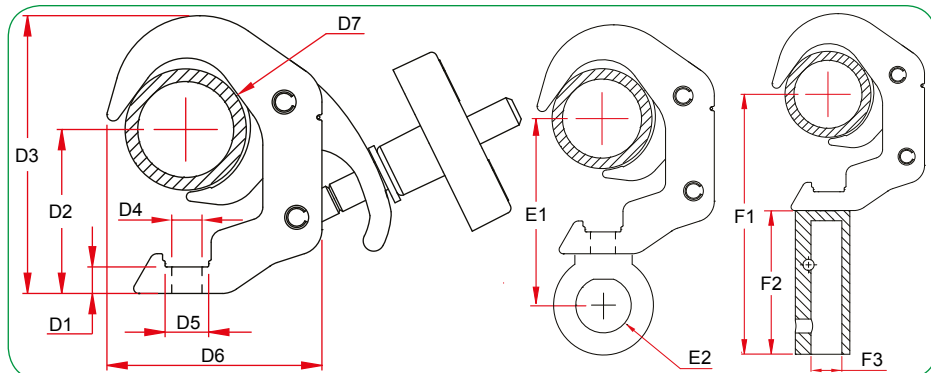
WLL	250kg
E1	117mm
E2	Ø30mm
Width	50mm
kg	0.97kg
F	M12 Eye Nut

Quick Trigger TV Clamp

WLL	200kg
F1	201mm
F2	135mm
F3	Ø29mm
kg	1.16kg



Tube Diameters
38 - 51mm

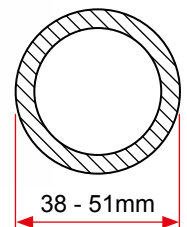
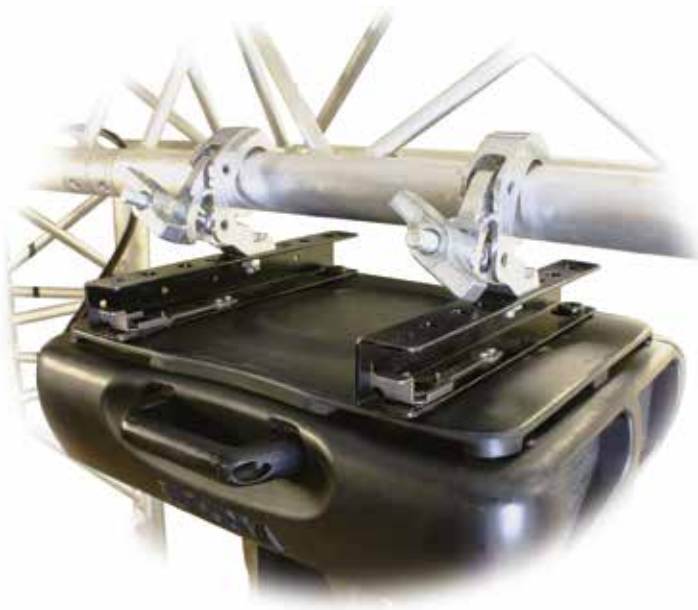


Slimline Quick Trigger® Clamps

With all the great features of the Standard Quick Trigger Clamps, the Slimline Quick Trigger range is 30mm wide, allowing these clamps to be used between truss webs. A key feature of this clamp is the ability to fit tube diameters between 38 & 51mm.

Main features:

- WLL 100kg
- TÜV approval
- Captive M10 or M12 bolt
- Fits 38 - 51mm diameter tubes
- High tensile aluminium
- Available in polished aluminium or black powder coated





T58300



T58305



T58315


T58340 - Silver
T58341 - Black


T58301



T58306



T58316

S-line Quick Trigger

Standard Clamp

WLL	100kg
D1	11mm
D2	66mm
D3	110mm
D4	Ø12.7mm
D5	17 & 19mm
D6	85mm
D7	Ø38 - 51mm
Width	30mm
kg	0.49kg

S-line Quick Trigger

Hook Clamp

WLL	100kg
D1	11mm
D2	66mm
D3	110mm
D4	Ø12.7mm
D5	17 & 19mm
D7	Ø38 - 51mm
Width	30mm
kg	0.57kg
Fastener	M12 x 45

S-line Quick Trigger

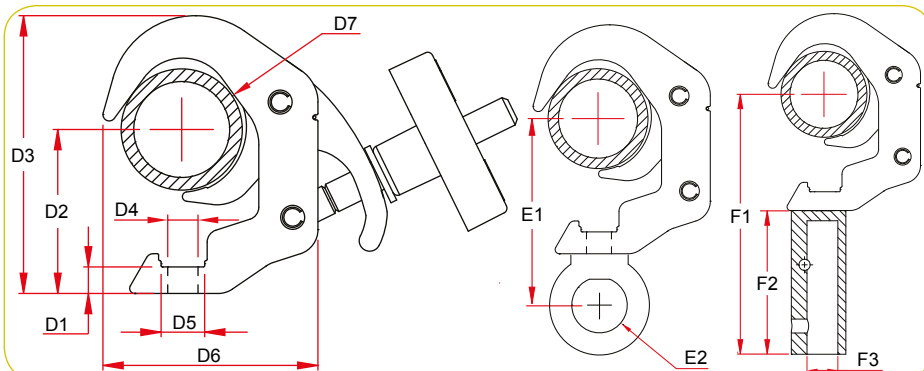
Hanging Clamp

WLL	100kg
E1	117mm
E2	Ø30mm
Width	30mm
kg	0.70kg
F	M12 Eye Nut

S-line Quick Trigger

TV Clamp

WLL	100kg
F1	201mm
F2	135mm
F3	Ø29mm
kg	0.62kg

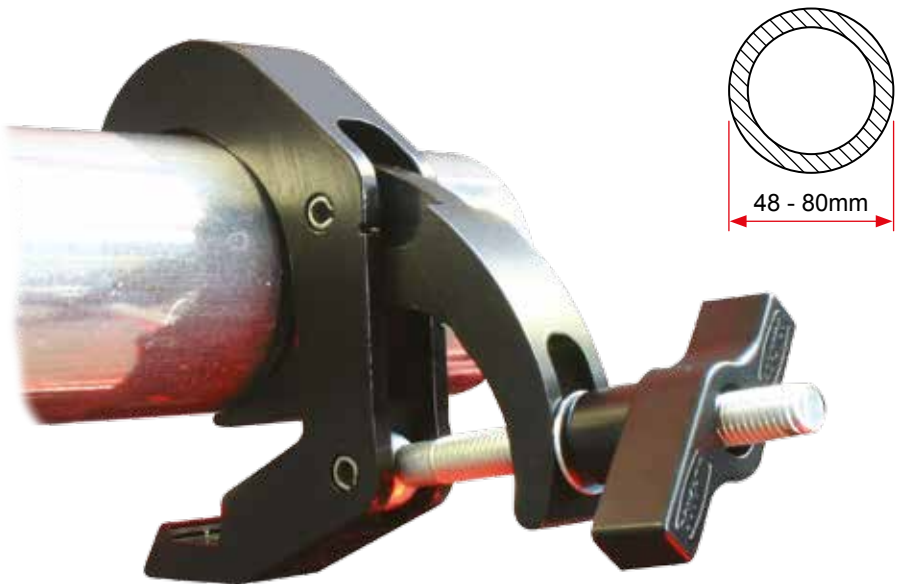

Tube Diameters
38 - 51mm


Titan Quick Trigger® Clamps

The Titan Quick Trigger range of clamps has been designed to fit tubes with larger diameters between 48 & 80mm. This is the largest high tensile aluminium clamp in our range.

Main features:

- WLL 100kg
- TÜV approval
- Captive M10 or M12 bolt
- Fits 48 - 80mm diameter tubes
- High tensile aluminium
- Available in polished aluminium or black powder coated





T58500



T58505



T58515



T58501



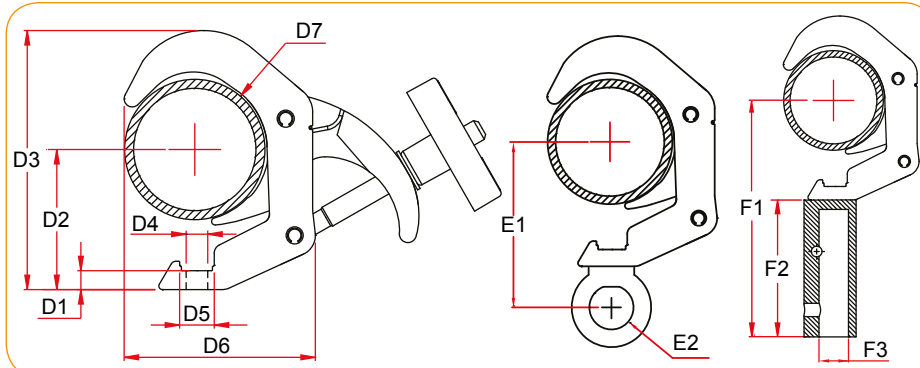
T58506



T58516

T58540 - Silver
T58541 - Black

Titan Quick Trigger®		Titan Quick Trigger®		Titan Quick Trigger®		Titan Quick Trigger®	
Standard Clamp		Hook Clamp		Hanging Clamp		TV Clamp	
WLL	100kg	WLL	100kg	WLL	100kg	WLL	100kg
D1	11mm	D1	11mm	E1	105mm	F1	213mm
D2	78mm	D2	78mm	E2	Ø30mm	F2	135mm
D3	144mm	D3	144mm	Width	30mm	F3	Ø29mm
D4	Ø12.7mm	D4	Ø12.7mm	kg	0.88kg	kg	1.24kg
D5	17 & 19mm	D5	17 & 19mm	F	M12 Eye Nut		
D6	106mm	D7	Ø48-80mm				
D7	Ø48 - 80mm	Width	30mm				
Width	30mm	kg	0.77kg				
kg	0.69kg	Fastener	M12 x 50				

Tube Diameters
48 - 80mm

Space Savers

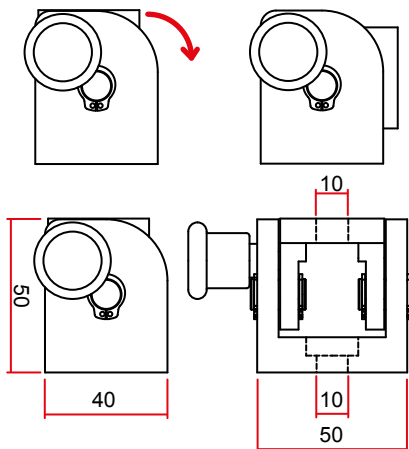
The Space Saver enables a clamp or Spigot to be permanently fitted to a luminaire or projector etc and folded into a storage position to save space and time.

The clamps etc are not lost because they stay on the luminaire.

The Space Omega is available in different sizes to fit most major manufacturers equipment.

Manufactured from high tensile aluminium.

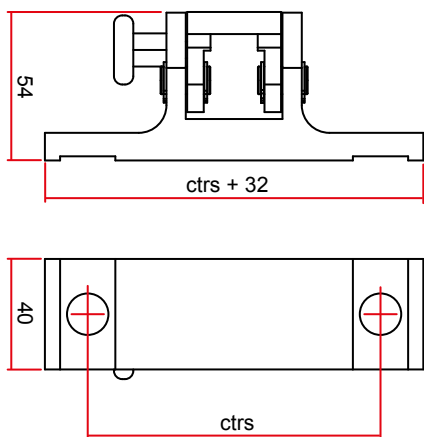




Space Saver

T85850

WLL 100Kg



Space Saver Omega

Available with 1/4 turn fixings to suit most major manufacturers

contact sales@doughty-engineering.co.uk

Speciality Couplers



T58780 - Silver
T58782 - Black



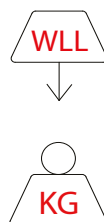
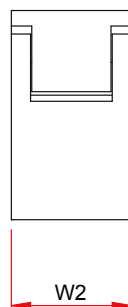
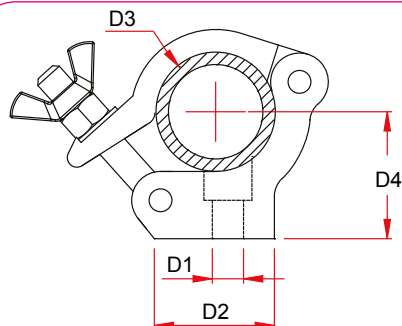
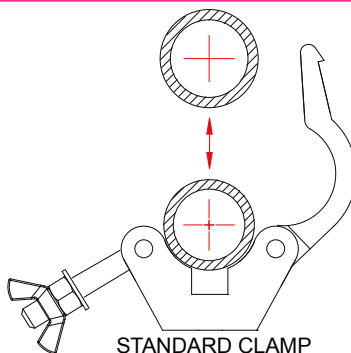
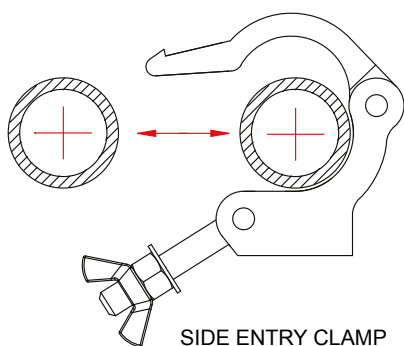
T58781 - Silver
T58783 - Black

Side Entry Doughty Clamp

WLL	750kg
D1	Ø12.7mm
D2	50mm
D3	Ø48 - 51mm
D4	53mm
W2	50mm
kg	0.56kg

Slimline Side Entry Doughty Clamp

WLL	750kg
D1	Ø12.7mm
D2	50mm
D3	Ø48 - 51mm
D4	53mm
W1	30mm
kg	0.36kg





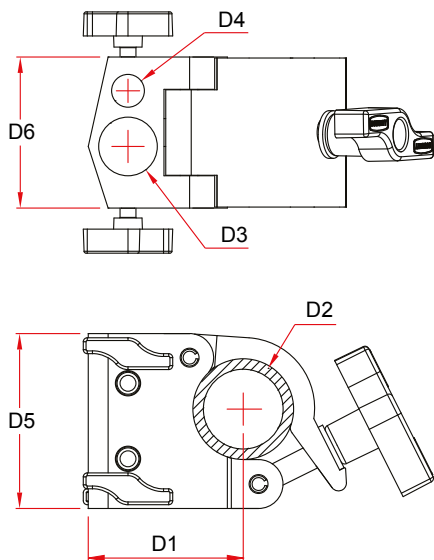
G1115 - Silver
G111501 - Black



T58130 - Silver
T5813001 - Black

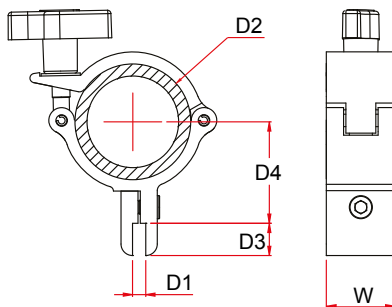
Barrel Socket Clamp

WLL	250kg
D1	78mm
D2	Ø48 - 51mm
D3	Ø29mm
D4	Ø16.5mm
D5	88mm
D6	76mm
kg	0.93kg



Super Lightweight Panel Clamp

WLL	N/A
D1	5 - 10mm
D2	Ø48 - 51mm
D3	14mm
D4	44mm
W	30mm
kg	0.16kg





T58790 - 47mm
T58791 - 44mm
T58792 - 41.5mm
T58793 - 39.5mm



T58795



T58756 - Ø48 mm x 47mm
T58757 - Ø48 mm x 44mm
T58758 - Ø48 mm x 41.5mm
T58759 - Ø48 mm x 39.5mm
T58760 - Ø51 mm x 47mm
T58761 - Ø51 mm x 44mm
T58762 - Ø51 mm x 41.5mm
T58763 - Ø51 mm x 39.5mm

Locking Elbows

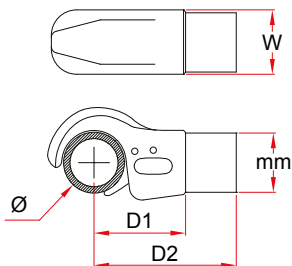
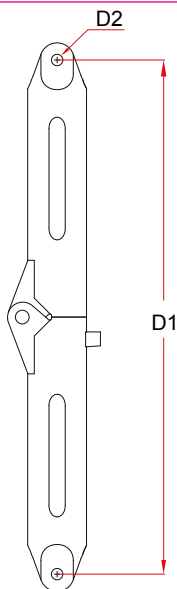
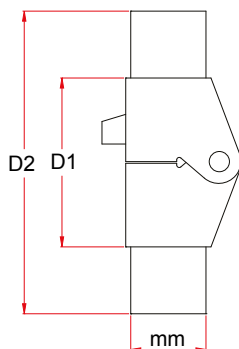
D1	100mm
D2	180mm
kg	0.72kg

Long Locking Elbow Assy

D1	450mm
D2	Ø12mm
kg	1.60kg

Claw Clamps

D1	72mm
D2	112mm
W	50mm
kg	0.39kg





T58735 - Swivelling 47mm
T58736 - Swivelling 44mm
T58738 - Swivelling 41.4mm
T58739 - Swivelling 39.5mm

T58740 - Fixed 47mm
T58741 - Fixed 44mm
T58743 - Fixed 41.4mm
T58744 - Fixed 39.5mm



T57249



T57250



T58750 - 47mm
T58751 - 44mm
T58753 - 41.4mm
T58754 - 39.5mm

Finial Coupler

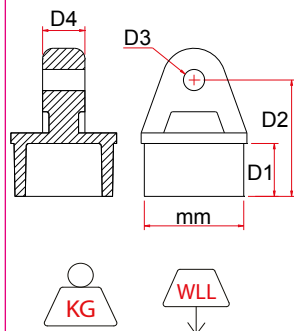
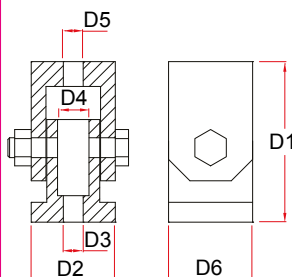
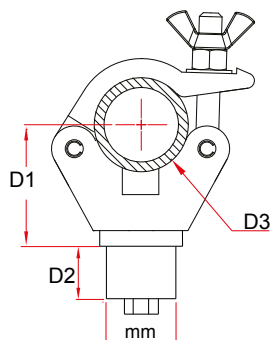
D1	61mm
D2	25mm
D3	Ø48 - 51mm
W	50mm
kg	0.86kg

Pivot Hinge Assembly

D1	97mm
D2	50mm
D3	Ø12mm
D4	Ø19mm
D5	Ø12mm
D6	50mm
kg	Hinge only: 0.79kg
kg	Hinge with clamps: 1.96kg

Round Shank Pivot Plug

D1	25mm
D2	55mm
D3	Ø10mm
D4	20mm
kg	0.16kg





T58745 - 47mm
T58746 - 44mm
T58748 - 41.4mm
T58749 - 39.5mm



T58730 - 47mm
T58731 - 44mm
T58733 - 41.4mm
T58734 - 39.5mm



T58720 - Clamp Only
T58725 - 47mm
T58726 - 44mm
T58728 - 41.4mm
T58729 - 39.5mm

Round Shank Foot Casting

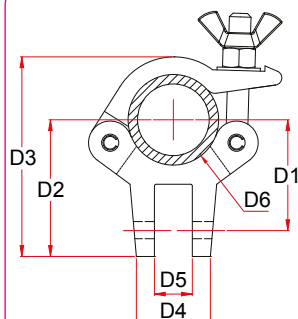
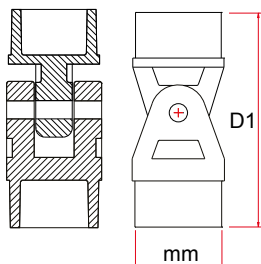
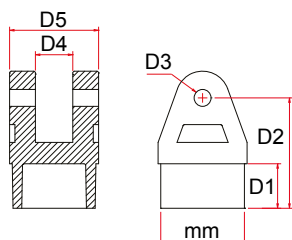
D1	25mm
D2	62mm
D3	Ø10mm
D4	21mm
D5	50mm
kg	0.16kg

Round Shank Knuckle Joint

D1	117mm
kg	0.35kg

Stabiliser Coupler

D1	61mm
D2	75mm
D3	110mm
D4	41mm
D5	21mm
D6	Ø48 - 51mm
W	50mm
kg	Clamp only: 0.55kg
kg	Clamp with plug: 0.67kg

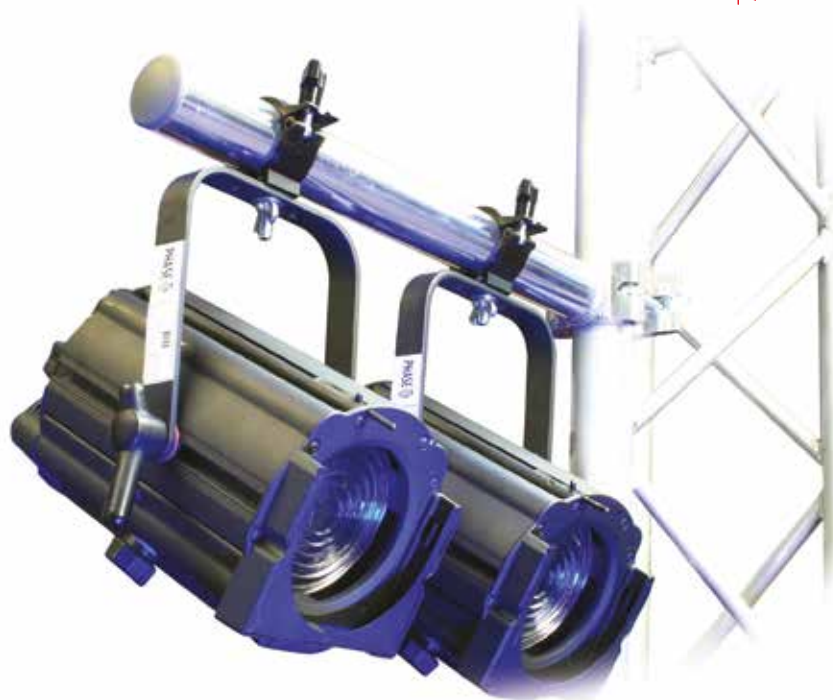
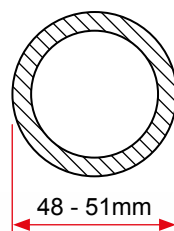


Pipe to Pipe Couplers & Boom Arms

Doughty Engineering manufactures a large range of aluminium Boom Arms and Pipe to Pipe Couplers. Designed to fit 48 - 51mm tubes, these products are ideally suited to work with aluminium trusses and standard scaffold type bars.

Main features:

- Fits 48 - 51mm diameter tubes
- High tensile aluminium
- Special lengths available on request

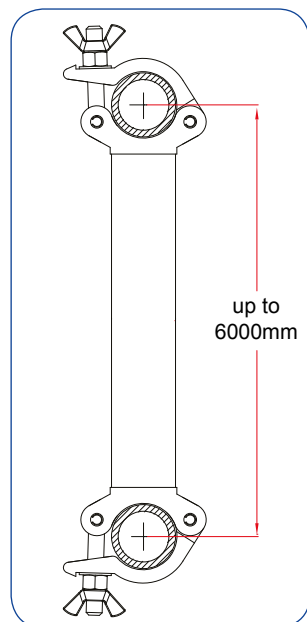




T57340 - 250mm ctrs
T57345 - 500mm ctrs
T57350 - 750mm ctrs
T57355 - 1000mm ctrs



T57360 - 250mm ctrs
T57365 - 500mm ctrs
T57370 - 750mm ctrs
T57375 - 1000mm ctrs



Parallel Pipe to Pipe Coupler

WLL	200kg
D1	Ø48 - 51mm
D2	48mm
W	50mm
kg	See below

90° Pipe to Pipe Coupler

WLL	200kg
D1	Ø48 - 51mm
D2	48mm
W	50mm
kg	See below

Special Lengths

Contact your nearest dealer

T57340 - 1.25kg
T57345 - 1.70kg
T57350 - 2.06kg
T57355 - 2.50kg

T57360 - 1.25kg
T57365 - 1.70kg
T57370 - 2.06kg
T57375 - 2.50kg



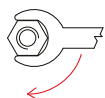
T57310 - Silver - 250mm
T57315 - Silver - 500mm
T57317 - Silver - 750mm
T57320 - Silver - 1000mm



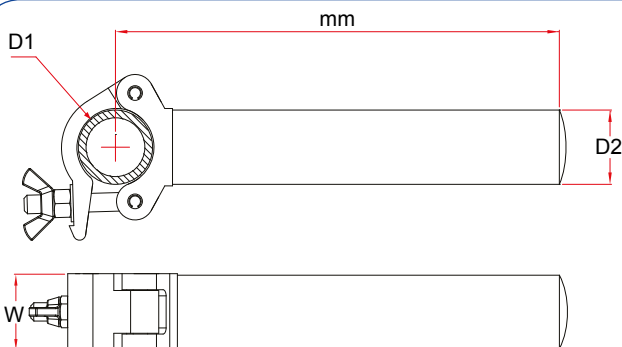
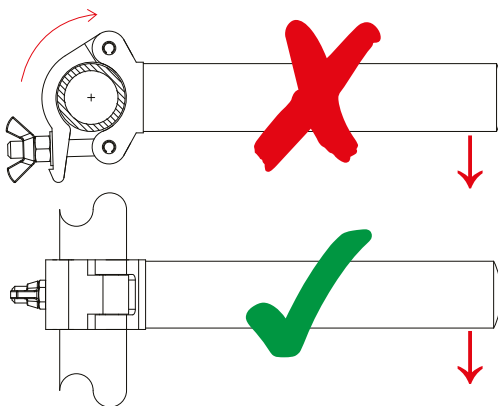
T57311 - Black - 250mm
T57316 - Black - 500mm
T57318 - Black - 750mm
T57321 - Black - 1000mm

Boom Arms

WLL	250mm	100kg
WLL	500mm	50kg
WLL	750mm	37kg
WLL	1000mm	25kg
D1	48 - 51mm	(2")
D2	48mm	(2")
W	50mm	(2")



Maximum
Torque
30 N-m
22 lb-ft



T57310 - 0.84kg
T57315 - 1.24kg
T57317 - 1.65kg
T57320 - 2.50kg
T57311 - 0.84kg
T57316 - 1.24kg
T57318 - 1.65kg
T57321 - 2.50kg



Braced Boom Arm

WLL	100kg
D1	1000mm
D2	750mm
D3	Ø48 - 51mm
D4	Ø48mm
kg	5.0kg

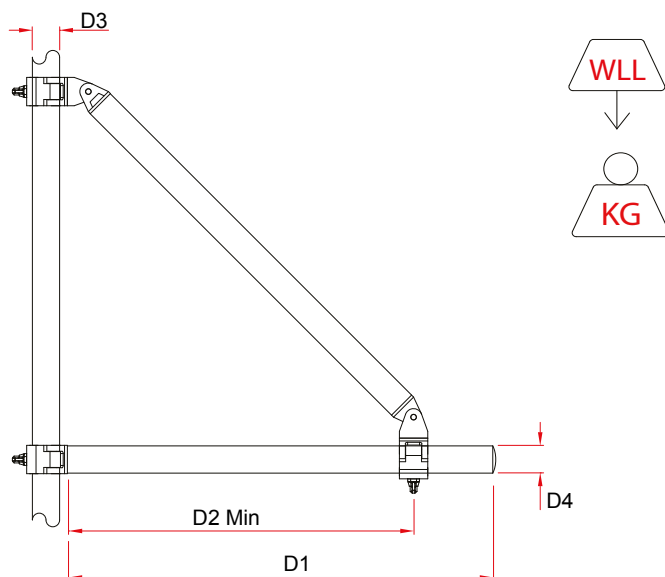
WLL 100kg

The Braced Boom Arm is ideal for flying heavy luminaires such as moving heads from vertical bars or trusses. The diagonal brace eliminates movement or flexing in the boom arm.

Manufactured with two articulating joints, most mounting situations can be accommodated.

Special sizes can be made to suit most applications.

T57325 - Silver
T5732501 - Black

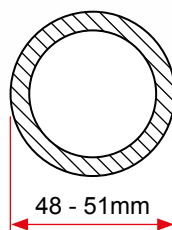


Truss Adaptors

Truss Adaptors enable triangular and square truss sections to be mounted to any of the Doughty winch stand range. This system provides the means to lift truss sections into place safely. The range of Hanging Truss Adaptors have been designed to suspend truss sections with a chain hoist.

Main features:

- Provides a safe and secure means of lifting truss
- Adjustable to suit most truss sizes
- High tensile 6082-T6 aluminium couplers
- High quality silver powder coated

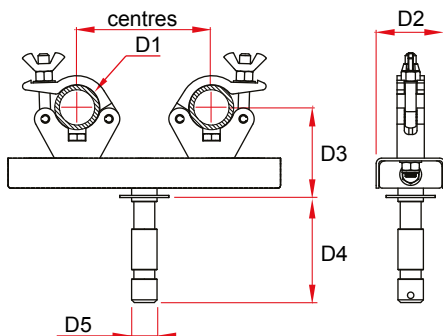
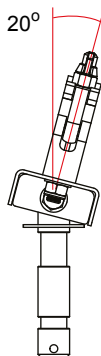


Swivel Truss Plate

WLL	200kg
D1	Ø48 - 51mm
D2	76mm
D3	100mm
D4	115mm
D5	Ø28mm

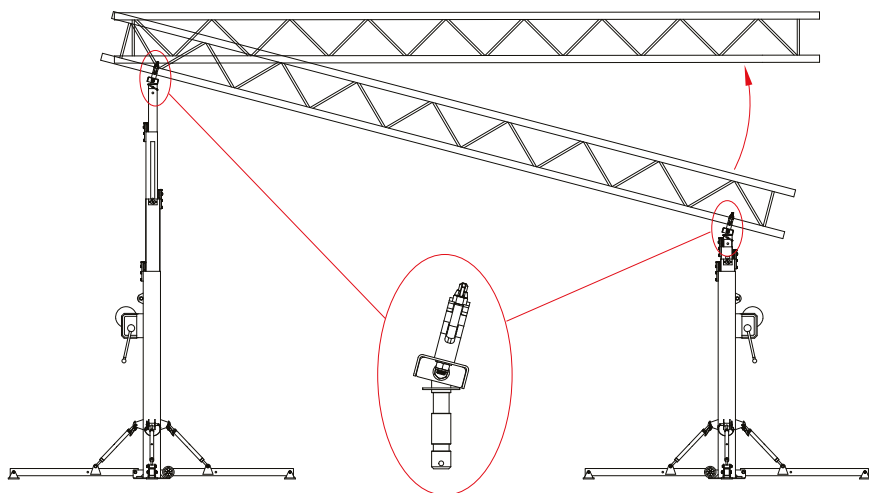


T55704 - 150 - 250mm ctrs
T55705 - 200 - 400mm ctrs



Suitable for all triangular and square truss sections.

The Swivel Truss Plate allows one person to rig a truss between two winch stands. Each stand can be raised individually until the required height is achieved.





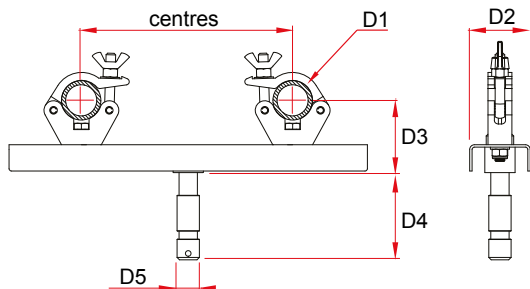
T57210 - 150 - 250mm ctrs
T57211 - 200 - 400mm ctrs

Fixed Truss Adaptor

WLL	200kg
D1	Ø48 - 51mm
D2	76mm
D3	91mm
D4	109mm
D5	Ø28mm

Suitable for all triangular and square truss sections.

The Fixed Truss Adaptor provides a firm fixing for more elaborate truss constructions. They are supplied with two slimline couplers.



Ladder Truss Adaptor

WLL	200kg
D1	Ø48 - 51mm
D2	76mm
D3	Ø28mm

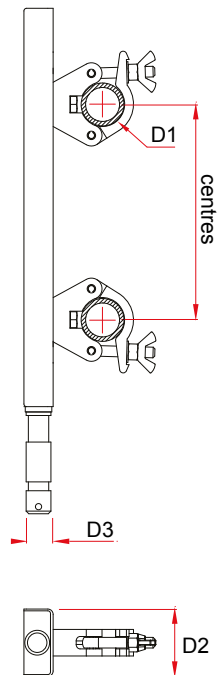
Suitable for all ladder truss sections.

The Ladder Truss Adaptor ensures the truss is in the optimum position for maximum loading.

Supplied with two slimline couplers.



T58700 - 150 - 250mm ctrs
T58701 - 200 - 400mm ctrs

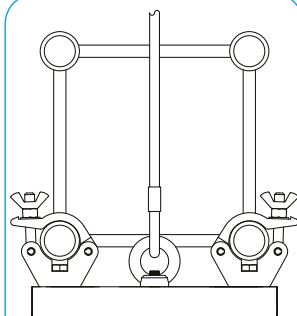
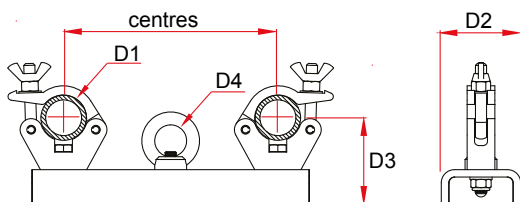




T57214 - 150 - 250mm ctrs
T57219 - 200 - 400mm ctrs

Hanging Truss Adaptor

WLL	200kg
D1	Ø48 - 51mm
D2	76mm
D3	91mm
D4	Ø30mm



HD Hanging Truss Adaptor

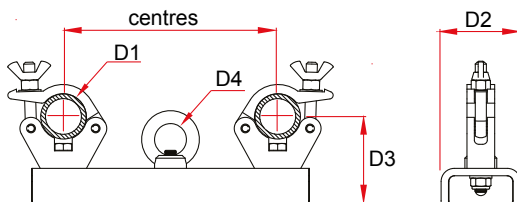
WLL	500kg
D1	Ø48 - 51mm
D2	76mm
D3	91mm
D4	Ø30mm

The Heavy Duty Hanging Truss Adaptor has been designed specifically to suspend triangular and square sections with loads up to 500kg.

The suspension point is an M12 eye nut rated to 500kg.



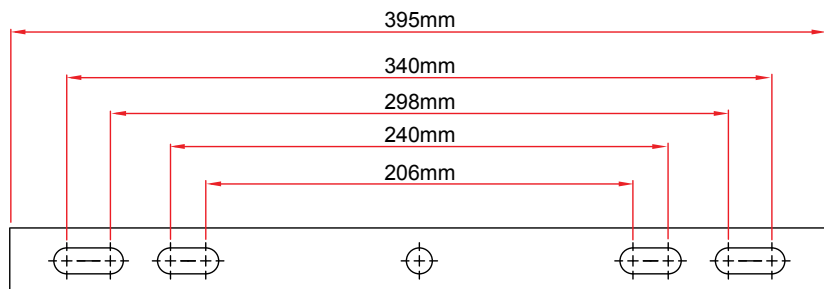
T55710 - 150 - 250mm ctrs
T55715 - 200 - 400mm ctrs



Solid Truss Adaptors

Main features:

- Provides a safe and secure means of lifting truss
- Slotted to allow minor adjustments
- High tensile solid 6082-T6 aluminium
- High quality powder coated

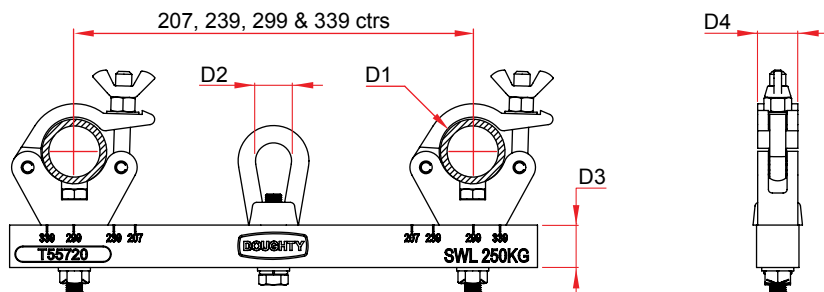


T55720 - Silver
T55725 - Black

Solid Hanging Truss Adaptor

250kg

WLL	250kg
D1	Ø48 - 51mm
D2	26mm
D3	31.75mm
D4	31.75mm
kg	2.30kg



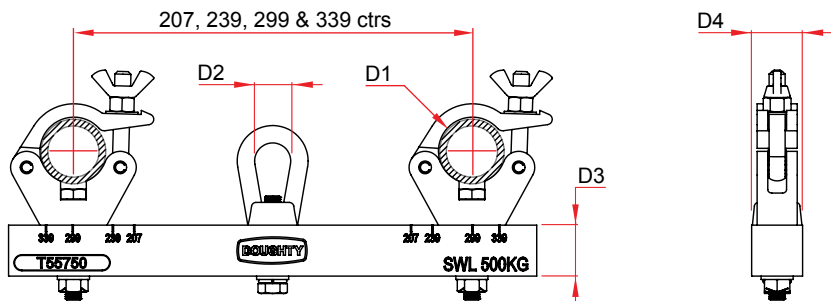


T55750 - Silver
T55755 - Black

Solid Hanging Truss Adaptor

500kg

WLL	500kg
D1	Ø48 - 51mm
D2	26mm
D3	38.1mm
D4	38.1mm
kg	2.80kg

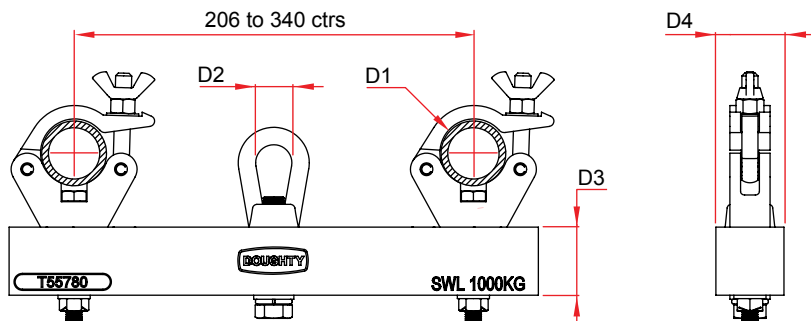


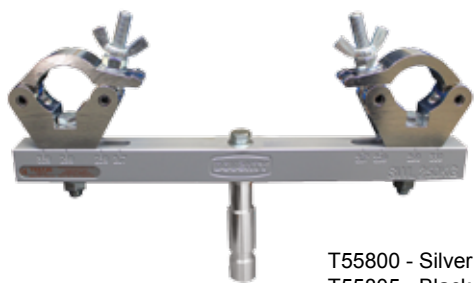
T55780 - Silver
T55785 - Black

Solid Hanging Truss Adaptor

1000kg

WLL	1000kg
D1	Ø48 - 51mm
D2	26mm
D3	50.8mm
D4	50.8mm
kg	4.00kg



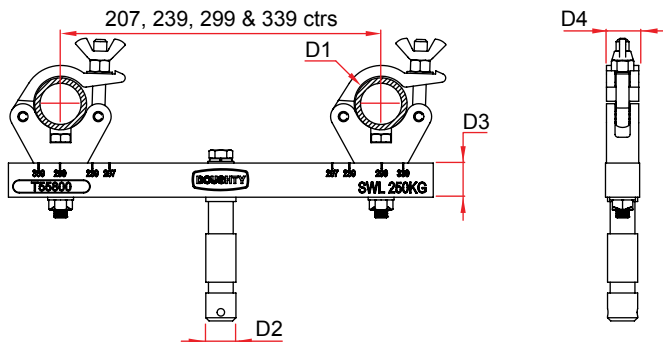


T55800 - Silver
T55805 - Black

Solid Fixed Truss Adaptor

250kg

WLL	250kg
D1	Ø48 - 51mm
D2	28mm
D3	31.75mm
D4	31.75mm
kg	2.20kg

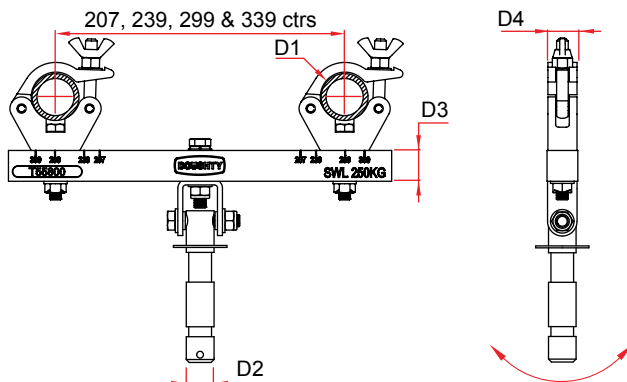


T55810 - Silver
T55815 - Black

Solid Swivel Truss Adaptor

250kg

WLL	250 kg
D1	Ø48 - 51mm
D2	28mm
D3	31.75mm
D4	31.75mm
kg	3.00kg



Modular Rigging System

The modular rigging system uses 48mm diameter aluminium barrel in conjunction with a truss style conical coupling.

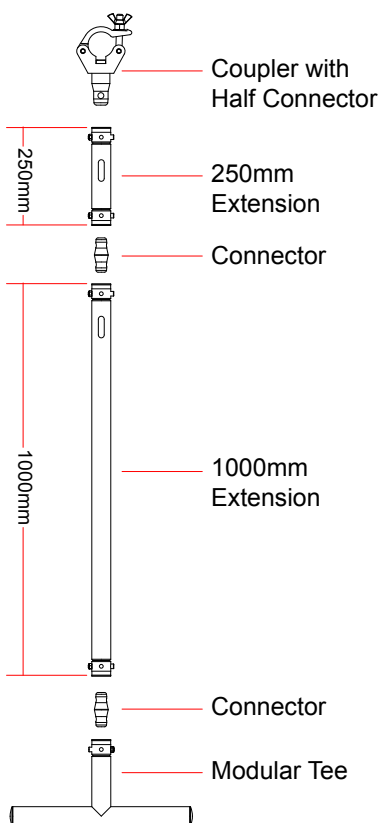
The system is designed as two parts - Modular Drop Arms which are single arms designed to be suspended with a coupler and 'H' Frames, which can be suspended or floor-standing with tank traps.



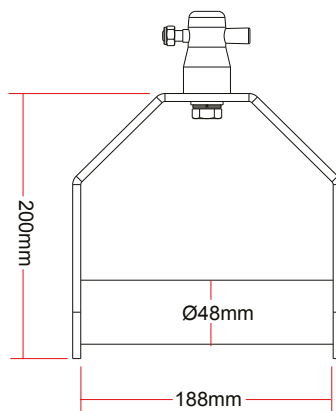


Supplied with Tapered Pins

Modular Rigging Extensions			WLL
T45775	250mm	Silver	100kg
T45776	250mm	Black	100kg
T45780	500mm	Silver	100kg
T45781	500mm	Black	100kg
T45785	1000mm	Silver	100kg
T45786	1000mm	Black	100kg
T45790	2000mm	Silver	100kg
T45791	2000mm	Black	100kg



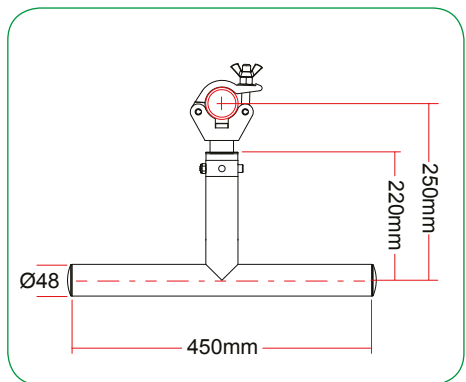
Supplied with Tapered Pin



Modular Stirrup			WLL
T45770	Modular Stirrup	Silver	100kg
T45771	Modular Stirrup	Black	100kg



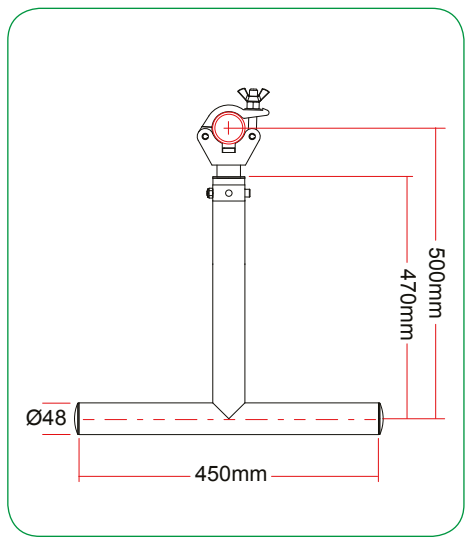
Supplied with Tapered Pin



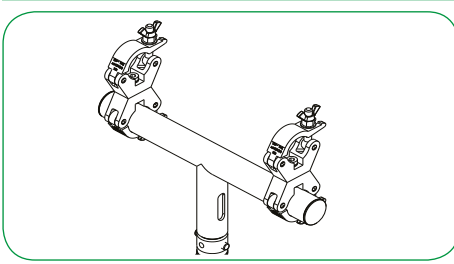
Small Modular Tee			WLL
T45760	Small Modular Tee	Silver	100kg
T45761	Small Modular Tee	Black	100kg



Supplied with Tapered Pin



Large Modular Tee			WLL
T45765	Large Modular Tee	Silver	100kg
T45766	Large Modular Tee	Black	100kg

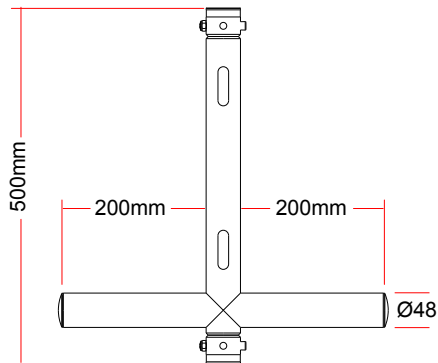


All Modular Rigging products are supplied with a slot for a secondary safety where applicable.

Modular Tee's can be used at the top of an assembly to create a more rigid suspension point.



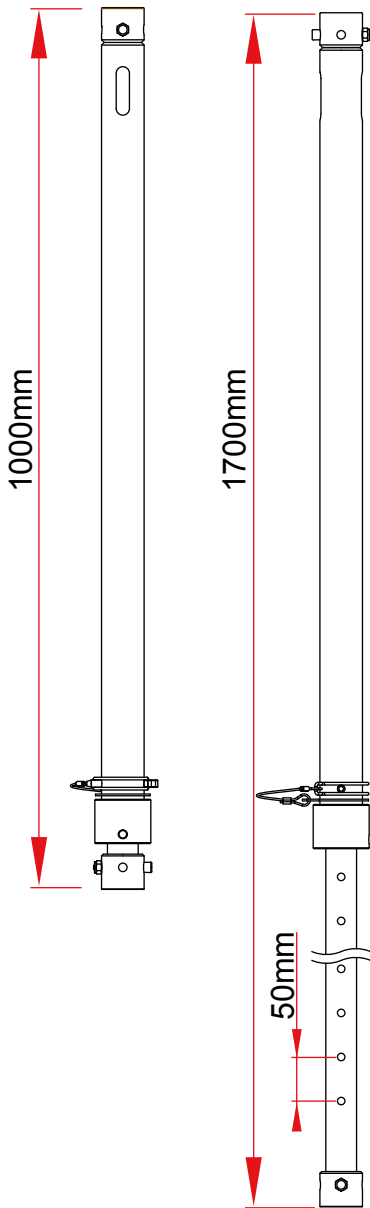
Supplied with Tapered Pins



Modular Tee with Thru Connector

WLL

T45767	Modular Tee with Thru Connector	Silver	100kg
T45768	Modular Tee with Thru Connector	Black	100kg



Adjustable Extension 1.0 - 1.7m

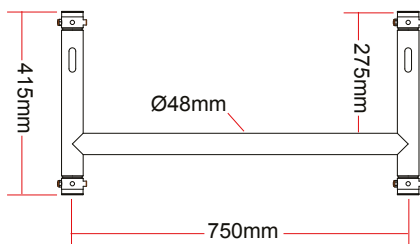
T45795	Silver	100kg
T45796	Black	100kg

Adjustable Extension 2.0 - 3.7m

T45797	Silver	100kg
T45798	Black	100kg



Supplied with Tapered Pins



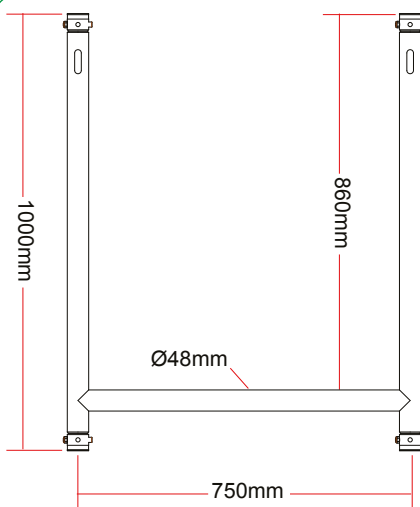
Small 'H' Frame

WLL

T45900	Small 'H' Frame	Silver	200kg
T45901	Small 'H' Frame	Black	200kg



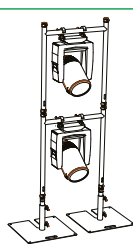
Supplied with Tapered Pins

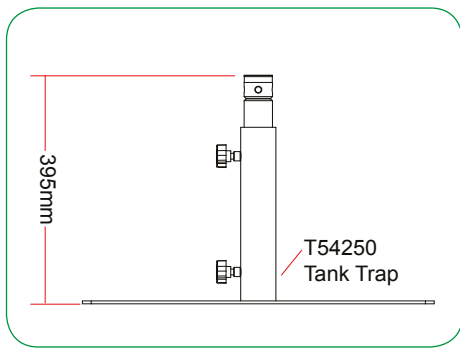


Large 'H' Frame

WLL

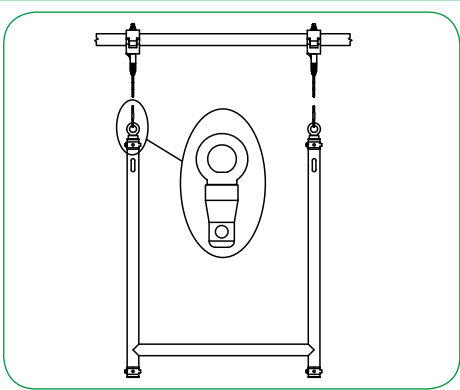
T45910	Large 'H' Frame	Silver	200kg
T45911	Large 'H' Frame	Black	200kg





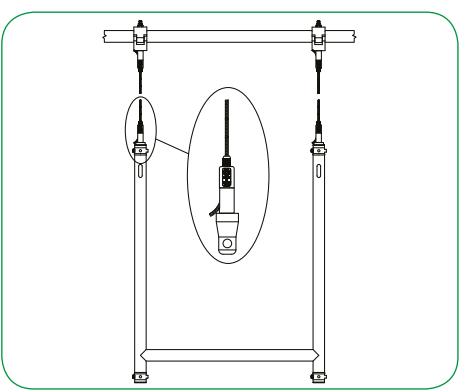
Tank Trap Adaptor

T45757	Tank Trap Adaptor	Silver
T45758	Tank Trap Adaptor	Black



Half Connector with Eye - WLL 100kg

T45745	Half Connector with Eye	Silver
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Half Connector with Cable Holder - WLL 80/130kg

T45747	Half Connector fitted with T37653 Cable Holder to suit 4 & 5mm Wire	Silver
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Spigot & Half Connector

T45752

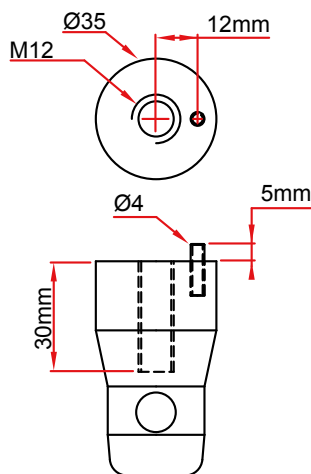
fitted with a 28mm Spigot



3 Point Receiver & Half Connector

T45751

accepts 28mm Spigots



M12 Half Connector

T45750

M12 Aluminium Half Connector with Roll Pin





Safety Bond with Quick Link

T45850	650mm - WLL 200kg	Silver
T45851	650mm - WLL 200kg	Black

These bonds are the optimum length to pass through the safety slot and around a barrel or truss chord when suspended with a clamp/ coupler.



Safety Bond with Moving Light Hook

T45855	650mm - WLL 36kg	Silver
T45856	650mm - WLL 36kg	Black

These bonds have been designed to work with most moving lights. Their length has been calculated to leave minimum slack wire rope.



Connector

T45755



Tapered Pin and Nut

T45756


Doughty Clamp & Half Connector

T45800	Silver	fits Ø 48-51mm
T45801	Black	WLL 100kg


Low Profile Clamp & Half Connector

T45810	Silver	fits Ø 48-51mm
T45811	Black	WLL 100kg


Lightweight Clamp & Half Connector

T45815	Silver	fits Ø 48-51mm
T45816	Black	WLL 100kg


Mammoth Clamp & Half Connector

T45820	Silver	fits Ø 60-63mm
T45821	Black	WLL 100kg


Trigger Clamp & Half Connector

T45825	Silver	fits Ø 48-51mm
T45826	Black	WLL 100kg

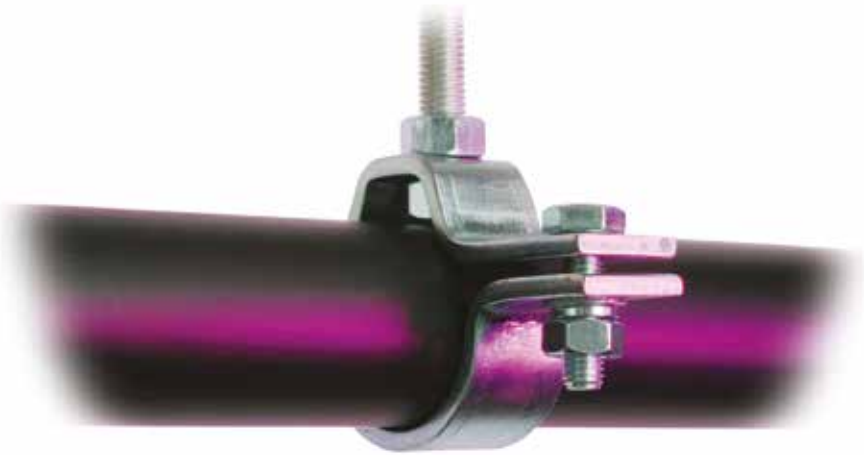

Quick Trigger Clamp & Half Connector

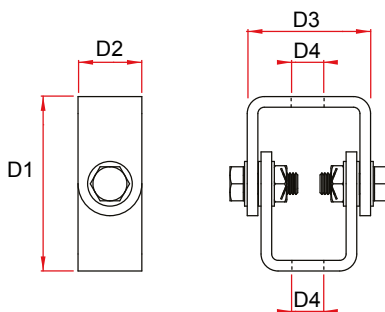
T45830	Silver	fits Ø 38-51mm
T45831	Black	WLL 100kg

Suspension Clamps

The Doughty range of Suspension Clamps is a range of steel bracketry manufactured predominantly from flat steel bar. This range can be used to suspend truss and tubes as well as flying luminaires from the steel boom arms.

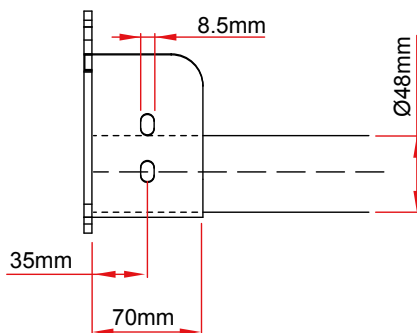
Manufactured and tested in our UK factory, quality is assured.





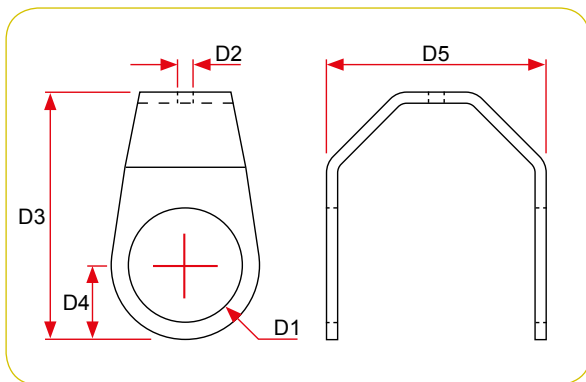
Universal Joint

	WLL	D1	D2	D3	D4	kg
T30410	100kg	82mm	30mm	58mm	Ø12.5mm	0.38kg



Wall Hanger

T30408	Silver	WLL 100kg
T30409	Black	WLL 100kg



Grid Hanger

	WLL	D1	D2	D3	D4	D5	kg
T30405	200kg	Ø50mm	Ø13mm	107.5mm	32.5mm	96mm	0.35kg
T30406 - Black	200kg	Ø50mm	Ø13mm	107.5mm	32.5mm	96mm	0.35kg

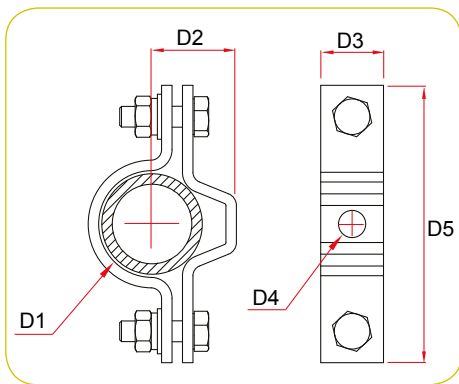


Corner Grid Hanger

T30407 - Black

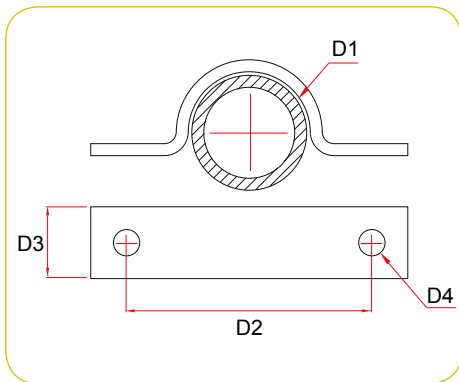
WLL 200kg

Can be used with T12500 Pipeclamp Elbow and Ø48mm barrel/scaffold tube.



Universal Clamps

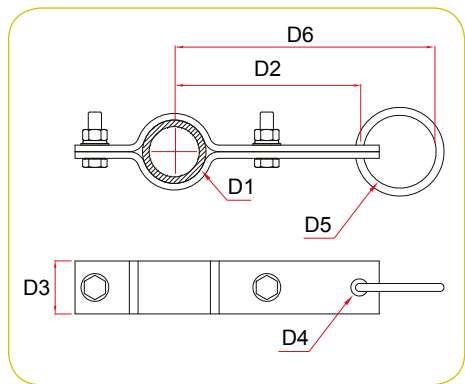
	WLL	D1	D2	D3	D4	D5	kg
T30400	200kg	Ø48mm	40mm	30mm	Ø13mm	135mm	0.43kg
T30404 - Black	200kg	Ø48mm	40mm	30mm	Ø13mm	135mm	0.43kg
T30401	150kg	Ø38mm	30mm	25mm	Ø9mm	115mm	0.30kg
T30402	100kg	Ø25mm	22mm	20mm	Ø7mm	83mm	0.30kg



Saddle Clamps

	WLL	D1	D2	D3	D4	kg
T30800	200kg	Ø48mm	102mm	30mm	11mm	0.21kg
T30801 - Black	200kg	Ø48mm	102mm	30mm	11mm	0.21kg
T30804	150kg	Ø38mm	84mm	25mm	8.5mm	0.13kg
T30806	150kg	Ø25mm	70mm	20mm	7mm	0.05kg



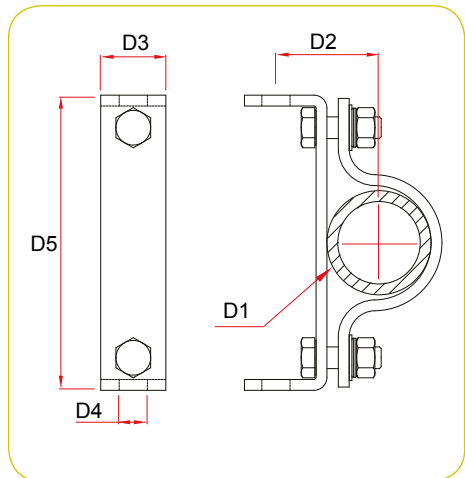


Hanging Clamps (to suit Shackles)

	WLL	D1	D2	D3	D4	kg
T32100	100kg	Ø48mm	140mm	40mm	13mm	0.84kg
T32102	100kg	Ø38mm	85mm	25mm	9mm	0.33kg
T32103	100kg	Ø25mm	65mm	20mm	9mm	0.14kg

Hanging Clamp (with ring)

	WLL	D1	D3	D5	D6	kg
T32000	100kg	48mm	40mm	50mm	200mm	0.86kg
T32001 - Black	100kg	48mm	40mm	50mm	200mm	0.86kg
T32002	100kg	38mm	25mm	40mm	130mm	0.34kg



Stud Hanger

	WLL	D1	D2	D3	D4	D5	kg
T30300	100kg	Ø48mm	48mm	30mm	13mm	160mm	0.50kg

Steel Boom Arms



Boom Arm

T30500 - Silver

T30501 - Black



T30600 - Boom Arm Straight

T30600 - Silver

T30601 - Black



Boom Arm (with safety point)

T31500 - Silver

T31501 - Black



Boom Arm Straight (with safety point)

T31600 - Silver

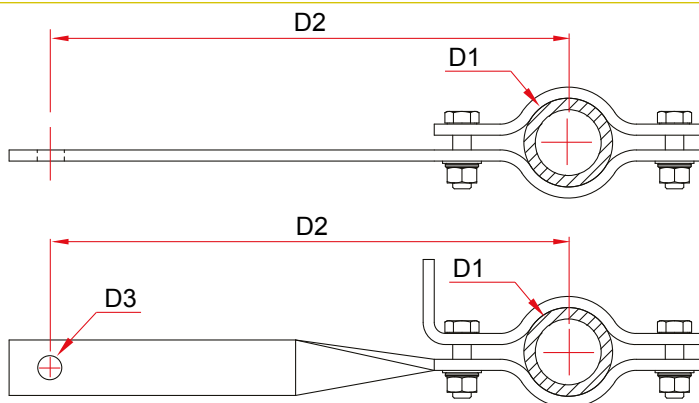
T31601 - Black



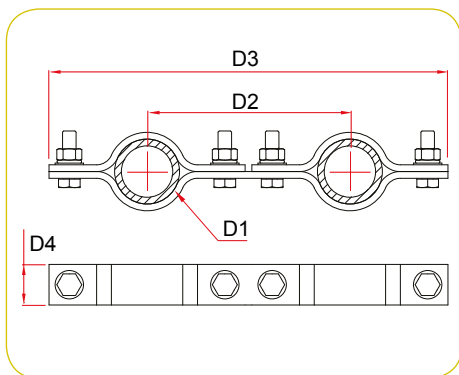
Double Boom Arm Standard

T31700 - Silver

T31701 - Black

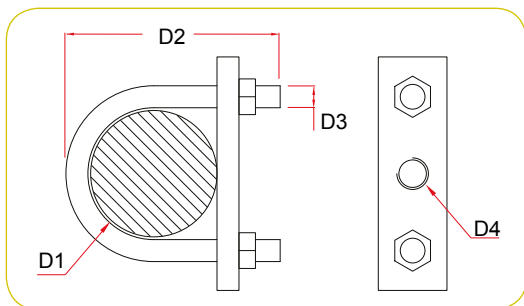


	WLL	D1	D2	D3	kg
T30500/1	12kg	Ø48mm	280mm	13mm	0.83kg
T30600/1	12kg	Ø48mm	280mm	13mm	0.88kg
T31500/1	12kg	Ø48mm	280mm	13mm	0.83kg
T31600/1	12kg	Ø48mm	280mm	13mm	0.88kg
T31700/1	12kg	Ø48mm	280mm x 2	13mm	1.11kg



Pipe to Pipe Clamps

	WLL	D1	D2	D3	D4	kg
T30700	220kg	Ø48mm	150mm	300mm	30mm	0.83kg
T30900	220kg	Ø48mm	225mm	375mm	30mm	0.97kg
T31000	220kg	Ø48mm	300mm	450mm	30mm	1.10kg



"U" Bolts with Threaded Plate

	WLL	D1	D2	D3	D4	kg
T32400	140kg	Ø32mm	62mm	M8	M10	0.15kg
T32500	140kg	Ø32mm	62mm	M8	M12	0.15kg
T33400	140kg	Ø48mm	78mm	M8	M10	0.19kg
T33500	140kg	Ø48mm	78mm	M8	M12	0.19kg



'U' Bolts

T56500	32mm
T56600	48mm

Arches for "U" Bolt

T56800 To suit 48mm "U" Bolts
T56900 'U' Bolt Assembly (T56600 + T56800)

Extension Plate

T33600	30 x 5 x 265mm
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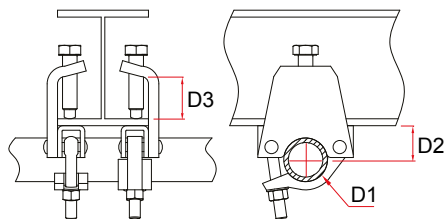
Girder Clamps

The Doughty Girder Clamp range is a comprehensive range of steel bracketry designed specifically to mount on to structural girders/beams often used to suspend loads.



Please note: All parts shown with a WLL are tested under factory conditions in a horizontal plane with the load straight down unless specified otherwise. For parts used in a different orientation we would strongly advise that they are tested after installation by a competent person & a WLL issued by them.

Always remember - Any rigging product or combination of rigging products is only as strong as its weakest, or lowest WLL rated, parts.

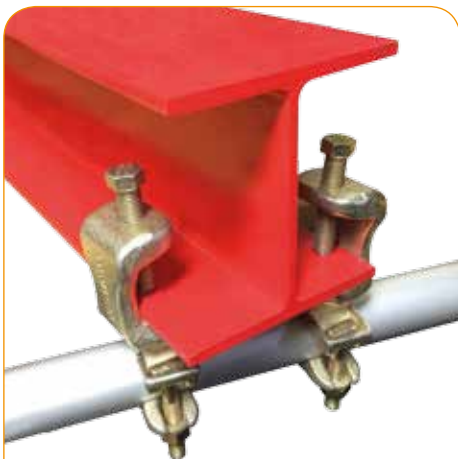


NOTE: MUST BE USED IN PAIRS



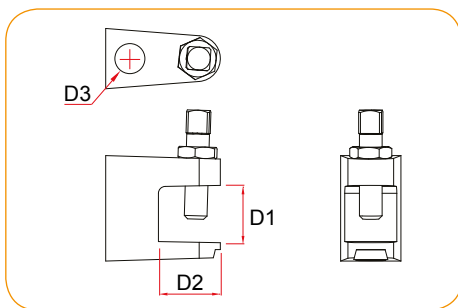
Gravlock Coupler - Pair

	WLL	D1	D2	D3	kg
T29497	600kg	Ø48mm	38mm	0 - 45mm	3.00kg



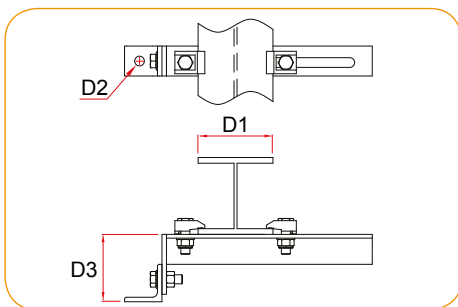
Gravlock Swivel Coupler

	WLL	D1	D2	D3	kg
T29498	600kg	Ø48mm	58mm	0 - 45mm	3.00kg



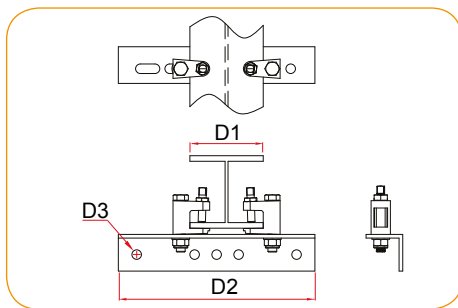
Lindapter Flange Clamp

	WLL	D1	D2	D3	kg
T29700	300kg	25mm	25mm	13mm	0.20kg



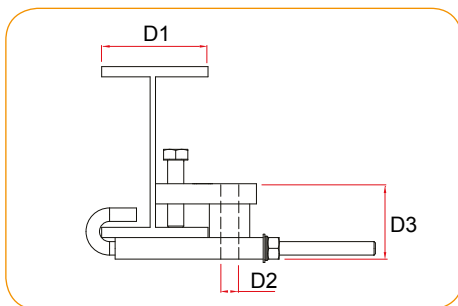
Girder Clamp with End Bracket

	WLL	D1	D2	D3	kg
T29804	60kg	100 - 180mm	13mm	90mm	1.36kg
T29805	60kg	180 - 280mm	13mm	90mm	1.64kg
T29806	60kg	230 - 380mm	13mm	90mm	1.66kg



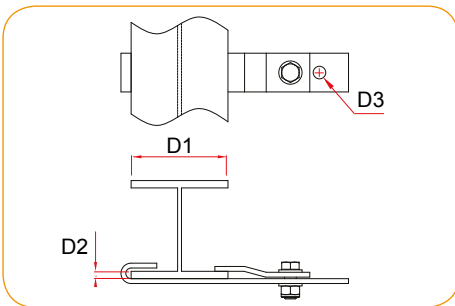
Adjustable Girder Clamp

	WLL	D1	D2	D3	kg
T29500	500kg	75 - 150mm	268mm	13mm	1.19kg
T29600	500kg	150 - 300mm	445mm	13mm	2.0kg



Adjustable Girder Clamp Light Duty

	WLL	D1	D2	D3	kg
T29800	250kg	100 - 150mm	13mm	56mm	1.19kg
T29801	250kg	150 - 200mm	13mm	56mm	1.30kg

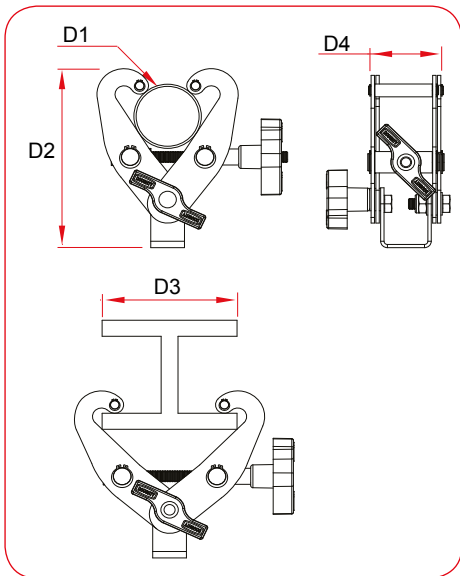


Pressed Girder Bracket

	WLL	D1	D2	D3	kg
T29810	3kg	<125mm	10mm	16mm	0.64kg

Scissor Clamps

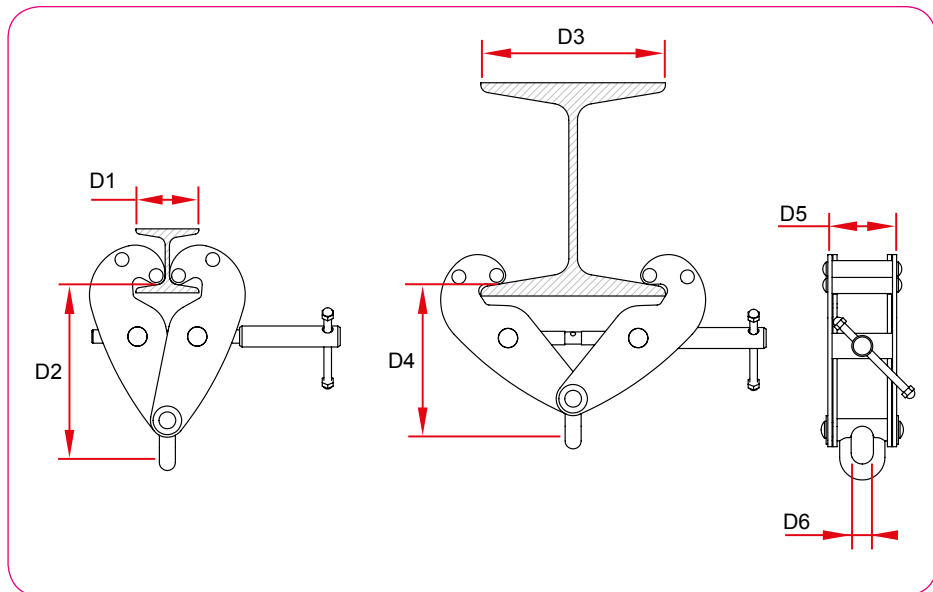
The Scissor Clamp is available in two sizes, Light Duty with a WLL of 100kg & Heavy Duty with a WLL of 250kg. This clamp has been designed to clamp to beams and tubes and has a black powder paint finish.



Scissor Clamps						
	WLL	D1	D2	D3	D4	kg
T29850	100kg	48 - 60mm	170mm	<120mm	62mm	1.40kg
T29860	250kg	48 - 60mm	170mm	<120mm	74mm	1.90kg

Beam Clamp

An all steel clamp for attaching to steel beams providing a quick versatile rigging point. This beam clamp is manufactured with a forged steel attachment eye.



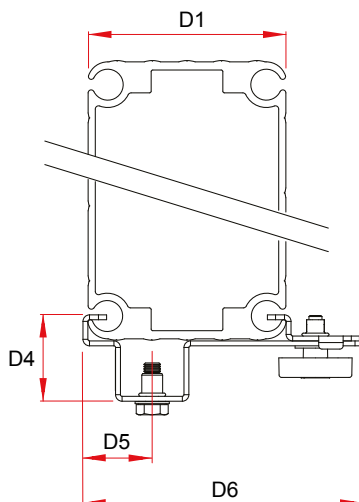
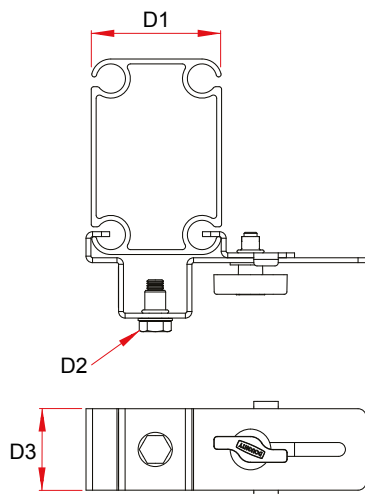
Beam Clamp								
	WLL	D1	D2	D3	D4	D5	D6	kg
T29870	1000kg	75mm	202mm	<220mm	177mm	82mm	27mm	5.0kg

Marquee Clamps

The range of Marquee Clamps are adjustable specifically designed for use with clear span marquees using grooved aluminium Kader style beams.



WLL 20 Kg

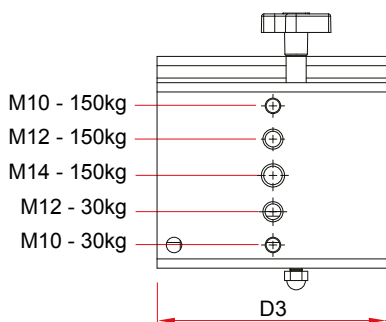
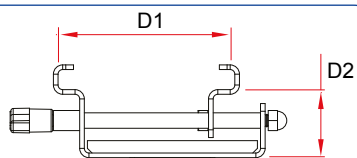


Light Duty Marquee Clamp

	WLL	D1	D2	D3	D4	D5	D6	kg
T28865	20kg	80 - 125mm	M10	50mm	53mm	40mm	172mm	0.5kg



WLL 150Kg

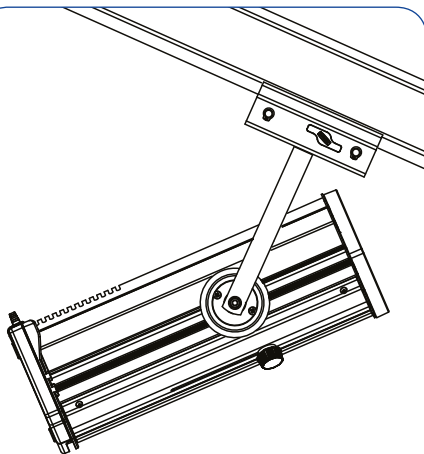
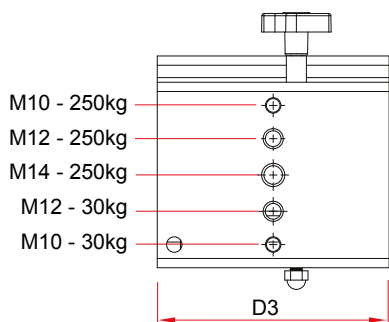
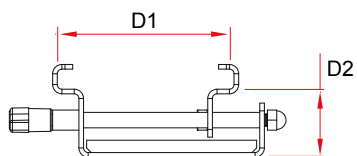


Standard Marquee Clamp

	WLL	D1	D2	D3	kg
T28870	<150kg	50 - 110mm	44mm	150mm	1.30kg



WLL 250Kg



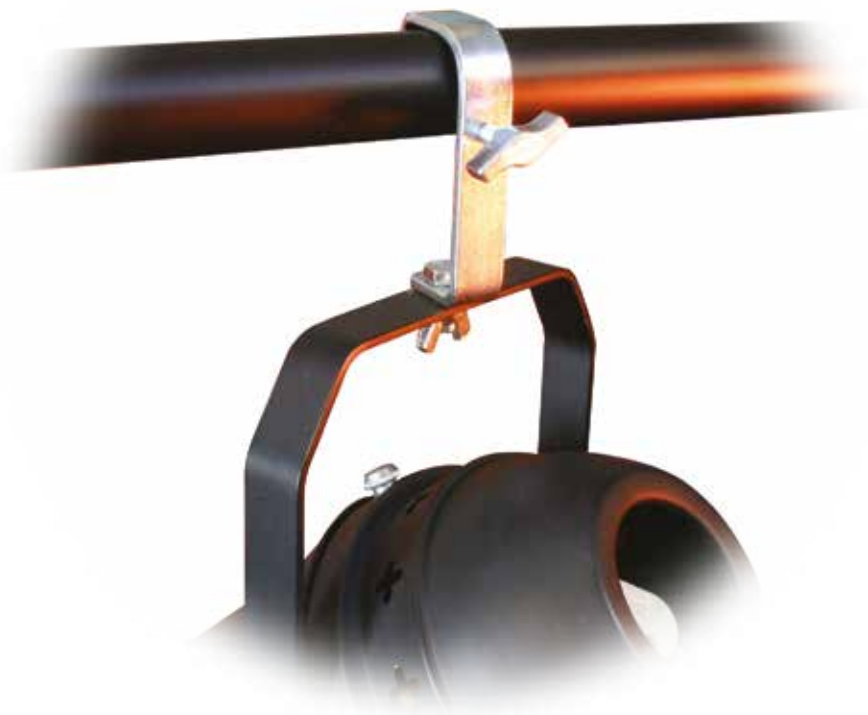
Heavy Duty Marquee Clamp

	WLL	D1	D2	D3	kg
T28875	<250kg	50 - 150mm	47mm	200mm	3.60kg

Hook Clamps

The standard range of Hook Clamps includes clamps to suit tube diameters from 20mm to 75mm. Manufactured from high quality steel, these clamps are simple to use and extremely strong.

They are available in a bright zinc plate finish or black powder paint and virtually any size hook clamp can be made to your specification upon request.





T20100 - Silver
T20101 - Black



T20104 - Silver
T2010401 - Black



T20107 - Silver
T2010701 - Black

Hook Clamp 50mm

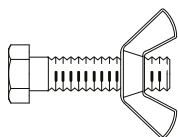
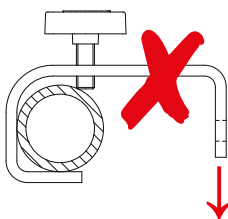
WLL	40kg
D1	95mm
D2	13mm
D3	Ø48 - 51mm
Width	25mm
kg	0.32kg

Hook Clamp c/w Fixings

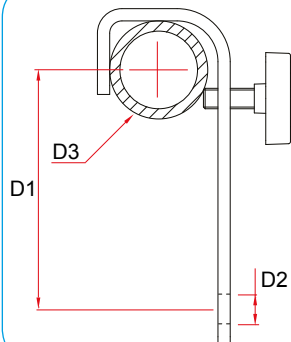
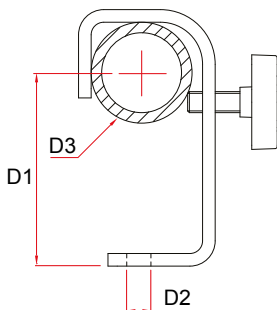
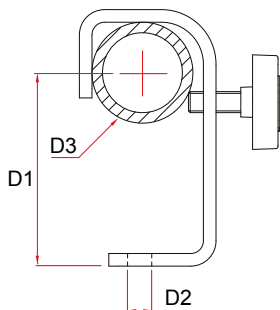
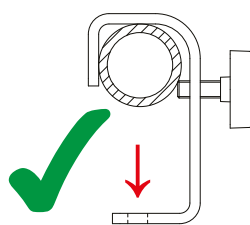
WLL	40kg
D1	95mm
D2	13mm
D3	Ø48 - 51mm
Width	25mm
kg	0.32kg

Hook Clamp Straight Back

WLL	40kg
D1	115mm
D2	13mm
D3	Ø48 - 51mm
Width	25mm
kg	0.33kg



M10 x 25





T20105 - Silver
T2010501 - Black



T20102 - Silver



T20400 - Silver
T20401 - Black

Hook Clamp Single-Ended

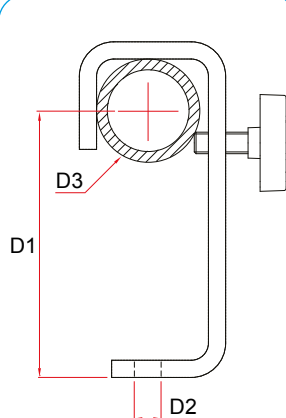
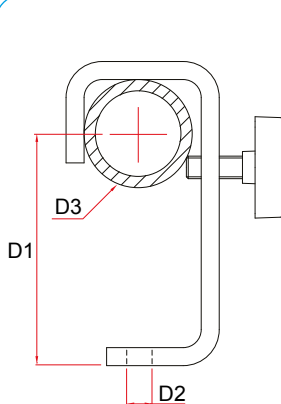
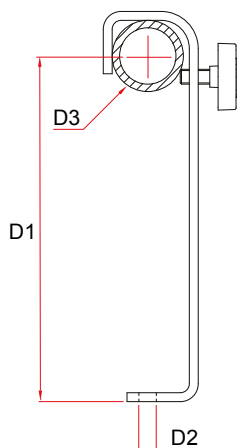
WLL	40kg
D1	233mm
D2	13mm
D3	Ø48 - 51mm
Width	25mm
kg	0.48kg

50mm Medium Duty

WLL	100kg
D1	103mm
D2	13mm
D3	Ø48 - 51mm
Width	25mm
kg	0.43kg

50mm Heavy Duty

WLL	150kg
D1	124mm
D2	13mm
D3	Ø48 - 51mm
Width	50mm
kg	0.88kg





T20900 - Silver
T20901 - Black



T21100 - Silver
T21101 - Black



T21800 - Silver
T21801 - Black

Hook Clamp TV Spec

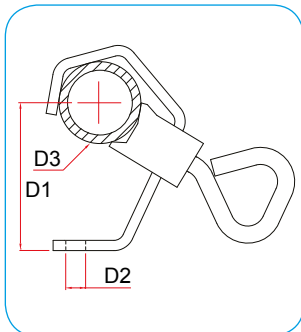
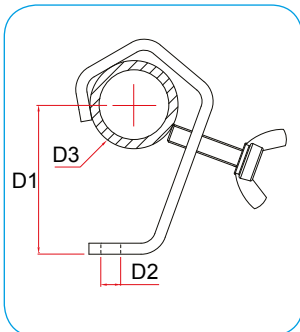
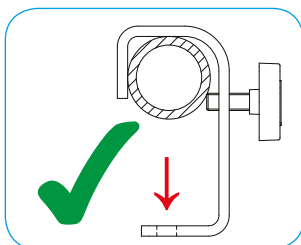
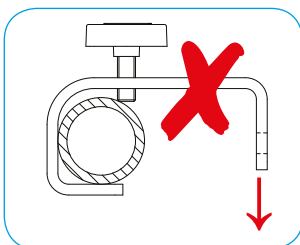
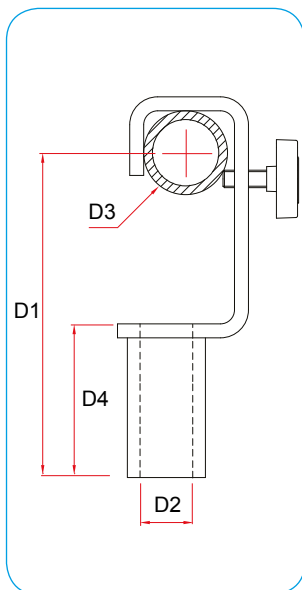
WLL	150kg
D1	186mm
D2	29mm
D3	Ø48 - 51mm
D4	88mm
Width	50mm
kg	1.42kg

Hook Clamp Universal

WLL	40kg
D1	80mm
D2	13mm
D3	Ø25 - 51mm
Width	25mm
kg	0.29kg

Truss Type Universal

WLL	40kg
D1	80mm
D2	13mm
D3	Ø48 - 51mm
Width	25mm
kg	0.38kg





T20405 - Black



T20212



T20210

Universal Heavy Duty

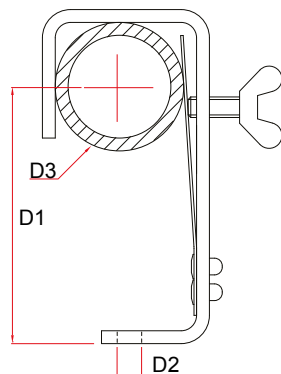
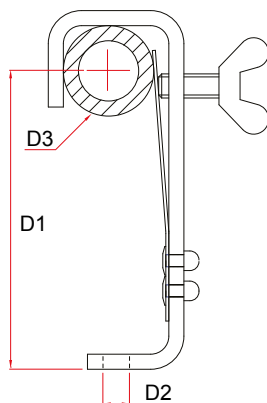
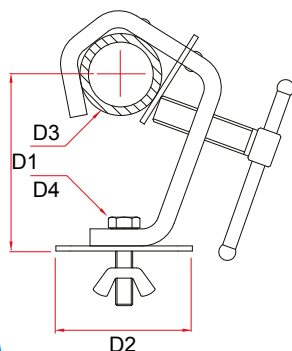
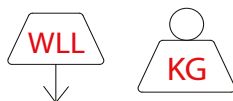
WLL	150kg
D1	100mm
D2	Ø80mm
D3	Ø38 - 51mm
D4	M10 x 45
Width	50mm
kg	1.16kg

30mm c/w Protector Strip

WLL	25kg
D1	100mm
D2	10mm
D3	Ø30mm
Width	25mm
kg	0.20kg

50mm c/w Protector Strip

WLL	25kg
D1	100mm
D2	10mm
D3	Ø48 - 51mm
Width	25mm
kg	0.26kg





T20000



T20301



T20200 - Silver
T20201 - Black

Hook Clamp 18mm Light Duty

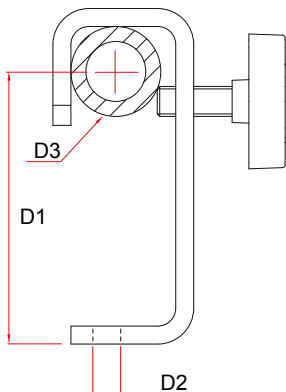
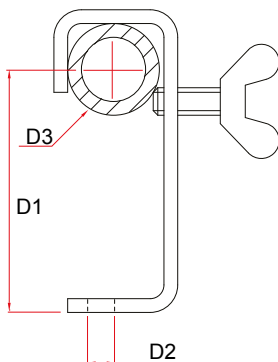
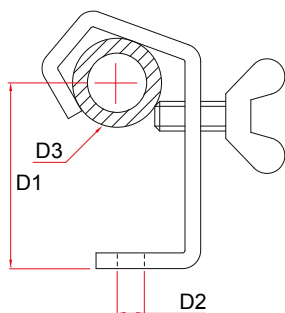
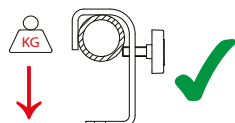
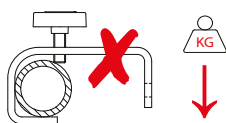
WLL	2kg
D1	37mm
D2	7mm
D3	Ø18mm
Width	20mm
kg	0.03kg

Hook Clamp 20mm

WLL	15kg
D1	53mm
D2	7mm
D3	Ø20mm
Width	20mm
kg	0.07kg

Hook Clamp 30mm

WLL	15kg
D1	91mm
D2	13mm
D3	Ø30mm
Width	25mm
kg	0.30kg





T20103 - Silver
T2010301 - Black



T21805 - Silver
T2180501 - Black



T21810 - Silver
T2181001 - Black

Hook Clamp 50mm Light Duty

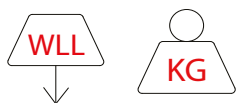
WLL	2kg
D1	80mm
D2	11mm
D3	Ø48 - 51mm
Width	20mm
kg	0.11kg

Hook Clamp 75mm

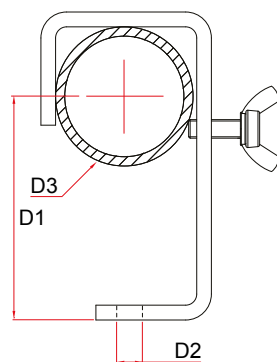
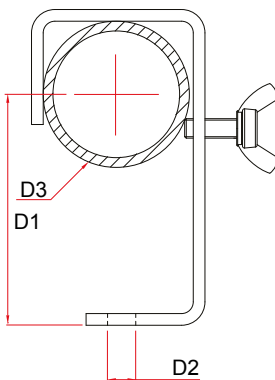
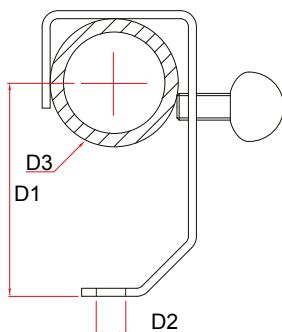
WLL	50kg
D1	120mm
D2	13mm
D3	Ø75mm
Width	30mm
kg	0.38kg

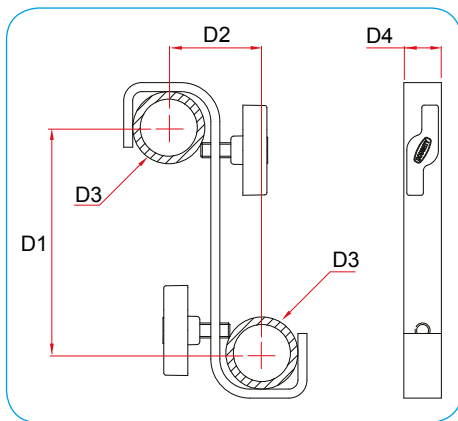
Hook Clamp 75mm Heavy Duty

WLL	150kg
D1	120mm
D2	13mm
D3	Ø75mm
Width	50mm
kg	1.08kg



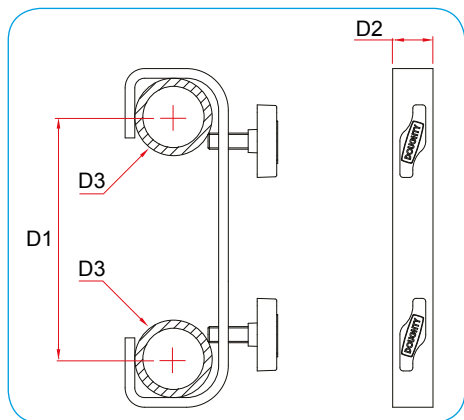
**Special
Hook Clamps
Made to Order**





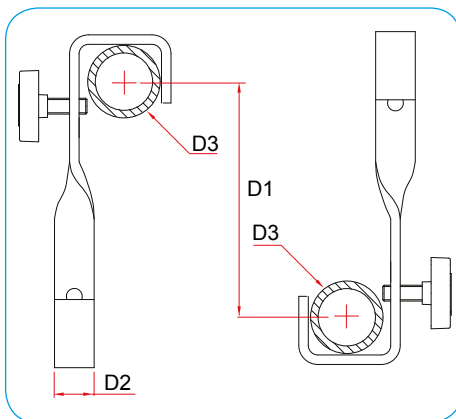
Double Ended 180° Twist Hook Clamp

	WLL	D1	D2	D3	D4	kg
T19700	40kg	150mm	60mm	Ø48 - 51mm	25mm	0.50kg
T19800	40kg	225mm	60mm	Ø48 - 51mm	25mm	0.58kg
T19900	40kg	300mm	60mm	Ø48 - 51mm	25mm	0.67kg
T19905	40kg	450mm	60mm	Ø48 - 51mm	25mm	0.89kg
T19910	40kg	600mm	60mm	Ø48 - 51mm	25mm	1.09kg



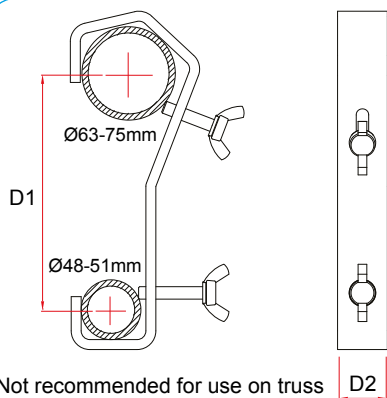
Double Ended Parallel Hook Clamp

	WLL	D1	D2	D3	kg
T20500	40kg	150mm	25mm	Ø48 - 51mm	0.50kg
T20600	40kg	225mm	25mm	Ø48 - 51mm	0.58kg
T20700	40kg	300mm	25mm	Ø48 - 51mm	0.67kg
T20705	40kg	450mm	25mm	Ø48 - 51mm	0.89kg
T20710	40kg	600mm	25 mm	Ø48 - 51mm	1.09kg



Hook Clamp Double-Ended 90° Twist

	WLL	D1	D2	D3	kg
T21500	40kg	150mm	25mm	Ø48 - 51mm	0.50kg
T21600	40kg	225mm	25mm	Ø48 - 51mm	0.58kg
T21700	40kg	300mm	25mm	Ø48 - 51mm	0.67kg
T21705	40kg	450mm	25mm	Ø48 - 51mm	0.89kg
T21710	40kg	600mm	25mm	Ø48 - 51mm	1.09kg

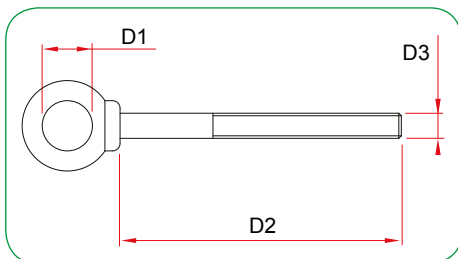


Hook Clamp Double-Ended (63-75mm to 48-50mm)

	WLL	D1	D2	kg
T20910	150kg	190mm	40mm	1.03kg

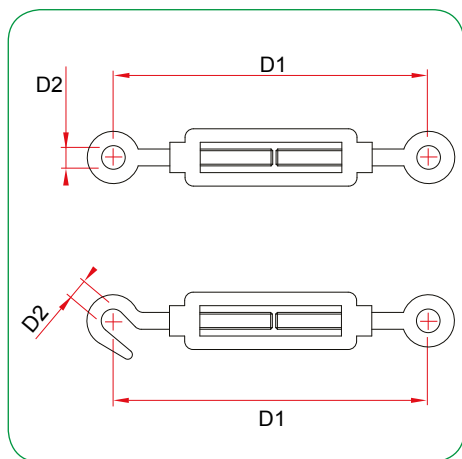
Special Sizes Made to Order

Hooks & Eyes



Gate Eye

		D1	D2	D3
T42600	M10 x 115	12mm	115mm	11mm
T42700	M12 x 135	18mm	135mm	13mm

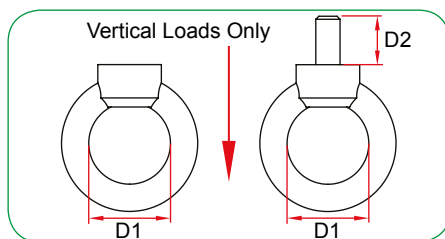


Barrel Strainers

		WLL	D1	D2
T39500	M8 Hook and Eye	130kg	155 - 225mm	10mm
T37500	M8 Eye and Eye	230kg	155 - 225mm	10mm
T39600	M10 Hook and Eye	440kg	190 - 265mm	13.5mm
T37600	M10 Eye and Eye	700kg	190 - 265mm	13.5mm

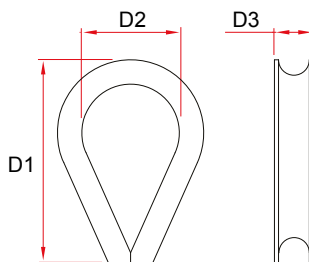
Eye Nuts

	Size	WLL	D1	Standard	Notes
T42000	M6	70kg	20mm	DIN 582	(plated)
T42001	M6	70kg	20mm	DIN 582	Tested (plated)
T42100	M8	140kg	20mm	DIN 582	(plated)
T42101	M8	140kg	20mm	DIN 582	Tested (plated)
T42200	M10	230kg	24mm	DIN 582	(plated)
T42201	M10	230kg	24mm	DIN 582	Tested (plated)
T42202	M10	230kg	24mm	DIN 582	(black)
T42300	M12	340kg	30mm	DIN 582	(plated)
T42301	M12	500kg	43mm	HT	Tested (large eye)
T42302	M12	340kg	30mm	DIN 582	(black)
T42303	M12	340kg	30mm	DIN 582	Tested (black)
T42305	M12	500kg	35mm		Tested (Red)
T42307	M12	750kg	35mm	DIN 582	Tested (pink)



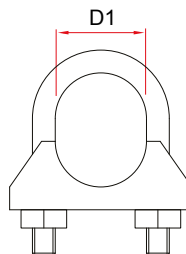
Eye Bolts

	Size	WLL	D1	D2	Standard	Notes
T42500	M6	100kg	15mm	19mm	BS 4278/1	(self colour)
T42501	M6	100kg	15mm	19mm	BS 4278/1	Tested (plated)
T42502	M6	70kg	20mm	13mm	DIN 580	Large Eye (plated)
T39700	M8	150kg	15mm	19mm	BS 4278/1	(self colour)
T39701	M8	150kg	15mm	19mm	BS 4278/1	Tested (plated)
T39702	M8	140kg	20mm	13mm	DIN 580	Large Eye (plated)
T39800	M10	250kg	15mm	19mm	BS 4278/1	(self colour)
T39801	M10	250kg	15mm	19mm	BS 4278/1	Tested (plated)
T39802	M10	230kg	25mm	17mm	DIN 580	Large Eye (self colour)
T39900	M12	400kg	15mm	19mm	BS 4278/1	(self colour)
T39901	M12	400kg	15mm	19mm	BS 4278/1	Tested (plated)
T39902	M12	340kg	30mm	19mm	DIN 580	Large Eye (plated)



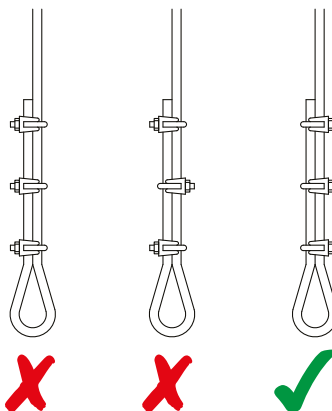
Thimbles

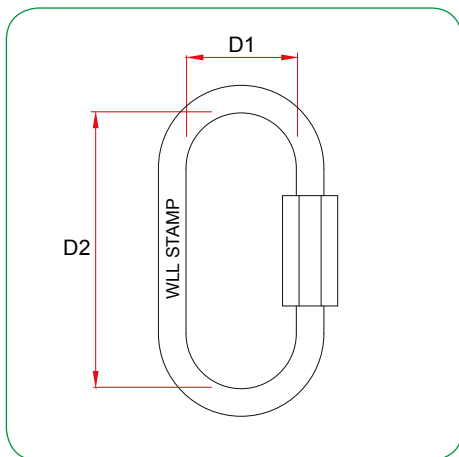
	Size	D1	D2	D3	Standard
T38600	3mm	26mm	10mm	7mm	
T38700	4 - 5mm	34mm	13mm	9mm	BS 464
T38800	6 - 7mm	38mm	17mm	10mm	
T38802	6 - 7mm	48mm	18mm	12mm	BS 464
T38900	8mm	53mm	24mm	13mm	
T38902	8mm	57mm	22mm	13mm	BS 464
T39000	9 - 10mm	62mm	31mm	14mm	
T39002	9 - 10mm				BS 464



Cable Grips

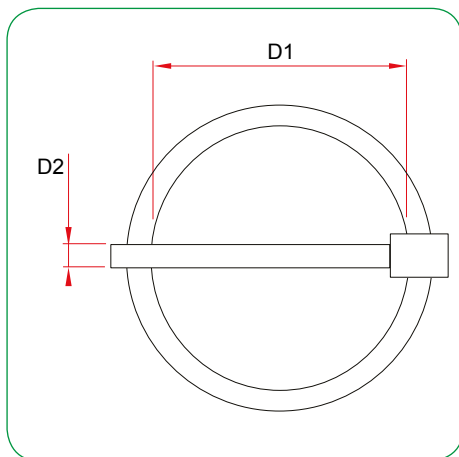
	Size	D1	Standard
T38000	3mm	5mm	
T38100	4 - 5mm	6mm	
T38101	4 - 5mm	6mm	DIN 1142
T38200	6 - 7mm	8mm	
T38201	6 - 7mm	8mm	DIN 1142
T38400	8mm	9mm	
T38401	8mm	9mm	DIN 1142
T38500	9 - 10mm	12mm	
T38501	9 - 10mm	12mm	DIN 1142





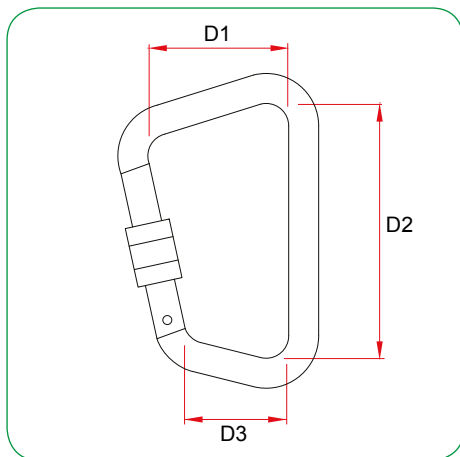
Quick Links - Rated

	Size	WLL	D1	D2	Standard
T23490	M6	200kg	14mm	48mm	DIN 56926
T23500	M8	350kg	17mm	58mm	DIN 56926
T23505	M10	500kg	20mm	70mm	DIN 56926
T23510	M12	750kg	23mm	81mm	DIN 56926



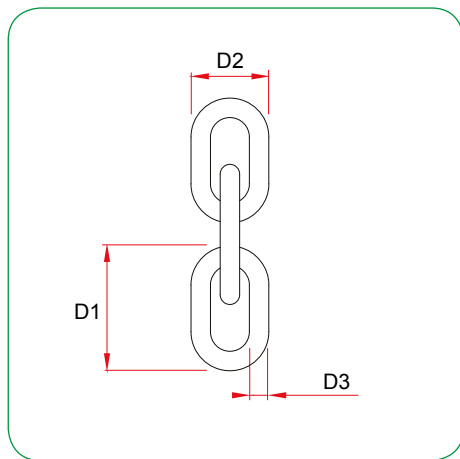
Lynch Pins

	WLL	D1	D2
T21000	200kg	43mm	5.80mm



Karabiners

	WLL	D1	D2	D3
T2870001	400kg	45mm	88mm	30mm



Lifting Chain

	Length	WLL	D1	D2	D3
T28000	per metre	250kg	35mm	25mm	7mm
T28001	1m	250kg	35mm	25mm	7mm
T28025	25m	250kg	35mm	25mm	7mm
T28050	50m	250kg	35mm	25mm	7mm
T28075	100m	250kg	35mm	25mm	7mm

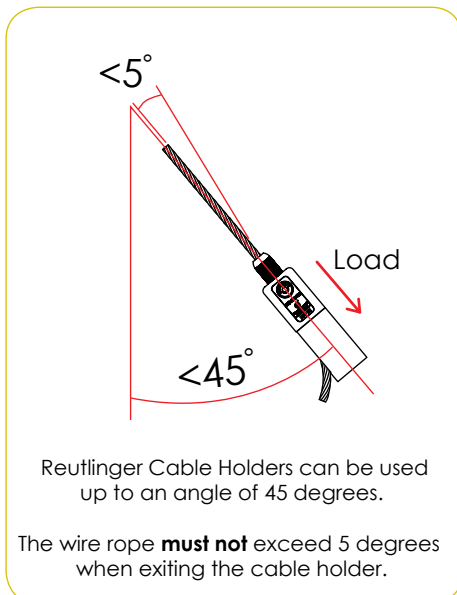
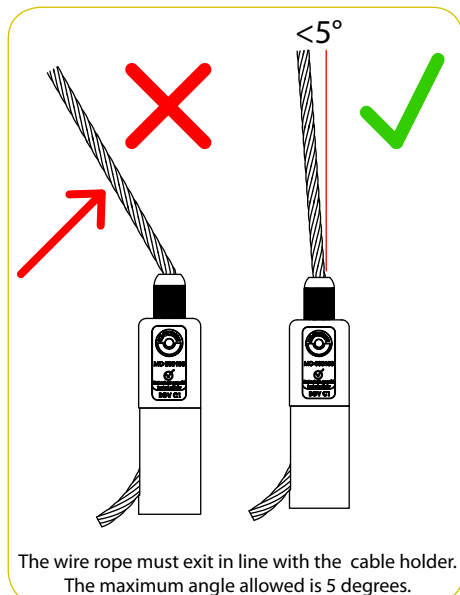
Cable Holders

The range of Cable Holders from Reutlinger is designed to suspend static loads from wire rope without the need for tools or damaging the steel rope.

There are three sizes available, 50 SV III, 66 SV III and 80 SV III.

The Cable Holder is simply threaded on to the wire rope and with the safety nut depressed it can be placed in any position. When the desired position is achieved the safety nut is screwed down by hand and the load can be attached. These Cable Holders can be repositioned numerous times without damaging the wire rope.





Working Loads

Wire Diameter in mm	Ø4.0mm	Ø5.0mm	Ø6.0mm	Ø1/4"	Ø8.0mm
Cable DIN EN 12385-4, 6x7+1FE,1770 N/mm²					
Type 50SV III (DGUV)	60kg	90kg	-	-	-
Cable DIN EN 12385-4, 6x19+1FE,1770 N/mm²					
Type 50SV III (DGUV)	60kg	90kg	-	-	-
Type 66SV III (DGUV)	-	-	135kg	150kg	-
Type 80SV III (DGUV)	-	-	135kg	-	240kg
Cable DIN EN 12385-4, 6x37+1FE,1770 N/mm²					
Type 80SV III (DGUV)	-	-	135kg	-	240kg



T37650



T37653



T37651
T37656 - Side Exit Wire

Type 50 - M12 Male

WLL	4mm wire	60kg
WLL	5mm wire	90kg
D1	M12	
D2	17mm	
D3	Ø25mm	
D4	70mm	
kg	0.12kg	

Type 50 - M12 Female

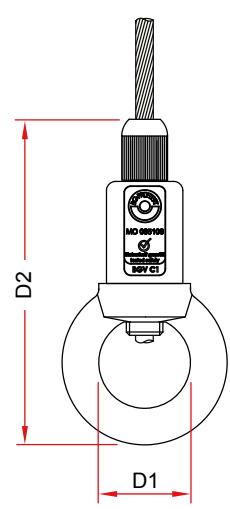
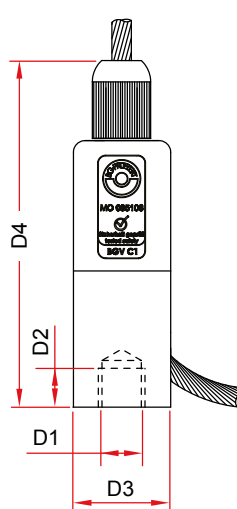
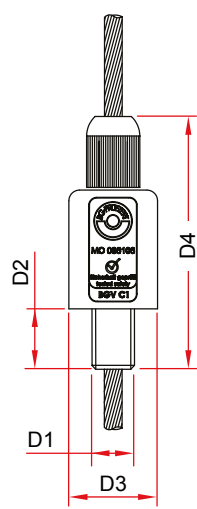
WLL	4mm wire	60kg
WLL	5mm wire	90kg
D1	M12	
D2	10mm	
D3	Ø25mm	
D4	93mm	
kg	0.24kg	

Type 50 with Eye

WLL	4mm wire	60kg
WLL	5mm wire	90kg
D1	30mm	
D2	107mm	
kg	0.26kg	



Type **50SV III**





T37652



T37655



T37654

Type 50 with Fork

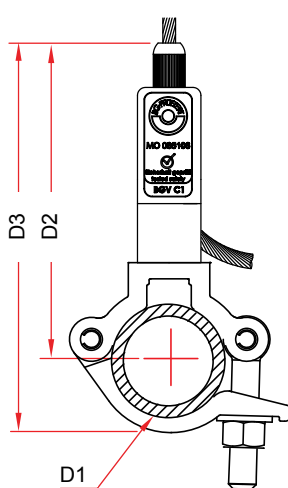
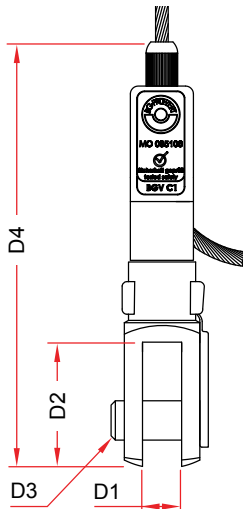
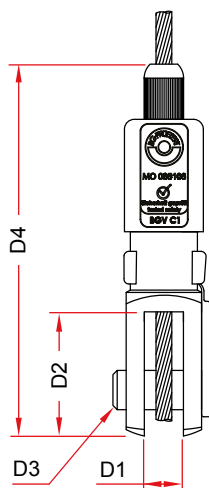
WLL	4mm wire	60kg
WLL	5mm wire	90kg
D1	14mm	
D2	41mm	
D3	Ø14mm	
D4	126mm	
kg	0.35kg	

Type 50 - Side Exit Fork

WLL	4mm wire	60kg
WLL	5mm wire	90kg
D1	14mm	
D2	41mm	
D3	Ø14mm	
D4	165mm	
kg	0.49kg	

Type 50 with Coupler

WLL	4mm wire	60kg
WLL	5mm wire	90kg
D1	Ø48 - 51mm	
D2	125mm	
D3	165mm	
Clamp Width	30mm	
kg	0.50kg	





T37660



T37663



T37661
T37666 - Side Exit Wire

Type 66 - M16 Male

WLL	6mm wire	135kg
WLL	1/4" (6.35) wire	150kg
D1	M16	
D2	20mm	
D3	Ø34mm	
D4	70mm	
kg	0.12kg	

Type 66 - M16 Female

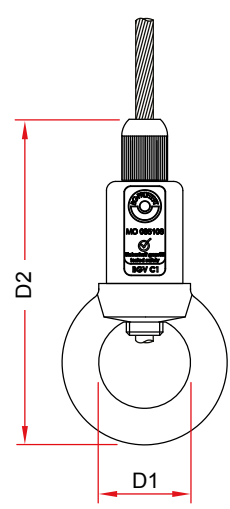
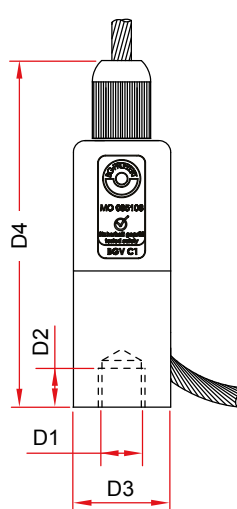
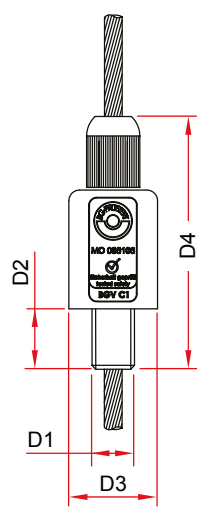
WLL	6mm wire	135kg
WLL	1/4" (6.35) wire	150kg
D1	M16	
D2	12mm	
D3	Ø34mm	
D4	96mm	
kg	0.24kg	

Type 66 with Eye

WLL	6mm wire	135kg
WLL	1/4" (6.35) wire	150kg
D1	35mm	
D2	110mm	
kg	0.26kg	



Type **66SV III**





T37662



T37665



T37664

Type 66 with Fork

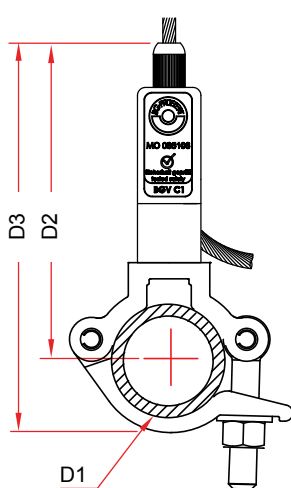
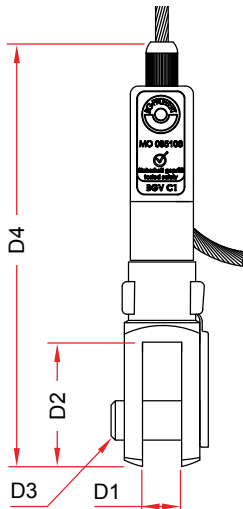
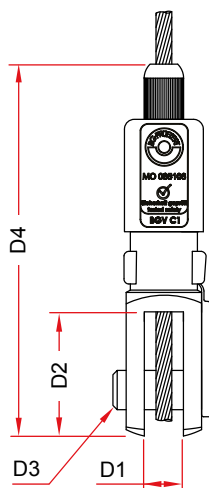
WLL	6mm wire	135kg
WLL	1/4" (6.35) wire	150kg
D1	16mm	
D2	32mm	
D3	Ø16mm	
D4	129mm	
kg	0.35kg	

Type 66 - Side Exit Fork

WLL	6mm wire	135kg
WLL	1/4" (6.35) wire	150kg
D1	13mm	
D2	32mm	
D3	Ø16mm	
D4	176mm	
kg	0.49kg	

Type 66 with Coupler

WLL	6mm wire	135kg
WLL	1/4" (6.35) wire	150kg
D1	Ø48 - 51mm	
D2	120mm	
D3	160mm	
Clamp Width	30mm	
kg	0.50kg	





T37680



T37683



T37681
T37686 - Side Exit Wire

Type 80 - M20 Male

WLL	6mm wire	135kg
WLL	8mm wire	240kg
D1	M20	
D2	30mm	
D3	Ø40mm	
D4	115mm	
kg	0.54kg	

Type 80 - M12 Female

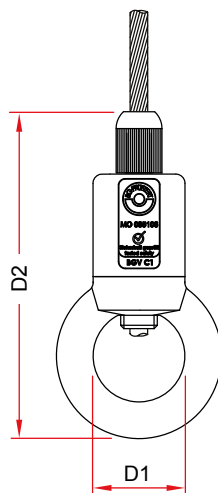
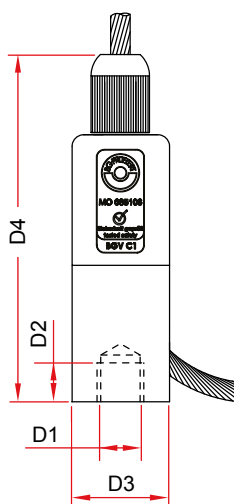
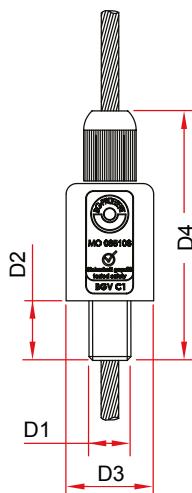
WLL	6mm wire	135kg
WLL	8mm wire	240kg
D1	M12	
D2	10mm	
D3	Ø40mm	
D4	139mm	
kg	0.94kg	

Type 80 with Eye

WLL	6mm wire	135kg
WLL	8mm wire	240kg
D1	Ø40mm	
D2	158mm	
kg	0.88kg	

REUTLINGER
Abhängung mit System

Type **80SV III**





T37682



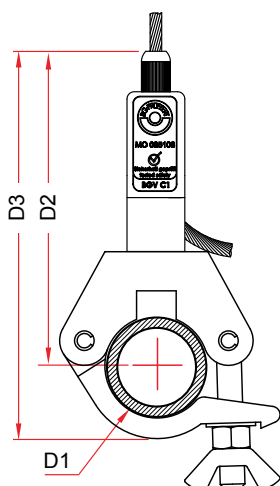
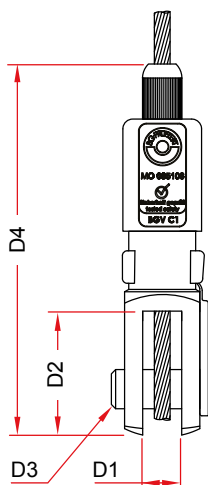
T37684

Type 80 with Fork

WLL	6mm wire	135kg
WLL	8mm wire	240kg
D1	20mm	
D2	65mm	
D3	Ø20mm	
D4	191mm	
kg	1.20kg	

Type 80 with Coupler

WLL	6mm wire	135kg
WLL	8mm wire	240kg
D1	Ø48 - 51mm	
D2	194mm	
D3	228mm	
Clamp Width	50mm	
kg	1.62kg	

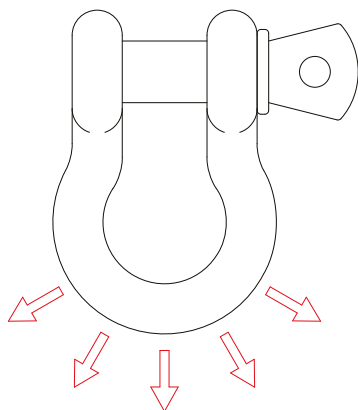


REUTLINGER

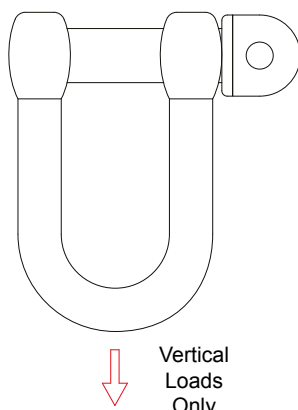
Abhängung mit System

Bow Shackles

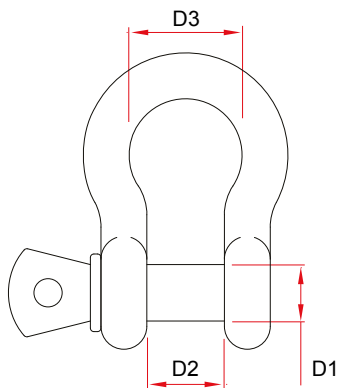
Unlike "D" Shackles, Bow Shackles are able to take loads from multiple directions.



BOW SHACKLE



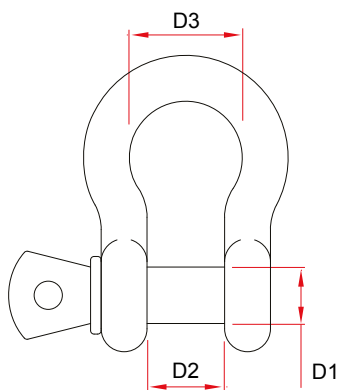
"D" SHACKLE



Bow Shackles - Silver Pin

(EN 13889/RR-C-271B)

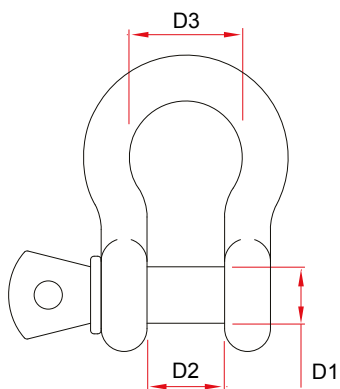
	WWL	D1	D2	D3
T39100	330kg	6mm	9.5mm	16mm
T39200	500kg	8mm	12mm	19mm
T39300	750kg	10mm	13mm	20mm
T39400	1500kg	12.5mm	17mm	28mm



Bow Shackles - Green Pin

(EN 13889/RR-C-271B)

	WWL	D1	D2	D3
T39101	330kg	6mm	9.5mm	16mm
T39201	500kg	8mm	12mm	21mm
T39301	750kg	10mm	13mm	22mm
T39401	1500kg	12.5mm	17mm	28mm



Crosby® G209 Shackles

(EN 13889/RR-C-271B)

Available on request

Safety Bonds

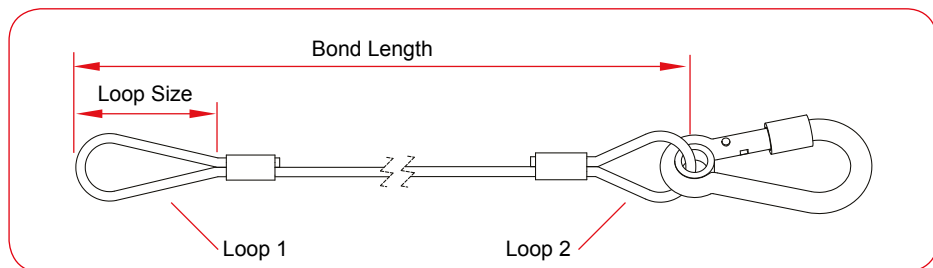
The Safety Bonds shown on the following pages represent our standard range of stock items. We are able to supply any length bonds with fittings to suit individual requirements, including dedicated labels.

All bonds are manufactured in accordance with BS302, BS7905, DIN 3055, DIN 3060, LOLER Standards and the Machinery Directive and are supplied with a batch test certificate.

Safety Bonds are to be used as a secondary safety device and not for lifting.

Custom Bonds

Doughty Engineering supplies a full range of bonds to the customer's specification. When ordering custom bonds note the bond length is from loop to loop excluding any hooks. If a hook is specified with a soft loop, the soft loop will be large enough for the hook to pass through. A thimble loop will allow the hook to be attached to the thimble loop. Special loop sizes can be made on request. Our technical sales team will advise the wire diameter and hook specification depending on the WLL required. All bonds can be supplied with the WLL, your company name and contact details printed on a heat shrink sleeve.



Please note: To comply with the relevant standards all safety bonds must be marked with a Working Load Limit. In the interest of traceability they must display a Serial Number, Company Name & Contact Details.

Company Name and Contact Details must fit on two lines of 25 characters (including spaces).



Safety Bond WLL 5kg - 500mm

T2840001

2mm wire



Safety Bond WLL 5kg - 540mm

T22001

3mm wire



Safety Bond WLL 20kg - 600mm

T2841001

2mm wire



Safety Bond WLL 36kg - 600mm

T2844001

4mm wire



Safety Bond WLL 36 kg - 1000mm

T2844501

4mm wire



Safety Bond WLL 100kg - 600mm

T2849001

3mm wire

Standard Pulleys

The Doughty Pulley system is of modular construction, allowing easy assembly of single or multiple sheave units from a limited range of standard components. With the addition of various brackets and fixings, the basic pulleys will fulfil a variety of specialist needs. Sheaves are available for fibre or wire ropes.

All Standard Doughty Pulleys have a Working Load Limit of 150kg.





Single



Double



Triple



Quad



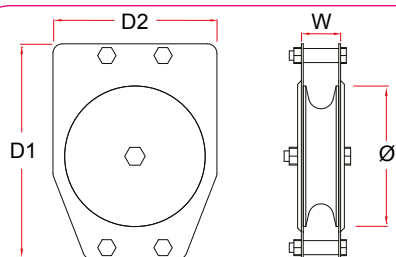
Quin

Ø100 = 12mm Rope
4mm Wire

Ø150 = 18mm Rope
6mm Wire

Ø180 = 18mm Rope
6mm Wire

Ø100mm		Ø150mm		Ø180mm		
Wire		Wire		Wire		W
T42800	Single	T42820	Single	T42830	Single	22mm
T42801	Double	T42821	Double	T42831	Double	53mm
T42812	Triple	T42822	Triple	T42832	Triple	85mm
T42813	Quad	T42823	Quad	T42833	Quad	116mm
T42814	Quin	T42824	Quin	T42834	Quin	148mm
Rope		Rope		Rope		W
T42836	Single	T42846	Single	T42855	Single	22mm
T42837	Double	T42847	Double	T42856	Double	53mm
T42838	Triple	T42848	Triple	T42857	Triple	85mm
T42839	Quad	T42849	Quad	T42858	Quad	116mm
T42840	Quin	T42850	Quin	T42859	Quin	148mm



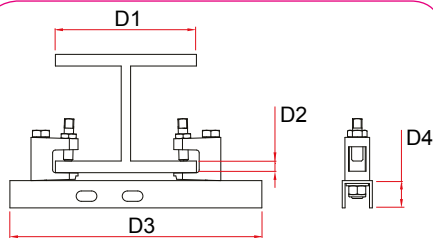
	Ø100mm	Ø150mm	Ø180mm
D1	178mm	230mm	278mm
D2	125mm	175mm	200mm
WLL	150Kg	150kg	150kg



Wire



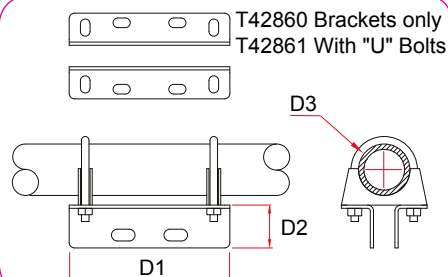
Rope



Note: Two channels are required for triple, quad & quinn pulleys

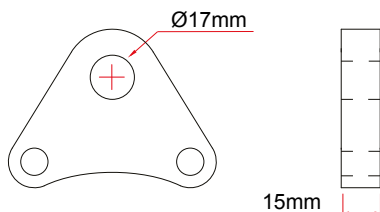
Girder Channel with Flange Clamps

	WLL	D1	D2	D3	D4
T42870	150kg	75 - 150mm	< 20mm	270mm	25mm
T42872	150kg	150 - 300mm	< 20mm	450mm	25mm



Multifix Brackets

	WLL	D1	D2	D3
T42860 (without "U" bolts)	150kg	150mm	50mm	Ø48mm
T42861 (with "U" bolts)	150kg	150mm	50mm	Ø48mm

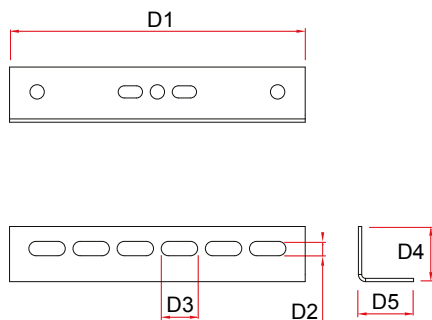


Awning Profile

Designed to be used with an M12 Shackle.

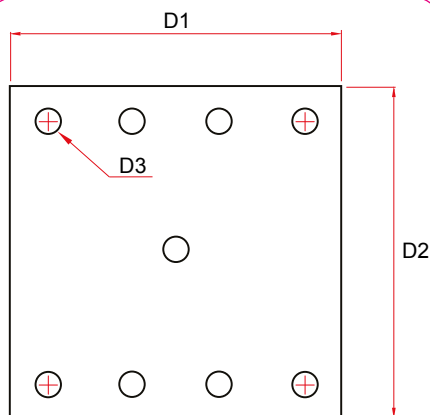
T42865

WLL 150kg



Multibeam / Girder Angle Brackets

	WLL	D1	D2	D3	D4	D5
T42885	150kg	270mm	13mm	33mm	50mm	50mm
T42886	150kg	450mm	13mm	33mm	50mm	50mm



Wall Side Plates

	WLL	D1	D2	D3
T42897 for 100mm Pulleys	150kg	185mm	178mm	10mm
T42898 for 150mm Pulleys	150kg	235mm	230mm	10mm
T42899 for 180mm Pulleys	150kg	275mm	260mm	10mm

Heavy Duty Pulleys

The Doughty Heavy Duty Pulleys are constructed from nylon sheaves together with ball raced bearings for smooth friction free operation. Side plates are constructed from 5mm thick steel giving an extremely strong construction. Heavy Duty Pulleys are available with 100mm, 150mm and 200mm sheaves with WLLs of 200, 400 and 600kgs respectively. Pulleys are available for both fibre and wire ropes together with a range of bracketry to suit.





Single



Double



Triple



Quad



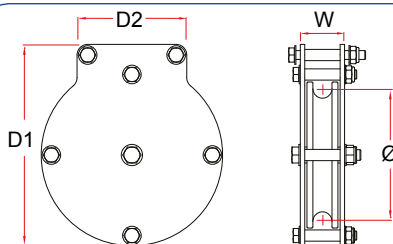
Quin

Ø100 = 12mm Rope
4mm Wire

Ø150 = 18mm Rope
6mm Wire

Ø200 = 18mm Rope
6mm Wire

HD Ø100mm		HD Ø150mm		HD Ø200mm		
Rope		Rope		Rope		W
T42931	Single	T42941	Single	T42951	Single	50mm
T42932	Double	T42942	Double	T42952	Double	75mm
T42933	Triple	T42943	Triple	T42953	Triple	100mm
T42934	Quad	T42944	Quad	T42954	Quad	130mm
T42935	Quin	T42945	Quin	T42955	Quin	160mm
Wire		Wire		Wire		W
T42901	Single	T42911	Single	T42921	Single	50mm
T42902	Double	T42912	Double	T42922	Double	75mm
T42903	Triple	T42913	Triple	T42923	Triple	100mm
T42904	Quad	T42914	Quad	T42924	Quad	130mm
T42905	Quin	T42915	Quin	T42925	Quin	160mm



Ø	100mm	150mm	200mm
D1	178mm	228mm	278mm
D2	124mm	124mm	174mm
WLL	200kg	400kg	600kg



Wire



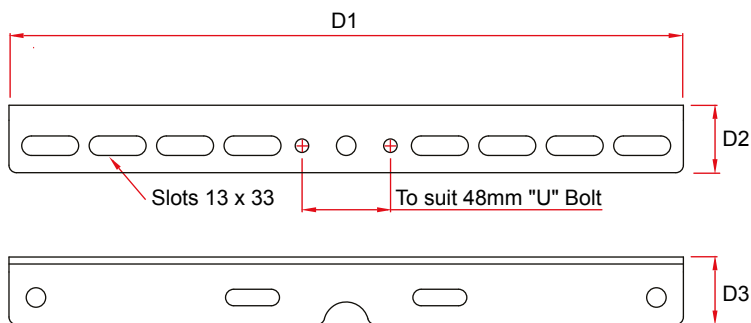
Rope



Multibeam Brackets - Heavy Duty

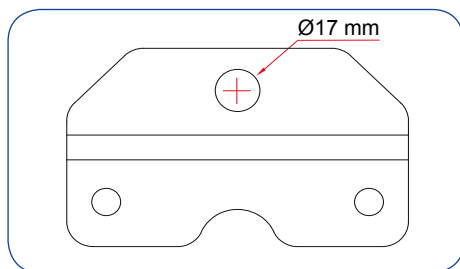
	WLL	D1	D2	D3
T42990	600kg	225mm	45mm	45mm
T42995	600kg	450mm	45mm	45mm

A pair of slotted angle brackets which can be used for wall or ceiling applications. The holes are specifically spaced for the use of 48mm "U" Bolts (T56600).



Heavy Duty Pulley Awnings

100 & 150mm			200mm		
T42984	100 & 150mm	Single Sheave	T42987	200mm	Single Sheave
T42985	100 & 150mm	Double Sheave	T42988	200mm	Double Sheave
T42986	100 & 150mm	Triple Sheave	T42989	200mm	Triple Sheave
WLL	400kg		WLL	600kg	



Designed to be used with an M12 Shackle.





Heavy Duty Universal Plate Assembly

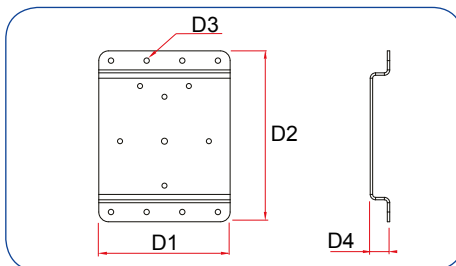
T42979	fits Single Pulley	WLL 600kg
T42980	fits Double Pulley	WLL 600kg
T42981	fits Triple Pulley	WLL 600kg
T42982	fits Quad Pulley	WLL 600kg
T42983	fits Quin Pulley	WLL 600kg

Universal mounting plates enable pulleys to be mounted to tubes with a pair of "U" bolts. These plates are supplied with a pair of multifix brackets and "U" bolts.



Wall Mounting Plates

	Pulley Size	WLL	D1	D2	D3	D4
T42997	100mm	200kg	219mm	300mm	11mm	40mm
T42998	150mm	400kg	269mm	350mm	11mm	40mm
T42999	200mm	600kg	319mm	400mm	11mm	40mm



Wall plates are available in three sizes, 100mm, 150mm and 200mm. These plates convert an existing pulley into a wall mounted pulley.

Clews & Cleats

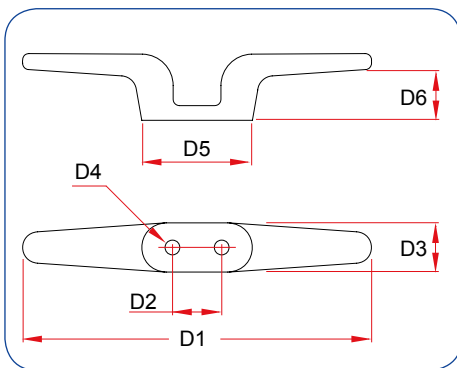
A range of Clews fitted with swivel shackles. Suitable for use with our standard and heavy duty range of pulleys to combine the multiple hanging lines from a flown bar into a single winch line when using drum winches – suitable for wire rope up to 6mm.



Swivel Clews

T41000	3-Way	WLL 250kg
T41100	4-Way	WLL 250kg
T41200	5-Way	WLL 250kg
T41300	3-Way	WLL 500kg
T41400	4-Way	WLL 500kg
T41500	5-Way	WLL 500kg
T41600	3-Way	WLL 1000kg
T41700	4-Way	WLL 1000kg
T41800	5-Way	WLL 1000kg

Supplied with a Swivel Shackle and Thimbles



Flyrail Cleats

	WLL	D1	D2	D3	D4	D5	D6
T41900	200kg	440mm	60mm	47mm	12mm	135mm	70mm
T41902	200kg	375mm	48mm	40mm	12mm	115mm	40mm
T41904	200kg	285mm	35mm	40mm	12mm	90mm	40mm

Rope & Wire

Pre-stretched black nylon cord. Suitable for use in Six Track systems, pulleys and general lashing. A matt finish improves grip and holds knots well.



Rope		
Pt No	Diameter	Breaking Load
T63780 (200m reel)	Ø8mm	2000kg

Galvanised and black wire rope for use in flying and static suspension systems. Construction is 7 x 7 for 1.5, 2, 3 & 4mm and 7 x 19 for 5, 6, 7 & 8mm. These are suitable for use with our range of gate eyes, barrel strainers, cable grips and thimbles.

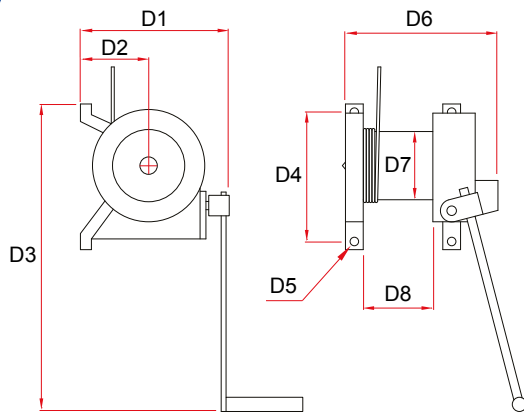
Available as 100 metre drums.



Wire Rope - 100m Reels

Galvanised (silver)			
Pt No	Diameter	kg/100m	WLL
T40500	Ø2mm	1.52kg	60kg
T40000	Ø3mm	3.34kg	100kg
T40100	Ø4mm	5.96kg	175kg
T40200	Ø5mm	9.29kg	275kg
T40300	Ø6mm	13.4kg	400kg
T40400	Ø7mm	18.2kg	525kg
T40600	Ø8mm	21.5kg	650kg

Galvanised (black)			
Pt No	Diameter	kg/100m	WLL
T405001	Ø2mm	1.52kg	60kg
T400001	Ø3mm	3.34kg	100kg
T401001	Ø4mm	5.96kg	175kg
T402001	Ø5mm	9.29kg	275kg
T403001	Ø6mm	13.4kg	400kg
T404001	Ø7mm	18.2kg	525kg
T406001	Ø8mm	21.5kg	650kg



Worm Gear Winches

	T41850	T41860	T41870
WLL (First Layer)	250kg	500kg	750kg
WLL (Last Layer)	210kg	425kg	624kg
Layers	2	3	4
Wire Rope diameter	Ø5mm	Ø6mm	Ø8mm
Rope Capacity (First Layer)	4.8m	7.9m	9.2m
Rope Capacity Total	11.3m	29.1m	49m
Ratio:	16:1	16:1	25:1
Lift per Turn	20mm	26mm	20mm
Required Effort	9.2kg	14.5kg	16kg
Duty Class to DIN 15020	1Bm	1Bm	1Bm
kg	12.5kg	21kg	42kg

Dimensions

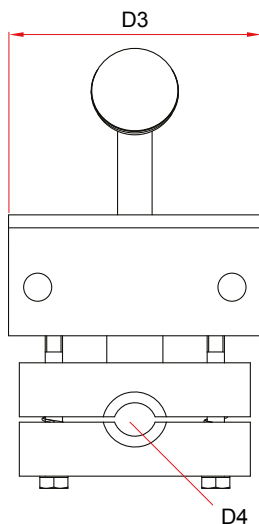
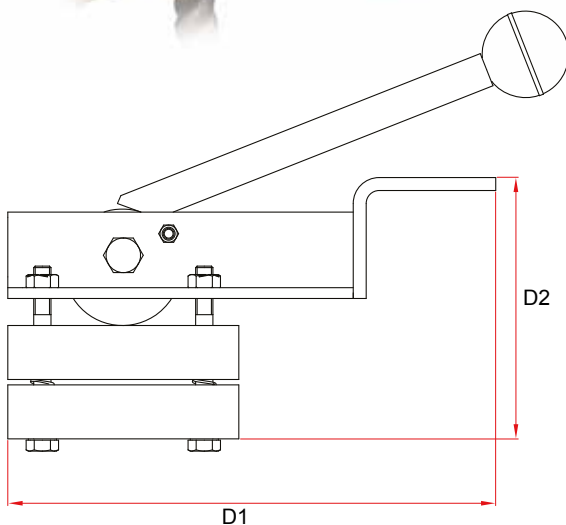
	T41850	T41860	T41870
D1	205mm	241mm	335mm
D2	137mm	190mm	243mm
D3	500mm	690mm	770mm
D4	205mm	250mm	330mm
D5	12mm	14mm	20mm
D6	219mm	282mm	350mm
D7	96mm	125mm	150mm
D8	94mm	138mm	182mm

Lever Rope Brake

A heavy duty rope brake, made from steel with machined aluminium friction plates shaped to protect the rope and with a sprung loaded handle to ensure free running of counter weight flying lines. The friction plates are adjustable to allow for differences in rope diameter.

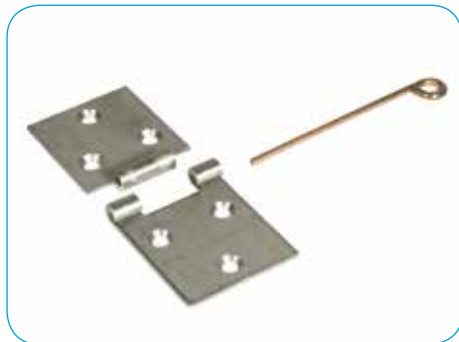


T67300	
D1	226mm
D2	121mm
D3	117mm
D4	To suit Ø22mm rope
kg	4kg



Scenery Fixings

The Doughty range of Scenery Fixings is a large selection of hinges and brackets for the construction of stage scenery and back drops.



Loose Pin Hinges

T61700	1.5" (38mm)
T61800	1.75" (44mm)
T61900	2" (50mm)
T62100	Loose pins (pack of 100)

Loose Pin Hinges are not supplied with pins, which should be ordered separately.



Lift Off Hinges

T62500	Left hand 3" (75mm)
T62501	Right hand 3" (75mm)



Backflap Hinges

T62700	1.5" (38mm)
T62800	1.75" (44mm)
T62900	2" (50mm)
T63000	3" (75mm)

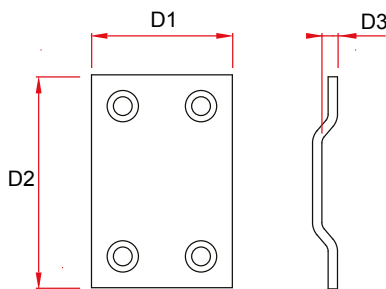


Butt Hinges

T63400	2" (50mm)
T63500	2.5" (63.5mm)
T63600	3" (75mm)
T63700	4" (100mm)

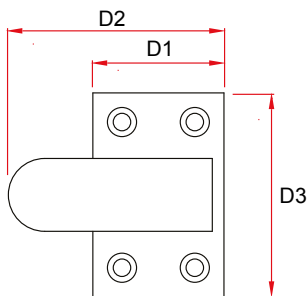


Ø6mm Fixing Holes



Pelmet Socket

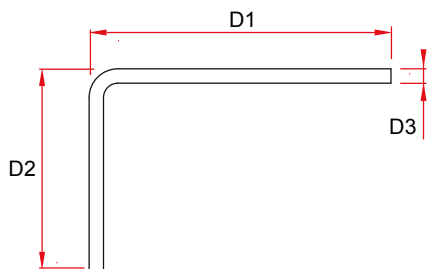
	WLL	D1	D2	D3	kg
T66300	N/A	45mm	68mm	5mm	0.05kg



Ø6mm Fixing Holes

Pelmet Clip

	WLL	D1	D2	D3	kg
T66200	N/A	45mm	74mm	70mm	0.05kg



Ø6mm Fixing Holes

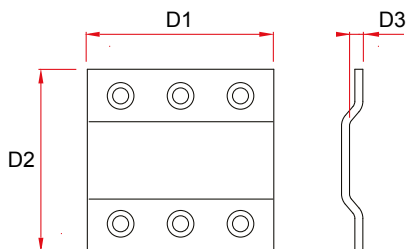
Pelmet 90° Bracket

	WLL	D1	D2	D3	kg
T66100	N/A	63mm	42mm	3mm	0.18kg

Pelmet clips and sockets provide a quick means of mounting pictures and various other props to scenery.

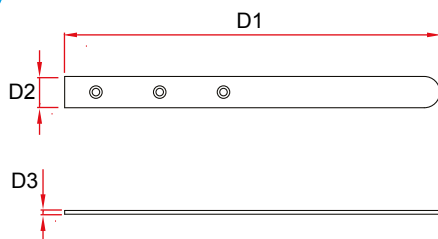


Ø6mm Fixing Holes



Extended Socket

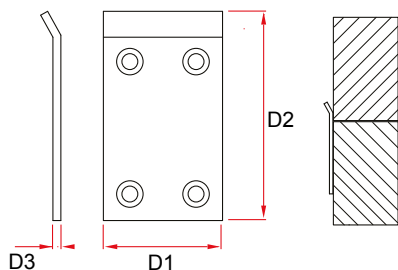
	WLL	D1	D2	D3	kg
T66500	N/A	70mm	68mm	5mm	0.18kg



Ø6mm Fixing Holes

Extended Plug

	WLL	D1	D2	D3	kg
T66400	N/A	300mm	25mm	3mm	0.22kg

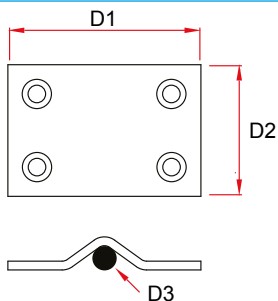


Ø6mm Fixing Holes

Stop Plate

	WLL	D1	D2	D3	kg
T65000	N/A	45mm	80mm	3mm	0.09kg

Extension fittings are used to join two scenery panels edge to edge.



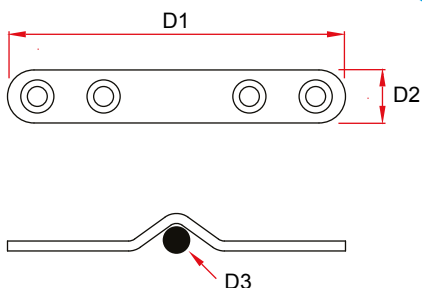
Ø6mm Fixing Holes

Grummet End Fixing

	WLL	D1	D2	D3	kg
T65400	N/A	66mm	45mm	8mm	0.07kg

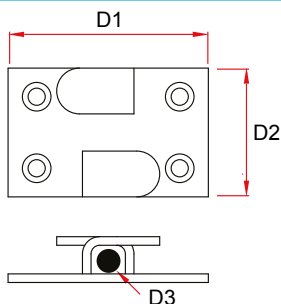


Ø6mm Fixing Holes



Grummet Standard

	WLL	D1	D2	D3	kg
T65300	N/A	100mm	16mm	>8mm	0.04kg

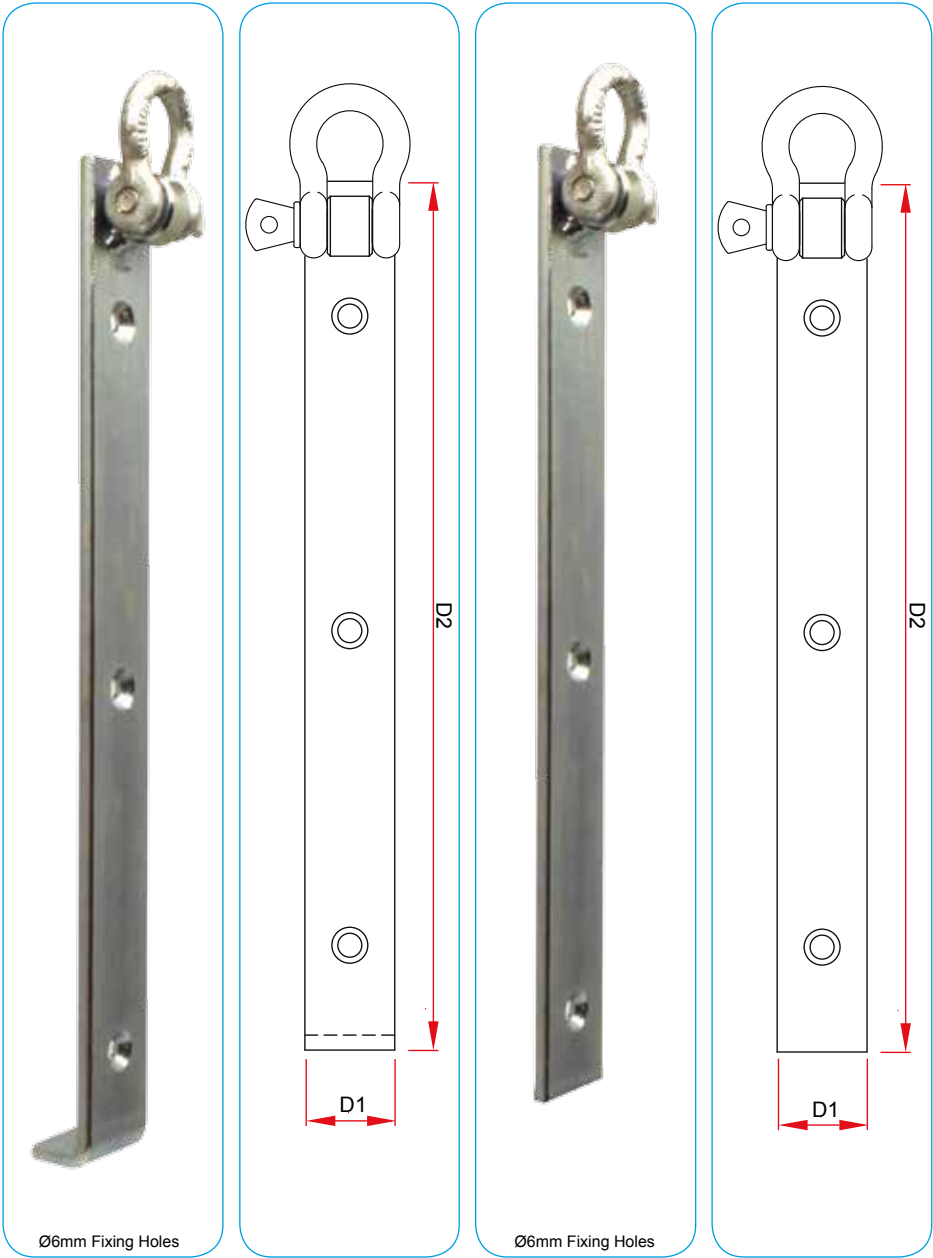


Ø6mm Fixing Holes

Grummet Quick Release

	WLL	D1	D2	D3	kg
T65500	N/A	70mm	45mm	8mm	0.10kg

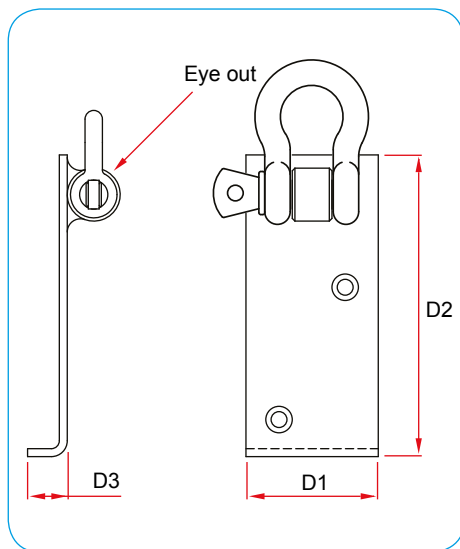
Grummetts are generally used to guide flying wires and lines behind scenery panels.



Long Flying Iron Lipped		
	D1	D2
T64200	30mm	300mm

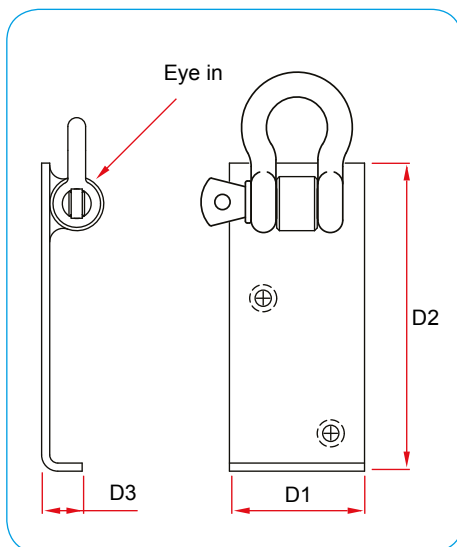
Long Flying Iron Flat		
	D1	D2
T64300	30mm	300mm

Manufactured from mild steel and zinc plated, Flying Irons are used to fly scenery panels. Supplied with an M8 Bow Shackle.



Short Hanging Iron (eye out)

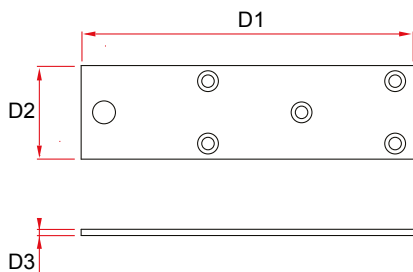
	WLL	D1	D2	D3	kg
T64000	N/A	50mm	115mm	15mm	0.22kg



Short Hanging Iron (eye in)

	WLL	D1	D2	D3	kg
T64100	N/A	50mm	115mm	15mm	0.22kg

Manufactured from mild steel and zinc plated, Hanging Irons are used to fly scenery panels. Supplied with an M8 Bow Shackle.



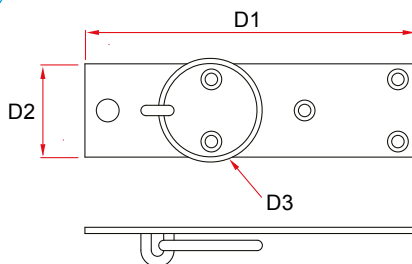
Ø6mm Fixing Holes

Ceiling Plate

	WLL	D1	D2	D3	kg
T65600	N/A	160 mm	45 mm	3 mm	0.04kg

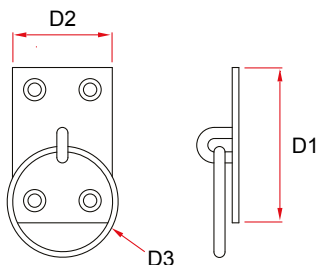


Ø6mm Fixing Holes



Ceiling Plate with Ring

	WLL	D1	D2	D3	kg
T65700	N/A	160mm	45mm	Ø45mm	0.04kg



Ø6mm Fixing Holes

Ring Plate

	WLL	D1	D2	D3	kg
T64900	N/A	70mm	45mm	Ø45mm	0.01kg



Ø6mm Fixing Holes

Stud Plate

T64600

M10 x 50 Stud



Ø6mm Fixing Holes

Peg Plate

T64700

M10 x 50 Stud



Ø6mm Fixing Holes

Boss Plate

T64800

M10 Threaded Boss



Top Batten Clip

T67000

Fits up to 4" x 2" battens



Coach Eye

T59000

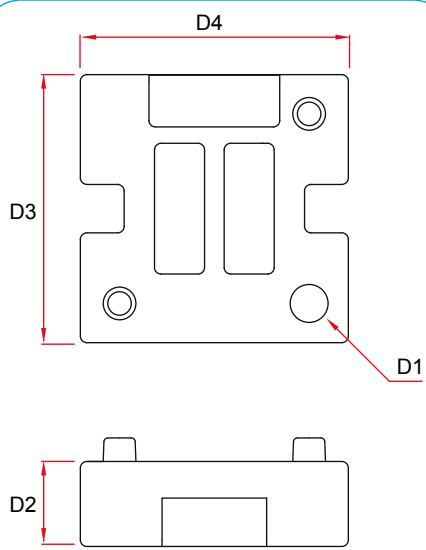


Stage Screw

T60900

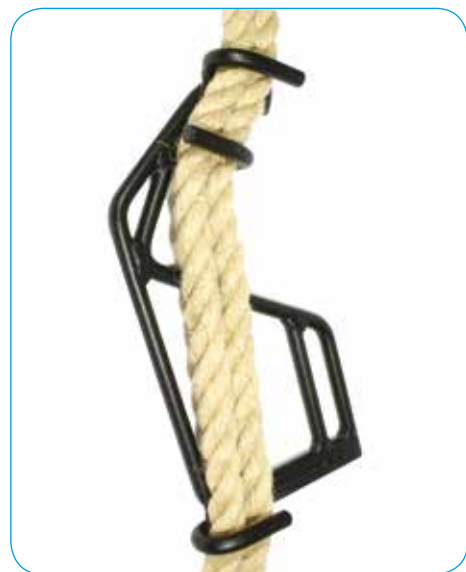
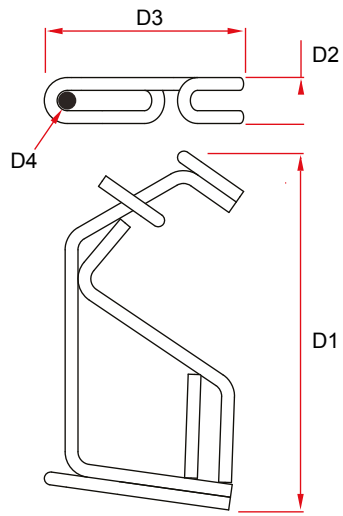


Doughty Knob to
suit sold separately
Order Pt No. S0141



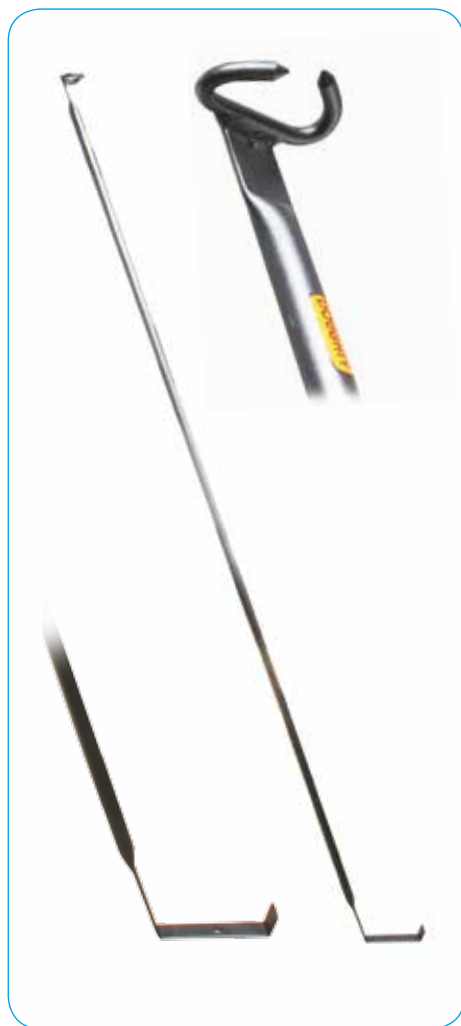
Brace Weight

	D1	D2	D3	D4	kg
T61100	29mm	65mm	205mm	205mm	12.5kg



Rope Brake

	D1	D2	D3	D4	kg
T67200	336mm	43mm	187mm	Ø19mm	12.5kg



Fixed Stage Brace

T60600	2.0m	1.77kg
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An inexpensive lightweight all steel scenery brace.



Extending Stage Brace

T60000	1 - 2m	2.00kg
T60100	1.5 - 3m	2.86kg
T60200	2 - 4m	3.73kg

Lightweight extending steel braces with a powder painted outer finish and a zinc plated inner.

Swivel Arms

A range of 360° swivel arm fittings to position leg/wing curtains or light scenery at any angle, traditionally used to aid masking of wing space on stage from audience sight lines.



Swivel Arm Ceiling Mounted

T84500 Fixes directly to a solid surface

T84501 Supplied with Ø25mm x 2m tube



Swivel Arm Barrel Mounted

T84505 Supplied with 48mm "U" bolts

T84506 Supplied with Ø25mm x 2m tube



Swivel Arm Girder Mounted

T84510 to fit Girders 4" - 6"

T84511 Supplied with Ø25mm x 2m tube

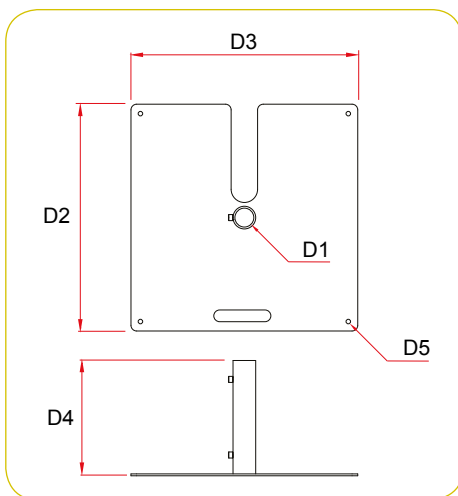


Studio Rail Swivel Arm

T84515 Supplied with 6 wheel carriage

T84516 Supplied with Ø25mm x 2m tube

Floor & Wall Plates



Tank Trap (fixed base)

	D1	D2	D3	D4	D5	kg
T54250	48mm	600mm	600mm	305mm	12mm	16.14kg

To suit 48mm aluminium barrel or galvanised scaffold poles. Supplied with cut out for compact storage/stacking.



Tank Trap (two wheels)

T54255

Dimensions are as per the Tank Trap (T54250)

Fitted with two wheels this tank trap can be easily manoeuvred by tilting back and wheeling into position.

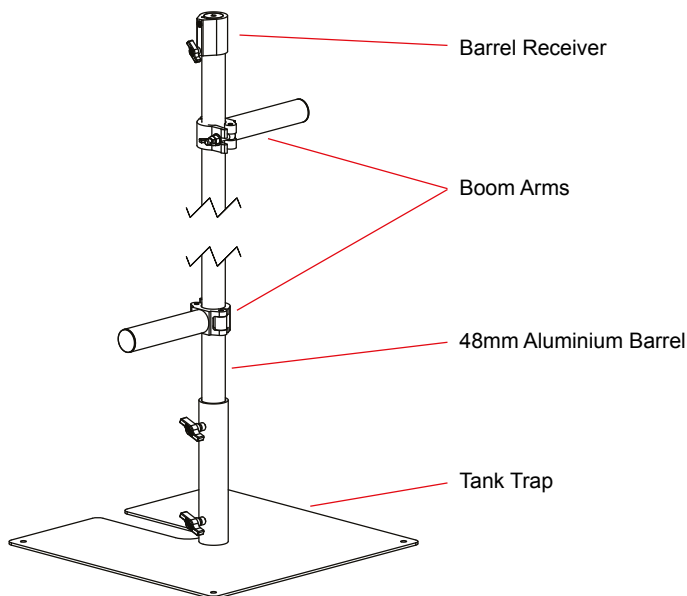


Tank Trap (four castors)

T54260

Dimensions are as per the Tank Trap (T54250)

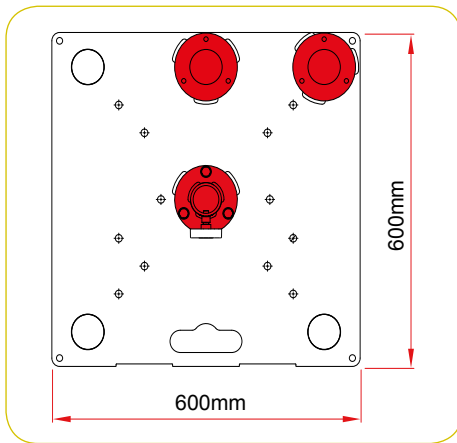
Supplied without stacking slot to increase stability when on castors. Four braked castors fitted.



3 Position Tank Traps

The 3 position Tank Trap is a multipurpose floor plate to suit 48mm barrel and truss.

Fitted with a removable receiver barrel may be fitted in the centre, at the edge or in the corner of the plate.



3 Position Tank Trap

T54265

3 Position Tank Trap

T54266

Tank Trap Trolley



With the receiver removed the plate may be inverted and used as a base plate to suit various sizes of truss. Does not include truss connectors or fixings to mount truss to the plate.

The Tank Trap Trolley is a compact trolley to transport and store ten 3 Position Tank Traps.

Receivers slot in between the Tank Traps, and are captivated by a retaining plate.



Baby Pin Wall Plate

G1405 0.46kg

A 100mm x 100mm plate with 16mm spigot and Ø8mm corner fixing holes.



Baby Receiver Wall Plate

G1128 0.37kg

A 100mm x 100mm plate with a 16mm receiver and Ø8mm corner fixing holes.



Turtle Plate

T54200 2.40kg

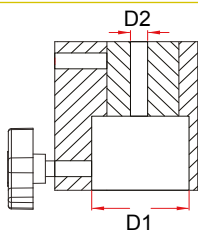
A 230mm x 230mm turtle plate with a 29mm receiver and Ø6mm corner fixing holes.



Junior Wall Plate

G1129 0.85kg

A 120mm x 120mm plate with a 29mm receiver and Ø8mm corner fixing holes.



48mm Receiver

	Size (D1)	Fixing (D2)	kg
T50820	Ø48mm	M10	0.45kg
T50825	Ø48mm	M12	0.45kg
T50830	Ø51mm	M10	0.45kg
T50835	Ø51mm	M12	0.45kg

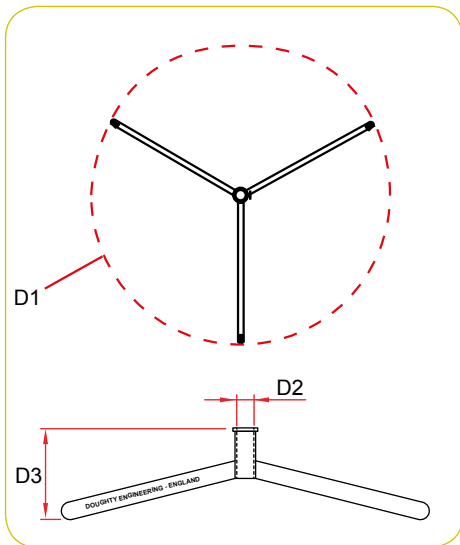


Floor Lighting Plates

T54150

1.28kg

A 250mm x 250mm floor plate to suit a Hook Clamp (T20100).



Nipper Stand

	D1	D2	D3	WLL	kg
T54100	Ø600mm	Ø29mm	165mm	10 kg without extension	1.28kg

A low folding cast aluminium stand with 29mm receiver.



Floor Stand

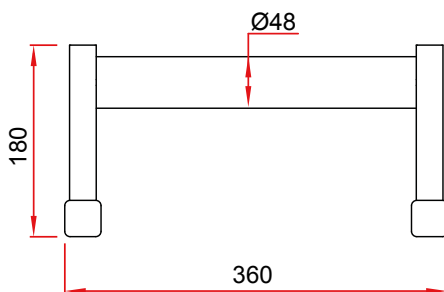
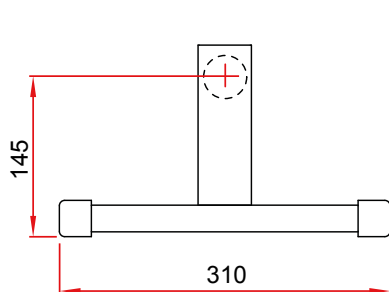
T54155

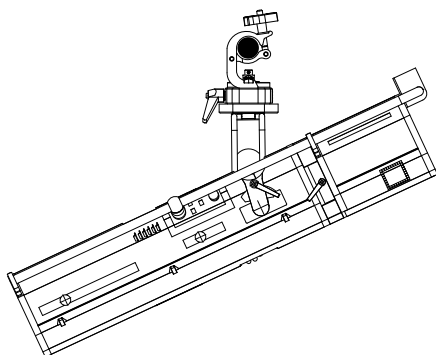
Ø48mm

50kg

4.20kg

A simple floor stand which allows a moving head to be used at floor level without removing any clamps/couplers attached.

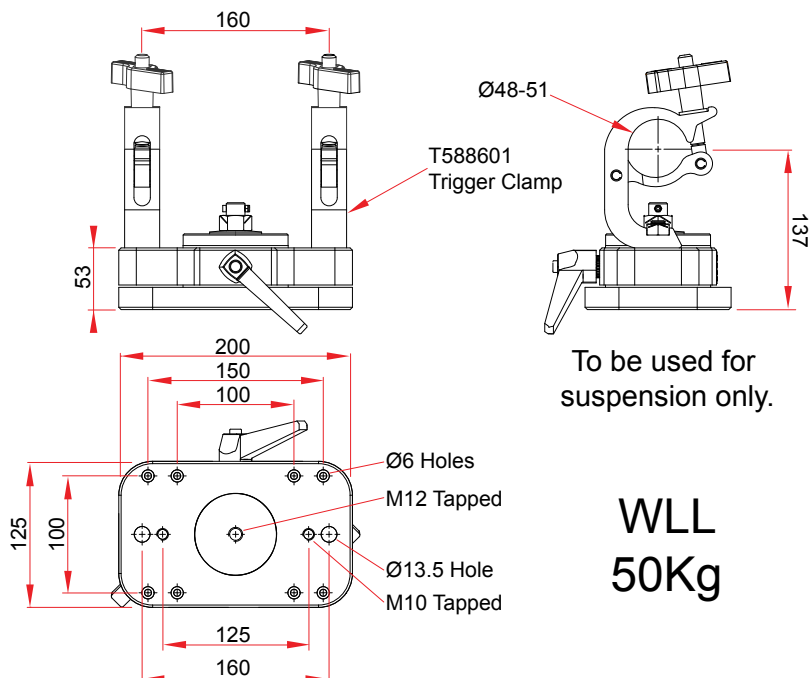




Followspot Rail Mount

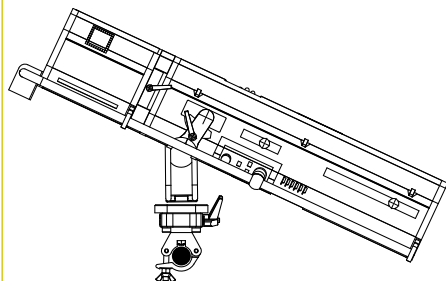
	D1	WLL	kg
T54410	Ø48-51mm	50kg	4.20kg

An assembly designed to allow a followspot to be mounted to a rail. This assembly enables full 360° of smooth rotation.



To be used for suspension only.

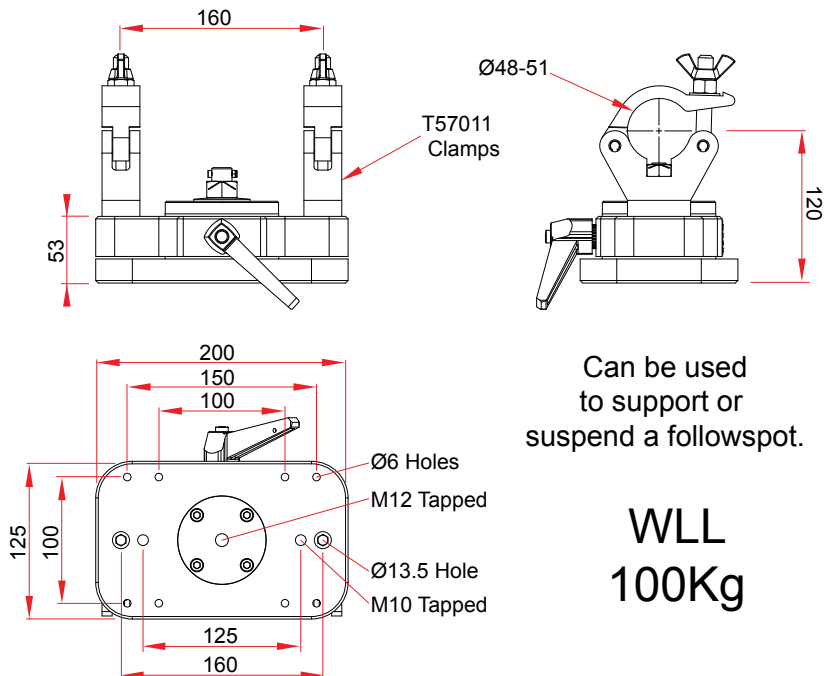
WLL
50Kg



Followspot Rail Mount

	D1	WLL	kg
T54420	Ø48-51mm	100kg	4.20kg

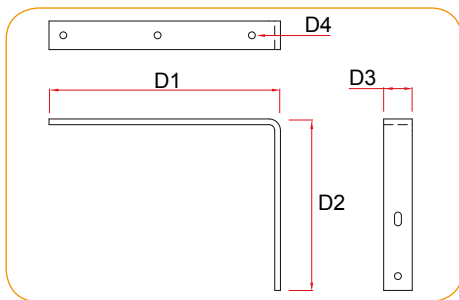
An assembly designed to allow a followspot to be mounted to a rail. This assembly enables full 360° of smooth rotation.



Wall Brackets

The Wall Bracket range is a comprehensive range of steel bracketry designed primarily to be wall mounted, allowing fixtures and tubes to be suspended from a vertical surface.

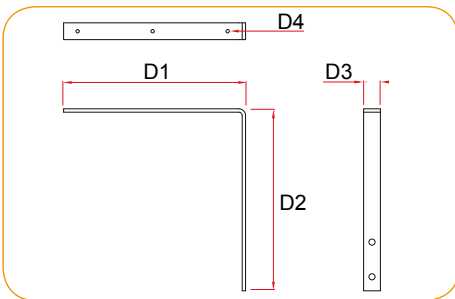




Wall Bracket (Heavy Duty)

	WLL	D1	D2	D3	D4	kg
T33900	20kg	405mm	300mm	50mm	Ø12mm	2.60kg

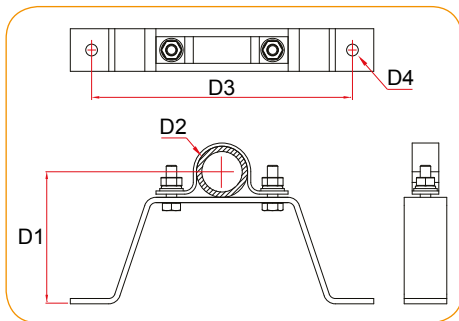
Accepts T30800 Saddle Clamp.



Wall Bracket (Light Duty)

	WLL	D1	D2	D3	D4	kg
T33800	3kg	325mm	325mm	30mm	Ø6mm	0.85kg

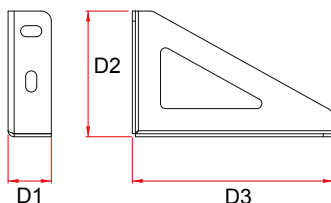
Accepts T56600 48mm "U" bolt.



Pipe to Wall Brackets

	WLL	D1	D2	D3	D4	kg
T33300	30kg	325mm	Ø48mm	350mm	Ø11mm	1.48kg
T33310	60kg	125mm	Ø48mm	245mm	Ø11mm	0.83kg

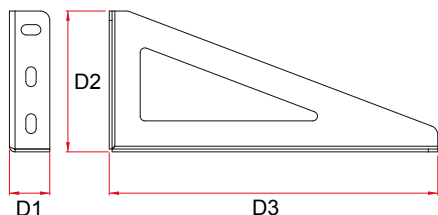
The Slotted Wall Bracket range has been designed to be compatible with the slots featured in unistrut channels.



Slotted to suit M10 Fixings

Studio Rail Slotted Wall Bracket 200mm (single rail)

	WLL	D1	D2	D3	kg
T84105	25kg	43mm	125mm	200mm	0.52kg

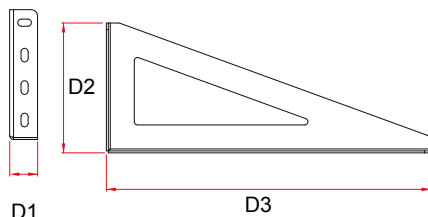


Slotted to suit M10 Fixings



Studio Rail Slotted Wall Bracket 350mm (double rail)

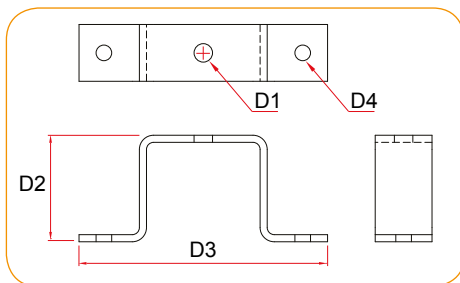
	WLL	D1	D2	D3	kg
T84106	25kg	43mm	150mm	350mm	0.90kg



Slotted to suit M10 Fixings

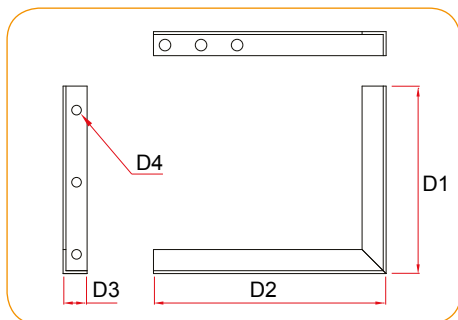
Studio Rail Slotted Wall Bracket 500mm (triple rail)

	WLL	D1	D2	D3	kg
T84107	25kg	43mm	200mm	500mm	1.50kg



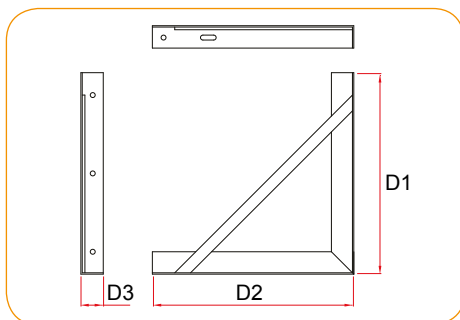
Ceiling Saddle

	WLL	D1	D2	D3	D4	kg
T33700 - Silver	160kg	13mm	75mm	175mm	Ø11mm	0.44kg
T3370001 - Black	160kg	13mm	75mm	175mm	Ø11mm	0.44kg



Face Fixing Bracket

	WLL	D1	D2	D3	D4	kg
T34100	15kg	195mm	242mm	25mm	Ø10mm	0.43kg



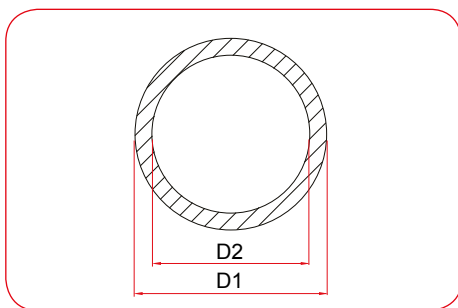
Wall Bracket (angle iron)

	WLL	D1	D2	D3	D4	kg
T34000	30kg	450mm	450mm	50mm	Ø11mm	2.72kg

Accepts T30800 Saddle Clamp.

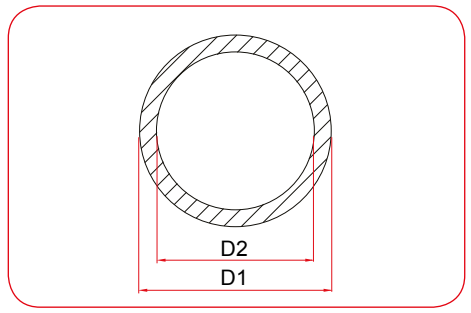
Pipes & Tubes

A selection of aluminium and galvanised tubes supplied in full or cut lengths. Specified lengths are available on request.



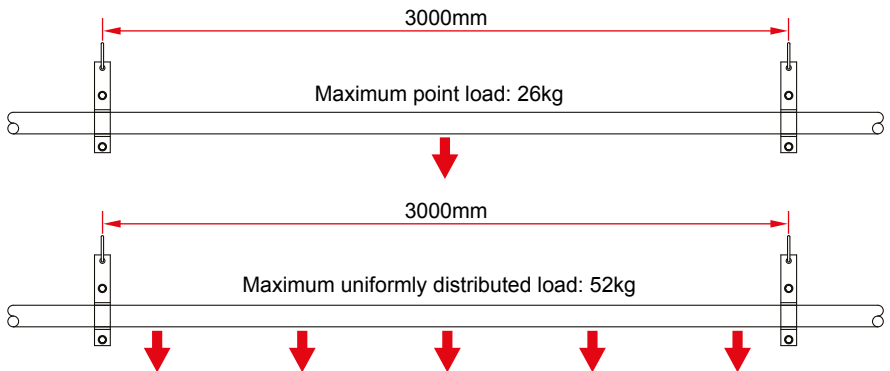
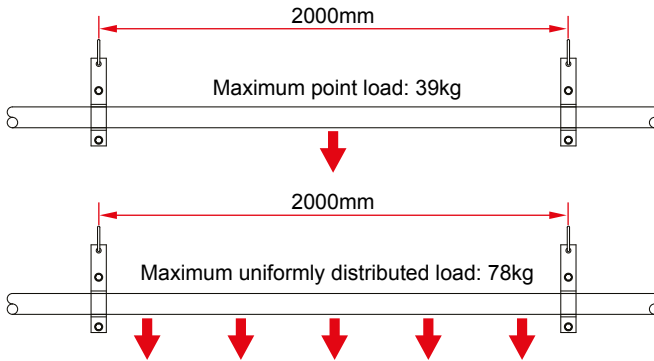
Aluminium Barrel

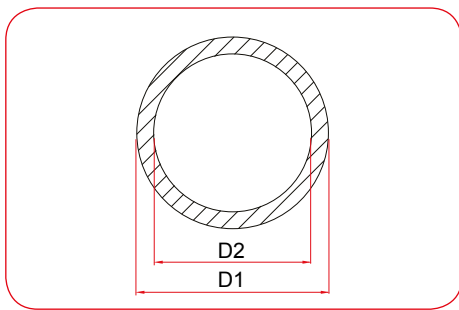
	Length	D1	D2	kg
T24000	6m	48.3mm	39.8mm	9.76kg
T24004	4m	48.3mm	39.8mm	7.00kg
T24003	3m	48.3mm	39.8mm	4.8kg
T24002	2m	48.3mm	39.8mm	3.2kg
T24001	1m	48.3mm	39.8mm	1.6kg
T24050	2 x 3m with Joiner			



Aluminium Barrel (black anodised)

	Length	D1	D2	kg
T2400001	6m	48.3mm	39.8mm	9.76kg
T2400401	4m	48.3mm	39.8mm	7.00kg
T2400301	3m	48.3mm	39.8mm	4.80kg
T2400201	2m	48.3mm	39.8mm	3.20kg
T2400101	1m	48.3mm	39.8mm	1.60kg
T2405001	2 x 3m with Joiner			

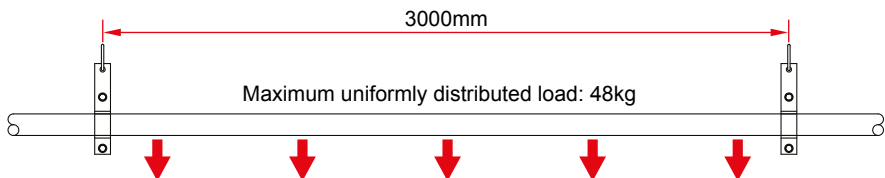
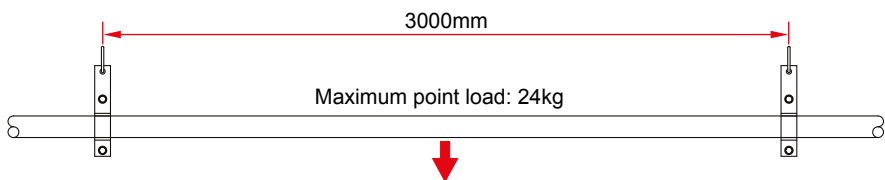
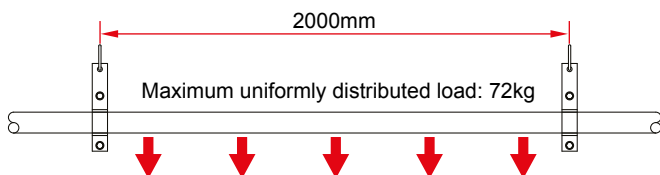
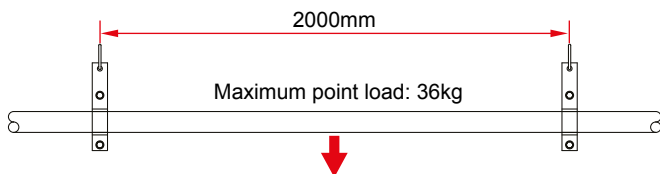




Galvanised Steel Tube

	Length	D1	D2	kg
T24010	6m	48.3mm	40.3mm	26.7kg
T24015	2 x 3m with Joiner			

Other sizes available on request.



Scaffold Clamps

Suitable for 48mm diameter steel or aluminium tube, these clamps are useful for quickly creating grids, frames and towers for lighting or scenery from standard tube.

Supplied with an electroplate finish.

These clamps are **not** recommended for permanent installs.



Scaffold Swivel Coupler (pressed steel)

T24800

Ø48mm

0.90kg



Scaffold Double Coupler (pressed steel)

T24900

Ø48mm

1.02kg



Drop Forged Swivel Coupler

T24801

Ø48mm

1.18kg



Drop Forged Double Coupler

T24901

Ø48mm

1.12kg



Tube Clip Crossover Joint

T25150	Ø48mm	0.37kg
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Scaffold Parallel Coupler

T24905	Ø48mm	0.77kg
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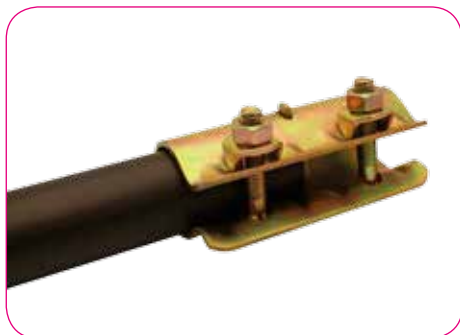
Pipe to Pipe Coupler

T30100	Ø48mm
T30101	Ø38mm



Scaffold Solid Tube Joiner

T25108	200mm Lg	Ø48mm	2.64kg
T2510801 - Black	200mm Lg	Ø48mm	2.64kg



Scaffold Sleeve Coupler

T25000	Ø48mm	1.00kg
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Scaffold Joint Pin

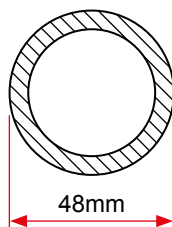
T25100	Ø48mm	0.85kg
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Speedrail®

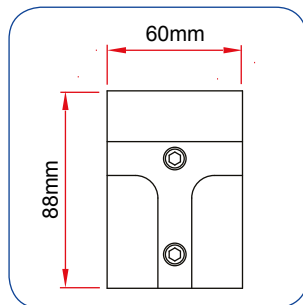
Speedrail is a range of magnesium alloy pipe fittings which are used to create handrails, guards and walkways etc.

Main features:

- High corrosion resistance
- Up to 70% lighter than iron fittings
- 100% salvageable & reusable
- Comparable strength to iron fittings
- All fittings shown here are to suit 48mm tube. Other sizes are available, please contact our technical sales team.



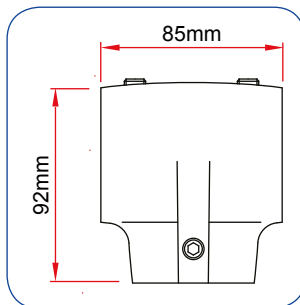
Please note that these are a cast item and as such any dimensions stated may vary slightly from batch to batch, therefore should be used for reference purposes only.



Short Tee (slimline)

T194005E

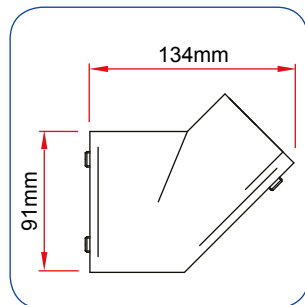
0.18kg



Long Tee

T194005

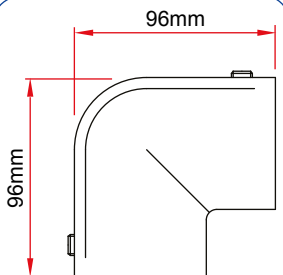
0.29kg



Angle Tee 45°

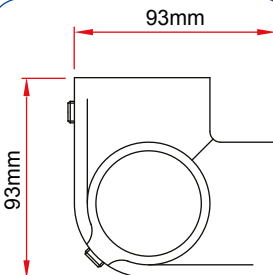
T194006

0.41kg

**90° Elbow**

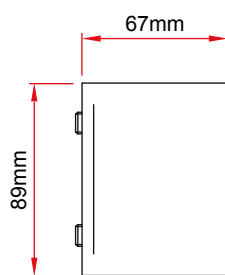
T194003

0.28kg

**3-Way 90° Elbow**

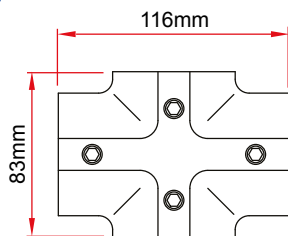
T194009

0.33kg

**Sleeve Joint**

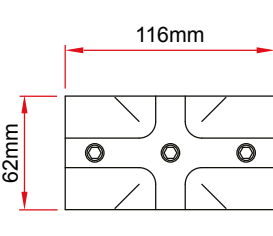
T194070

0.26kg

**Two Socket Cross**

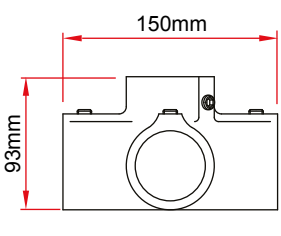
T194007

0.35kg

**Two Socket Cross (slimline)**

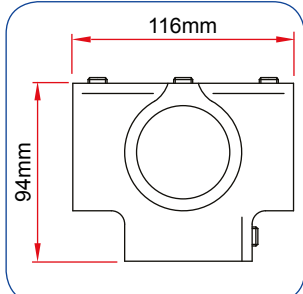
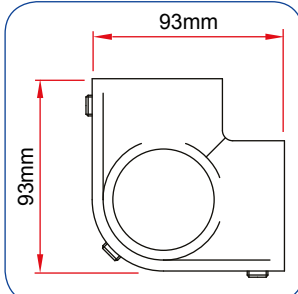
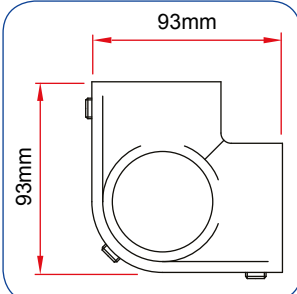
T194007E

0.28kg

**4-Way Cross**

T194106E

0.72kg



Corner (s) with Thru Tube

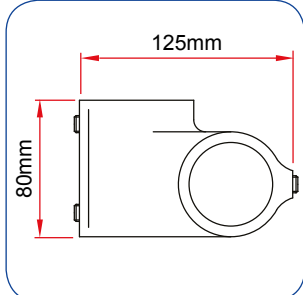
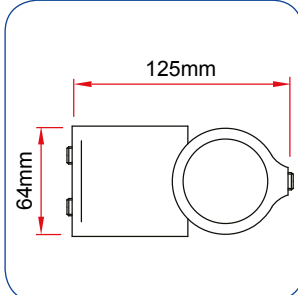
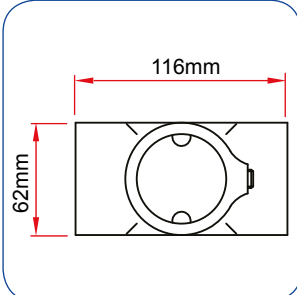
Corner with Thru Tube

Side Outlet Tee

T194011E 0.25kg

T194011 0.32kg

T194013 0.39kg



Side Outlet Tee (slimline)

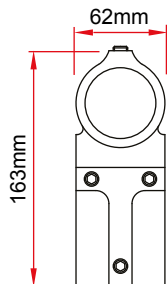
Short 90° Crossover

Long 90° Crossover

T194013E 0.31kg

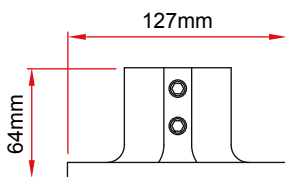
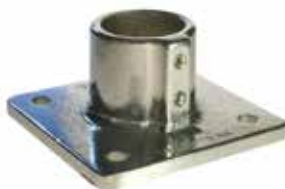
T194012 0.37kg

T194010 0.44kg

**Combination Socket**

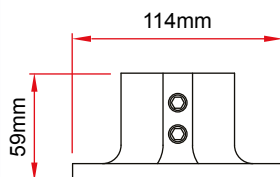
T194104

0.55kg

**Floor Flange**

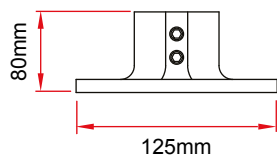
T194045

0.5kg

**Base Flange**

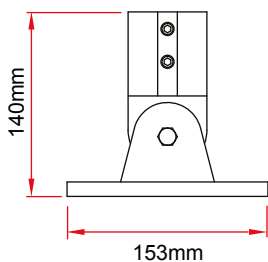
T194042

0.35kg

**Flange**

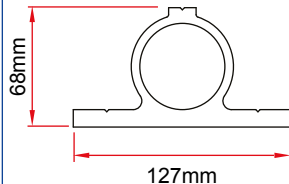
T194046

0.27kg

**Adjustable Flange**

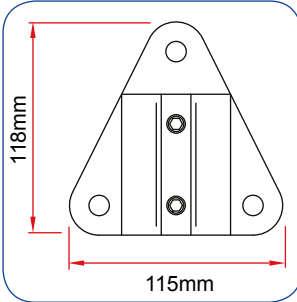
T194046ADJ

0.82kg

**Wall Flange**

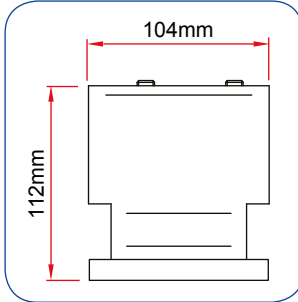
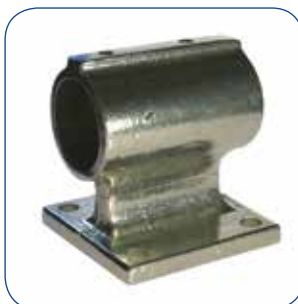
T194595

0.7kg



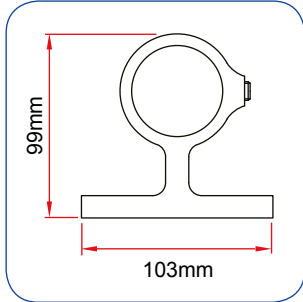
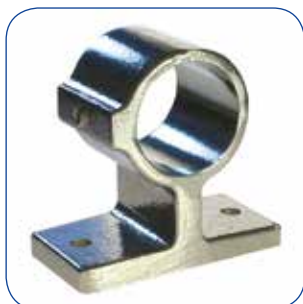
Side Palm Fixing

T194050 0.35kg



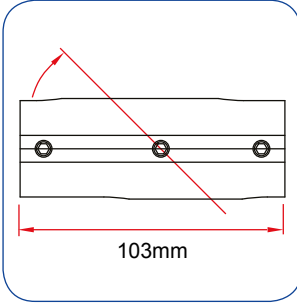
Railing Side Support

T194054/3 0.79kg



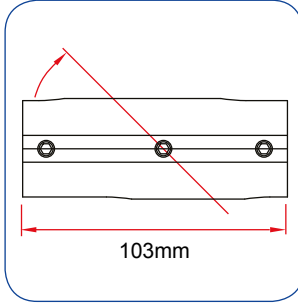
Support Bracket

T194055 0.30kg



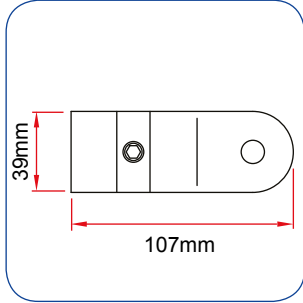
Angled Cross 10° - 35°

T194021-35 0.44kg



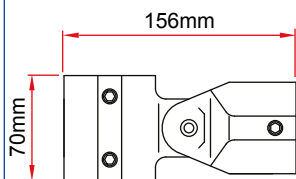
Angled Cross 30° - 45°

T194021-45 0.25kg



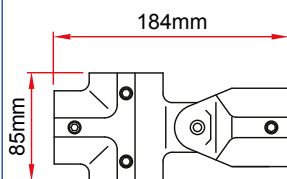
Male Section of Swivel

T194017EM 0.14kg

**Swivel Elbow / Tee Combo**

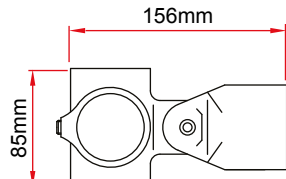
T194017ADJ

0.49kg

**Swivel Tee Combination**

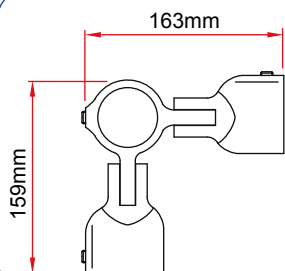
T194023

0.52kg

**Swivel Side Outlet Combo**

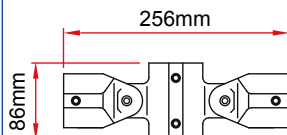
T194025

0.52kg

**Swivel Double-Side Combo**

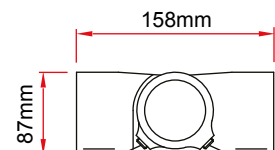
T194027

0.75kg

**Double Swivel Combination**

T194019

0.75kg

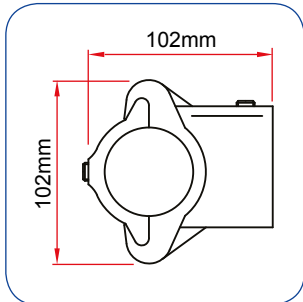
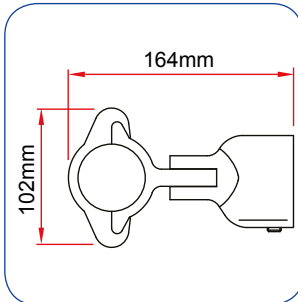
**Short Swivel Tee**

T194030C

0.54kg

Modular Fittings

Designed to fit existing structures.

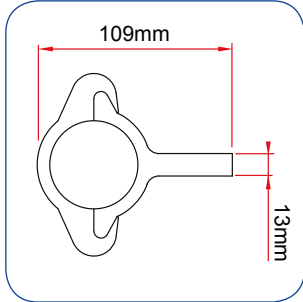
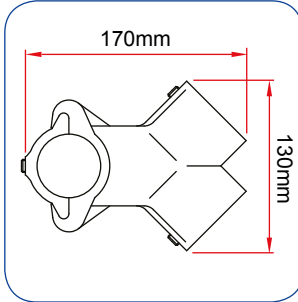
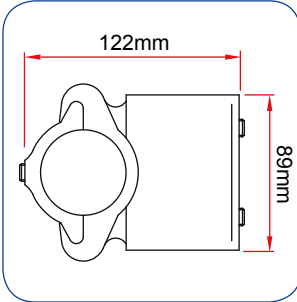
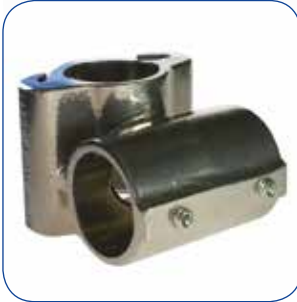


Modular Swivel Elbow / Tee

Modular Tee

T194017S 0.8kg

T194002S 0.53kg



Modular 90° Crossover

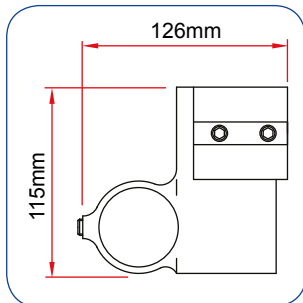
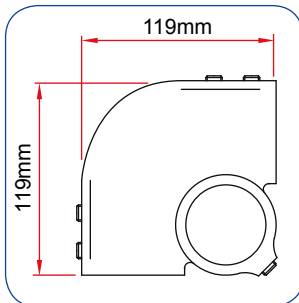
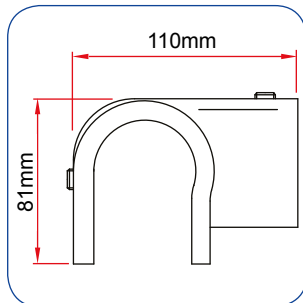
Modular Corner with Thru Tube

Modular Swivel / Tee Male

T194014S 0.64kg

T194022S 0.25kg

T194017SM 0.49kg

**Clamp on Tee**

T194016

0.35kg

Outside Corner

T194020

0.66kg

Rackmaster End Fitting

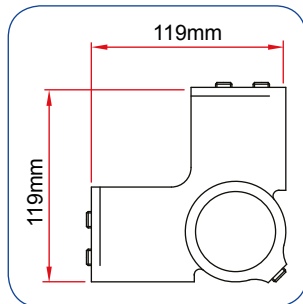
T194100

0.77kg

**Allen Screw**

T194120

Plated

**Rackmaster Centre Fitting**

T194102

0.48kg

Plastic Stop End

T13300

Grey

T13301

Black

3/16" Allen Key

T194122

Pipeclamps

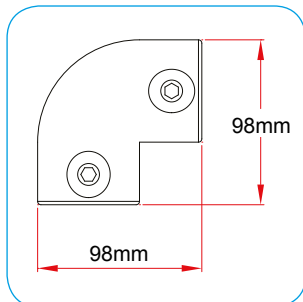
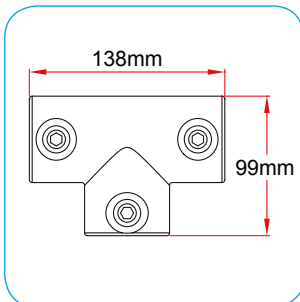
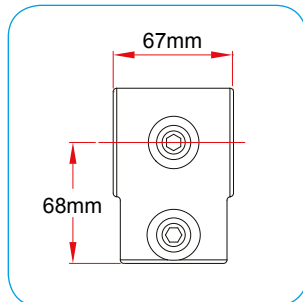
Pipeclamp fittings are malleable iron castings with a galvanised finish to BS729. Pipeclamp standard fittings are available to suit pipes with an external diameter from 33.7mm to 60mm.

Main features:

- High corrosion resistance
- 100% salvageable & reusable
- All fittings shown here are to suit 48mm tube. Other sizes are available, please contact our technical sales team.

Please note that these are a cast item and as such any dimensions stated may vary slightly from batch to batch, therefore should be used for reference purposes only.





Short Tee

T10100

0.53kg

Long Tee

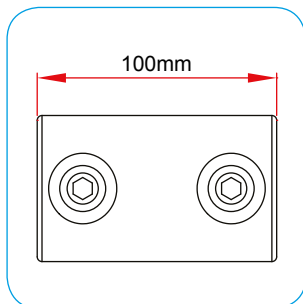
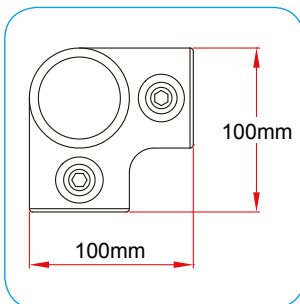
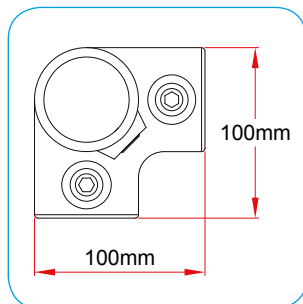
T10400

1.04kg

Elbow 90°

T12500

0.87kg



3-Way Elbow 90°

T12800

1.18kg

Corner with Thru Tube

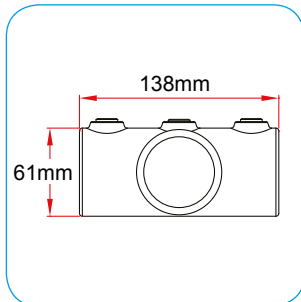
T11600

0.92kg

Sleeve Joint

T14900

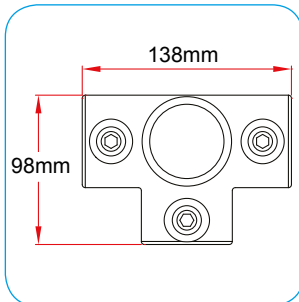
0.72kg



Two Socket Crossover

T11900

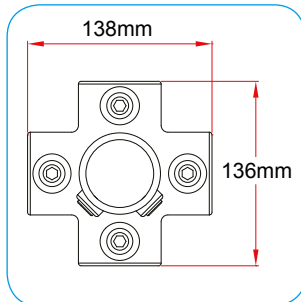
0.80kg



Side Outlet Tee

T17600

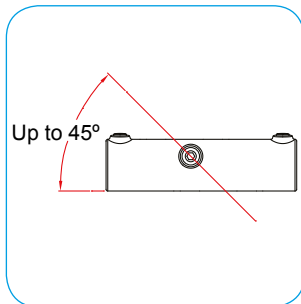
1.22kg



4-Way Cross

T15800

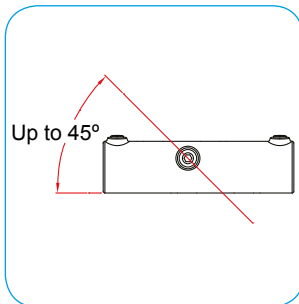
1.58kg



Angle Cross slopes to 45°

T12600

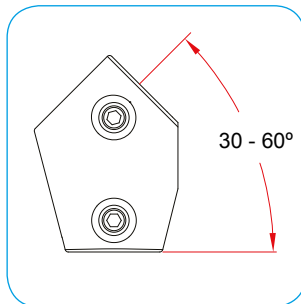
1.62kg



Angle Tee slopes to 45°

T12700

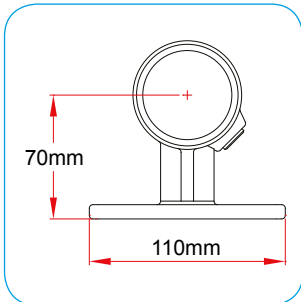
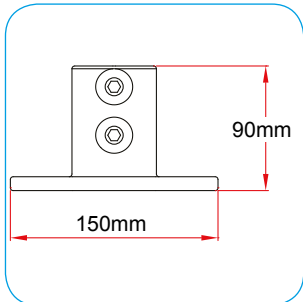
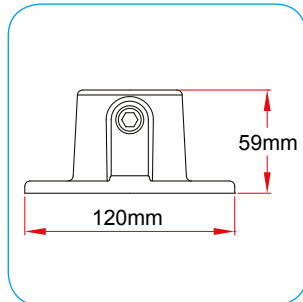
1.21kg



Adj Short Tee 30 - 60°

T12900

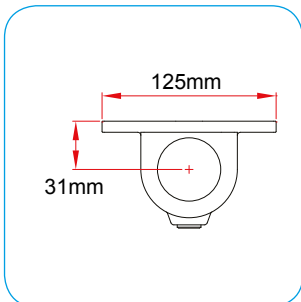
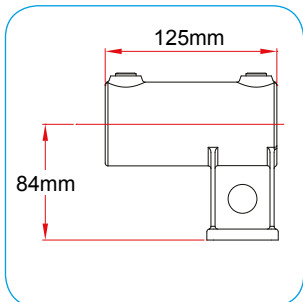
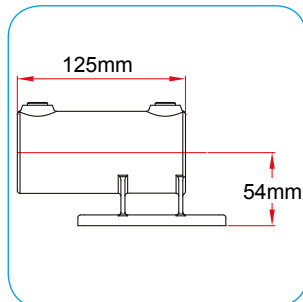
0.97kg



Base Flange
T13100 0.85kg

Railing Base Flange
T13200 1.27kg

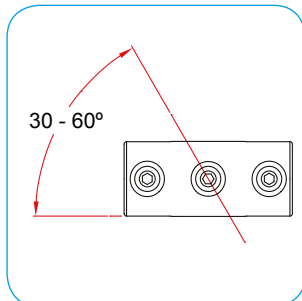
Handrail Bracket
T14300 0.63kg



Railing Side Support (V)
T14400 1.50kg

Railing Side Support (H)
T14500 1.02kg

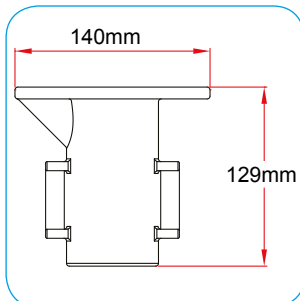
Side Palm Fixing
T14600 1.04kg



Adj Two Socket Cross

T13000

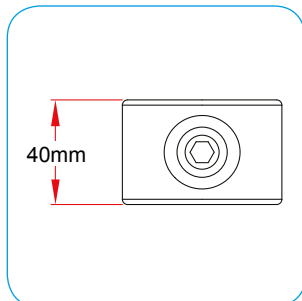
1.56kg



Ground Socket

T13400

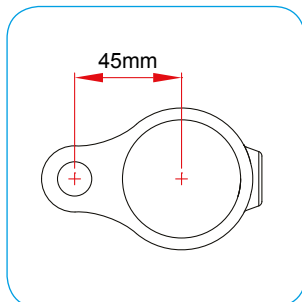
1.95kg



Locking Collar

T17900

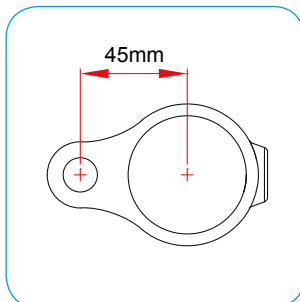
0.20kg



Gate Eye

T13800

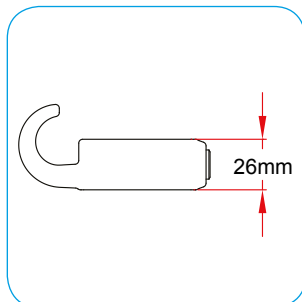
0.26kg



Gate Hinge

T14000

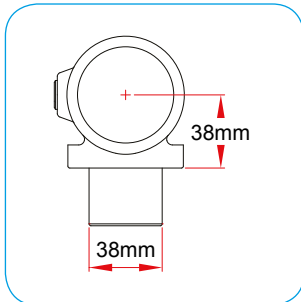
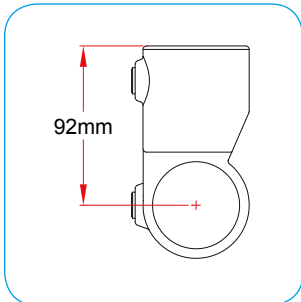
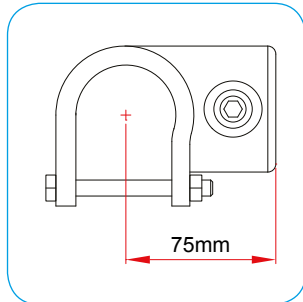
0.30kg



Hook

T18200

0.34kg



Clamp on Tee

Short Tee Swivel

Internal Swivel Tee

T13500

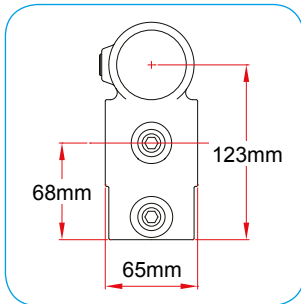
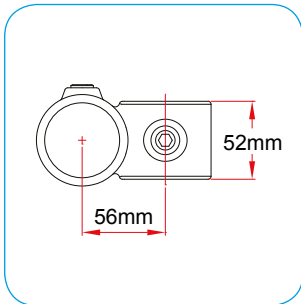
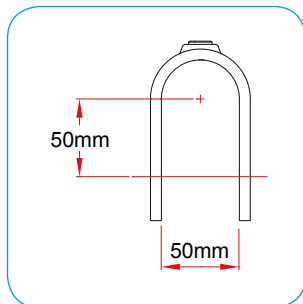
0.57kg

T14800

1.15kg

T14700

0.61kg



Clamp on Crossover

Crossover 90°

Combination Socket Tee

T16000

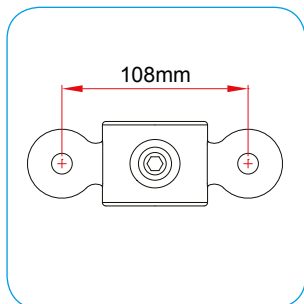
0.62kg

T16100

0.64kg

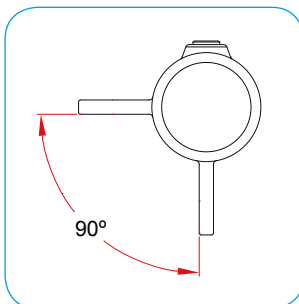
T16500

1.02kg



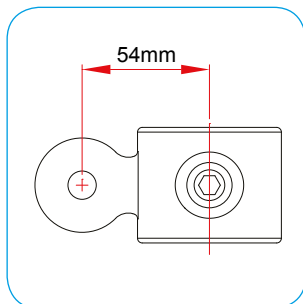
Double Male Section of Swivel

T16700M 0.46kg



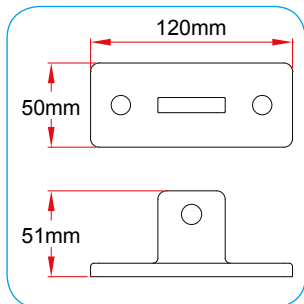
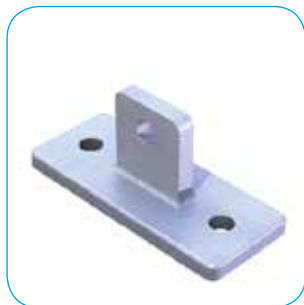
Corner Swivel Combo 90° (male)

T16800M 0.47kg



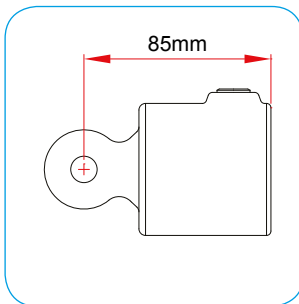
Swivel (male section)

T17300M 0.30kg



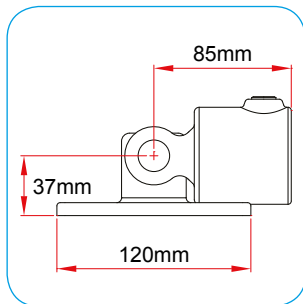
Swivel Base Section (male)

T16900M 0.41kg



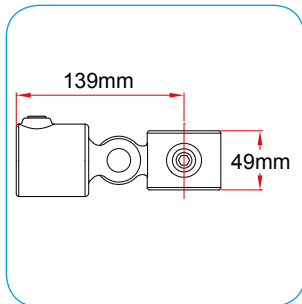
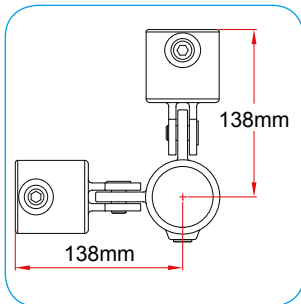
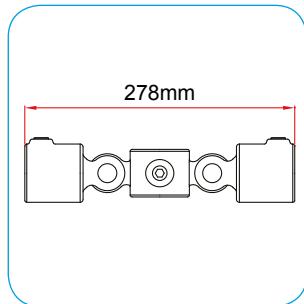
Swivel (female section)

T17300F 0.52kg



Swivel Base

T16900 0.99kg



Double Swivel Combination

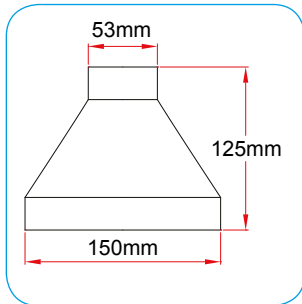
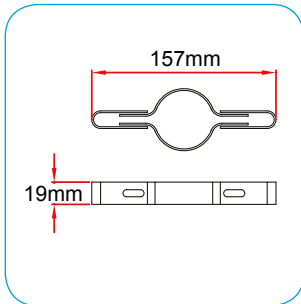
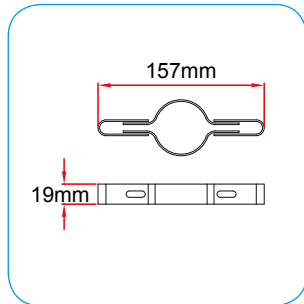
Corner Swivel Combo 90°

Single Swivel Combination

T16700 1.72kg

T16800 1.72kg

T17300 0.98kg



Single Mesh Clip

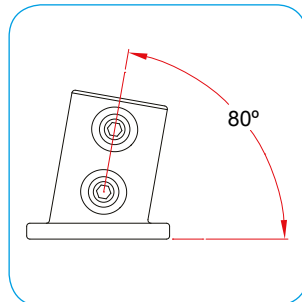
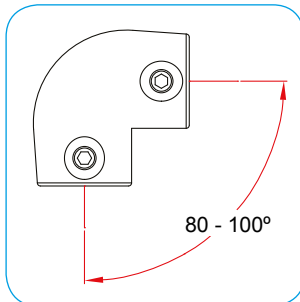
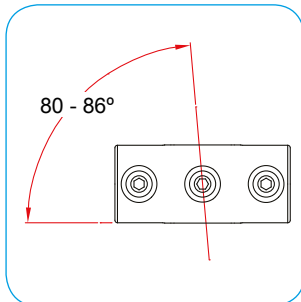
Double Mesh Clip

Base Weather Shield

T17000 0.08kg

T17100 0.15kg

T18250 0.48kg



Angled Two Socket Cross

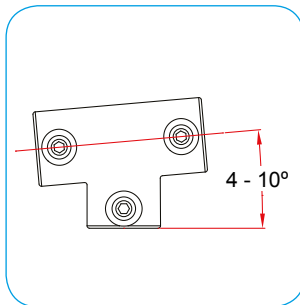
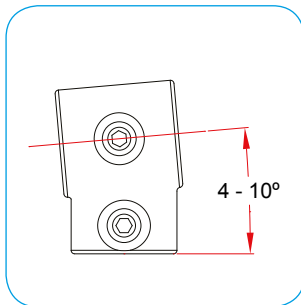
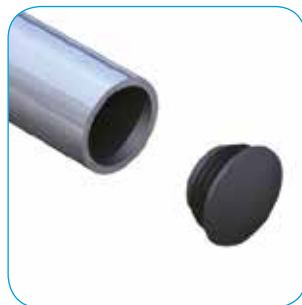
T17625 0.94kg

Angled Elbow

T17629 0.93kg

Angled Base Flange

T17622 1.21kg



Angled Single Socket Tee

T17620 0.72kg

Angled Two Socket Tee

T17621 1.28kg

Plastic Stop End

T13300 Grey

T13301 Black



Allen Screw

T19300



Ratchet Key

T19100

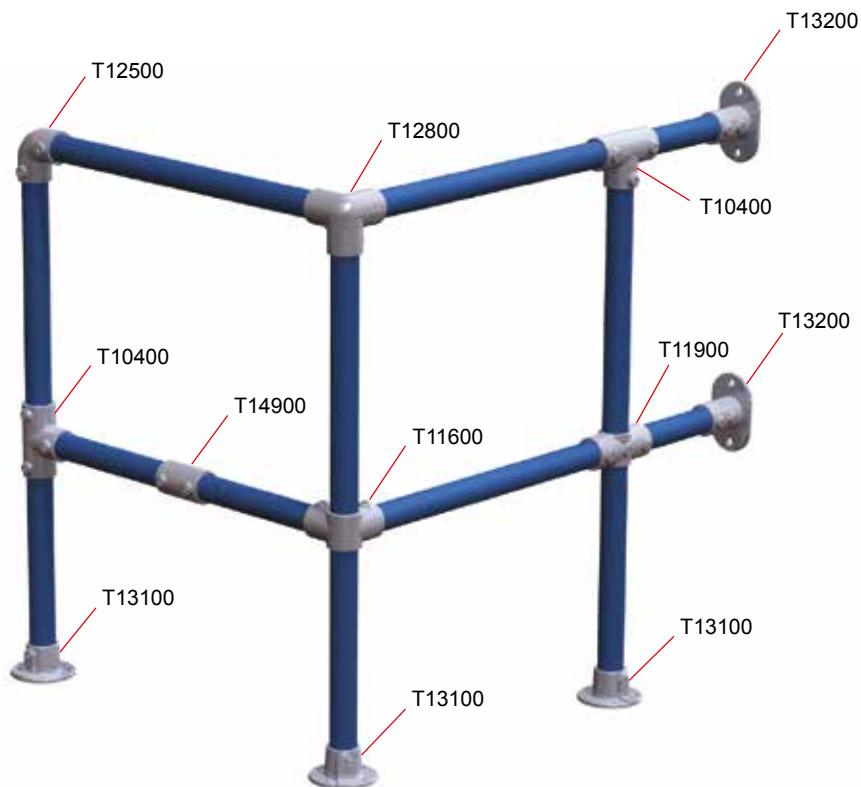
6 & 8mm



8mm Allen Key

T19200

8mm



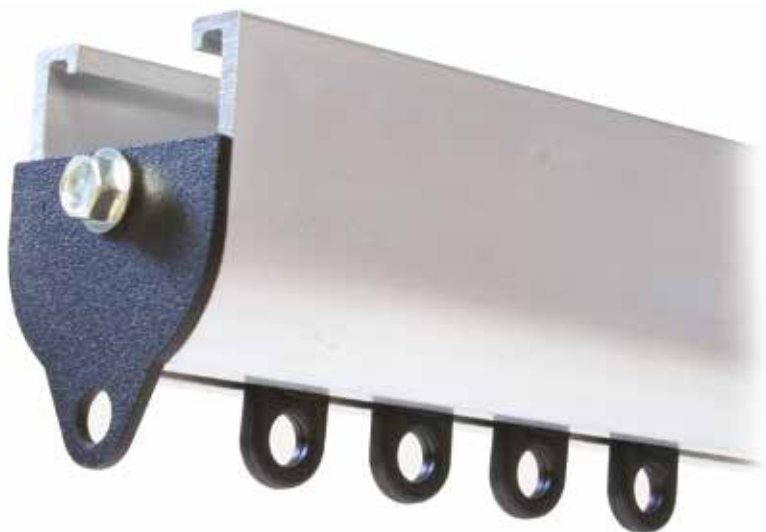
Doughty Rail

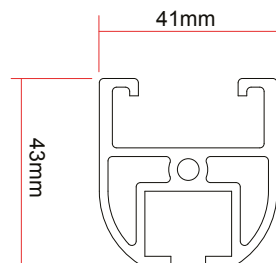
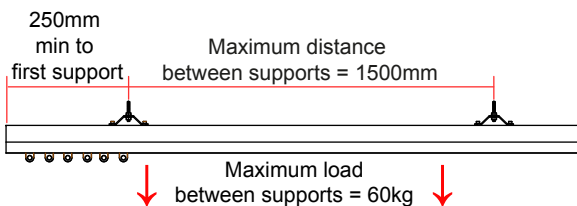
Doughty Rail is an Extruded Aluminium Walk Along Curtain Rail System. The system has been designed to have a low profile with compact ball raced curtain runners. The top suspension channel is dimensioned to work with 'Unistrut' nuts.

Available powder painted black or natural aluminium.

Main features:

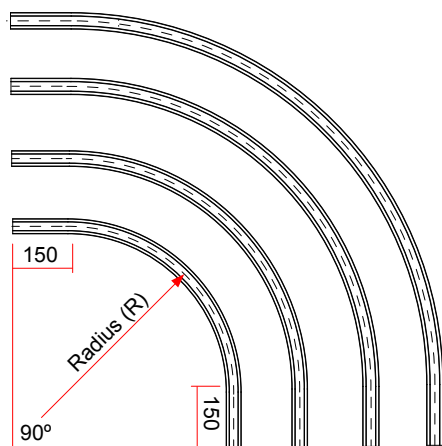
- Low profile extruded aluminium section
- Can be cut to length on-site
- Curves from 450mm radius
- Single swipe or overlap curtains
- Ball raced runners with 6kg WLL
- Walkalong only system
- Finished in black powder coat or natural aluminium





Straight Rails

Silver			Black		
T81000	1m	2.90kg	T81001	1m	2.90kg
T81010	2m	4.30kg	T81011	2m	4.30kg
T81020	3m	5.80kg	T81021	3m	5.80kg

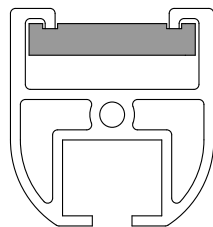
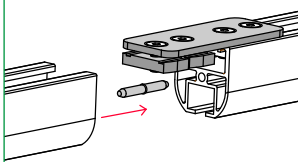
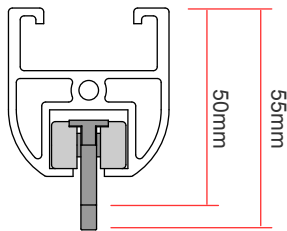


All curves are supplied with a 150mm straight lead in and lead out to aid assembly.

Special curves are available on Request.

Curved Rails 90°

Silver			Black		
T81050	R=45cm	2.15kg	T81051	R=45cm	2.15kg
T81060	R=60cm	2.49kg	T81061	R=60cm	2.49kg
T81070	R=75cm	2.83kg	T81071	R=75cm	2.83kg
T81080	R=90cm	3.18kg	T81081	R=90cm	3.18kg



Channel Nut

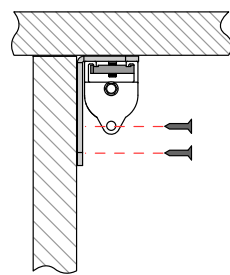
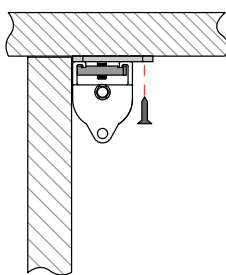
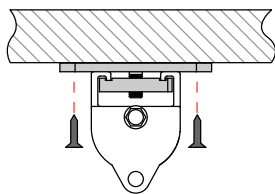
T81190	M6
T81191	M8
T81192	M10

Ball Raced Runner

T81200	0.46kg
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Joint Kit

T81100	0.47kg
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Ceiling Bracket

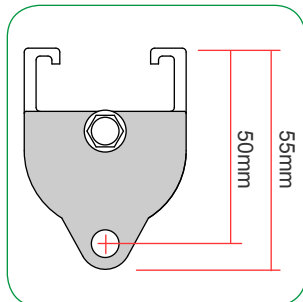
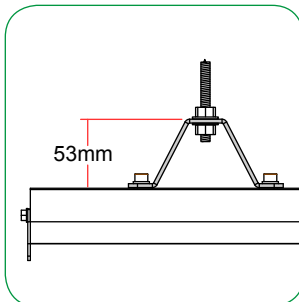
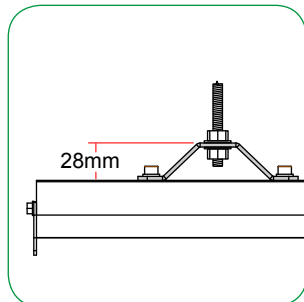
T81110	0.41kg
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Corner Ceiling Bracket

T81120	0.52kg
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Wall Bracket

T81170	0.99kg
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**25mm Top Hat Bracket**

T81140

0.46kg

50mm Top Hat Bracket

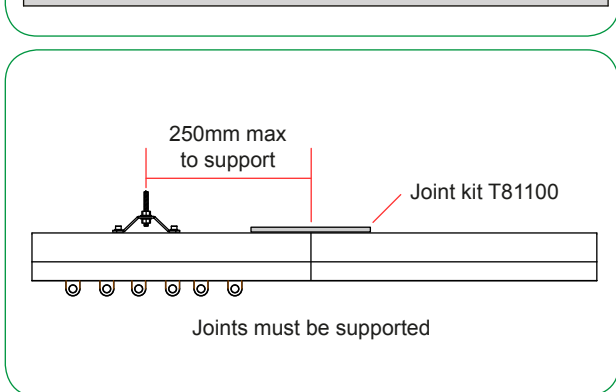
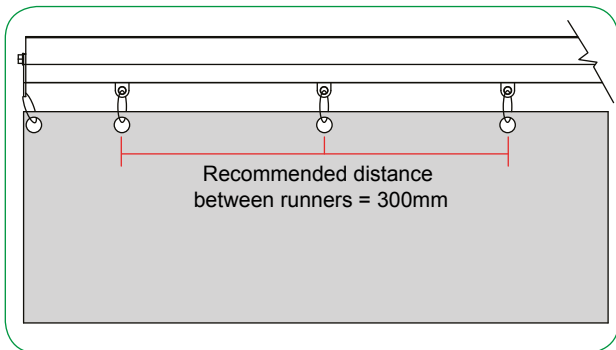
T81150

0.47kg

End Stop

T81160

0.30kg

**Slide In End Stop**

T81161

0.41kg

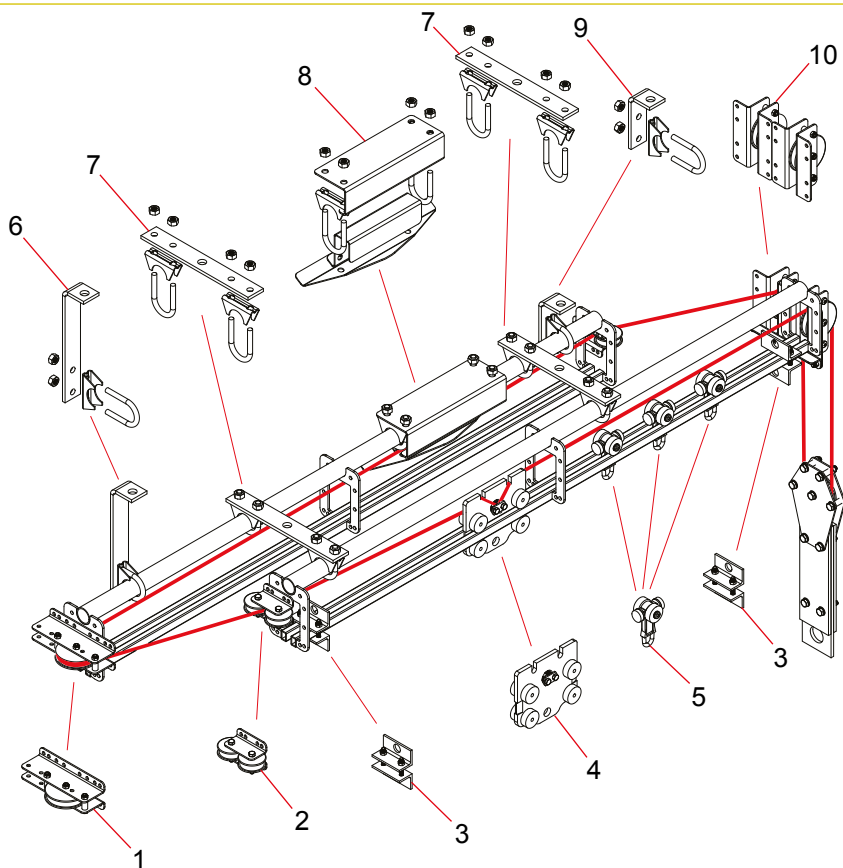
Six Track

Six Track is a modular curtain track system suitable for a wide range of stage and studio applications. The information in this brochure is for standard products to suit most typical applications. We also offer curved tracks and special systems built to your requirements. Please contact our technical sales team for further details.

Main features:

- Strong steel fabrication using a tubular top hanging bar and rectangular section tube rails
- Straight lengths up to 3 metres
- Curves from 500mm radius
- Single swipe or overlap curtains
- Ball raced runners with 6kg WLL
- Walkalong, handline, hand winch and electric options
- Black powder coated finish





- | | |
|-------------------------------|--------------------------------------|
| 1. T63775 Return Pulley | 6. T63750 Adjustable Support Bracket |
| 2. T63778 Double Guide Pulley | 7. T63752 Overlap Bracket |
| 3. T63760 End Stop | 8. T63770 Line Support |
| 4. T63755 Master Runner | 9. T63751 Short Support Bracket |
| 5. T63756 Ball Raced Runner | 10. T63776 Twin Head Pulley |

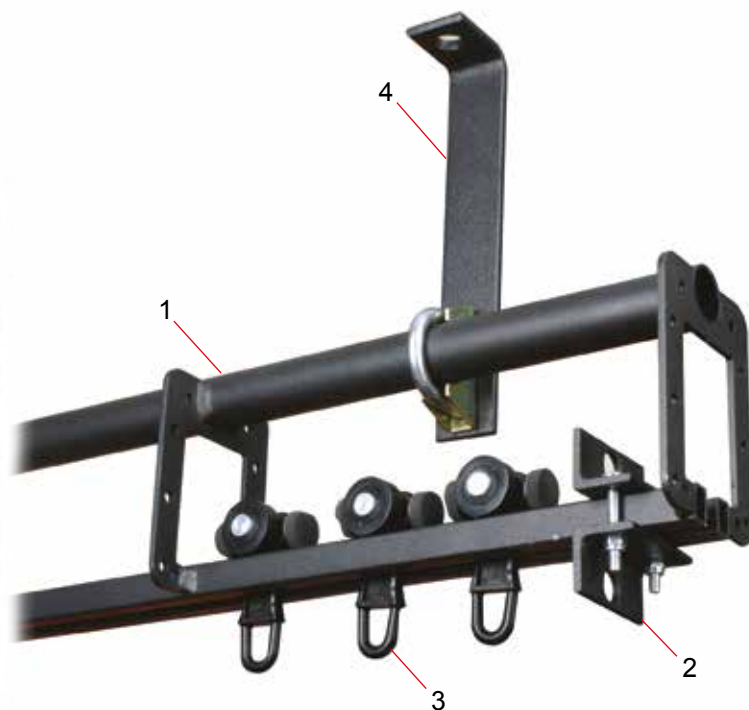
Recommendations:

1. Maximum length for an overlap track is 18 metres
2. Maximum length for a single track is 10 metres
3. Maximum span between supports (cloth open) 2.25 metres
4. Maximum span between supports (cloth bunched) 1.60 metres
5. Maximum runner spacing 300mm
6. Maximum load per runner 6kg
7. Line guides should be fitted at 2.5 metre intervals on straight sections
8. Six track has been designed for use with 8mm pre-stretched polyester cord

Walkalong Track Kits

Walkalong track kits include all the components required to install your chosen track length. A typical kit comprises track, end stops, ball raced runners, adjustable support brackets and a nut and bolt set.

Note: Other support brackets and fasteners may be required depending on individual installation methods.



1. Straight track
2. T63760 End stops (2 pairs per kit)
3. T63756 Ball raced runners (1 per 300mm of track)
4. T63750 Adjustable support brackets (1 per 1500mm of track)

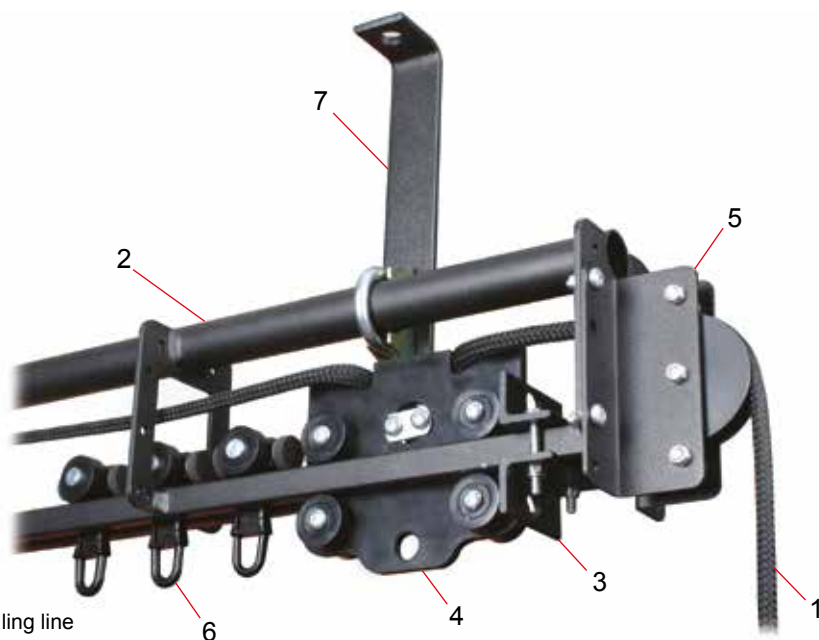
Walkalong Six Track Kits

T63941	4m	T63945	8m	T63949	12m
T63942	5m	T63946	9m	T63950	13m
T63943	6m	T63947	10m	T63951	14m
T63944	7m	T63948	11m	T63952	15m

Line Operated Track Kits

Line operated track kits include all the components required to install your chosen track length. A typical kit comprises track, adjustable support brackets, a nut and bolt set, master runner, pulleys, hauling line, line supports and a weighted hand pulley.

Note: Other support brackets and fasteners may be required depending on individual installation methods.



1. Hauling line
2. Straight track
3. T63760 End stops (2 pairs per kit)
4. T63755 Master runner (1 per Kit)
5. Pulleys (1 return pulley & 1 twin head pulley)
6. T63756 Ball raced runners (1 per 300mm of track)
7. T63750 Adjustable support brackets (1 per 1500mm of track)
8. Line support and weighted hand pulley (not shown)

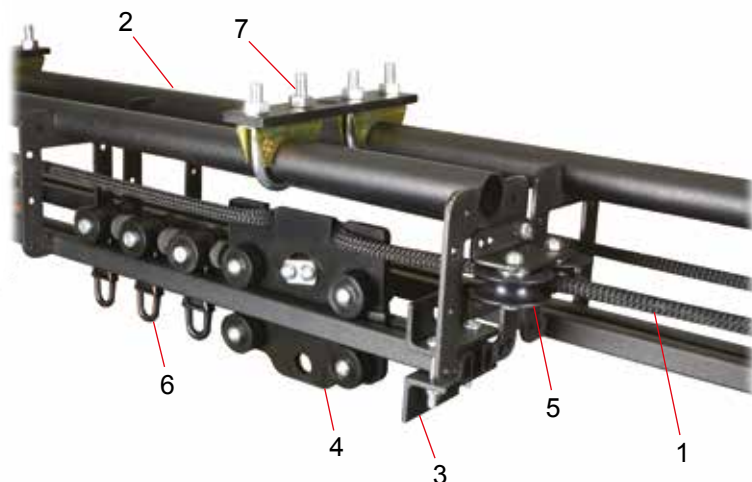
Line Operated Six Track Kits

T63908	4m	T63912	8m	T63916	12m
T63909	5m	T63913	9m	T63917	13m
T63910	6m	T63914	10m	T63918	14m
T63911	7m	T63915	11m	T63919	15m

Line Operated Track Kits with Overlap

Line operated track kits with overlap include all the components required to install your chosen track length. A typical kit comprises track, end stops, ball raced runners, adjustable support brackets, a nut and bolt set, master runners, pulleys, hauling line, line supports, overlap brackets, overlap pulleys and a weighted hand pulley.

Note: Other support brackets and fasteners may be required depending on individual installation methods.



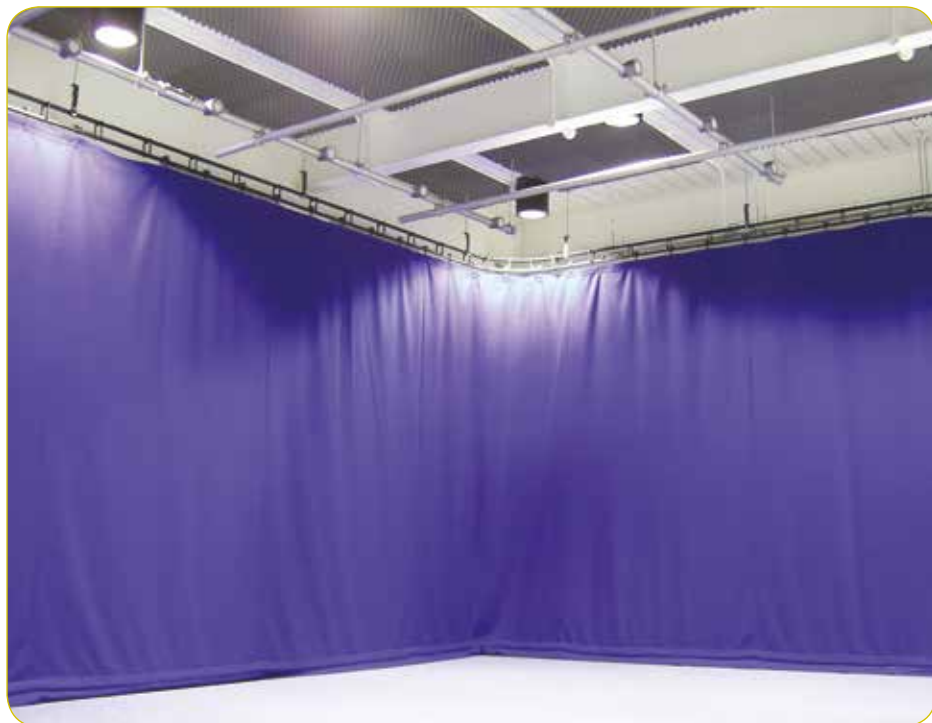
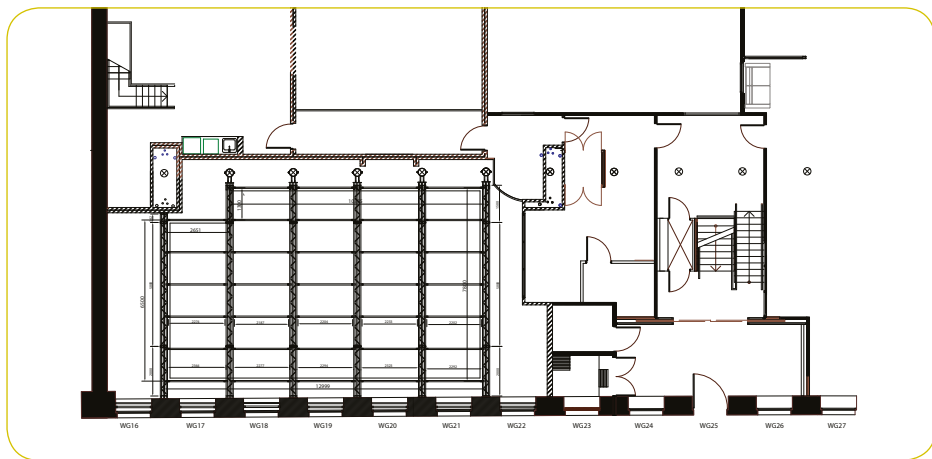
1. Hauling line
2. Straight track
3. T63760 End stops (2 pairs per kit)
4. T63755 Master runner (2 per Kit)
5. Pulleys (2 guide pulleys, 1 return pulley & 1 twin head pulley)
6. T63756 Ball raced runners (1 per 300mm of track)
7. T63752 Overlap brackets (2 per Kit)
8. Line supports, weighted hand pulley and adjustable support brackets (not shown)

Line Operated Track Kits with Overlap

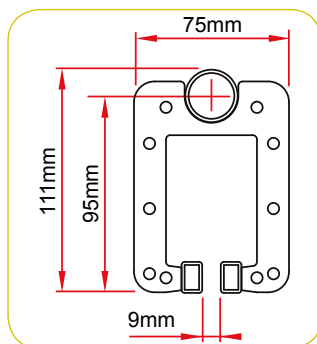
T63920	4m	T63924	8m	T63928	12m
T63921	5m	T63925	9m	T63929	13m
T63922	6m	T63926	10m	T63930	14m
T63923	7m	T63927	11m	T63931	15m

Bespoke Kits

Doughty Engineering Ltd offer a bespoke Six Track kit service. Simply submit your building plans or architect's drawings and our technical sales team will create a quote and parts list to suit your installation.

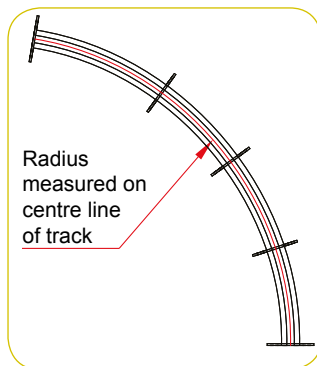


Track Sections



Six Track Straight Track Sections

T63705	Straight Track Section - 0.25m	0.63kg
T63706	Straight Track Section - 0.5m	1.19kg
T63707	Straight Track Section - 0.75m	1.99kg
T63708	Straight Track Section - 1m	2.69kg
T63710	Straight Track Section - 2m	4.47kg
T63715	Straight Track Section - 3m	6.71kg



Six Track Curved (Radius) Track Sections

90 Degrees			45 Degrees		
T63730	0.5m x 90°	1.96kg	T63735	0.5m x 45°	1.00kg
T63733	0.6m x 90°	2.17kg	T63736	0.75m x 45°	1.40kg
T63731	0.75m x 90°	2.73kg	T63737	1m x 45°	1.82kg
T63734	0.9m x 90°	3.50kg	Notes: 2 metre curves are supplied as 2 sections, 3 metre curves are supplied as 3 sections. Special straight sections and radius curves can be made to order, contact our technical sales team.		
T63732	1m x 90°	3.62kg			
T63738	2m x 90°	7.20kg			
T63739	3m x 90°	10.8kg			

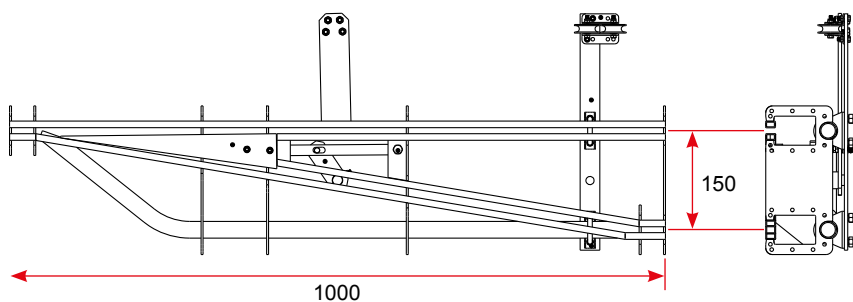
T63726

T63727

Six Track Points System (left handed)

T63726

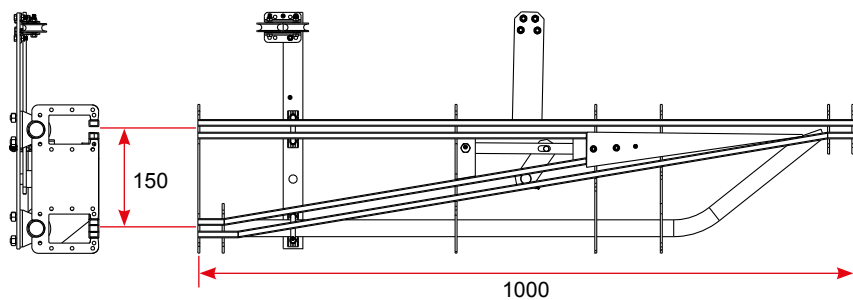
7.69kg



Six Track Points System (right handed)

T63727

7.69kg





Bolt On End Plate

T63765

With the Bolt On End Plate, standard length track may be cut to any length and the end replaced on site. There is no need for any on site welding.

Two M5 holes will need to be drilled.



Adaptor Plate

T63766

The Adaptor Plate uses three expanding plugs to terminate a standard piece of track which has been cut to a special length. This plate allows runners to pass through it, allowing it to be used mid track.



End Stop - Curtain Anchor

T63760

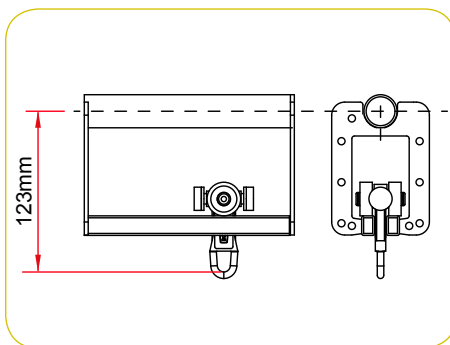
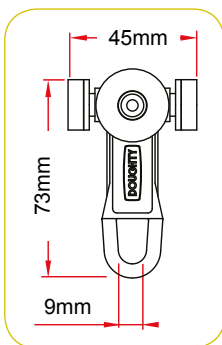
Six Track End Stops are used to stop the master runner at the end of a track run, they are also used to anchor the curtain at the start of a track.



Line Support

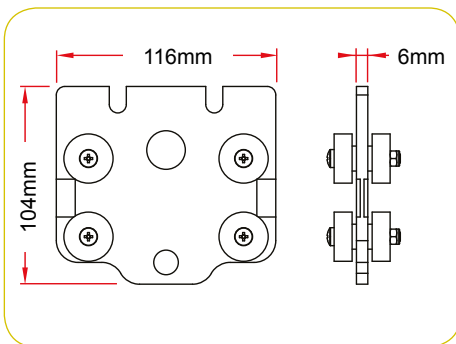
T63770

The Line Support bracket eliminates any sag in long hauling lines.



Curtain Runners (recommended spacing 300mm)

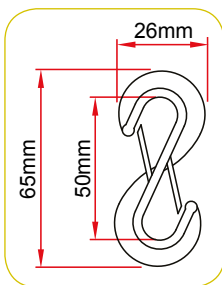
T63756	Ball Raced Bearing	WLL 6kg
T63757	Plain (no Bearings)	WLL 6kg



Master Runner (ball raced)

T63755	WLL 6kg
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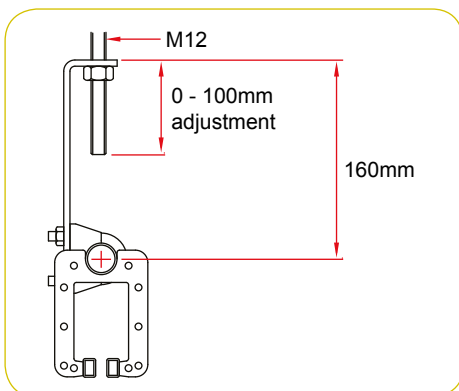
Master Runners are used to lead the curtain, the hauling line ends are also joined on the Master Runner.



Nylon Twin Hook

T63796	WLL 6kg
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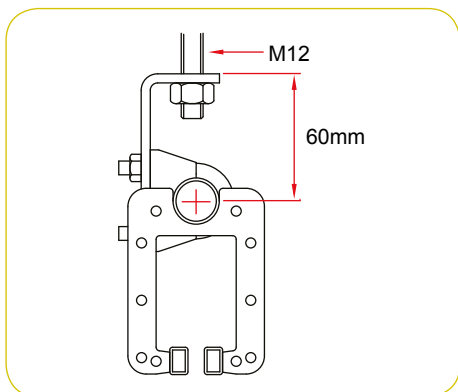
Twin Hooks are used to connect curtains to Six Track runners.



Adjustable Support Bracket

T63750

Six Track is generally suspended from its top rail using adjustable support brackets on M12 Studding, allowing up to 100mm of adjustment. In confined spaces, short support brackets can be used.



Short Support Bracket

T63751

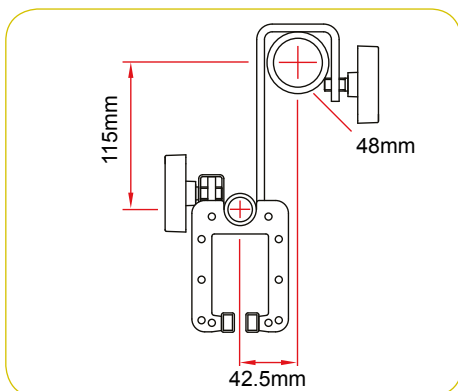
Short Support Brackets are ideally used where space is limited.



Top Rail Clamp (29mm "U" bolt)

T63749

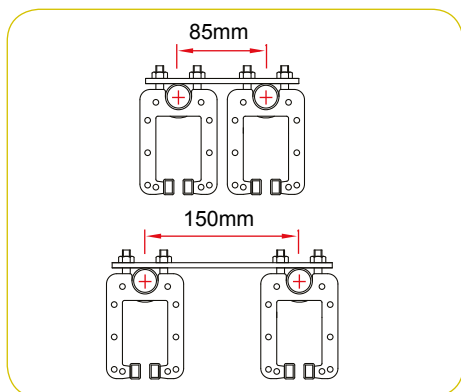
The Top Rail Clamp is sold separately when custom bracketry is required for special installations where standard brackets cannot be used.



Barrel Bracket

T63753

Barrel Brackets are used to suspend overlap curtain tracks from a 48mm barrel, truss section or lighting bar.



Overlap & Parallel Brackets

T63752 Overlap Bracket

85mm centres

T63754 Parallel Bracket

150mm centres

Overlap brackets are used to space two tracks apart to create an overlap whilst parallel brackets are used to space twin perimeter tracks.



Swing Arm Boom

T63785

WLL 100kg

The Swing Arm Boom has been specifically designed to allow single tracks to be mounted to scaffold tubes and lighting bars.

Tube centres are 71mm.



Return Pulley

T63775

The Six Track Return Pulley is used to return the hauling line around the end of a track run.



Twin Head Pulley

T63776

The Twin Head Pulley diverts the hauling line from horizontal to vertical to enable a drive unit or weighted pulley to be used.



Single Guide Pulley

T63777

The Single Guide Pulley ensures a smooth trouble free operation when used with line operated curves etc.



Double Guide Pulley

T63778

The Double Guide Pulley is used to divert the hauling line from one track to another in an overlap system.



1.3 kg Weighted Handline Pulley

T63820

Weighted Handline Pulleys are designed to maintain tension on manual hauling lines.



Floor Fixing Handline Pulley

T63825

The Floor Fixing Handline Pulley is designed to maintain tension on manual hauling lines.

This pulley enables the tension to be adjusted.



Sprung Floor Pulley

T63830

The Sprung Floor Pulley is floor fixed and maintains a constant tension on manual hauling lines.



Hauling Line

T63780

200m reel

8mm black pre-stretched polyester

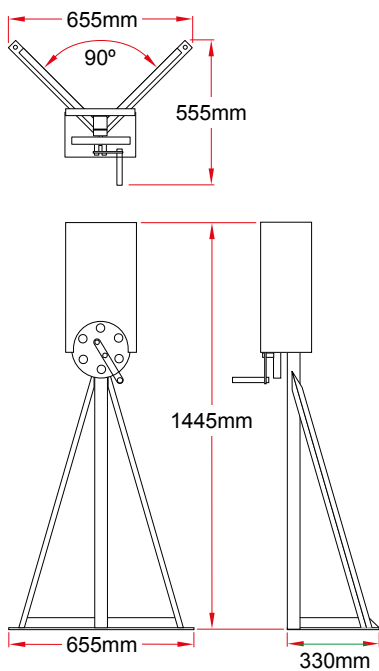


Fixing Kit

T63795 Six Track fixings

100 no

Manual Track Drives



Wall Mounted



Floor Mounted

Manual Track Drives

T63840	Wall mounted
T63841	Floor mounted

Designed for hauling curtains to a maximum of 15 metres (not for lifting). The Manual Track Drive units are fitted as part of the continuous loop hauling line. They incorporate a hauling line tensioning system, and can be either wall or floor mounted.

Electric Track Drives



Designed for hauling curtains to a maximum of 25 metres (not for lifting). The Electric Track Drive Unit is fitted as part of the continuous loop hauling line. The system includes a hauling line tensioning system and a track mounted motorised capstan. The track drives are available as single phase complete with a wall mounted variable speed control unit or 3 phase fixed speed with wall mounted control unit. The control unit includes an emergency stop and is supplied with two limit switches for track mounting. The kit comes with 10 metres of electrical cable and 50 metres of 24 volt control cable for the limit switches.

An optional open/close remote control unit is also available.

Electric Track Drives

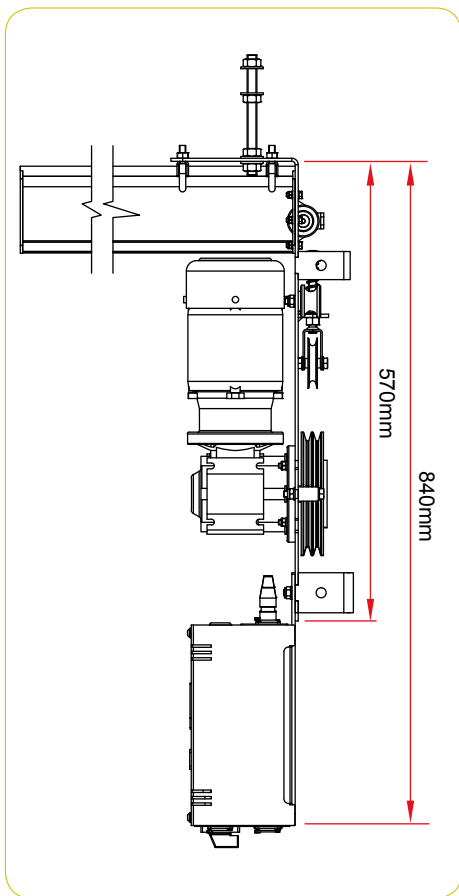
T63845	1 Phase Track Mounted Drive
T6384503	3 Phase Track Mounted Drive
T63850	Optional Remote Control

PLC Track Drive

The Six Track PLC Track Drive is a plug and play single phase Six Track Drive System. The PLC control box enables a variable drive system, the control box is demountable and can be situated remotely if required.

The system uses a 0.12kw 50Hz motor capable of hauling 75kg of drapes in a straight run and 50kg when curves are used.

Power and limit switch connections are made using industry standard connectors enabling cable to be altered or made on site quickly and easily.





Components

Each Track Drive System comprises of:

1. Motor Drive Unit
2. PLC Control Box
3. Pendant
4. Pair of limit switches and brackets
5. Power Cable

Note: If the control box is to be situated remotely an extension cable is required between the control box and motor.

Pendant

T63862

Pendant

Pendants are supplied with a 10m Cable and XLR connector fitted.
The pendant also has the facility to be easily chained.

PLC Track Drives

T63860	PLC DRIVE SYSTEM - STANDARD	UP TO 0.7M / SEC
T63865	PLC DRIVE SYSTEM - SLOW	UP TO 0.3M / SEC

The PLC Drive system is available in two speeds. The standard speed drive and the slower speed drive which is more suited to Crematoriums etc.



Easydeck

Easydeck is a modular performance system, perfectly suited for use in the smaller venue. Designed after extensive consultation with drama teachers, amateur groups and rental companies, the system provides an efficient, cost effective solution to temporary staging. Easydeck is a 'no fuss' system which is simplicity itself to install and requires no special tools to assemble.

Easydeck modules are 1000mm x 1000mm. The frames are powder painted. The Deck Panels are phenol coated birch ply with a smooth surface and a non slip surface on opposing sides.

Easydeck conforms to DIN 53799, BS6566:1 1985.

Easydeck Frames and Panels are supplied seperately.





Non Slip Surface



Smooth Surface

Easydeck Square Frames & Reversible Deck Panels

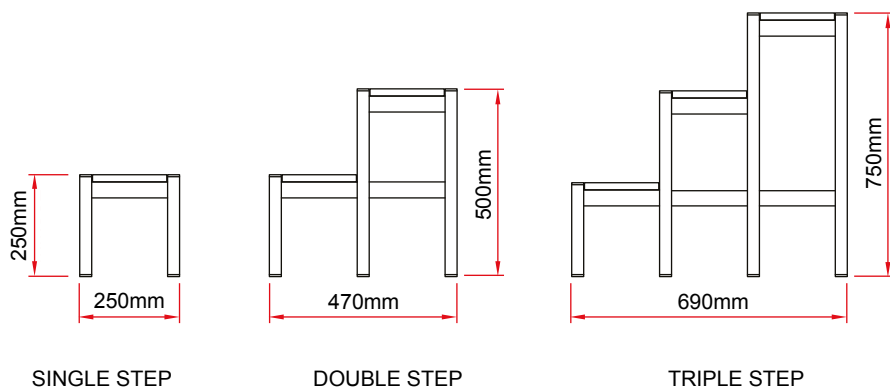
	Description	Size	kg	WLL
T76000	Square Frame	1000 x 1000 x 250mm	7.57kg	500kg
T76100	Square Frame	1000 x 1000 x 500mm	8.74kg	500kg
T76200	Square Frame	1000 x 1000 x 750mm	9.91kg	500kg
T76600	Reversible Deck Panel	1000 x 1000 x 18mm	7.57kg	



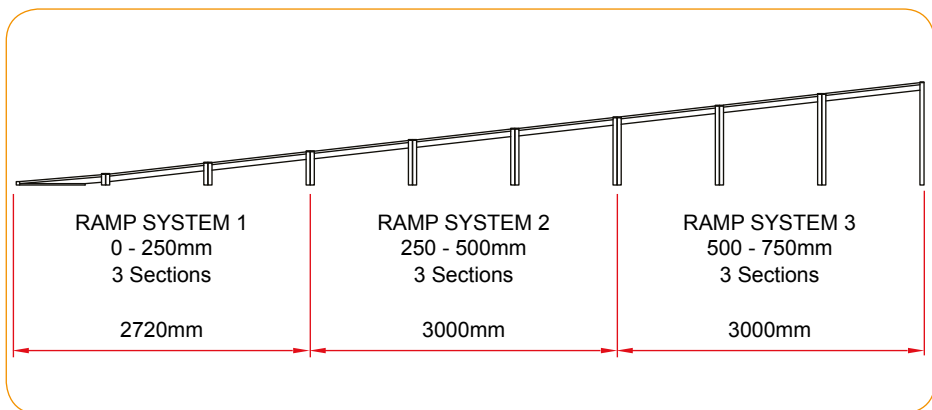
Easydeck Triangular Frames & Reversible Deck Panels

	Description	Size	kg	WLL
T76300	Triangular Frame	1000 x 1000 x 250mm	5.28kg	250kg
T76400	Triangular Frame	1000 x 1000 x 500mm	6.15kg	250kg
T76500	Triangular Frame	1000 x 1000 x 750mm	7.02kg	250kg
T76700	Reversible Deck Panel	1000 x 1000 x 18mm	5.28kg	

Double Step Unit



Easydeck Step Modules			
	Description	Size	kg
T76505	Single Step	1000 x 250 x 250mm	4.28kg
T76506	Double Step	1000 x 470 x 500mm	8.70kg
T76507	Triple Step	1000 x 690 x 750mm	11.0kg
T76800	Step Unit Deck Panel	1000 x 250mm	4.28kg

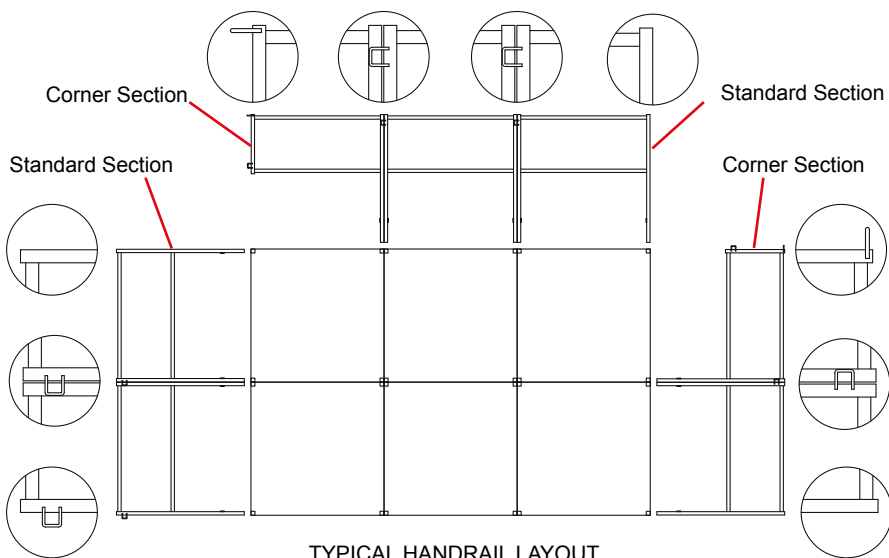
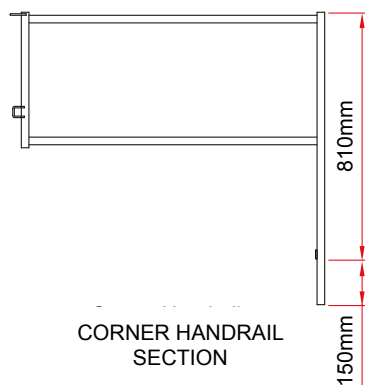
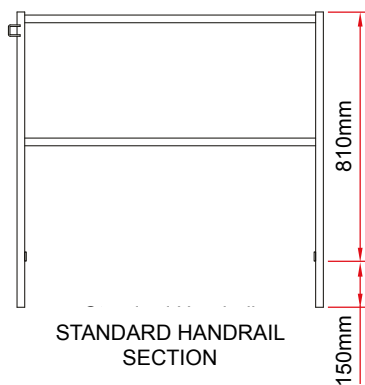


Easydeck Ramp System				
	Description	Size	kg	WLL
T77900	Ramp System 1	0 - 250mm	56.0kg	500 kg/m ²
T77800	Ramp System 2	250 - 500mm	62.0kg	500 kg/m ²
T77910	Ramp System 3	500 - 750mm	66.0kg	500 kg/m ²
All Ramp Systems are supplied with Deck Panels				
T77100	Rising Handrail Section		4.02kg	



Easydeck Handrail

T76900	Standard Section	4.02kg
T77000	Corner Section	3.26kg
T77100	Ramp Section	4.02kg



Easydeck Chair Stops

T77300	Chair Stop	1.68kg
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Chair Stops create a raised edging to eliminate the chances of a chair leg slipping off the stage.



Easydeck "Bolton Twill" Valance

T77950	250mm drop x 6m
T77960	500mm drop x 6m
T77970	750mm drop x 6m

Easydeck Storage Dolly

T77400	Storage Dolly	9.51kg
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Store up to twenty five frames and deck panels. Comes with heavy duty castors for ease of movement. Requires no more than 1.2 square metres of floor space.



Easydeck Ordering Information:

1. Generally for each unit ordered, 2 no T77500, 1 no T77600 and 1 no T77650 are required.
2. For each Handrail Corner, 1 Standard Section and 1 Corner Section are required.
3. Please note: Deck Panels are sold separate from the Easydeck frames.
4. Riser brackets are supplied in sets of four.

1. Easydeck Module Joint Clip

T77500 0.10kg

The Easydeck Joint Clips are used to secure runways and step units.

2. Easydeck Module Joint Channel

T77600 0.14kg

Joint Channels are used to create a secure joint between two adjacent frames.

3. Easydeck Support Channel

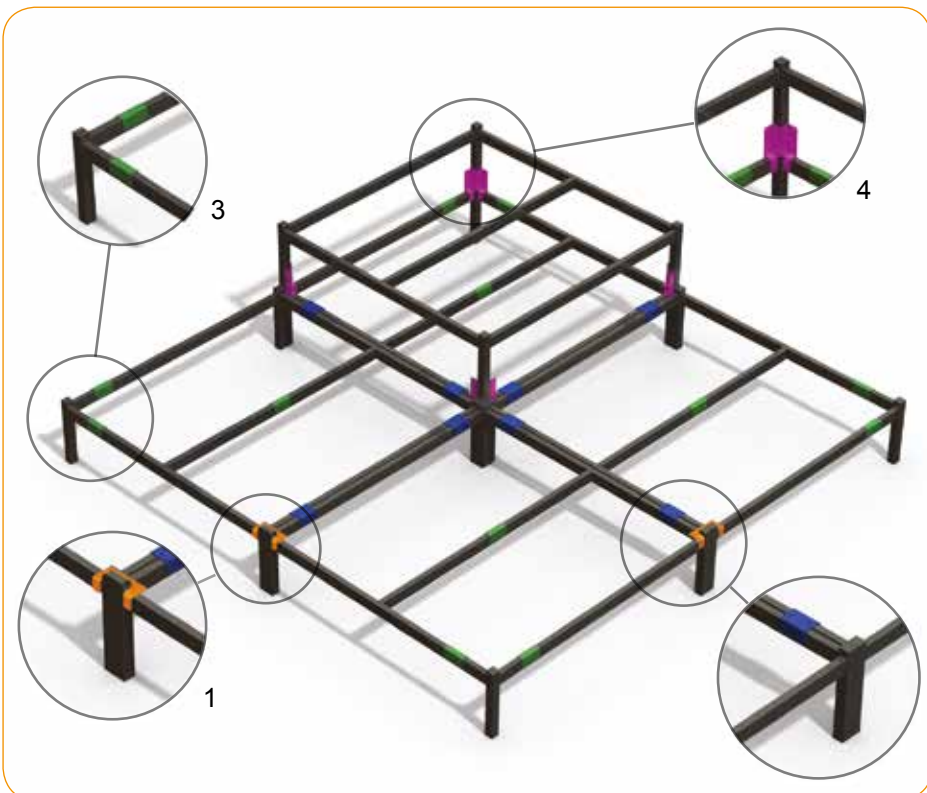
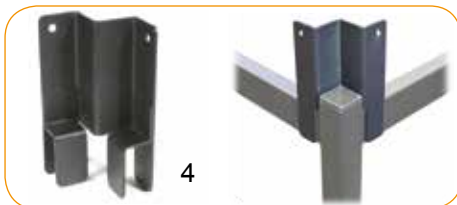
T77650 0.10kg

Support Channels are used to match the height of the Joint Channels and Joint Clips, ensuring a level platform for the deck panels is achieved.

4. Easydeck Module Riser Brackets

T77200 Set of 4 0.25kg

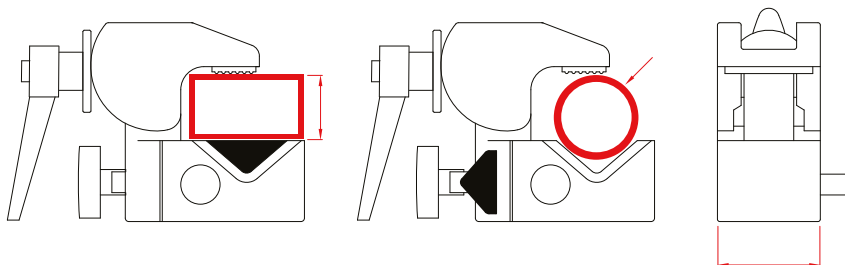
Riser Brackets are designed to be used when two units are tiered on top of each other. The Riser Brackets are fitted to each corner ensuring the tiered unit is extremely safe and secure.



Supaclamps

Supaclamps are pressure die cast aluminium clamps capable of clamping any surface from 13mm flat to 50mm diameter poles. Rubber grip pads prevent damage to surfaces. They are supplied with a wedge to grip flat surfaces.

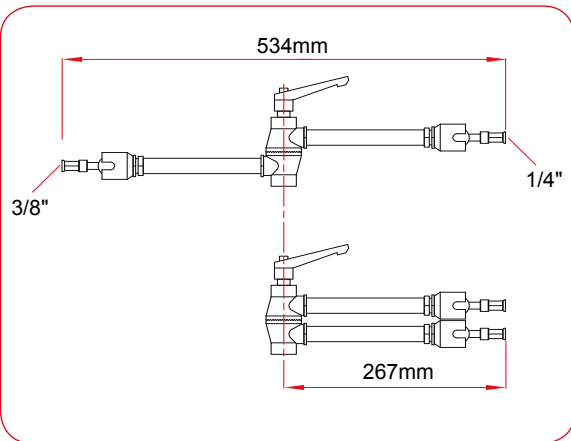
There is a full range of snap-in accessories to complement these versatile clamps.



Supaclamps					
Part No	WLL	D1	D2	D3	kg
G1160 - Silver	20kg	13 - 30mm	Ø15 - 50mm	45mm	0.45kg
G116001 - Black	20kg	13 - 30mm	Ø15 - 50mm	45mm	0.45kg

Pivot Arm

The Pivot Arm is a versatile multi-positioning arm which has been designed to complement the Supaclamp in the Film, Video and Photographic industry.



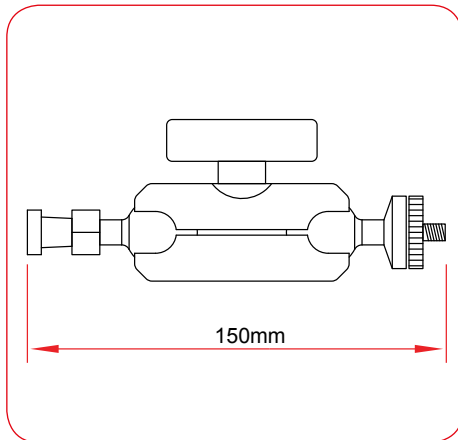
Pivot Arm

G1150

WLL 4.0kg

Knuckle Joint

The Knuckle Joint features a snap in spigot to fit our Supaclamp and a 1/4" UNC camera thread. Also supplied is an adapter to convert the 1/4" thread to a 3/8" UNC thread.



Knuckle Joint

G1155

WLL 4.0kg



M10 x 25 Rotating Stud
G1177



Snap-In 1/4" Camera Spigot
G1178



M10 Low Profile Socket
G1179



Snap-In 16mm x 3/8" Spigot
G1180



Snap-In 16mm x 1/4" Spigot
G1181



Snap-In 3/8" x 1/4" Spigot
G1182





Snap-In Pin 10mm

G1167

Snap-In Pin 12mm

G1166

Snap-In Pin 16mm

G1165



Snap-In Stud M12 x 30

G1168

Snap-In Stud M10 x 25

G1169

Swivel / Joining Stud

G1170



Snap-In Socket M12 x 35

G1171

Snap-In Socket M10 x 30

G1172

Snap-In Extension 150mm

G1173



Snap-In Offset Arm

G1174

Snap-In Swivel "C" Hook

G1175

Mounting Plate 100mm

G1176

Grip Equipment

Doughty Grip Equipment is a range of British designed and manufactured lighting support for studios and locations of all types. These products have been manufactured for a high degree of performance to give solutions to challenging lighting demands.





Griphead (large 115mm)

G1200 - Polished	2.40kg
G120001 - Black	2.40kg

The 115mm large Griphead features an offset 29mm receiver to accommodate luminaires. The clamp plates are designed to accept 25, 20, 16 & 12mm diameter poles/arms. The conical clamping system enables items up to 50mm square or of irregular shape to be clamped securely.



Griphead 65mm

G1210 - Silver	0.70kg
G121001 - Black	0.70kg

The 65mm standard Griphead features an offset 16mm receiver. The clamp plates are designed to accept 16, 12, 10 & 6mm diameter pins/arms for flags, scrims etc. The conical clamping system enables items of irregular shape to be clamped securely.



Double Griphead 65mm

G1220	1.30kg
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Two independently operable gripheads mounted on a 10mm x 170mm stainless steel spike.



Pin with Collar 150mm x Ø16mm

G1260	0.23kg
-------	--------

This Pin enables lightweight luminaires fitted with a 17mm receiver to be mounted to any griphead. The collar acts as a safety stop when inverted.



Snap-In Griphead 65mm

G1221	1.3kg
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Factory fitted with a snap-in pin for use in conjunction with the G1160 Supaclamp or similar accessories.

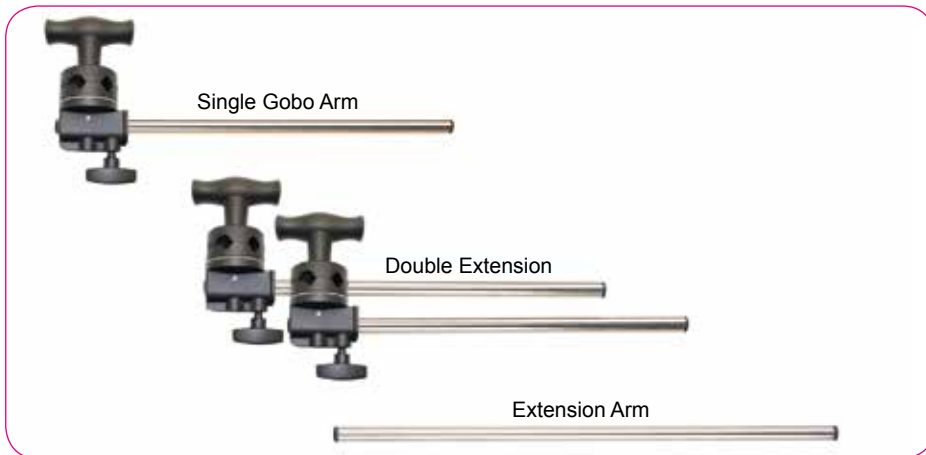


Supaclamp

G1160 - Polished	0.45kg
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G116001 - Black	0.45kg
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Designed to grip any surface from 5mm flats to 50mm diameter poles, the Supaclamp features a snap-in receiver.



Gobo Arms

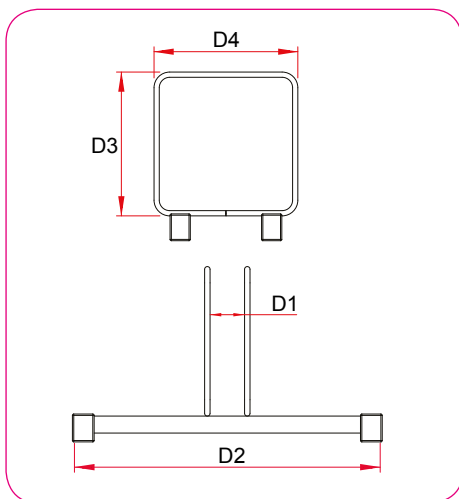
G1230	500mm x 16mm Single Gobo Arm	0.84kg
G1235	1000mm x 16mm Single Gobo Arm	1.06kg
G1240	500mm x 16mm Double Extension	1.68kg
G1245	1000mm x 16mm Double Extension	2.14kg
G1250	500mm x 16mm Stainless Steel Extension Arm	0.23kg
G1255	1000mm x 16mm Stainless Steel Extension Arm	0.46kg



Polyholders

G1140 Polyholder 25mm	0.62kg
G1142 Polyholder 40mm	0.80kg
G1141 Polyholder 50mm	0.83kg

Polyholders comprise two 225 x 150mm aluminium plates powder painted black one side and white on the reverse. Fitted with a 10mm pin for use with Gripheads.



Floor Standing Poly Holder

	D1	D2	D3	D4	kg
G1147	50mm	450mm	220mm	220mm	2.0kg

A floor standing polyholder manufactured in steel and powder painted.



Baby Arms and Headers

	Length	Spigots	Receiver	kg
G1330 Baby Offset Arm	350mm	2 x 16mm	17mm	0.74kg
G1335 Baby Doubler Header	700mm	4 x 16mm	17mm	1.29kg
G1340 Baby Triple Header	850mm	5 x 16mm	17mm	1.55kg



Junior Arms and Headers

	Length	Receivers	Spigot	kg
G1300 Junior Offset Arm	450mm	1 x 29mm	28mm	2.53kg
G1310 Junior Doubler Header	900mm	2 x 29mm	28mm	4.24kg
G1315 Junior Triple Header	1000mm	3 x 29mm	28mm	5.00kg



Baby Adjustable Side Arm

G1345

0.76kg

The Baby Adjustable Side Arm is mounted to a vertical 32mm (1.25") tube or stand riser with a G1350 Vee Clamp.

The side arm is 500mm long and the spigots are 16mm.

Vee Clamp sold separately.



Junior Adjustable Side Arm

G1320

1.42kg

The Junior Adjustable Side Arm is mounted to a vertical 32mm (1.25") tube or stand riser with a G1350 Vee Clamp.

The side arm is 500mm long and the receiver is 29mm.

Vee Clamp sold separately.

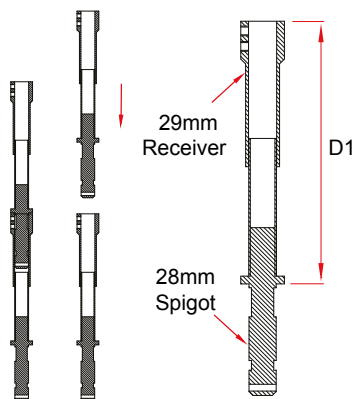


Junior Adjustable Offset Arm

G1305

2.40kg

The Junior Adjustable Offset Arm is fitted with a 28mm Spigot and 29mm receiver and is adjustable from 430mm to 700mm centres.



Maximum combined height - 2000mm



Low Lifts			
	D1	Spec	kg
T44450	135mm	Euro spec	0.98kg
T44460	270mm	Euro spec	1.36kg
T44470	405mm	Euro spec	1.49kg
T44475	675mm	Euro spec	1.74kg
T44500	1000mm	Euro spec	2.01kg

Extension Poles (28mm spigot/receiver)		
	Length	kg
T44640	1000mm - 1650mm	3.70kg
T44645	1080mm - 2500mm	5.20kg
T44650 - Black	1080mm - 2500mm	5.20kg

Extension poles and low lifts can be used in floor plates and bases or as a stand extension.

Fitted with a Multihead receiver which comprises a 29mm receiver combined with a pop up 16mm spigot.

**Not to be used as Drop Arms.
For Lifting Only.**



Double Risers

	Size	Finish	kg
G2020	770 - 1500mm	Chrome	3.37kg
G2021	1020 - 2260mm	Chrome	4.50kg
G2022	1270 - 3000mm	Chrome	5.40kg
G2023	1780 - 4520mm	Chrome	6.20kg
G202001	770 - 1500mm	Black	3.37kg
G202101	1020 - 2260mm	Black	4.50kg
G202201	1270 - 3000mm	Black	5.40kg
G202301	1780 - 4520mm	Black	6.20kg

Fitted with 16 & 29mm spigots.



WLL: 100kg

Doughty Universal Hanger

G2024

5.65kg

An extending hanger to suspend equipment from barrel truss grids. Fitted with a 48 - 51mm coupler and 29mm receiver, the Universal Hanger extends from 280mm - 2160mm.

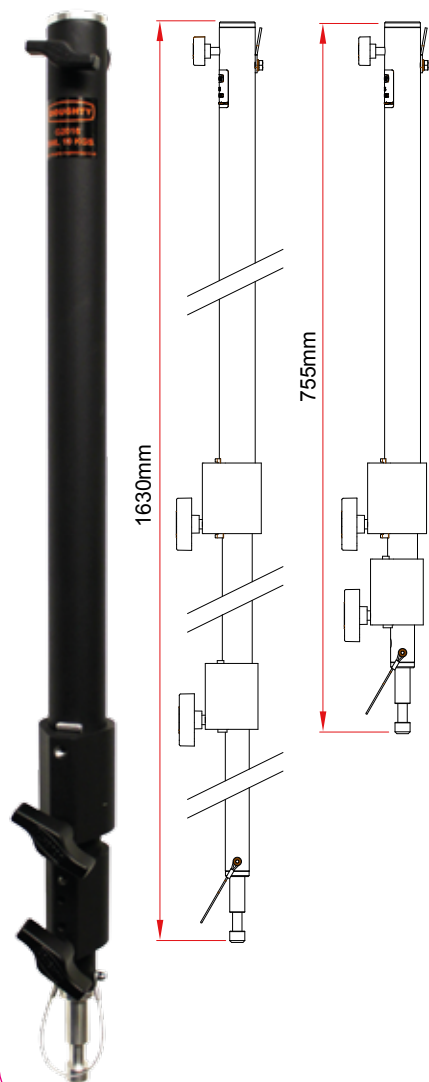


Doughty Grip Helper

G2025

4.60kg

An angled extending arm fitted with a 29mm receiver / spigot combination and a Large Griphead. The Grip Helper allows a scrim, silk or blackout to be mounted with a luminaire on the same stand. Length is adjustable from 845mm to 1280mm.



Lightweight Drop Arm

16mm Receiver - 16mm Spigot

G2016

WLL 10Kg



Super Lightweight Drop Arm

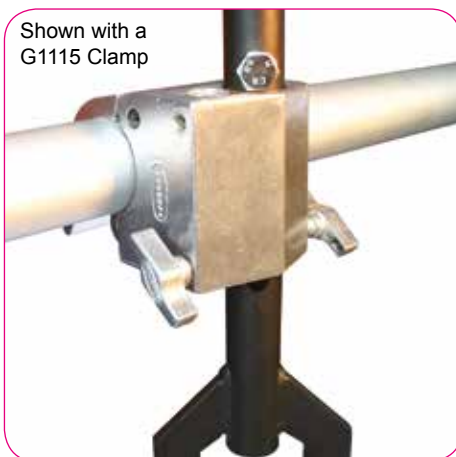
48mm - 16mm Spigot

T45725

WLL 10Kg

A three section telescopic lightweight drop arm fitted with a 16mm Receiver and 16mm Spigot. Safety bond loops are fitted top and bottom.

Our Super lightweight coupler fitted with a 16mm drop arm. The drop arm features a safety bond slot.



Single-Ended Adjustable Drop Arms

	Length	Spigots	Receiver	kg
T45610	250mm	Fits Barrel Socket Clamp (G1115)	29mm	1.66kg
T45612	500mm	Fits Barrel Socket Clamp (G1115)	29mm	1.85kg
T45614	750mm	Fits Barrel Socket Clamp (G1115)	29mm	2.04kg
T45616	1000mm	Fits Barrel Socket Clamp (G1115)	29mm	2.23kg
T45618	2000mm	Fits Barrel Socket Clamp (G1115)	29mm	4.46kg

Adjustable drop using pre-drilled holes in 28mm dia tube and a securing pin.



Double-Ended Drop Arms

	Length	Spec	kg
T45400	500mm	Euro spec	2.17kg
T45500	1000mm	Euro spec	2.65kg
T45600	2000mm	Euro spec	3.79kg

Fixed length drop with 28mm spigot and 29mm receiver. Enables luminaire to rotate.



Baby Pin Wall Plate

G1405

0.46kg

A 100mm x 100mm plate with 16mm spigot and Ø8mm corner fixing holes.



Baby Receiver Wall Plate

G1128

0.37kg

A 100mm x 100mm plate with 16mm receiver and Ø8mm corner fixing holes.



Junior Wall Plate

G1129

0.85kg

A 120mm x 120mm plate with 29mm receiver and Ø8mm corner fixing holes.



Baby Grid Clamp

G1197

0.78kg

A standard Doughty T57000 Clamp fitted with a Ø16mm spigot 70mm long.



Baby Pin Hook Clamp

G1415

0.40kg

A standard Doughty T20100 Hook Clamp fitted with a Ø16mm spigot.



Flat Clamp

G1001

1.28kg

A medium duty scenery clamp which clamps up to 100mm and includes a fixed 29mm receiver and lynch pin.



Large Gaffer Clamp

G1000

1.20kg

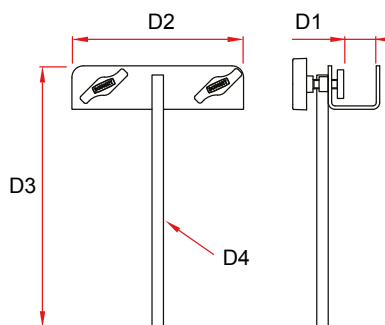
A quick release clamp which grips flat surfaces and barrel and provides two 16mm receivers.



G Clamps

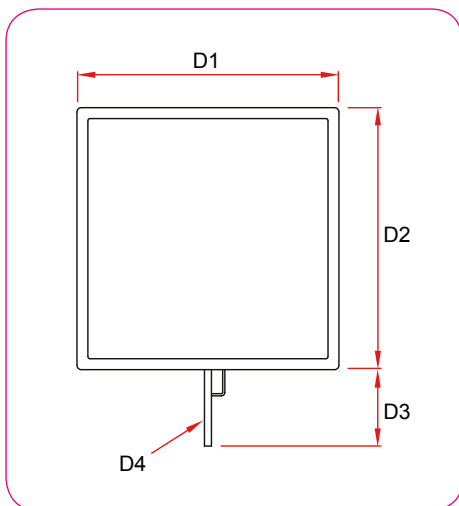
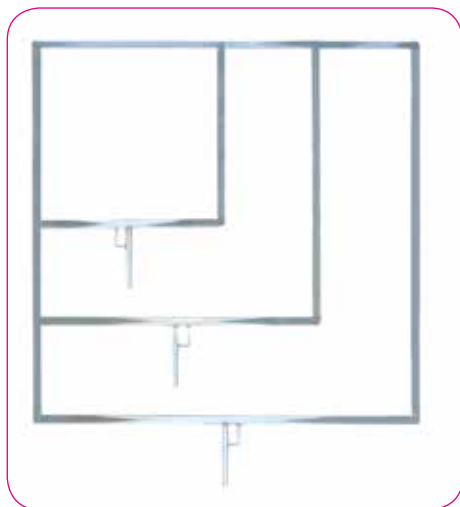
			kg
G1104	100mm Python Clamp	clamps 0 - 100mm	1.28kg
G1106	150mm Python Clamp	clamps 0 - 150mm	2.33kg
G1108	200mm Python Clamp	clamps 0 - 200mm	2.87kg
G1110	250mm Python Clamp	clamps 0 - 250mm	3.63kg

A range of G clamps fitted with dual position 29mm receiver. Modified jaws have been added to clamp flat surfaces or round bars.



Frame Clamps

	D1	D2	D3	D4	kg
G1113	50mm	150mm	230mm	Ø10mm	1.00kg
G1114	25mm	150mm	230mm	Ø10mm	0.74kg



Flat Aluminium Flag Frames (25 x 6 flat)

	Size	D1	D2	D3	D4	kg
G3015	24" x 24"	610mm	610mm	190mm	Ø16mm	1.00kg
G3016	36" x 36"	915mm	915mm	190mm	Ø16mm	1.29kg
G3018	48" x 48"	1220mm	1220mm	190mm	Ø16mm	1.69kg



Sand Bags

G3301

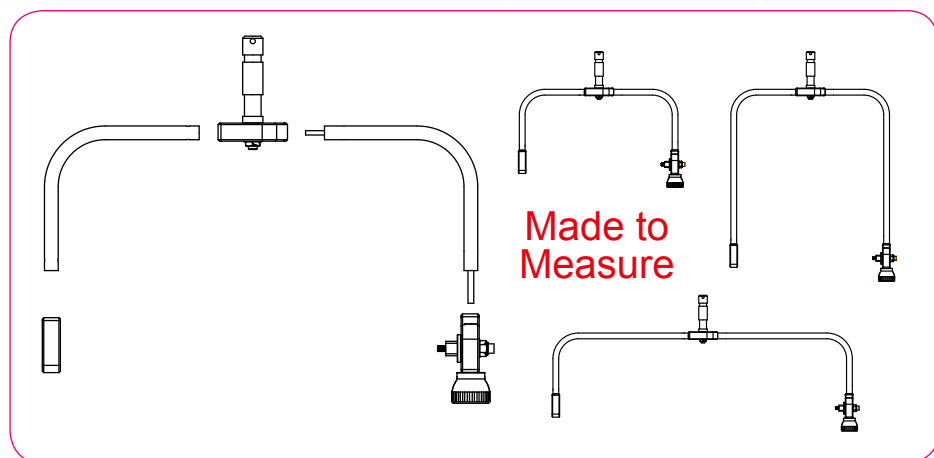
Capacity - 10kg Sand - 18kg Shot

Water resistant.

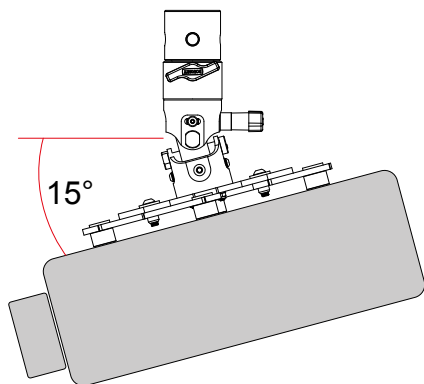
Pole Op Yokes

A Pole Operated Yoke featuring Pan and Tilt movement.

The yoke has been designed with flexibility in mind. There are three main components, two gearboxes and a pivot housing separated by two formed tubes. These tubes can be cut to a size to suit most lights, projectors or cameras etc. This enables us to offer a cost effective solution to your pole-op requirements in a reasonable lead time.



Contact sales@doughty-engineering.co.uk for a quote

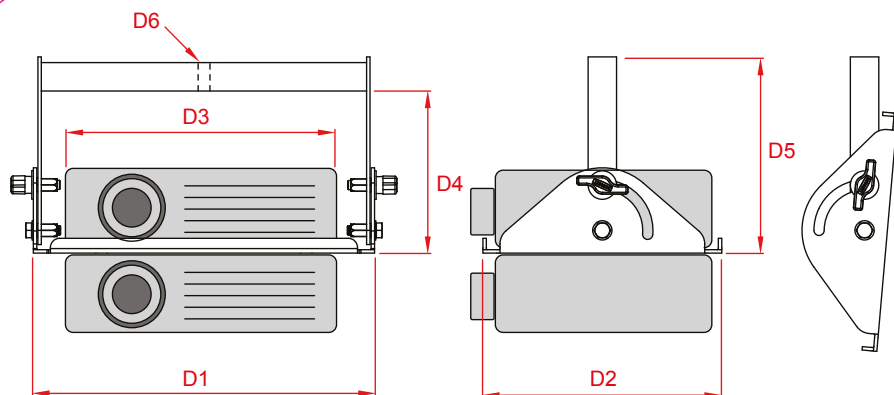


Projector Mount

T75080

WLL 25kg

An articulated projector mount featuring ± 15 degrees of tilt in two directions and full 360° rotation. The mount is fitted with a tapered connector to suit our modular rigging system.
For Suspension Only.



Projector Cradles

	D1	D2	D3	D4	D5	D6	WLL
T75050	300mm	210mm	<240mm	<120mm	170mm	Ø12.5mm	10kg
T75055	420mm	325mm	<360mm	180mm	230mm	Ø12.5mm	10kg

Note: Trays are supplied blank and require drilling to suit the projector of choice.

TV Brackets

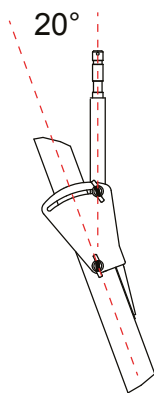
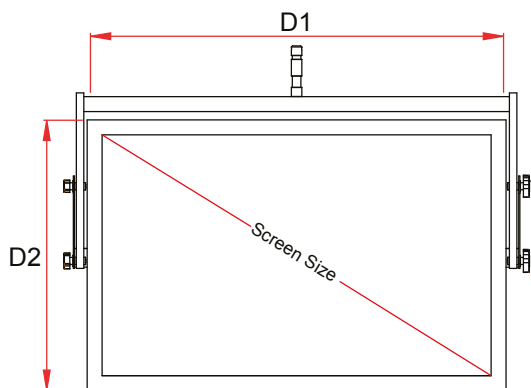
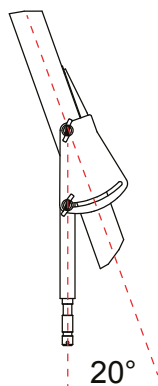
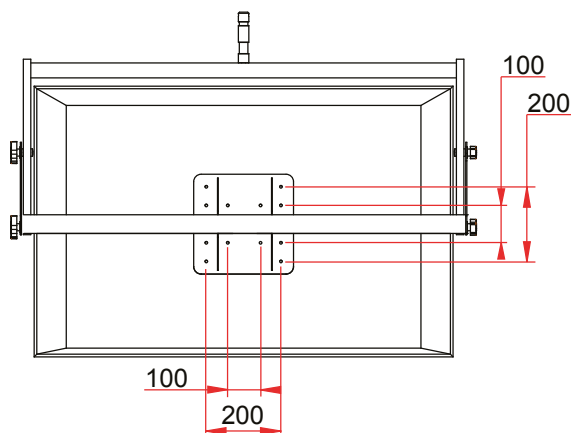
Doughty Engineering offer a range of three different sized TV brackets which have been designed to be suspended or mounted on a stand. Finished in crackle black powder paint these brackets feature an 12mm mounting hole in the top rail which can be used to fix a clamp, TV spigot or Studio Rail carriage.



TV Brackets				
	Screen Size	D1 Max	D2 Max	Vesa Mount
T75000	32"	750mm	500mm	100 x 100
T75010	37"	910mm	570mm	200 x 100 & 200 x 200
T75020	42"	1010mm	660mm	200 x 100 & 200 x 200

TV Brackets are not supplied with any fixings, clamps or Spigots.

Special sizes are available on request.



Transporter Trolleys

The Doughty Transporter range is designed as an adaptable transportation system, which may be configured to suit multiple applications.

The Transporter range utilises 48mm Barrel (Page 144) and Pipeclamps (Page 158), both of which are plentiful in the entertainment industry, to create a robust but cost effective structure.

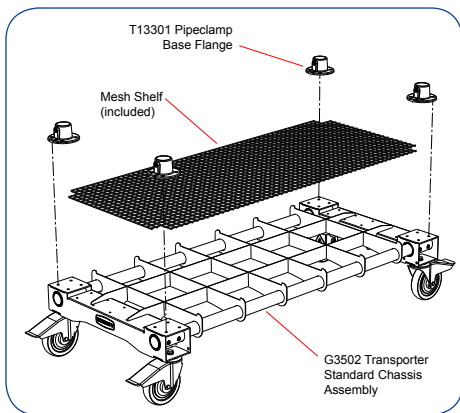
The Chassis Sub-frames employ standard T19300 Allen Screws to clamp lengths of barrel to form a chassis, upon which Pipeclamps and Barrel can be used to construct the trolley superstructure. This minimises the number of different tools required for assembly or alteration.

A range of accessories including various shelf options are available, and bespoke adaptor plates/modifications can be designed and manufactured upon request.





G3501 Sub-frames with Castors



G3502 Sub-frames with Castors



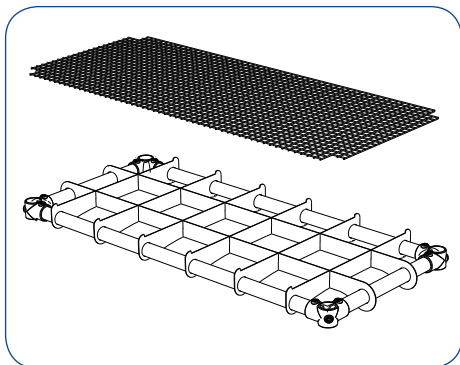
G3505 Tub



G3506 Side Extension



Typical Example



G3503 Shelf Assembly (1430x630)

G3504 Mesh Shelf

Stand Accessories

An extensive range of accessories to complement our large selection of lighting stands.



Castor Kits

T50500 - 75mm Kit

T50502 - 75mm Kit

G2201 - 4" (100mm) Kit

G2200 - 4" (100mm) Kit

To suit the following stands:

Neutron

Nova

Comet

Cine Combo Stands

To suit the following stands:

Followspot

Nebula 20

Nebula 33

Nebula 42

Studio 2000

Studio 3500

Studio 5000

Combo Stands

Parcan Stand Top

T54175

The Parcan Stand Top enables a parcan or similar luminaire fitted with a standard hook clamp to be used in a 29mm receiver.

This item should not be used as a suspension device.



Silver



Black



3 Function Multihead Top

G2060

WLL	N/A
D1	Ø32mm (Ø1.25")
D2	Ø29mm Receiver
D3	Ø16mm Spigot
D4	155mm
kg	0.66kg

3 Function Multihead Top

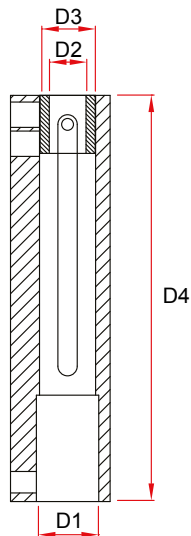
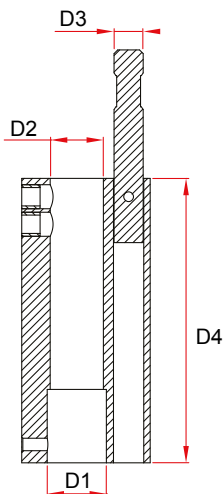
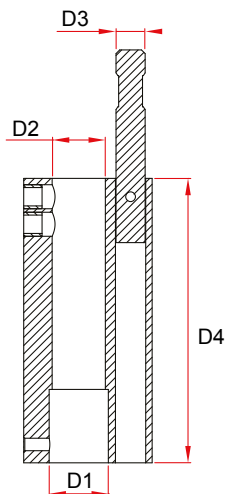
G206001

WLL	N/A
D1	Ø32mm (Ø1.25")
D2	Ø29mm Receiver
D3	Ø16mm Spigot
D4	155mm
kg	0.66kg

Combi Accessory Top

T52800

WLL	N/A
D1	Ø32mm (Ø1.25")
D2	Ø19mm Receiver
D3	Ø29mm Receiver
D4	210mm
kg	0.68kg





Platten Plate Followspot Top

T52900	
WLL	N/A
D1	Ø32mm (Ø1.25")
D2	Ø29mm Receiver
D3	Ø95mm
D4	156mm
kg	0.49kg



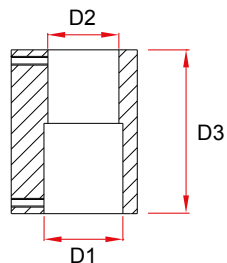
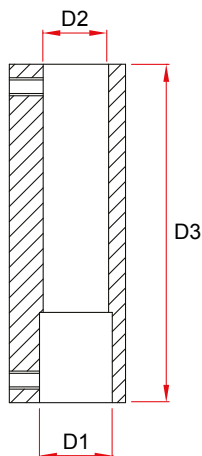
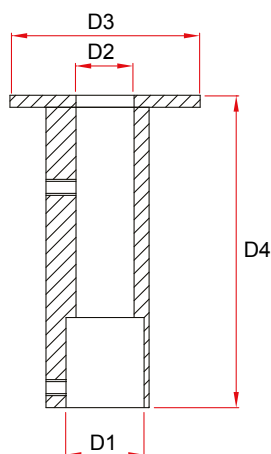
Mounting for TV Spigot

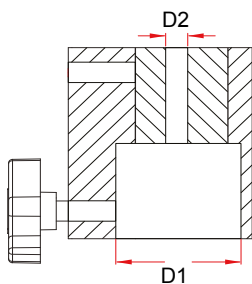
T50600	
WLL	N/A
D1	Ø32mm (Ø1.25")
D2	Ø29mm Receiver
D3	150mm
kg	0.66kg



Mounting for TV Spigot

T50700	
WLL	N/A
D1	Ø38mm (Ø1.50")
D2	Ø29mm Receiver
D3	60mm
kg	0.66kg





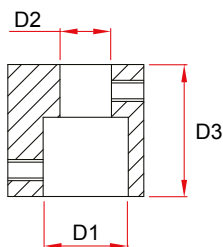
Barrel Receiver

	Size (D1)	Fixing (D2)	kg
T50820	Ø48mm	M10	0.45kg
T50825	Ø48mm	M12	0.45kg
T50830	Ø51mm (Ø2")	M10	0.45kg
T50835	Ø51mm (Ø2")	M12	0.45kg



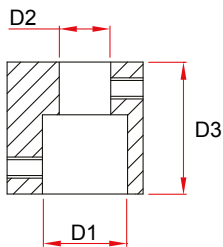
Mounting for 19mm Spigot

T50900	
WLL	N/A
D1	Ø32mm (Ø1.25")
D2	Ø19mm Receiver
D3	50mm
kg	0.24kg



Mounting for 19mm Spigot

T50901	
WLL	N/A
D1	Ø38.1mm (Ø1.50")
D2	Ø19mm Receiver
D3	50mm
Kg	0.20kg

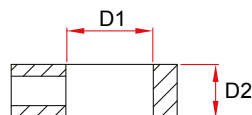


Safety Collar

T53000	
D1	Ø32mm (Ø1.25")
D2	20mm

T53100

D1	Ø38mm (Ø1.50")
D2	20mm





Ramsa / Bose Adaptor

T52600

WLL	N/A
D1	Ø32mm (Ø1.25")
D2	152mm
D3	80mm
D4	56mm
kg	0.49kg



Speaker Internal Housing

T52200

D1	Ø32mm (Ø1.25")
D2	Ø41mm

T52201

D1	Ø35mm
D2	Ø41mm



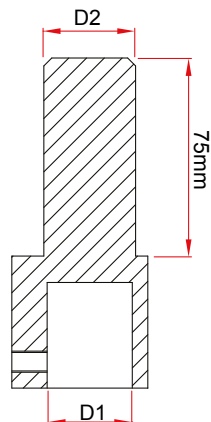
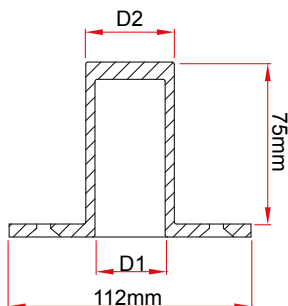
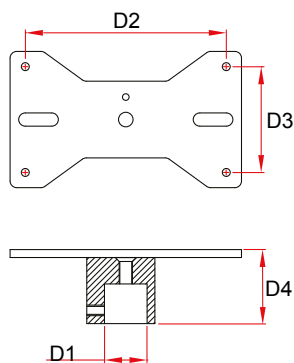
Speaker Adaptor 35mm

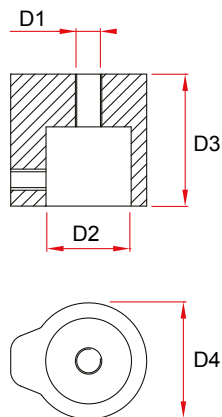
T51000

D1	Ø32mm (Ø1.25")
D2	Ø35mm

T51100

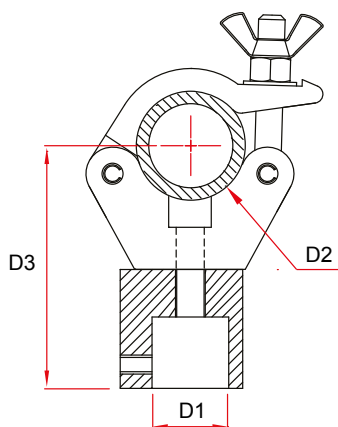
D1	Ø38mm (Ø1.50")
D2	Ø35mm





Bolt Fixing for Tee Bar

	D1	D2	D3	D4	
T50810	M10	Ø32mm (Ø1.25")	50mm	44mm	
T50811	M10	Ø38mm (Ø1.50")	50mm	44mm	(Club 14/22)
T50812	M12	Ø32mm (Ø1.25")	50mm	44mm	
T50813	M12	Ø38mm (Ø1.50")	50mm	44mm	(Club 14/22)
T50814	M10	Ø35mm	50mm	44mm	(35mm)



2" Tee Bar Stand Top

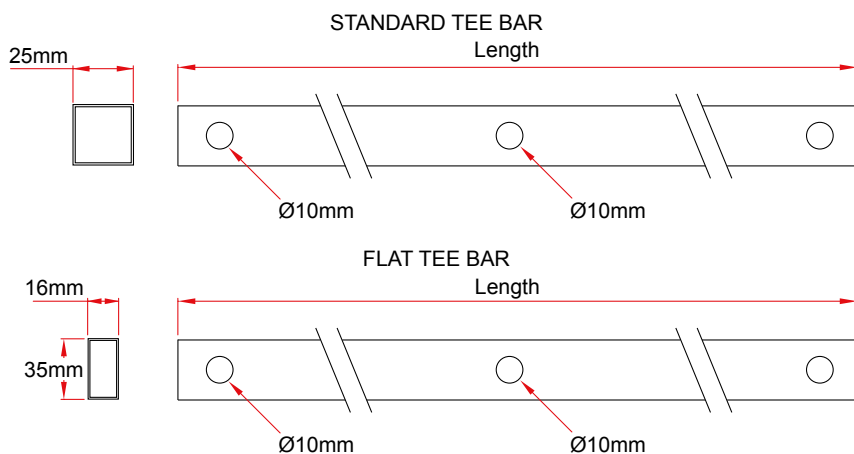
	D1	D2	D3	kg
T57220	Ø32mm (Ø1.25")	Ø48 - 51mm	105mm	0.88kg

The Stand Adaptor enables a Ø48 - 51mm tube to be mounted to a stand with a Ø32mm (1.25") riser. Ideal for heavy duty tee bars where lamps are used with their own mounting clamps.



Tee Bars (supplied with lamp fixings)

		Finish	Lamp Holes	Length	kg
T43000	2 Lantern	Zinc Plated	2	750 mm	0.81kg
T43001	2 Lantern	Black Powder Paint	2	750 mm	0.80kg
T43003	2 Lantern (Flat)	Zinc Plated	2	750 mm	0.79kg
T43100	4 Lantern	Zinc Plated	4	1250 mm	1.38kg
T43101	4 Lantern	Black Powder Paint	4	1250 mm	1.41kg
T43103	4 Lantern (Flat)	Zinc Plated	4	1250 mm	1.36kg
T43200	6 Lantern	Zinc Plated	6	1600 mm	1.79kg
T43201	6 Lantern	Black Powder Paint	6	1600 mm	1.82kg
T43203	6 Lantern (Flat)	Zinc Plated	6	1600 mm	1.73kg



Stands

Club Stands - High quality tripod stands finished in zinc plate.

Studio Stands - Professional range of tripod stands with a chrome finish.

Combo Stands - TV specification stand complete with multihead top and a lazy leg.

Roller Stands - TV specification stand complete with multihead top and castors.

Wind Up Stands - Medium duty winch operated lighting stands.

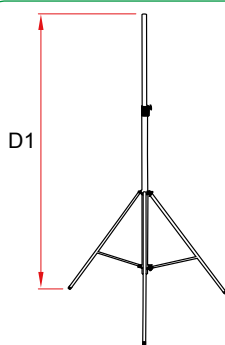
Winch Stands - Heavy duty winch operated stands for lifting truss etc.

Followspot Stands - Designed to give a high degree of stability with followspots.

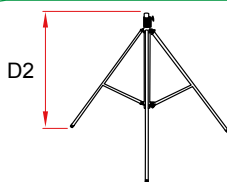
"C" Stands - Range of turtle based stands complete with 16mm spigot.

Music Stands - Professional range of music stands designed for orchestras, music schools and rental companies.

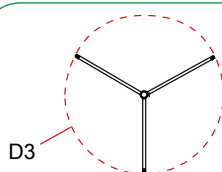




D1



D2



D3

- Compact steel and aluminium construction
- Die cast aluminium lock off knobs
- Finished in high quality zinc plate or satin black powder paint
- Non slip rubber feet
- Internal safety stops



Ø32mm (Ø1.25")
Top Tube



Club = Silver (zinc)
Nightclub = Black

T49200	Club 25
T49465	Nightclub 25
Top Tube	Ø32mm (Ø1.25")
WLL	25kg
D1	2.50m
D2	1.24m
D3	1.34m
	1.23m
kg	5.80kg

T49300	Club 35
T49470	Nightclub 35
Top Tube	Ø32mm (Ø1.25")
WLL	25kg
D1	3.50m
D2	1.64m
D3	1.60m
	1.63m
kg	7.20kg

T49400	Club 475
T49475	Nightclub 475
Top Tube	Ø32mm (Ø1.25")
WLL	25kg
D1	4.75m
D2	2.88m
D3	1.6m
	2.88m
kg	8.80kg



Ø32mm (Ø1.25")
Top Tube

Studio = Chrome
Shadow = Black

D1


D2

D3

- Chrome steel and aluminium construction
- Internal spring dampers
- Internal safety stops
- Double leg braces
- Die cast aluminium 'lock off' knobs
- Locking castors (optional)


T51800 Studio Comet

T51801 Shadow Comet

Top Tube	Ø32mm (Ø1.25")
WLL	30kg
D1	2.14m
D2	1.34m
D3	1.15m
	1.16m
kg	7.10kg


T51600 Studio Neutron

T51601 Shadow Neutron

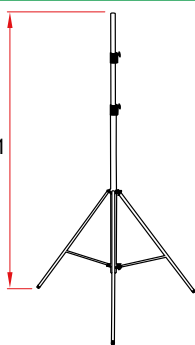
Top Tube	Ø32mm (Ø1.25")
WLL	30kg
D1	2.50m
D2	1.50m
D3	1.34m
	1.24m
kg	7.74kg

T51200 Studio Nova

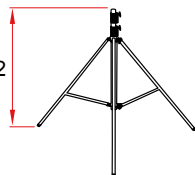
T51201 Shadow Nova

Top Tube	Ø32mm (Ø1.25")
WLL	30kg
D1	3.50m
D2	1.63m
D3	1.62m
	1.63m
kg	8.88kg

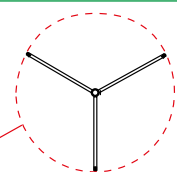
D1



D2



D3



- Chrome steel and aluminium construction
- Internal spring dampers
- Internal safety stops
- Double leg braces
- Die cast aluminium 'lock off' knobs
- Locking castors (optional)

Studio = Chrome
Shadow = Black

Ø32mm (Ø1.25")
Top Tube



T51900	Studio 2000
T51901	Shadow 2000
Top Tube	Ø32mm (Ø1.25")
WLL	40kg
D1	2.00m
D2	1.00m
D3	1.06m
≡	1.11m
kg	7.00kg

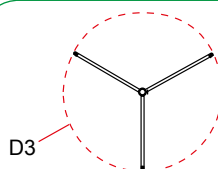
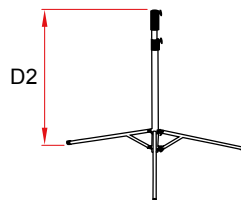
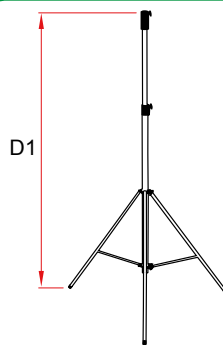
T52000	Studio 3500
T52001	Shadow 3500
Top Tube	Ø32mm (Ø1.25")
WLL	40kg
D1	3.50m
D2	1.32m
D3	1.47m
≡	1.31m
kg	10.70kg

T52100	Studio 5000
T52101	Shadow 5000
Top Tube	Ø32mm (Ø1.25")
WLL	40kg
D1	5.00m
D2	1.72m
D3	1.75m
≡	1.72m
kg	13.61kg




G2060 Three Function
Multihead Top fitted to
all Combo stands

Shadow = Black




G2030 Mini Combo

G203001 Shadow

WLL	30kg
D1	1.12m
D2	0.72m
D3	0.72m
	0.72m
kg	4.80kg


G2031 Pee Wee

G203101 Shadow

WLL	30kg
D1	1.75m
D2	0.78m
D3	0.72m
	0.78m
kg	5.70kg


G2035 Cine Combo

G203501 Shadow

WLL	20kg
D1	2.16m
D2	1.17m
D3	1.15m
	1.17m
kg	7.80kg


G2036 Cine Hi-Combo

G203601 Shadow

WLL	30kg
D1	3.16m
D2	1.23m
D3	1.15m
	1.23m
kg	9.50kg


G2040 Lowboy Combo

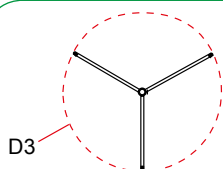
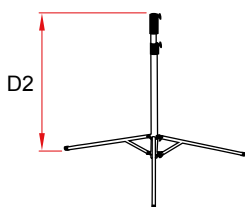
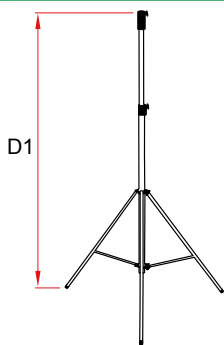
G204001 Shadow

WLL	40kg
D1	2.40m
D2	1.10m
D3	0.85m
	1.08m
kg	9.30kg

G2045 Combo

G204501 Shadow

WLL	40kg
D1	3.62m
D2	1.43m
D3	1.47m
	1.43m
kg	12.30kg





- Lazy leg for use on uneven surfaces
- Three function multihead
- Double leg braces
- Non slip rubber feet
- Internal spring dampers
- Chrome or Shadow range




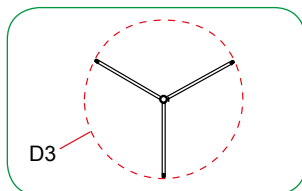
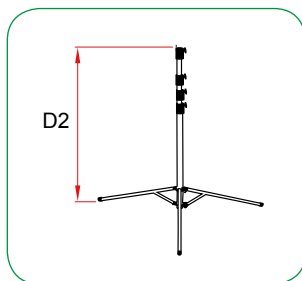
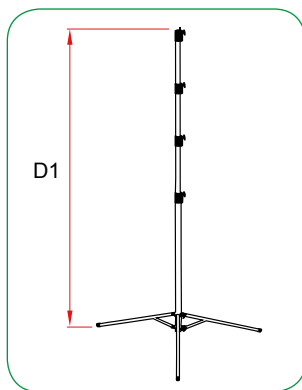
G2060 Three Function Multihead Top fitted to all Combo stands


Shadow = Black


G2046	Hi-Combo
G204601	Shadow
WLL	40kg
D1	4.80m
D2	1.49m
D3	1.47m
	1.49m
kg	13.70kg


G2050	Wide Base Hi-Combo
G205001	Shadow
WLL	40kg
D1	5.12m
D2	1.83m
D3	1.75m
	1.83m
kg	15.30kg


G2051	Wide Base Hi-Hi-Combo
G205101	Shadow
WLL	40kg
D1	6.70m
D2	1.89m
D3	1.75m
	1.89m
kg	17.10kg



Baby Roller	
G2070	Chrome
G207001	Shadow
WLL	30kg
D1	2.14m
D2	1.17m
D3	1.04m
	1.34m
kg	9.95kg

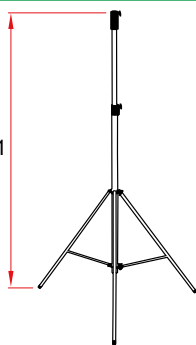
Baby Hi Roller	
G2071	Chrome
G207101	Shadow
WLL	30kg
D1	3.14m
D2	1.28m
D3	1.04m
	1.45m
kg	11.30kg

Junior Roller	
G2075	Chrome
G207501	Shadow
WLL	40kg
D1	3.50m
D2	1.47m
D3	1.55m
	1.59m
kg	15.80kg

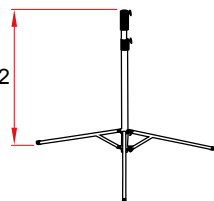
Junior Hi Roller	
G2076	Chrome
G207601	Shadow
WLL	40kg
D1	4.61m
D2	1.53m
D3	1.55m
	1.65m
kg	17.10kg

- Low profile ultra wide base
- Fitted with multihead
- Fully locking 100mm castors supplied as standard
- Heavy duty chrome and polished aluminium finish
- Die cast aluminium 'lock off' knobs
- Internal spring dampers
- No finger trap between castings
- Shadow range available

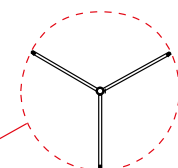
D1



D2



D3




G1200 Large Griphead
fitted to all
Overhead stands


Wide Base

Standard Base


G2080 Overhead**G208001 Shadow**

WLL	40kg
D1	4.52m
D2	1.48m
D3	1.50m
	1.48m
kg	12.80kg


G2086 Hi-Roller**G208601 Shadow**

WLL	40kg
D1	6.37m
D2	1.89m
D3	1.55m
	2.01m
kg	15.70kg


G2081 Hi-Overhead**G208101 Shadow**

WLL	40kg
D1	6.37m
D2	1.89m
D3	1.50m
	1.89m
kg	15.20kg


G2090 Wide Base**G209001 Shadow**

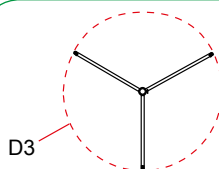
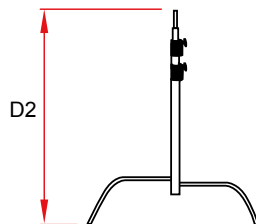
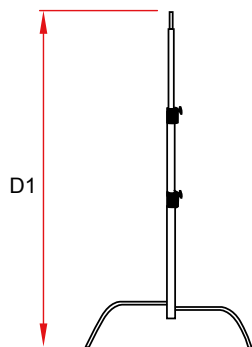
WLL	40kg
D1	5.12m
D2	1.83m
D3	1.75m
	1.83m
kg	15.60kg

G2085 Roller Overhead**G208501 Shadow**


WLL	40kg
D1	4.61m
D2	1.53m
D3	1.55m
	1.65m
kg	15.30kg


G2091 Wide Base Hi**G209101 Shadow**


WLL	40kg
D1	6.70m
D2	1.89m
D3	1.75m
	1.89m
kg	17.50kg




- Spring loaded folding base
- Sliding leg for uneven surfaces
- Integral 16mm spigot
- Internal spring dampers
- No finger trap between castings

20" C Stand	
G2005	Chrome
G200501	Shadow
WLL	10kg
D1	1.70m
D2	0.88m
D3	0.95m
	0.88m
kg	6.20kg

30" C Stand	
G2006	Chrome
G200601	Shadow
WLL	10kg
D1	2.50m
D2	1.18m
D3	0.95m
	1.18m
kg	6.80kg

40" C Stand	
G2007	Chrome
G200701	Shadow
WLL	10kg
D1	3.26m
D2	1.39m
D3	0.95m
	1.39m
kg	8.00kg

60" C Stand	
G2008	Chrome
G200801	Shadow
WLL	10kg
D1	4.80m
D2	1.90m
D3	0.95m
	1.90m
kg	8.80kg

29mm Receiver
fitted to all
Nebula stands






Shadow = Black

D1

D2

D3

- Slimline self-braking winch
- Robust steel and aluminium construction
- Internal and external safety stops
- Non slip rubber feet
- Double leg braces
- Die cast 'lock off' knobs

Nebula 20		Nebula 33		Nebula 42	
T55110	Chrome	T55200	Chrome	T55500	Chrome
T55111	Shadow	T55201	Shadow	T55501	Shadow
WLL	60kg	WLL	60kg	WLL	60kg
D1	2.24m	D1	3.30m	D1	4.20m
D2	1.31m	D2	1.70m	D2	2.10m
D3	1.06m	D3	1.47m	D3	1.75m
	1.31m		1.70m		2.31m
kg	11.00kg	kg	13.00kg	kg	17.00kg

Easylift

T55510 Chrome

T55511 Black

WLL 30kg

D1 3.80m

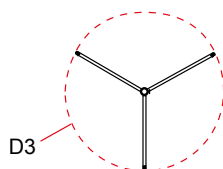
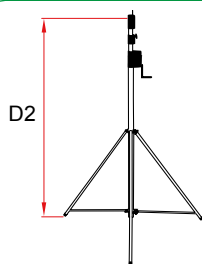
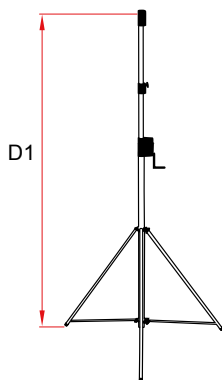
D2 1.74m

D3 1.24m

 1.86m

kg 22.00kg

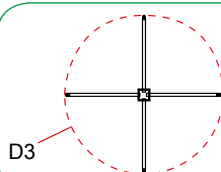
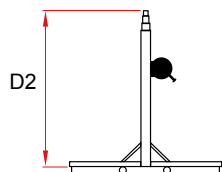
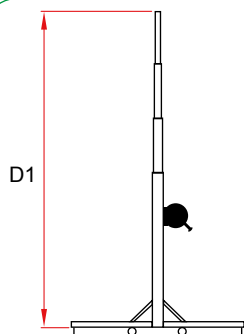
- Accepts 16 & 28 mm spigots
- Unique auto safety lock
- Self braking clutch/winch
- Fold away winch handle



T50503

Castor Kit (Easylift)






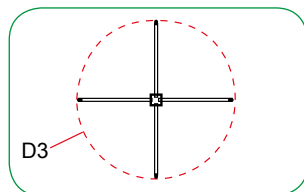
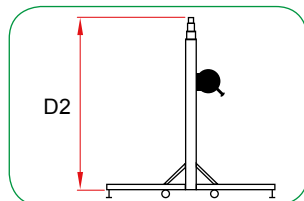
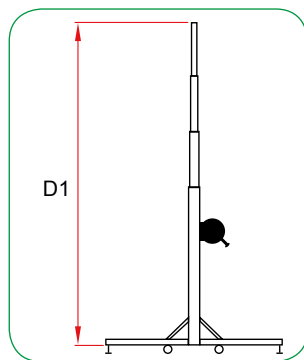
- Four sections giving a low loading height
- A unique self locking system
- Single person operation
- Accepts standard 28mm spigots
- Powder coated finish

Strata Mk II Winch Stand

T55567

Strata 515R

WLL	150kg
D1	5.22m
D2	1.73m
D3	1.96m
	1.85m
kg	47.00kg

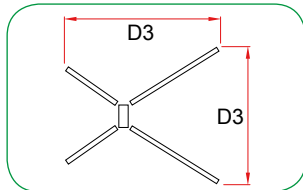
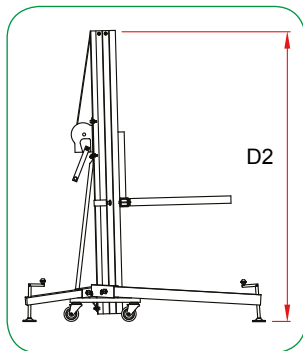
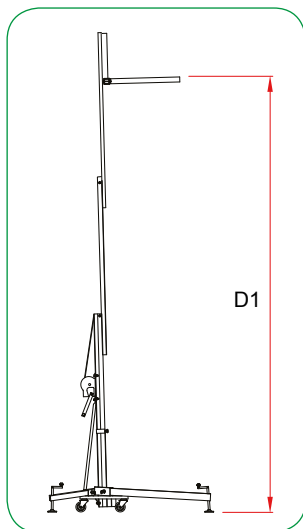


- Four sections giving a low loading height
- A unique self locking system
- Single person operation
- Accepts standard 28mm spigots
- Powder coated finish



Zenith MkIV Truss Lift

T55580	Zenith 520R	T55590	Zenith 620R
WLL	200kg	WLL	200kg
D1	5.37m	D1	6.23m
D2	1.85m	D2	2.06m
D3	2.15m	D3	2.15m
	1.85m		2.06m
kg	93.50kg	kg	99.50kg

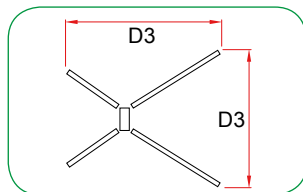
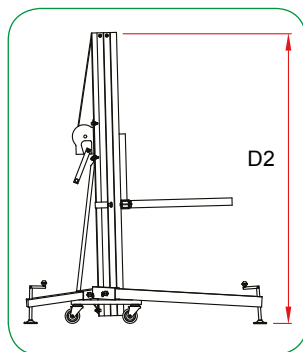
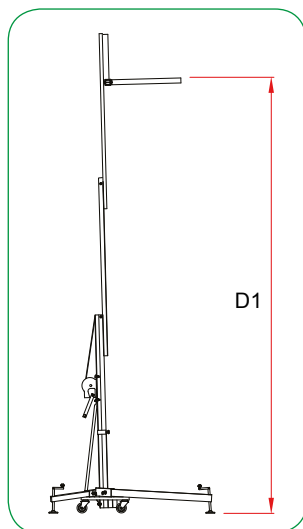


Pegasus 550

T55600

WLL	220kg
D1	5.45m
D2	1.7m
D3	2.0m
kg	87.00kg

Note: The WLL stated is with the center of the load 250mm from the mast face. The WLL decreases as the load moves away from the mast. See the manual or data sheet for full details.

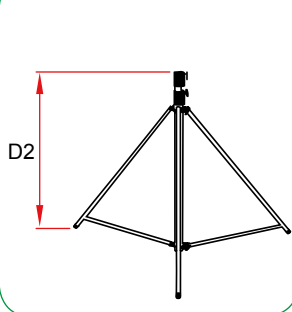
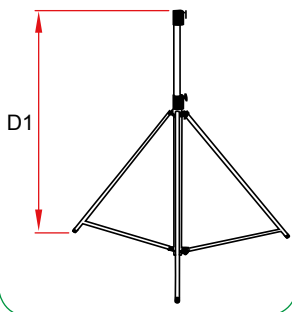



Pegasus 650

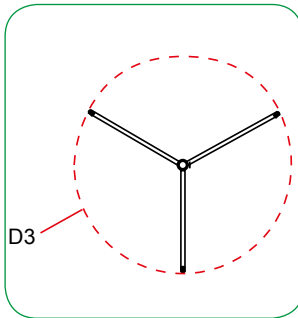
T55610

WLL	240kg
D1	6.5m
D2	2.0m
D3	2.2m
kg	114.00kg

Note: The WLL stated is with the center of the load 250mm from the mast face. The WLL decreases as the load moves away from the mast. See the manual or data sheet for full details.



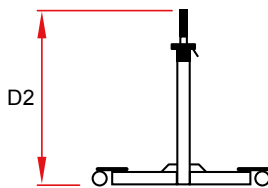
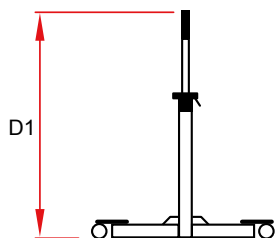
T51700	Followspot
T51701	Shadow
WLL	40kg
D1	1.41m
D2	0.88m
D3	1.06m
	1.03m
kg	5.90kg



T74200	Euro spec
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


29mm Receiver



Professional Followspot

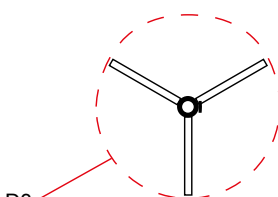
T54402

WLL	75kg
D1	1.30m
D2	0.76m
D3	0.88m
	0.73m
kg	20.00kg



T72700

Euro spec



D3

- High degree of stability
- Rapidly dismantled for transportation
- Positive lock height adjustment
- Suitable for use with a variety of followspots
- Steel and aluminium construction
- Black powder coated finish

Spigots

A complete range of spigots and adaptors for use in studios, theatres and entertainment venues.

Universal standards of 28mm and 16mm spigots and adaptors manufactured from chromed plated steel and polished aluminium.

All spigots are supplied to Euro specification unless otherwise stated.

Special spigots are available on request.





T74300 - M10 Steel
T74302 - M10 Aluminium
T74301 - M12 Steel
T74303 - M12 Aluminium



T74700 - M10 Steel
T74705 - M10 Aluminium
T74710 - M12 Steel
T74500 - M12 Aluminium



T73000 - M10 Steel
T73100 - M12 Steel

Female TV Spigot

Euro Spec

D1	115mm
D2	M10/M12
D3	40mm
D4	Ø28mm
D5	4mm
D6	30mm
kg	0.50kg

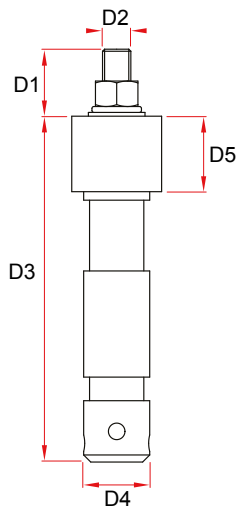
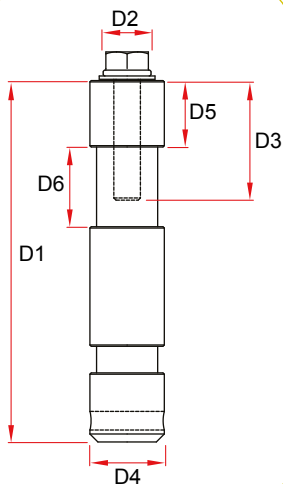
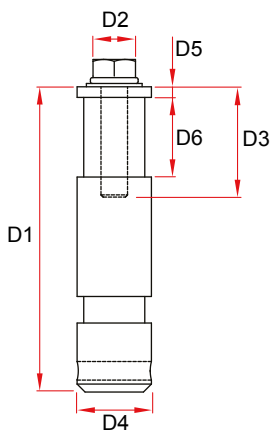
Female TV Spigot

Long Shank

D1	136mm
D2	M10/M12
D3	40mm
D4	Ø28mm
D5	25mm
D6	30mm
kg	0.59kg

TV Spigot

D1	28mm
D2	M10/M12
D3	147mm
D4	Ø28mm
D5	32mm
kg	0.79kg





T73102 - M10
T73103 - M12



T72700



T74200

Spigot Cap

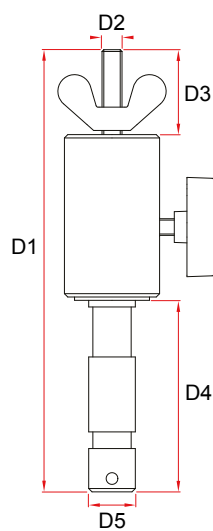
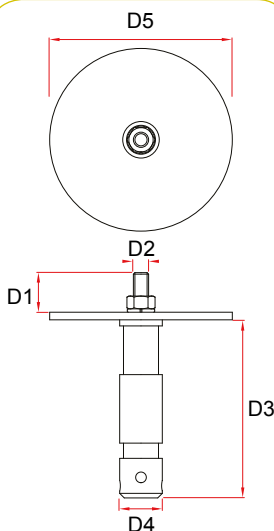
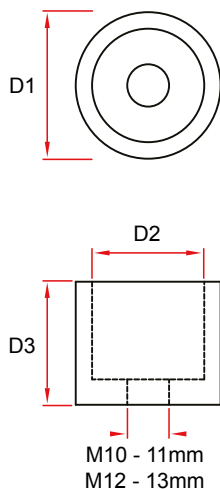
D1	Ø38.1mm
D2	Ø29mm
D3	32mm
kg	0.14kg

TV Spigot with Followspot Plate

D1	26mm
D2	M10
D3	117mm
D4	Ø28mm
D5	120mm
kg	0.97kg

Roller Race TV Spigot

D1	265mm
D2	M12
D3	51mm
D4	115mm
D5	Ø28mm
kg	2.5kg





T74400



T73400 - M10 Aluminium
T73401 - M10 Steel
T73500 - M12 Aluminium
T73501 - M12 Steel



T73350 - M10 Female Aluminium
T73360 - M12 Female Aluminium

35mm Speaker Spigot

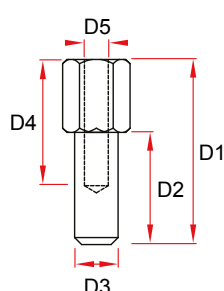
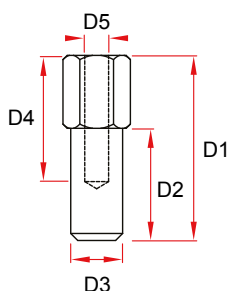
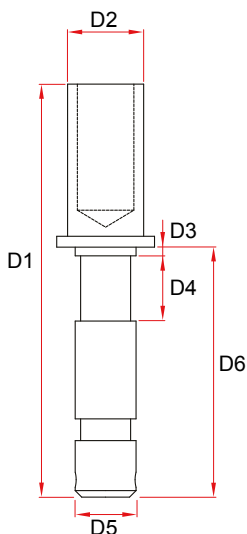
D1	190mm
D2	Ø35mm
D3	4mm
D4	30mm
D5	Ø28mm
D6	115mm
kg	0.76kg

Standard Spigot

D1	66mm
D2	40mm
D3	Ø19mm
D4	45mm
D5	M10/M12
kg	0.13kg

Female 16mm Spigot

D1	66mm
D2	40mm
D3	Ø16mm
D4	45mm
D5	M10/M12
kg	0.04kg





T73900 - Steel



T73370 - M8 Female Aluminium
T73380 - M10 Female Aluminium



T73390 - M10 Female Aluminium
T73391 - M6 Female Aluminium
T73392 - M12 Female Aluminium

Mini Spigot (16mm)

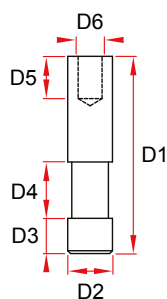
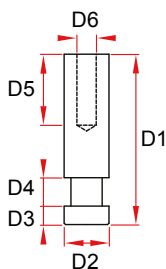
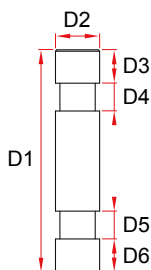
D1	80mm
D2	Ø16mm
D3	12mm
D4	10mm
D5	10mm
D6	12mm
kg	0.11kg

Female 16mm Solo Spigot

D1	60mm
D2	Ø16.0mm
D3	6.5mm
D4	10mm
D5	25mm
D6	M8/M10
kg	0.03kg

16mm 'Beamer' Spigot

D1	70mm
D2	Ø16mm
D3	12.5mm
D4	20mm
D5	15mm
D6	M6/M10/M12
kg	0.03kg





G1188 - Stainless steel



G1198 - Steel
G1199 - Aluminium



G1196 - Steel
G1195 - Aluminium

16mm Spigot (Male)

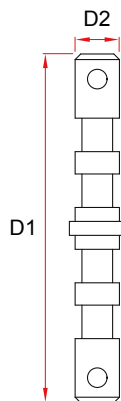
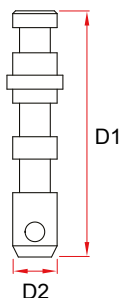
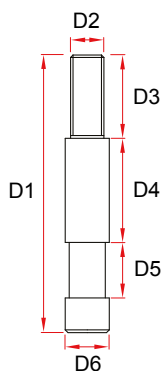
D1	100mm
D2	M12
D3	30mm
D4	37.5mm
D5	20mm
D6	Ø16mm
kg	0.02kg

Spigot 16 x 16mm Lighting

D1	88mm
D2	Ø16mm
kg	0.11kg

Spigot 16 x 16mm Grip

D1	125mm
D2	Ø16mm
kg	0.15kg



3 Point Receiver

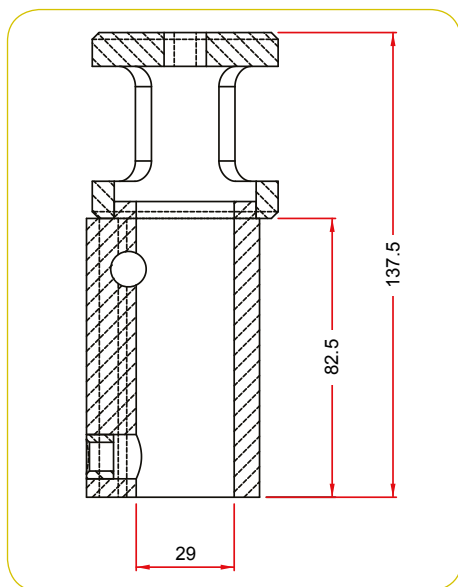
Manufactured from high tensile aluminium and designed with a leading TV/Grip supplier, the 3 Point Receiver has been carefully designed to incorporate the following safety points:

1. A 6mm diameter pin designed to take the initial load quickly and safely
2. Our standard sword pin which allows 360° rotation
3. A Doughty knob which enables the luminaire to be locked at a chosen point of rotation

T84300 - Black

T84310 - Silver

WLL 100 kg



The 3 Point Receiver has a WLL of 100kg and accepts 28mm (1 $\frac{1}{8}$ ") spigots of either Euro or DIN spec.

This receiver can be factory fitted to the majority of our aluminium clamp range and is also fitted to pantographs as standard.

There is a 12mm mounting hole for use with clamps and two 6mm holes for other applications.

Receivers can be fitted by an Authorised Service Agent.

The 3 Point Receiver is also a key part of our Studio Rail System fitted to the 6 wheel carriages.

Available either powder coated black or as polished aluminium.



T74100 - 29mm x 16mm
T74000 - 29mm x 19mm



T73800



T74307 - M10
T74308 - M12

Adaptor TV

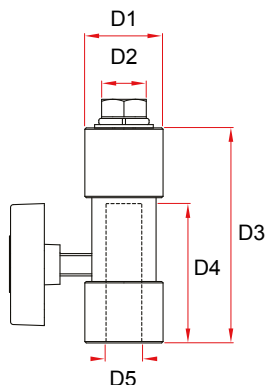
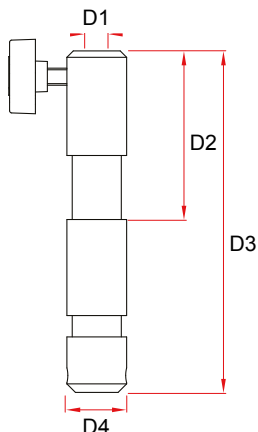
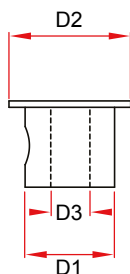
D1	Ø28mm
D2	Ø38.1mm
D3	Ø16.5 - 19.5mm
kg	0.90kg

Reducer 28 x 16mm

D1	Ø16.5mm
D2	80mm
D3	160mm
D4	Ø28mm
kg	0.60 g

Adaptor TV Standard

D1	Ø28mm
D2	M10 or M12
D3	77mm
D4	50mm
D5	Ø16.5mm
kg	0.33kg





G1190 - Steel
G1191 - Aluminium



G1189

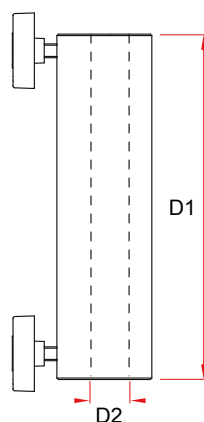
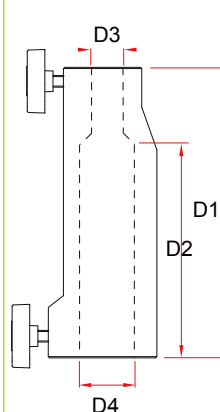
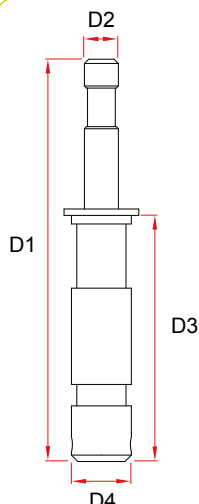
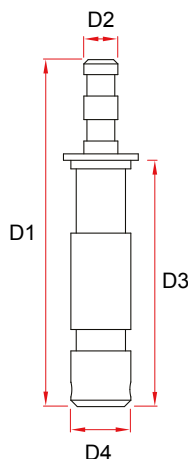


G1002
29mm x 16mm



G1003
16mm x 16mm

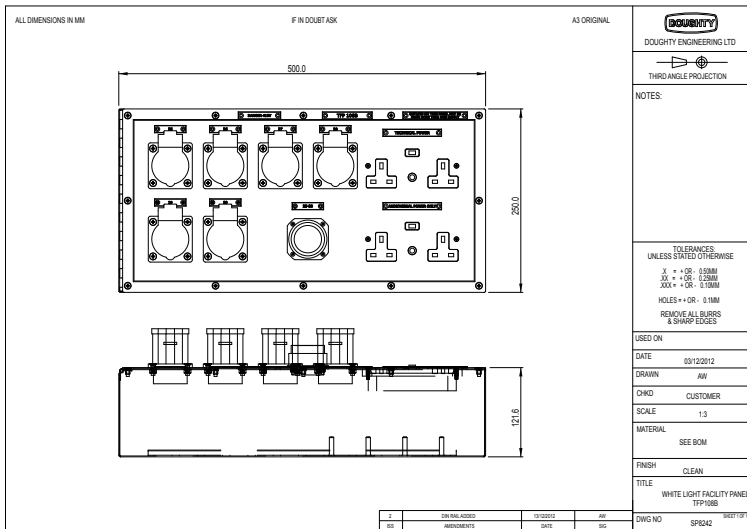
Lighting Spigot		Stand Adaptor		Socket Adaptor		Socket Adaptor	
28 x 16mm		28 x 16mm		29 x 16mm		16 x 16mm	
D1	162mm	D1	188mm	D1	170mm	D1	145mm
D2	Ø16mm	D2	Ø16mm	D2	120mm	D2	Ø16.5mm
D3	115mm	D3	115mm	D3	Ø16.5mm	kg	0.34kg
D4	Ø28mm	D4	Ø28mm	D4	Ø29mm		
kg	0.56kg	kg	0.60kg	kg	0.43kg		



Bespoke Facility Panels

We manufacture high quality bespoke Facility Panels and Production Lighting Boxes in our UK factory and are happy to liaise with theatre consultants to ensure optimum realisation of designs or concepts.

Full production drawings featuring all components are produced for each panel, for client approval prior to production, saving time and ensuring total satisfaction.

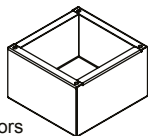


Standard Boxes

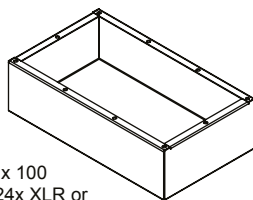
Standard Boxes are manufactured to the same exacting standards as our Bespoke panels, featuring fully seam welded 1.2mm construction, Satin Black powder paint finish and fitted with M4 nut-serts.

Front panels can be laser profiled with any connector type. If you wish to design your own panels, CAD files with blank front panels and a large selection of connector cut-outs are available upon request.

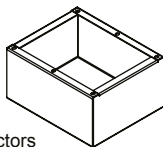
T78100
165 x 160 x 100
For up to 6x XLR or
1x 15/16A Power Connectors



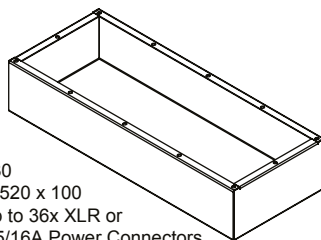
T78125
210 x 360 x 100
For up to 24x XLR or
8x 15/16A Power Connectors



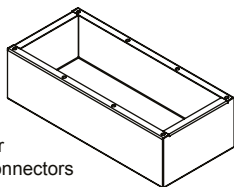
T78105
165 x 200 x 100
For up to 8x XLR or
2x 15/16A Power Connectors



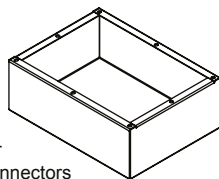
T78130
210 x 520 x 100
For up to 36x XLR or
12x 15/16A Power Connectors



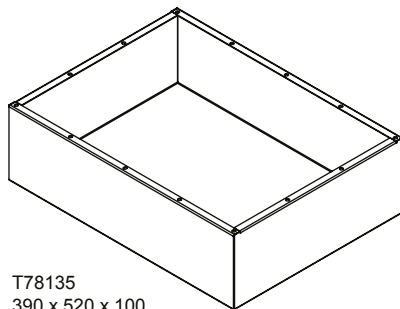
T78115
165 x 360 x 100
For up to 16x XLR or
4x 15/16A Power Connectors



T78120
210 x 280 x 100
For up to 18x XLR or
6x 15/16A Power Connectors



T78135
390 x 520 x 100
For up to 84x XLR or
24x 15/16A Power Connectors



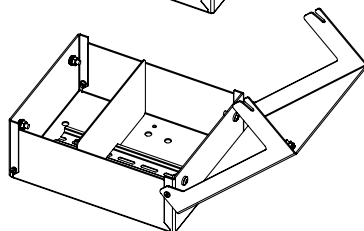
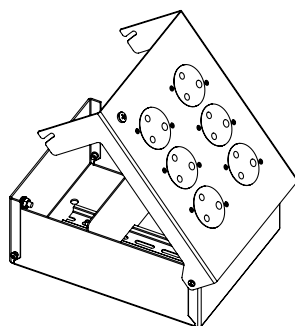
TOUGHBOX

Toughboxes are a modern evolution of the traditional Facility Panel or Socket Outlet Box.

The Toughbox construction allows for a hinge to be integrated into the front panel, and two returns create a very rigid socket mounting. The hinge can be specified on either side, or at the bottom or top of the panel, (Bespoke Panels). This hinge enables quicker on-site socket termination, and reduces potential cable strain in the process.

Bespoke Toughboxes can be specified to whatever size the application dictates, and are available with engraved labels, crash and tie bars, segregation plates, special paint finishes to list but a few options. Please contact us with any specialist applications, we are happy to discuss any ideas you may have.

Standard Toughboxes offer a variety of Power and Signal Outlets, and are available with or without connectors. Standard Toughboxes also feature a range of mounting holes in the back box, including holes to accept 'U'-bolts for barrel mounting, and Unistrut bolt holes for ceiling mounting.



Standard Toughboxes

T78210	Platform Termination Box	
T78225	8 x XLR	
T78230	8 x XLR	no connectors
T78235	6 x 15A	
T78240	6 x 15A	no connectors

Internally Wired Bars

The Doughty Internally Wired Bar range features a unique extruded side mounted terminal box allowing increased access. Sockets are mounted in tough injection moulded ABS socket boxes.

A full range of sockets is held in stock to ensure an efficient service is maintained. Physical Segregation is available for Data Connections etc.

All IWBs are made to order and we are able to offer a bespoke service to a customer's requirements.

Built and tested to the following standards:

- Low voltage directive (2006/95/EC)
- EN60065
- BS EN60059
- BS 7906-1:2003

Working Load Limits:

- 78kg uniformly distributed between 2 metre suspension points
- 39kg point load between 2 metre suspension points





13 Amp Socket



15 Amp Socket



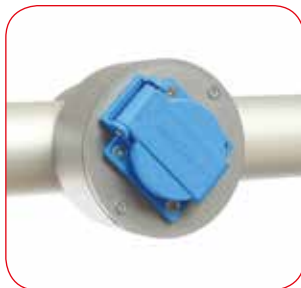
16 Amp Socket



XLR



RJ45



Schuko



Special Boxes



Socapex Termination



Engraved Labeling



Extruded Side Mounted Terminal Box



Mini Bar

Studio Rail 60

Studio Rail 60 is an extruded aluminium rail available with all the components necessary for a comprehensive overhead studio rail system.

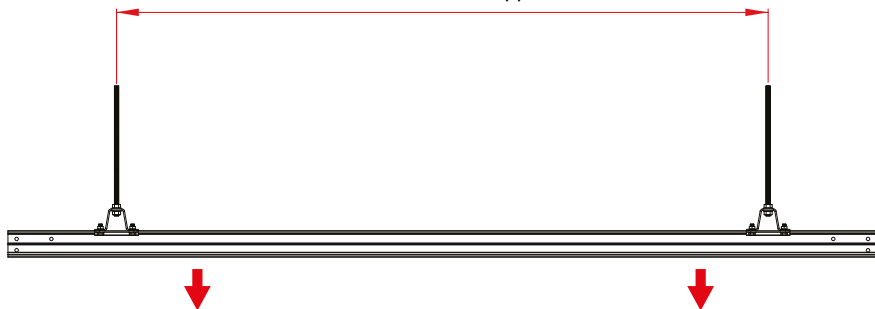
Available in a choice of natural aluminium or black anodised finish, Studio Rail features a unique joint pin system which aids rail alignment and installation.

Studio Rail is available in straight lengths from two to six metres and six standard radius curves with special curves made to order.

As with most Doughty products Studio Rail is manufactured in house. We hold an extensive range in stock for rapid delivery and are able to offer bespoke designs and components to suit individual customer requirements.

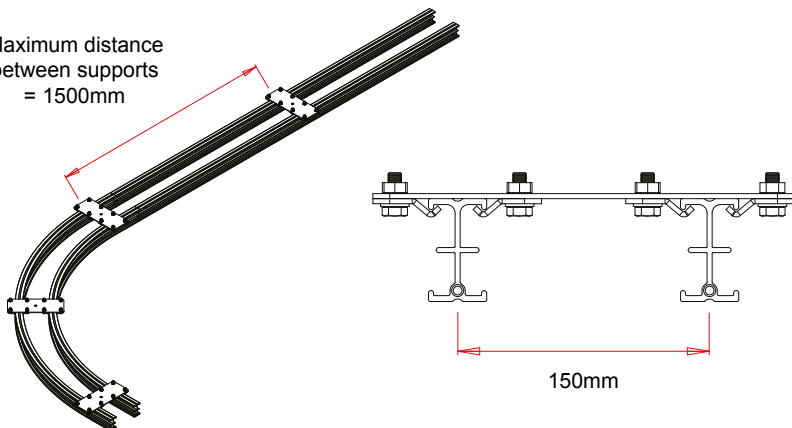


Maximum distance between supports = 1500mm

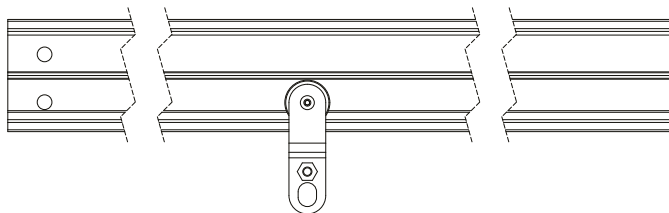
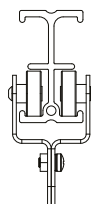


Maximum load between supports = 100 kg

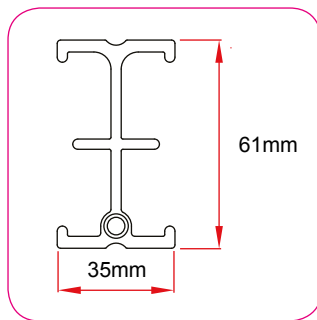
Maximum distance
between supports
= 1500mm



150mm

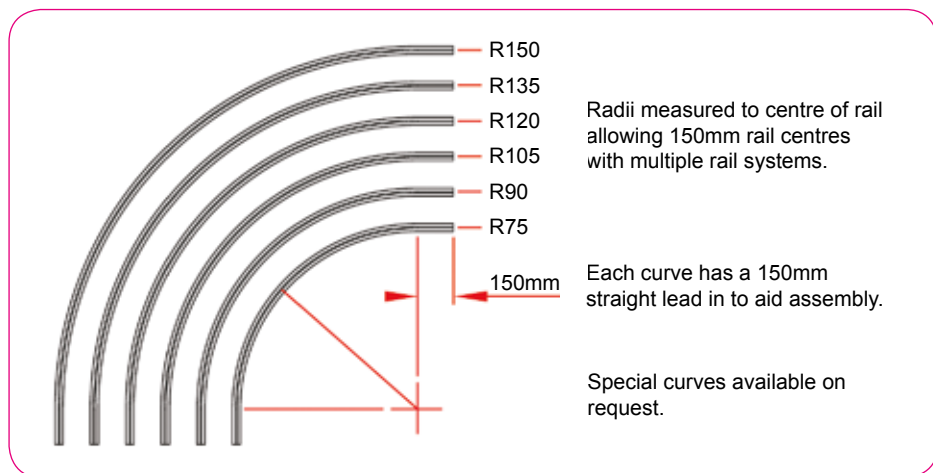


Recommended runner spacing = 300mm
WLL = 6 kg per runner



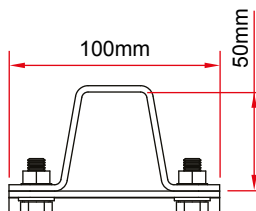
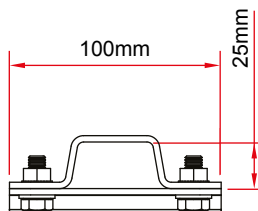
Straight Track

Silver			Black		
T84000	2m	2.90kg	T84035	2m	2.90kg
T84005	3m	4.30kg	T84040	3m	4.30kg
T84010	4m	5.80kg	T84045	4m	5.80kg
T84015	6m	8.60kg	T84050	6m	8.60kg



Curved Track 90°

Silver			Black		
T84017	R=75cm	2.15kg	T84052	R=75cm	2.15kg
T84018	R=90cm	2.49kg	T84053	R=90cm	2.49kg
T84019	R=105cm	2.83kg	T84054	R=105cm	2.83kg
T84020	R=120cm	3.18kg	T84055	R=120cm	3.18kg
T84025	R=135cm	3.51kg	T84060	R=135cm	3.51kg
T84030	R=150cm	3.85kg	T84065	R=150cm	3.85kg



Ceiling Bracket (25mm)

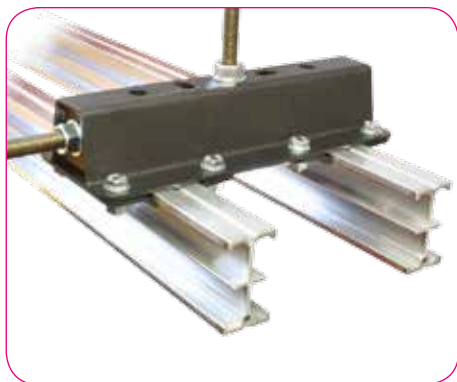
T84120	0.52kg
WLL	100kg

Accepts M10 or M12 fixings.
Supplied with Rail Clamps.

Ceiling Bracket (50mm)

T84121	0.60kg
WLL	100kg

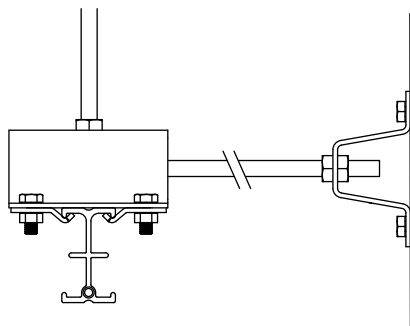
Accepts M10 or M12 fixings.
Supplied with Rail Clamps.

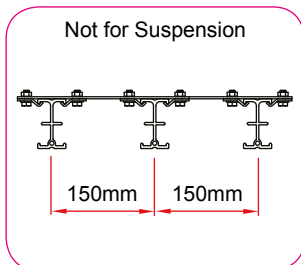
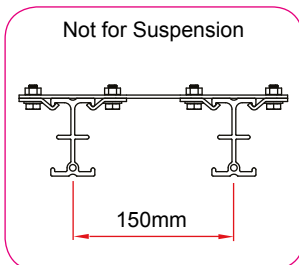
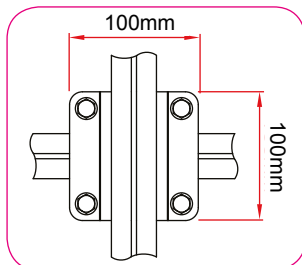


Ceiling Bracket with Wall Tie option

T84116	Single Rail Bracket	WLL 100kg
T84117	Double Rail Bracket	WLL 100kg
T84118	Triple Rail Bracket	WLL 100kg

Ideal for suspending twin or triple cyclorama rails. Can also be used to steady grids or cyclorama rails suspended on long stud drops.





90° Crossover Bracket

T84130	0.65kg
WLL	100kg

Supplied with 4 x Rail Clamps.

Spacer Plate (Double Rail)

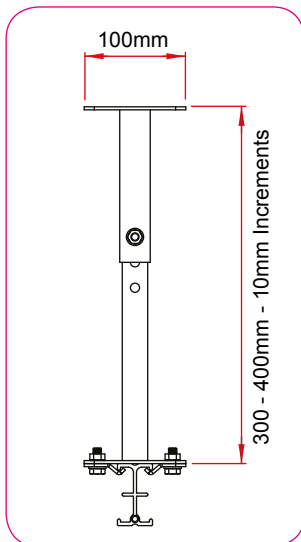
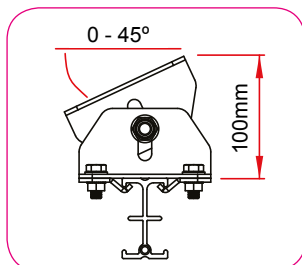
T84110	1.00kg
WLL	N/A

Supplied with 4 x Rail Clamps

Spacer Plate (Triple Rail)

T84115	1.30kg
WLL	N/A

Supplied with 6 x Rail Clamps.



Extension Bracket

T84165	0.90kg
WLL	100kg

Supplied with Rail Clamps.

Extension Bracket

T84160	1.35kg
WLL	100kg

Adjustable. Supplied with Rail Clamps.

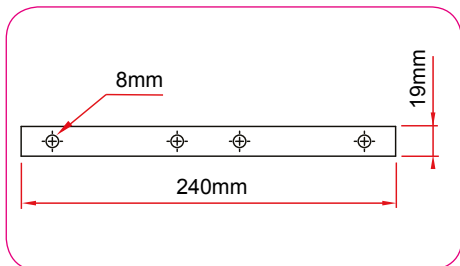


Studio Rail Spare Joint Pins x 5

T84075

0.04kg

The Joint Pins aid assembly and rail alignment.



Studio Rail Joiner Kit

T84070 Silver 0.20kg

T84071 Black 0.20kg

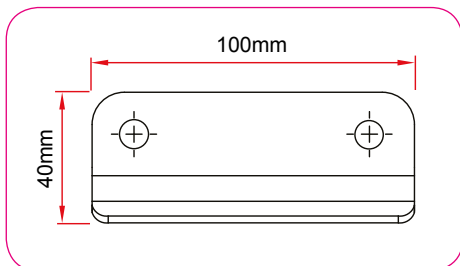
Supplied with Joint Pin.

Studio Rail End Stops x 4

T84080

0.13kg

A pair of nylon end stops, supplied as 4 sets.

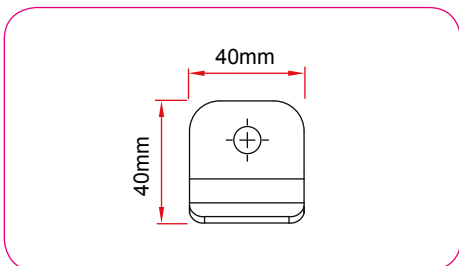


Studio Rail Clamps x 2

T84085

0.17kg

A pair of steel rail clamps can be used to clamp rail directly to a solid surface.

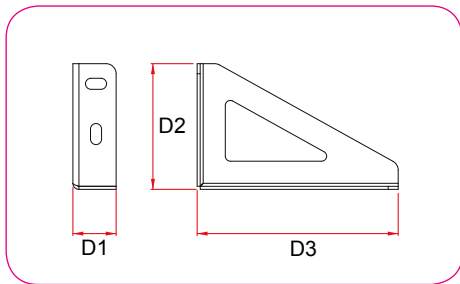


Studio Rail 40mm Clamps x 2

T84086

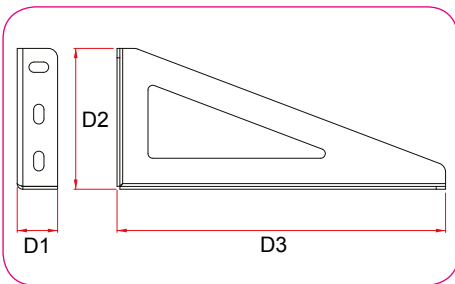
0.17kg

A pair of steel rail clamps can be used to clamp rail directly to a solid surface.



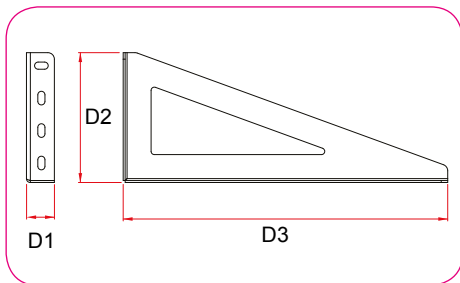
	WLL	D1	D2	D3	kg
T84105	25kg	43mm	125mm	200mm	0.55kg

Can be used with T84120 Ceiling Bracket.



	WLL	D1	D2	D3	kg
T84106	25kg	43mm	150mm	350mm	0.90kg

Can be used with T84120 Ceiling Bracket.



	WLL	D1	D2	D3	kg
T84107	25kg	43mm	200mm	500mm	1.50kg

Can be used with T84120 Ceiling Bracket.



Cable Car x 5

T84220 WLL 6kg

Steel frame with bearings.



Curtain Car x 5

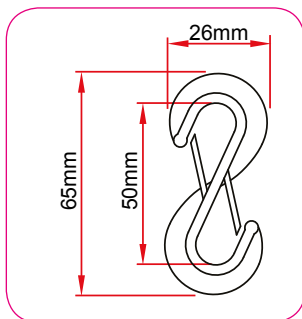
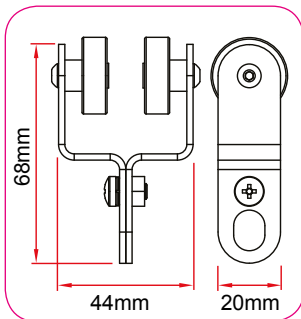
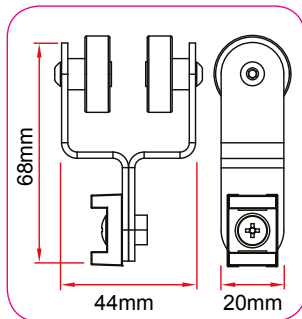
T84225 WLL 6kg

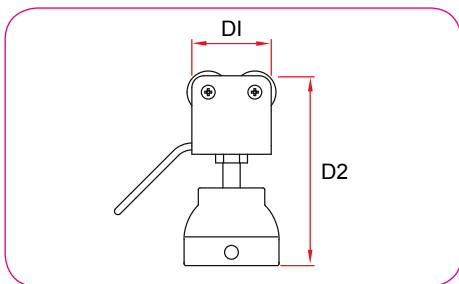
Steel frame with bearings.



Nylon Twin Hook

T63796 WLL 6kg

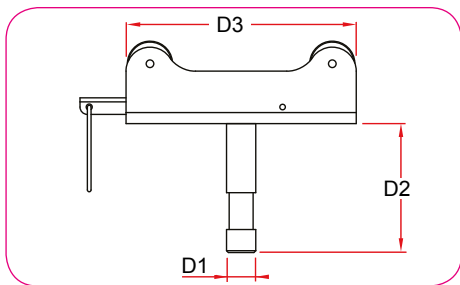




Cupped Curtain Brake

	WLL	D1	D2	kg
T84230	N/A	45mm	110mm	0.35kg

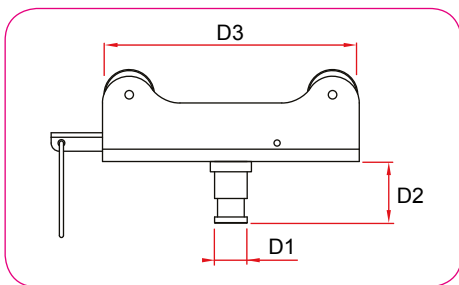
Predominantly used to anchor each end of a curtain.



4 Wheel Car (fitted with 5/8" spigot) (brake)

	WLL	D1	D2	D3	kg
T84185	50kg	16mm	70mm	125mm	0.50kg

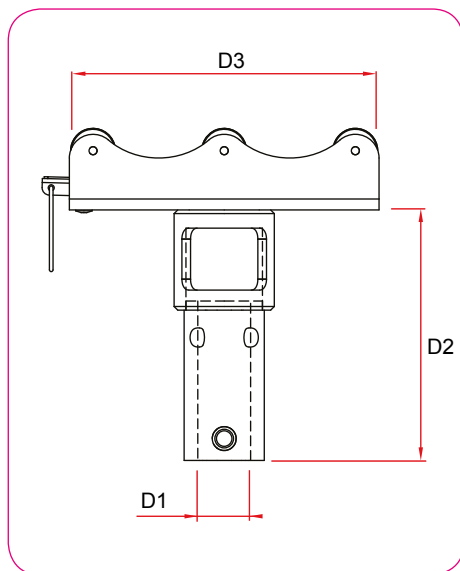
Designed to accept a 16mm receiver and fitted with a friction brake as standard.



4 Wheel Car (fitted with 5/8" mini spigot) (brake)

	WLL	D1	D2	D3	kg
T84186	50kg	16mm	30mm	125mm	0.45kg

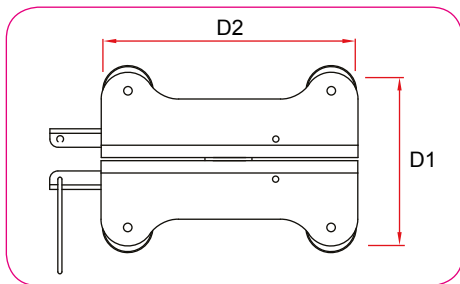
Designed to accept a 16mm receiver and fitted with a friction brake as standard.



6 Wheel Car 28mm Receiver Carriage

	WLL	D1	D2	D3	kg
T84205	100kg	29mm	138mm	170mm	1.10kg

A 6 wheel car fitted with a brake and 3 point 28mm receiver.

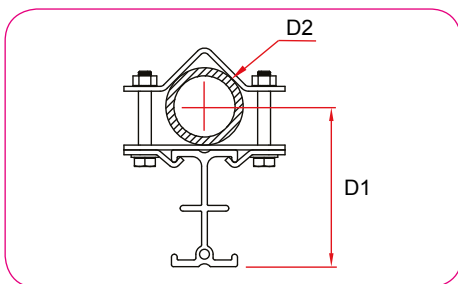


4 Wheel Double Swivel Car (brake)

	WLL	D1	D2	D3	kg
T84215	75kg	85mm	125mm	N/A	0.90kg

The double swivel carriage enables two rails to be mounted on top of one another. Ideal for use where two parallel rails are installed with cross rails to suspend the luminaires etc.





Studio Rail to Tube Bracket

	WLL	D1	D2	kg
T84180	100kg	100mm	48 - 51mm	0.80kg

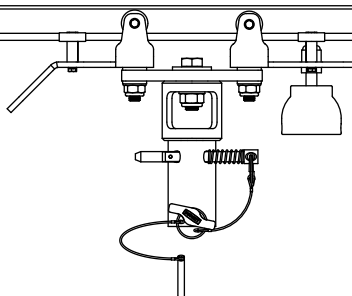
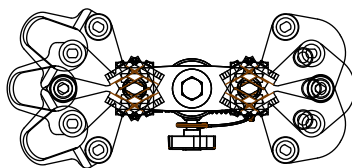
This bracket enables Studio Rail to be mounted to 48 - 51mm diameter tubes. Supplied with rail clamps.



Studio Rail Swivel Arm

T84515	Supplied fitted to a 6 wheel carriage	Working Load up to 25kg
T84516	Supplied with Ø25mm x 2m black tube	Working Load up to 25kg

Fitted to a 6 wheel carriage with friction brake the Swivel Arm's position can easily be adjusted on a length of Studio Rail. The Swivel Arm enables 360° positioning of leg / wing curtains or light scenery traditionally used to aid masking of wing space on stage from audience sight lines.



Studio Rail Articulated Carriage

T84217

WLL 200kg

The Studio Rail Articualted Carriage can used with any size radius curves.

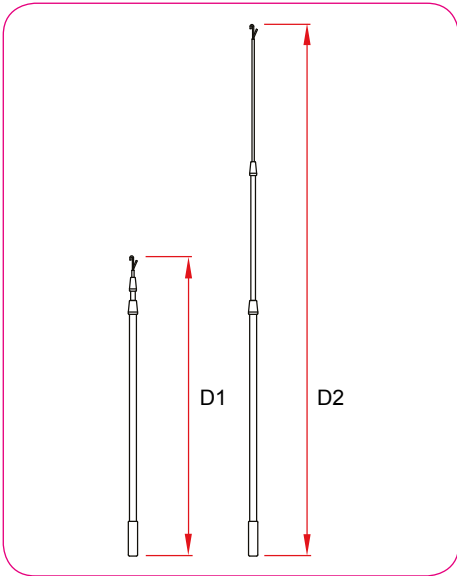


Studio Rail Drilling Jig

T84260

0.26kg

A CNC machined aluminum jig fitted with hardened drill bushes. This jig enables the installer to drill the joint holes in any cut pieces of rail accurately ensuring a correctly aligned joint.



Operating Poles

	WLL	D1	D2	D3	kg
T84249	N/A	1600mm	2800mm	N/A	1.00kg
T84250	N/A	2000mm	3700mm	N/A	1.20kg
T84251	N/A	2100mm	4600mm	N/A	1.40kg
T84252	N/A	2100mm	5500mm	N/A	1.80kg
T84253	N/A	2750mm	7400mm	N/A	2.20kg

A lightweight telescopic anodised aluminium operating pole fitted with a replaceable hook.

Studio Rail 80

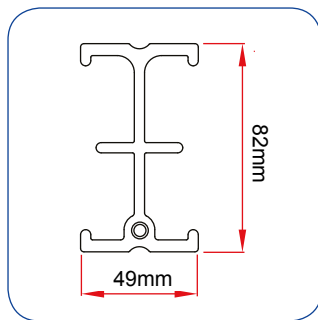
Studio Rail 80 is an extruded aluminium rail available with all the necessary components required to install a comprehensive overhead studio rail system.

Studio Rail 80 features a unique joint pin system which aids rail alignment and installation.

Studio Rail 80 is available in straight lengths from two to six metres and six standard radius curves with special curves made to order.

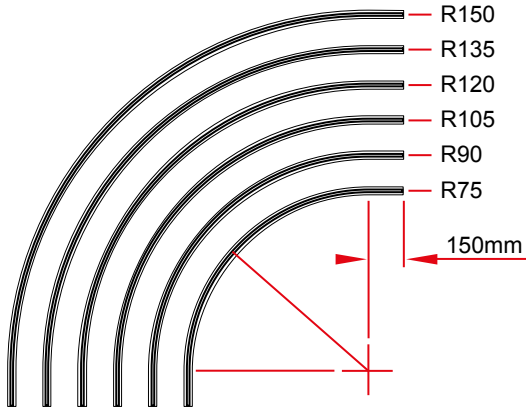
As with most Doughty products Studio Rail 80 is manufactured in house. We hold an extensive range in stock for rapid delivery and are able to offer special bespoke designs and components to customer requirements.





Straight Rail

Silver			Black		
T85000	2m	2.90kg	T85035	2m	2.90kg
T85005	3m	4.30kg	T85040	3m	4.30kg
T85010	4m	5.80kg	T85045	4m	5.80kg
T85015	6m	8.60kg	T85050	6m	8.60kg



Radii measured to centre of rail allowing 150mm rail centres with multiple rail systems.

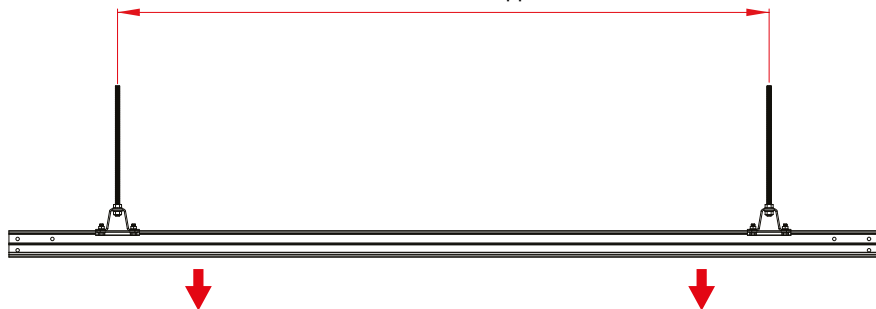
Each curve has a 150mm straight lead in to aid assembly.

Special curves available on request

Curved Track 90°

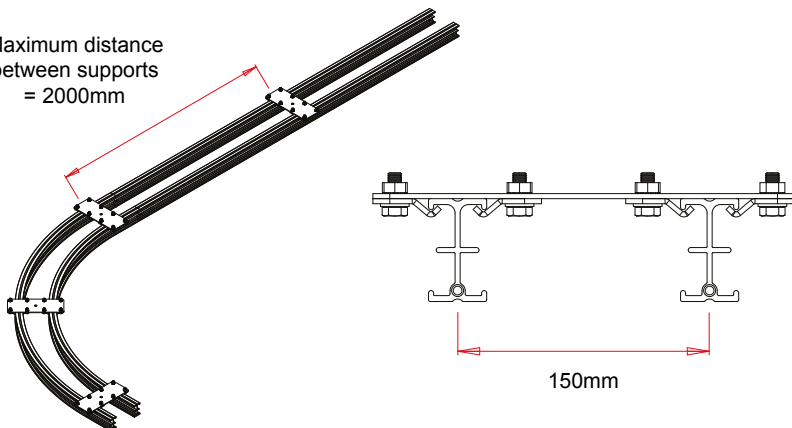
Silver			Black		
T85017	R=75cm	2.15kg	T85052	R=75cm	2.15kg
T85018	R=90cm	2.49kg	T85053	R=90cm	2.49kg
T85019	R=105cm	2.83kg	T85054	R=105cm	2.83kg
T85020	R=120cm	3.18kg	T85055	R=120cm	3.18kg
T85025	R=135cm	3.51kg	T85060	R=135cm	3.51kg
T85030	R=150cm	3.85kg	T85065	R=150cm	3.85kg

Maximum distance between supports = 2000mm

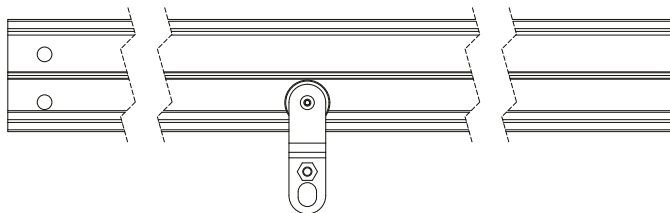
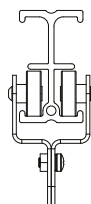


Maximum load between supports = 200 kg

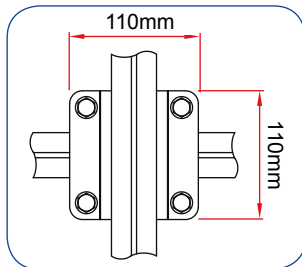
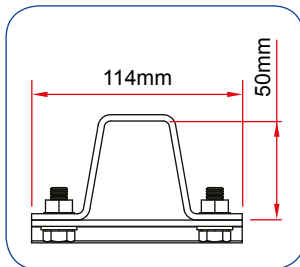
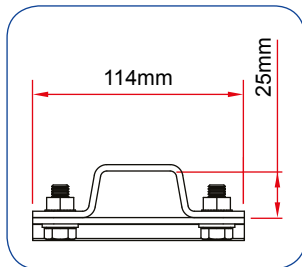
Maximum distance
between supports
= 2000mm



150mm



Recommended runner spacing = 300mm
WLL = 6 kg per runner



Ceiling Bracket 25mm

T85120	0.60kg
WLL	200kg

Supplied without rail clamps.

Ceiling Bracket 50mm

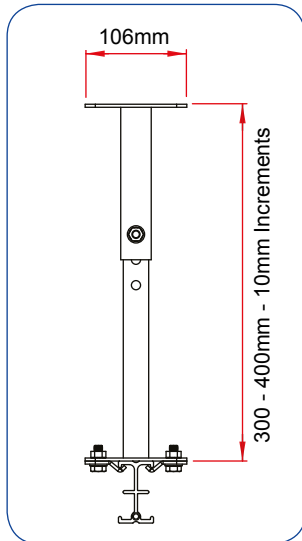
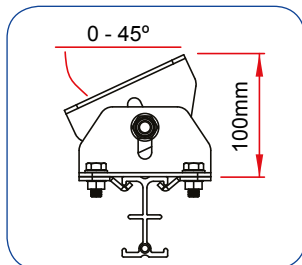
T85121	1.00kg
WLL	200kg

Supplied with rail clamps.

90° Crossover Bracket

T85130	0.65kg
WLL	100kg

Supplied with 4 x rail clamps.



Adjustable Angle Bracket

T85165	0.90kg
WLL	100kg

Supplied with rail clamps.

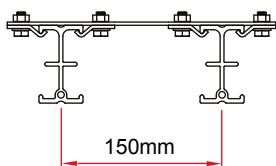
Extension Bracket

T85160	1.35kg
WLL	200kg

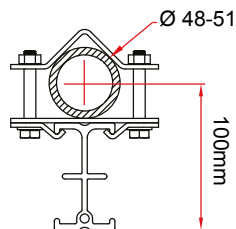
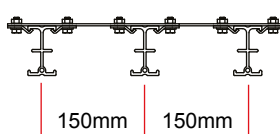
Adjustable. Supplied with rail clamps.



Not for Suspension



Not for Suspension



Spacer Plate (double rail)

T85110	1.00kg
WLL	n/a

Supplied with rail clamps.

Spacer Plate (triple rail)

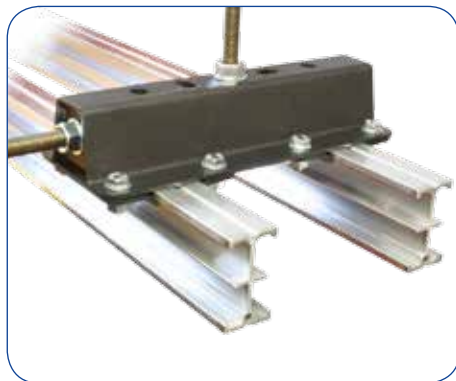
T85115	1.30kg
WLL	n/a

Supplied with rail clamps.

Studio Rail 80 to Tube Bracket

T85180	0.90kg
WLL	100kg

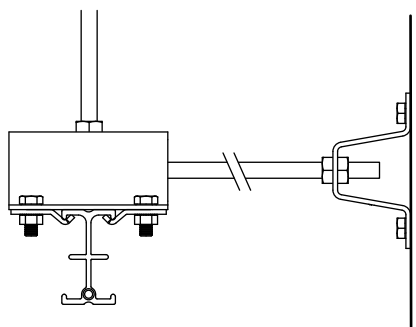
Supplied with rail clamps.

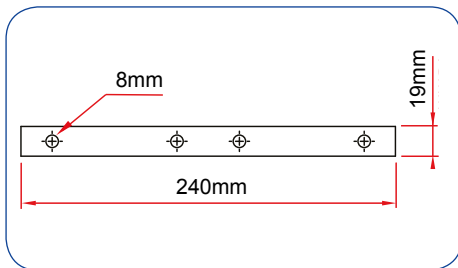


Ceiling Bracket with Wall Tie option

T85116	Single Rail Bracket	WLL 100kg
T85117	Double Rail Bracket	WLL 100kg
T85118	Triple Rail Bracket	WLL 100kg

Ideal for suspending twin or triple cyclorama rails. Can also be used to steady grids or cyclorama rails suspended on long stud drops.





Joiner Kit

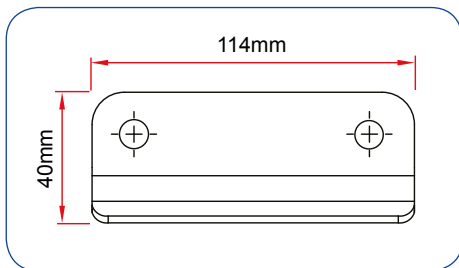
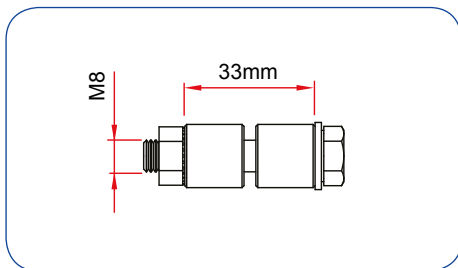
T85070	Silver	0.20kg
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Supplied with Joint Pin.

Spare Joint Pins x 5

T85075	0.04kg
--------	--------

The Joint Pins aid assembly and rail alignment.



End Stops x 4

T85080	0.13kg
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A pair of nylon end stops, supplied as 4 sets.

Clamps x 2

T85085	0.20kg
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A pair of steel rail clamps, can be used to clamp rail directly to a solid surface.



Cable Car x 5

T85220 WLL 6kg

Steel frame with bearings



Curtain Car x 5

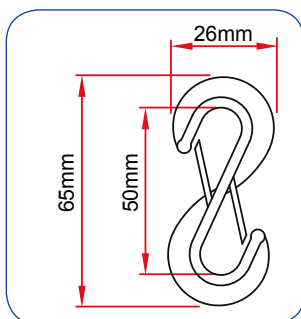
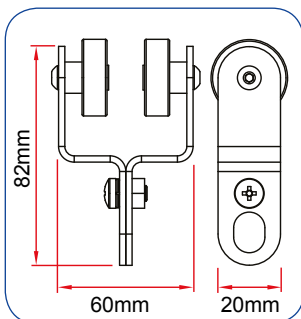
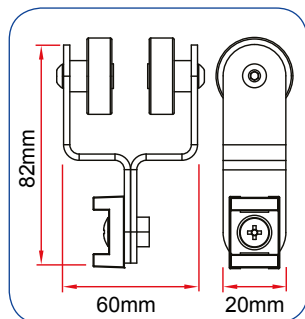
T85225 WLL 6kg

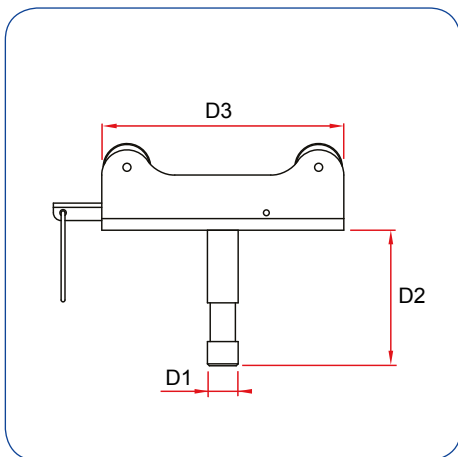
Steel frame with bearings



Nylon Twin Hook

T63796 WLL 6kg

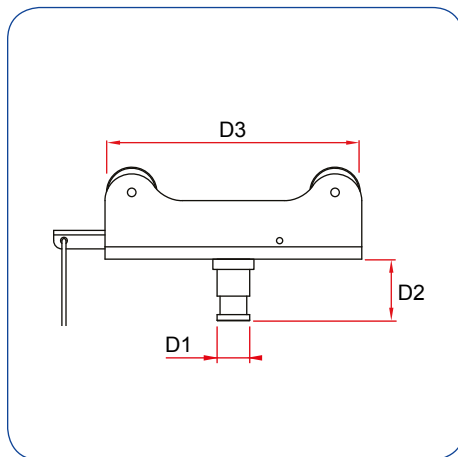




4 Wheel Carriage (fitted with 5/8" spigot) (brake)

	WLL	D1	D2	D3	kg
T85185	200kg	16mm	70mm	159mm	0.60kg

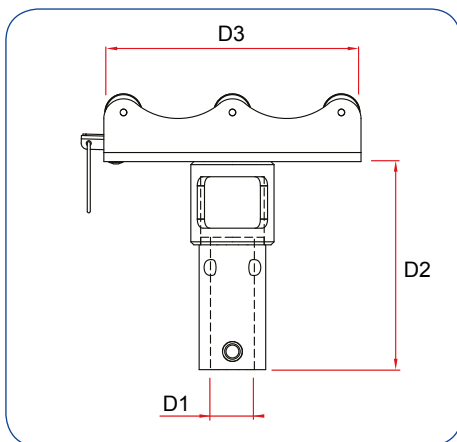
Designed to accept a 16mm receiver and fitted with a friction brake as standard.



4 Wheel Carriage (fitted with 5/8" mini spigot) (brake)

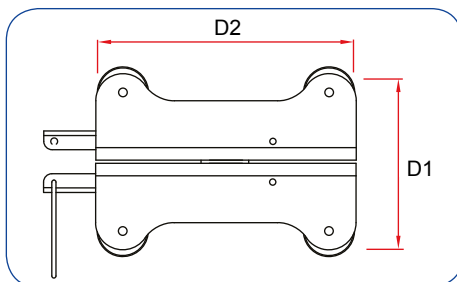
	WLL	D1	D2	D3	kg
T85186	200kg	16mm	30mm	159mm	0.50kg

Designed to accept a 16mm receiver and fitted with a friction brake as standard.



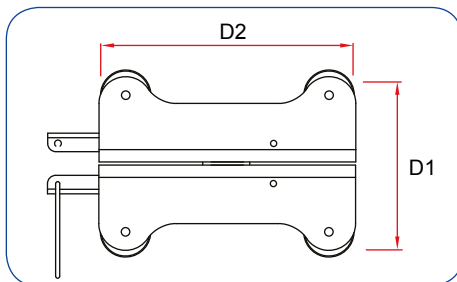
6 Wheel Carriage (fitted with 28mm receiver) (brake)

	WLL	D1	D2	D3	kg
T85205	200kg	29mm	138mm	242mm	1.2kg



4 Wheel Double Swivel Car (brake)

	WLL	D1	D2	kg
T85215	100kg	159mm	116mm	1.0kg



Studio Rail 80 to Studio Rail 60 Double Swivel Car (brake)

	WLL	D1	D2	kg
T85217	75kg	159mm	116mm	1.0kg

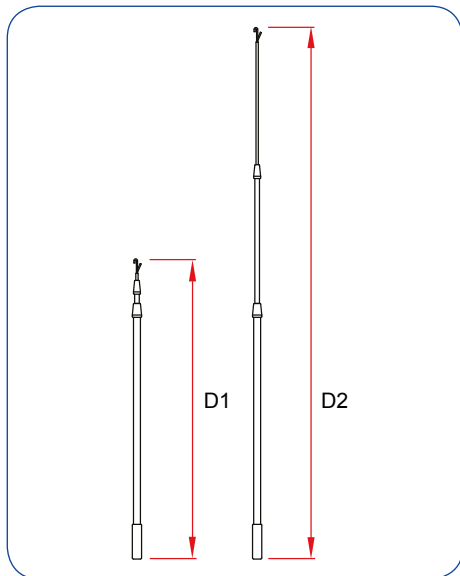


Studio Rail 80 Drilling Jig

T85260

0.26kg

A CNC machined aluminum jig fitted with hardened drill bushes. This jig enables the installer to drill the joint holes in any cut pieces of rail accurately ensuring a correctly aligned joint.



Operating Poles

	WLL	D1	D2	D3	kg
T84249	N/A	1600mm	2800mm	N/A	1.00kg
T84250	N/A	2000mm	3700mm	N/A	1.20kg
T84251	N/A	2100mm	4600mm	N/A	1.40kg
T84252	N/A	2100mm	5500mm	N/A	1.80kg
T84253	N/A	2750mm	7400mm	N/A	2.20kg

A lightweight telescopic anodised aluminium operating pole fitted with a replaceable hook.

Barrel Trolleys

Barrel Trolleys are normally used to suspend Pantographs from fixed or rolling pipe grids and barrel hoists. The new range of lightweight cast aluminium barrel trolleys from Doughty is designed to roll along 48mm diameter tubes. The trolleys are supplied as standard with a socket to accept 28mm TV spigots. Braked and unbraked versions are available in crackle black powder paint.



Barrel Trolley		
	WLL	kg
G1600	75kg	2.5kg



Braked Barrel Trolley		
	WLL	kg
G1642	75kg	2.5kg



Slimline Barrel Trolley		
	WLL	kg
G1605	75kg	2.5kg



Slimline Braked Barrel Trolley		
	WLL	kg
G1645	75kg	2.5kg

Lightweight Pantographs

The Doughty Lightweight Sprung Pantograph is ideal for smaller TV and photographic studios. Supplied in black finish, the Lightweight Pantograph comes in two sizes, 2m and 3m, with a load rating of 3 - 15kg, making it suitable for lightweight luminaires.



Mounting - 16mm Receiver

G1500	2.0m	WLL 3 -15kg
G1501	3.0m	WLL 3 -15kg



Mounting - Studio Rail 60

G1510	2.0m	WLL 3 -15kg
G1511	3.0m	WLL 3 - 5kg

All lightweight pantographs are supplied with a 16mm mini spigot bottom fixing unless requested otherwise.

Standard Pantographs

The Doughty Sprung Pantographs have been designed to be lightweight and compact, with strength, safety and ease of use being the main features. Loads from 5 to 36kg can be suspended from overhead tracks or barrels and quickly positioned with height ranges of 2.2 to 5 metres.



Standard Pantographs

	Springs	WLL	Length	kg
G1660	2	12kg	2.2m	7.8kg
G1662	2	12kg	3.0m	9.6kg
G1664	2	12kg	4.0m	13.0kg
G1666	2	12kg	5.0m	16.4kg
G1670	3	20kg	2.2m	7.5kg
G1672	3	20kg	3.0m	10.3kg
G1674	3	20kg	4.0m	13.6kg
G1676	3	20kg	5.0m	17.0kg
G1680	4	27kg	2.2m	7.5kg
G1682	4	27kg	3.0m	10.3kg
G1684	4	27kg	4.0m	10.4kg
G1686	4	27kg	5.0m	17.0kg
G1694	5	36kg	4.0m	15.8kg
G1696	5	36kg	5.0m	17.0kg

Lighting Hoists

The Doughty range of Lighting Hoists provides a highly versatile and economical suspension system. Together with our comprehensive range of control systems, specifically designed for the hoists, they provide a fully optimised and easy to use H&S compliant system.

Doughty Lighting Hoists are specified to individual requirements. Please contact our Technical Sales department for more information.

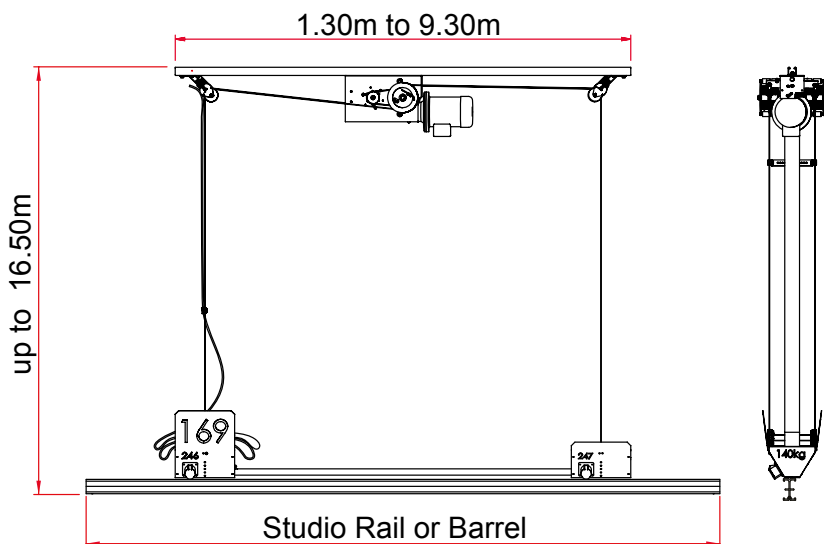
- Flexible modular design aiding maintenance and installation
- Can be fitted with programmable position control allowing hoist to return to memorised position
- Low self weight reduces building costs
- Compact 'closed height' for more height benefit in the studio
- Barrel 'roll past' feature is standard on the system
- Chassis and barrel lengths can be adjusted on-site to accommodate late building alterations.

Lighting Hoist Controller

- Single metal wall mounted enclosure
- Raise and lower buttons
- Emergency stop mushroom switch
- Power indicator light
- Antichatter circuitry as required by hoist
- Tamperproof cases available on request.



Shown in a lockable tamperproof case.



Standard Hoist Spec

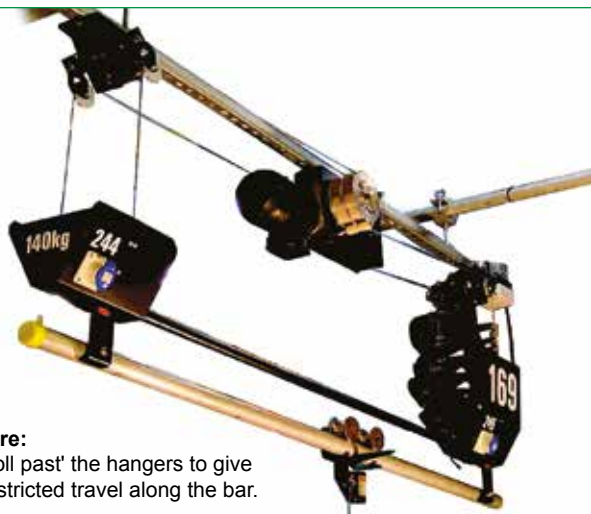
- 4 wire ropes
- Maximum load 140kg
- Maximum drop up to 16.5m
- Chassis length 1.3 to 3.3m
- Barrel diameter 48.3mm aluminium or steel 1.3 to 5m
- Typical self weight 70kg

Special Hoist Spec

- 4, 6 or 8 wire ropes
- Maximum load up to 200kg
- Hoist length up to 9.3m
- Barrel length up to 11m
- Scenery hoist options available

Full range of socket plates are available to suit individual requirements including audio, video, DMX and technical power. Platform, round and special cables can be used.

Sensors: overload, slack rope, rope break on each rope, top and bottom travel limits, with ultimate travel limits.



Roll Past Feature:

Barrel trolleys 'roll past' the hangers to give completely unrestricted travel along the bar.

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Doughty Engineering Ltd

Crow Arch Lane
Ringwood
Hampshire BH24 1NZ
United Kingdom

Tel: +44 1425 478961

Email: sales@doughty-engineering.co.uk
www.doughty-engineering.co.uk