Cable Drum Trailers
Cable Pulling Winches
Cable Laying Accessories
Generator Set Trailers

Suppliers of Cabling Equipment Around the World

More Than 35 Years Service to Industry

Thorne & Derrick
+44 (0) 191 490 1547
www.thorneandderrick.com
**Company Profile**

S.E.B. International was originally founded in 1970, and rapidly gained an enviable reputation as designers and builders of specialist plant transporter trailers of well engineered heavy duty construction, serving the UK Civil Engineering and Allied Industries.

Due to ever increasing customer demand, later years saw the company expand their activities into the design and manufacture of Cable Laying Trailers and associated equipment which to present day represents the vast proportion of its production facilities and services.

As illustrated in this brochure it is our belief that we are now probably one of the leading manufacturers and suppliers of equipment of this type within the UK and overseas, offering a comprehensive range of products whilst still importantly retaining the flexibility to consider design and build of individual client special requirements.

Our units are being exported and operated in many parts of the global market, including the Middle East, Pakistan, Europe, Scandinavia, Turkey, Bahamas, Cyprus, Africa and the Republic of Ireland etc.

Typical Examples are:

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<th>Dubai Electricity &amp; Water Authority</th>
<th>Electricity Supply Board EIRE</th>
</tr>
</thead>
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<tr>
<td>Bechtel Inc</td>
<td>Bravo Beijing - China</td>
<td>Siemens AG</td>
</tr>
<tr>
<td>Batelco - Bahrain</td>
<td>ABU Dhabi Water &amp; Electricity</td>
<td>Cyprus Electricity Authority</td>
</tr>
<tr>
<td>Etisalat UAE</td>
<td>Scottish &amp; Southern Energy</td>
<td>Saco - Saudi Arabia</td>
</tr>
<tr>
<td>Prysmian Cables</td>
<td>Balfour Beatty</td>
<td>UTS Kent</td>
</tr>
<tr>
<td>Hyundai Engineering</td>
<td>Kentz Saudi Arabia</td>
<td>Emirates Technical Associates (ETA)</td>
</tr>
<tr>
<td>Bahwan Engineering Co. (BEC) Oman</td>
<td>Consolidated Contractors - Middle East</td>
<td>Alfred McAlpine</td>
</tr>
</tbody>
</table>

**Mission Statement**

S.E.B. International Ltd is a company constantly monitoring and developing its range of equipment and services in order to satisfy customer requirements.

Our aim is to provide high quality products, reliable in service that offer good value for money to our clients.

We endeavour to employ conscientious personnel both in our design and manufacturing processes in our efforts to produce products to give long lasting and troublefree ‘in service life’.

**After Sales Service - Spares & Refurbishment**

S.E.B. International consider it of vital importance that in case of breakdown, our clients’ needs are given high priority; and to this end our company normally stocks some 2500 spare items to ensure speedy despatch whenever possible.

As an additional service we can offer ‘in house’ repair, refurbishment and routine maintenance facilities for cabling equipment both of our own manufacture and others, which could involve major rebuilds on the trailer chassis, suspensions, lighting and hydraulic systems etc.

This service is backed up in many cases inclusive of final testing and re-certification on completion of work done.

We also offer training on all SEB products, either on site or at SEB’s premises.
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## Contact Details

**THORNE & DERRICK INTERNATIONAL**

**Thorne & Derrick**

+44 (0) 191 490 1547

www.thorneandderrick.com
For safe and easy drum handling, all SEB Cable Drum Trailers are fitted with hydraulic hand pump operated lift/lower systems as standard. When the drum is fully raised mechanical locks ensure drum security in transit. See separate page for details of additional options available.

(detailed specifications can be provided on request)
CABLE DRUM TRAILERS – Site Range

Designed and supplied specifically for “Off Road Use”, these Site trailers are all fitted with some form of brake system, hand parking facility and basic vehicle lights. Although not built to conform with EEC braking/lighting directives certain Non EEC countries have operated these units on the highway under the proviso that Towing speeds indicated must not be exceeded at full rated payload. All units incorporate the same drum handling features and in some cases additional options as the Highway range.

As drums of Cable get larger and heavier to reduce the number of joints in the cable, the SEB range of Site trailers has expanded to accommodate drum sizes of up to 2800mm wide and 5000mm dia with a maximum payload of 48000Kgs.

<table>
<thead>
<tr>
<th>Trailer Model</th>
<th>Payload (Approx.)</th>
<th>Gross Vehicle Weight</th>
<th>Max. Drum Width</th>
<th>Drum Dia. max/min</th>
<th>Spindle Dia.</th>
<th>Tow Eye/ Coupling Height Unladen</th>
<th>Trailer Width</th>
<th>Towing Speed</th>
<th>Tyres</th>
<th>Brake System</th>
</tr>
</thead>
<tbody>
<tr>
<td>CD60S</td>
<td>3000Kg</td>
<td>3750Kg</td>
<td>1280mm</td>
<td>2500/1060</td>
<td>76mm</td>
<td>50/610</td>
<td>2300</td>
<td>40kmh</td>
<td>215/75R 17.5</td>
<td>Overrun</td>
</tr>
<tr>
<td>CD130S</td>
<td>7250Kg</td>
<td>8550Kg</td>
<td>1470mm</td>
<td>2860/1360</td>
<td>76mm</td>
<td>76/710</td>
<td>2550</td>
<td>25kmh</td>
<td>11.00x22.5</td>
<td>Overrun</td>
</tr>
<tr>
<td>CD140S</td>
<td>7000Kg</td>
<td>8600Kg</td>
<td>1730mm</td>
<td>3200/2000</td>
<td>89mm</td>
<td>76/810</td>
<td>2550</td>
<td>25kmh</td>
<td>11.00x22.5</td>
<td>Overrun</td>
</tr>
<tr>
<td>CD210S</td>
<td>8000Kg</td>
<td>10300Kg</td>
<td>2000mm</td>
<td>3500/2300</td>
<td>89mm</td>
<td>76/945</td>
<td>3200</td>
<td>32kmh</td>
<td>315/70Rx22.5</td>
<td>2 Line Air</td>
</tr>
<tr>
<td>CD250S</td>
<td>10000Kg</td>
<td>12400Kg</td>
<td>2000mm</td>
<td>3500/2300</td>
<td>89mm</td>
<td>76/945</td>
<td>3200</td>
<td>24kmh</td>
<td>315/70Rx22.5</td>
<td>2 Line Air</td>
</tr>
<tr>
<td>CD310S</td>
<td>12000Kg</td>
<td>15500Kg</td>
<td>2400mm</td>
<td>4540/2400</td>
<td>101mm</td>
<td>76/960</td>
<td>3600</td>
<td>24kmh</td>
<td>11.00x22.5</td>
<td>2 Line Air</td>
</tr>
<tr>
<td>CD360S</td>
<td>15000Kg</td>
<td>18500Kg</td>
<td>2400mm</td>
<td>4540/2400</td>
<td>127mm</td>
<td>76/960</td>
<td>3600</td>
<td>16kmh</td>
<td>11.00x22.5</td>
<td>2 Line Air</td>
</tr>
<tr>
<td>CD480S</td>
<td>18000Kg</td>
<td>22000Kg</td>
<td>2400mm</td>
<td>4600/2500</td>
<td>127mm</td>
<td>76/1000</td>
<td>3600</td>
<td>24kmh</td>
<td>315/70Rx22.5</td>
<td>2 Line Air</td>
</tr>
<tr>
<td>CD500S</td>
<td>20000Kg</td>
<td>24000Kg</td>
<td>2400mm</td>
<td>4600/2500</td>
<td>127mm</td>
<td>76/1000</td>
<td>3600</td>
<td>16kmh</td>
<td>315/70Rx22.5</td>
<td>2 Line Air</td>
</tr>
<tr>
<td>CD700S</td>
<td>30000Kg</td>
<td>35000Kg</td>
<td>2400mm</td>
<td>4800/2700</td>
<td>152mm</td>
<td>76/1100</td>
<td>3735</td>
<td>10kmh</td>
<td>14.00x24</td>
<td>2 Line Air</td>
</tr>
<tr>
<td>CD900S</td>
<td>40000Kg</td>
<td>48000Kg</td>
<td>2800mm</td>
<td>5000/2900</td>
<td>152mm</td>
<td>76/ Pivot Type</td>
<td>4300</td>
<td>10kmh</td>
<td>295/60 Bagie</td>
<td>2 Line Air</td>
</tr>
<tr>
<td>CD980S</td>
<td>48000Kg</td>
<td>57000Kg</td>
<td>2800mm</td>
<td>5000/2900</td>
<td>152mm</td>
<td>76/ Pivot Type</td>
<td>4300</td>
<td>10kmh</td>
<td>295/60 Bagie</td>
<td>2 Line Air</td>
</tr>
</tbody>
</table>

NOTE:
1) All Drum widths stated are with drum locking collars fitted to spindles.
2) These trailers constitute our standard/popular range. However if there is not a trailer listed to accommodate your drum size and weight then please do not hesitate to contact us.
CABLE PULLING WINCHES – Power cables

A range of Trailer mounted Cable Pulling Winches required for the installation of Power Cables where high pulling tensions are required.

All of the units are designed with the operator in mind. Simple in operation and robustly engineered, these units are fitted with heavy duty diesel engines powering hydraulic transmission for smooth controlled pulling, and are fitted with a console mounted line tension indicator so that at all times the operator has a visual display of the pulling force applied. All of the Winches can be quickly pre-set so they do not exceed the required pulling tension.

FW3000 3 Tonne Winch

This is our 3 tonne capacity single capstan winch and is a great asset to any Multi Utility business. It is fitted with a free spooling payout system which makes it a one man only operation. The unit is fitted with a pull load indicator with read out via dial gauge.

Technical Specification

| Power Unit | Diesel engine. Rated at 13Kw. At 3600 RPM |
| Main Drive System | Single Capstan. |
| Rewind Drum Drive | Hydraulic driven for rope tension. |
| Cable Pay Out | Free spooling |
| Pull Load Indicator | Dial gauge for pressure / tonnes pull |
| Oil Cooler | Fitted with thermostat fan. |
| Rewind drum | 400 mtrs. 10mm dia rope. capacity (max) |
| Rope Layering | Free moving layering arm (mounted under rewind drum) |
| Rope Pull/Speed | 0.5 tonne 30 mtr/min |
| | 1.5 tonne 22mtr/min |
| | 3.0 tonne 7 mtr/min |

TW5000 5 Tonne Winch

The TW5000 is currently our largest line pull winch, and utilises the Twin Capstan design as a way of developing the required tension. The winch is a single axle and therefore easy to manoeuvre. It is fitted with a pull load indicator via the dial gauge and obtains it’s power from a twin cylinder diesel engine.
CABLE PULLING WINCHES - Telecommunications

Designed to keep up with the fast moving telecommunications industry these Winches were developed to meet the requirements for both the installation of delicate Fibre Cables where low pulling tensions are necessary and also for the more heavier Copper Cables. Other installation applications are coaxial cable, sub duct and even in certain conditions H.V Cables.

Technical Specification

Line Tension 500Kg (760mm diameter capstan) for fibre optic cables.
Line Tension 1000Kg (380mm diameter capstan) for sub duct and general cabling.
Rope Speed 55mtrs / minute 760mm capstan
26mtr / minute 380mm capstan

Console mounted line tension indicator with Pre-set limiting facility. Available with either 13hp Petrol or Water Cooled Diesel Engine. Emergency stop device fitted as standard.

AW 1000 Assist Winch
The AW1000 Assist Winch is designed as a versatile multi-purpose winch, which can be used for the installation of Fibre Optic Cable, Sub Duct and also for pulling the bond back through the duct or trench.

Technical Specification

Line Tensions 3000Kg Maximum
Line Speed 0-12 Mtrs / Minute Variable @ 3000kg
0-30 Mtrs / Minute Variable @ 1000Kg
Engine 15.5hp Water Cooled Diesel Engine
Controls Electrically operated directional controls

Safety Emergency stop buttons and limit switch to the rear guard. The winch is supplied as standard with the GRP Canopy.

CW 3000 3 Tonne Winch

The CW3000 Winch is designed to pull Telecommunications cable as well as general cable and sub duct. The unit operates the tried and trusted method of a single capstan drive system which is now synonymous with the Telecommunications industry, the capstan is driven by a fixed displacement hydraulic motor. The cast alloy capstan is fully guarded and is fitted with a limit switch as standard which is activated and stops the capstan rotating as soon as the guard door is opened. Situated directly under the capstan is a swivelling diverter pulley to enable horizontal pulls to be made.
**Electric Cable Pulling Winch**

The Cable Puller provides the perfect solution to installing long or heavy lengths of cable in difficult locations. It reduces the manpower hours required to meet installation deadlines, and is safer and faster.

- Unlimited length of pull and choice of rope speed
- Compact, lightweight and portable
- 110V or 240VAC model for internal use in buildings and tunnels
- Reverse rotation for controlled release at high loads

<table>
<thead>
<tr>
<th>Cable Puller</th>
<th>Small Drum</th>
<th>Large Drum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max Drum Weight (Kgs)</td>
<td>2500</td>
<td>1500</td>
</tr>
<tr>
<td>Rope Speed (m/min)</td>
<td>2.5</td>
<td>4.0</td>
</tr>
<tr>
<td>Dimensions (mm)</td>
<td>L: 655 x W: 550 x H: 400</td>
<td></td>
</tr>
<tr>
<td>Weight (kg)</td>
<td>95</td>
<td></td>
</tr>
</tbody>
</table>

**DATA LOG**

Electronic Recorder

An electronic recorder with digital printout which combines a high level of technical specification with ease of operation. It is designed to stop winching operations if pre-selected pulling tension is achieved, thus preventing possible damage to the cable. Dependant on to which SEB Winch it is fitted, the recorder can give a combination of pulling tension, distance, pulling speeds and time. There is also the option to download data via a remote PC if required.

**TYPICAL PRINTOUT FOR FW3000/TW5000**

<table>
<thead>
<tr>
<th>Machine Type FW3000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drum No 000001</td>
</tr>
<tr>
<td>Pull Overload 2000</td>
</tr>
<tr>
<td>Date 07-02-2001</td>
</tr>
<tr>
<td>Time 14.41.08</td>
</tr>
<tr>
<td>M Kg M/Min</td>
</tr>
<tr>
<td>5 499 4</td>
</tr>
<tr>
<td>10 582 25</td>
</tr>
<tr>
<td>15 840 25</td>
</tr>
<tr>
<td>20 1328 25</td>
</tr>
<tr>
<td>Stopped at 14.43</td>
</tr>
<tr>
<td>2001 Kg Overload - Job Suspended</td>
</tr>
</tbody>
</table>

**TYPICAL PRINTOUT FOR AW1000/CW3000**

<table>
<thead>
<tr>
<th>Drum No 000001</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pull Overload 400</td>
</tr>
<tr>
<td>Date 09-02-2001</td>
</tr>
<tr>
<td>Time 15.30.03</td>
</tr>
<tr>
<td>Kg Kg Kg</td>
</tr>
<tr>
<td>15.30.16 17</td>
</tr>
<tr>
<td>15.30.21 17</td>
</tr>
<tr>
<td>15.30.26 17</td>
</tr>
<tr>
<td>15.30.31 6</td>
</tr>
<tr>
<td>15.30.36 263</td>
</tr>
<tr>
<td>15.30.41 369</td>
</tr>
<tr>
<td>Stopped at 15.30</td>
</tr>
<tr>
<td>403 Kg Overload - Job Suspended</td>
</tr>
</tbody>
</table>

Kg = Pulling Tension.
M = Distance in metres.
M/min = Speed in metres per minute.

**Canopy**

Although our winches do not come with canopies as standard they are available for both the FW3000 and the TW5000 as optional extras, the model shown is the FW3000. The canopies can be available in different colours to match your corporate images and we are also able to sign write the canopies to provide you with free advertising while the unit is in transit. While the winch is in operation the canopy can be held in the up position by the catches as shown. Please enquire for further details and prices.

Also available as optional extras for our full range of winches are Trench Booms, Adjustable Height Tow Bars and Special Rope Lengths.
OPTIONAL EXTRAS – Cable Drum Trailers

DRUM DRIVE / POWER LIFT UNITS

Diesel or Petrol engine Powered Cable Drum drive unit to assist in paying out or taking up the cable. This unit also provides powered lift of the drum.

Optional variations include units powered direct from vehicle P.T.O hydraulics (Consult S.E.B.)

Note. Fitment of the drum drive reduces the payload of the trailer (Consult SEB).

ADJUSTABLE HEIGHT DRAWBAR

For auto reverse overrun braked Trailers. A useful acquisition where a variety of vehicles with different tow heights can be used to tow the same trailer.

EXTENSION SLIDE

Makes the trailer more versatile, enabling it to handle smaller diameter drums. Slides can be supplied loose or mounted on the trailer chassis.

Note:

a) Capacity of Extension Slides are limited to 25% of trailer rated payload.

b) Fitment will reduce the width of drum space available. (Consult S.E.B.)

DRUM BRAKE

Mechanical or hydraulic friction brake for overhead stringing operations or other applications where tension is to be maintained on the cable.

Note: fitment of the brake device will reduce the width of the drum space available. (Consult SEB)

Full details of any of the above can be supplied to match the particular trailer you require.
CABLE ROLLERS - Trench Application

Straight Line

TRP76 Narrow Roller

Designed for use in narrow trenches. Lightweight assembly suitable for cables up to 76mm dia. Zinc plated steel frame fitted with large waisted solid aluminium roller running on low friction sintered bushes.

Base size: 320mm x 145mm. Weight: 2.75Kgs

HSP125 ROLLER - HEAVY DUTY

All Zinc plated heavy duty assembly suitable for cables up to 125mm dia. Steel frame fitted large waisted steel roller running on sealed ball bearings.

Base size: 350mm x 230mm. Weight: 4Kgs

HBSP125 BRIDGE ROLLER - HEAVY DUTY

Generally as per the HSP125 Roller but with the added facility of being able to place same over a cable up to 90mm already laid in the trench.

Base size: 350mm x 230mm. Weight: 4.5Kgs

Corner Rollers

CR1 ANGLE CORNER ROLLER

Purpose designed for taking the heaviest cables round difficult corners and bends. Incorporates a vertical and horizontal roller 75mm diameter on low friction sintered bushes. Stake pins are provided to link rollers together into a continuous assembly on right angle bends. Paint finish.

Height: 300mm Width: 160mm Length: 280mm Weight: 9.0Kgs

CR2 SKID ROLLER

Incorporates a horizontal steel roller 75mm dia running on low friction sintered bushes with back skid plate for corner work. Can be used singly or linked together with stake pins provided to form a continuous run. Paint finish.

Height: 300mm Width: 230mm Length: 330mm Weight: 8.0Kgs

CR4 TRIPLE CORNER ROLLER

All zinc plated finish and using two vertical and one horizontal steel rollers identical to HSP125 for taking the heaviest cables round difficult corners. The assembly is of a robust constitution for use in the most arduous conditions and can be linked together with stake pins provided to form a continuous corner roller system.

Height: 295mm Width: 290mm Length: 540mm Weight: 12Kgs
**CABLE ROLLERS**

**Corner Rollers**

**CR5 HORIZONTAL ROLLER**

Two horizontal rollers with quick release gate opening to allow easy entry and removal of cables up to 125mm diameter.
Paint finish.
Height: 400mm Width: 260mm Length: 250mm Weight: 13Kgs

**CR6 VERTICAL ROLLER**

Nine vertical steel rollers each running in roller bearings and mounted in a heavy duty steel frame.
Paint finish.
Height: 310mm Width: 90mm Length: 830mm Weight: 14Kgs

Note: These rollers are used in conjunction with CR5 as per the photograph and where large diameter cables have a limited bend radius.

**SP1 SKID PLATE**

Can be used with the CR2 Skid Roller as an alternative to the CR5 / CR6 Corner Roller system.
Paint finish.
Height: 300mm Width: 100mm Length: 920mm Weight: 7Kgs

**DR1 DRAW OFF ROLLER**

To lead the cable directly from the drum into the trench. 75mm diameter steel tube roller on low friction sintered bushes. All mounted to heavy duty angle steel base.
Paint finish.
Height: 220mm Width: 178mm Length: 1066mm Weight: 14Kgs

**VR1 ROLLER ASSEMBLY**

A guide roller in front of the drum which centralizes the cable from the drum into the trench. Sealed roller bearings fitted in steel roller. Mounted in heavy duty steel frame. All zinc plated finish.
Height: 360mm Width: 500mm Length: 890mm Weight: 17Kgs

**SR5 SUSPENSION ROLLER**

To enable cables to be winched and suspended in high buildings prior to being positioned on gantries, beams etc.
Zinc plated finish.
Height: 404mm Width: 240mm Length: 210mm Weight: 3kgs

**HSR5 HEAVY DUTY SUSPENSION ROLLER**

To take initial strain on the heaviest cables where they are lifted from the floor and onto cable trunking. The roller is suspended from a cross beam or similar in front of the trunking. Large waisted steel roller running on sealing ball bearings.
Paint finish.
Height: 430mm Width: 120mm Length: 250mm Weight: 9kgs
CABLE & DUCT PULLING ACCESSORIES

SWIVEL LINK

Enables Winch rope to revolve during pulling operation preventing twisting or kinking.
Machined from solid steel zinc plated finish.
Heavy duty swivel bearing to allow sustained pulls.
Totally smooth exterior finish.
Grease packed on assembly minimising further lubrication.

<table>
<thead>
<tr>
<th>Model</th>
<th>Min Break Strain</th>
<th>Jaw Size</th>
<th>Pin Dia.</th>
<th>Overall Length</th>
<th>Overall Diameter</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>SL3</td>
<td>3 Tonne</td>
<td>16mm</td>
<td>10mm</td>
<td>100mm</td>
<td>30mm</td>
<td>0.5Kg</td>
</tr>
<tr>
<td>SL5</td>
<td>5 Tonne</td>
<td>32mm</td>
<td>16mm</td>
<td>200mm</td>
<td>55mm</td>
<td>2.5Kg</td>
</tr>
</tbody>
</table>

CABLE STOCKINGS

Sometimes called Cable Socks or Cable Grips.
An efficient method of supporting or pulling cables.
Manufactured from high tensile galvanised steel wire.
Also available on request in stainless steel wire or Kevlar.
Available as Single Eye (S type).
Double Eye (D type) or Lace Up (L type).
The Cable Socks can also be supplied as 3 leg for pulling 3 separate cables.

<table>
<thead>
<tr>
<th>Dia of Cable</th>
<th>S Type Code</th>
<th>D Type Code</th>
<th>L Type Code</th>
<th>Lattice Weave</th>
<th>Lattice Length</th>
<th>Overall Length</th>
<th>Actual Break Tonne</th>
</tr>
</thead>
<tbody>
<tr>
<td>6-13mm</td>
<td>CS10</td>
<td>CS21</td>
<td>CS31</td>
<td>Single</td>
<td>230mm</td>
<td>305mm</td>
<td>0.75T</td>
</tr>
<tr>
<td>10-20mm</td>
<td>CS11</td>
<td>CS22</td>
<td>CS32</td>
<td>Single</td>
<td>355mm</td>
<td>430mm</td>
<td>1.00T</td>
</tr>
<tr>
<td>19-25mm</td>
<td>CS13</td>
<td>CS23</td>
<td>CS33</td>
<td>Single</td>
<td>405mm</td>
<td>510mm</td>
<td>2.50T</td>
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<tr>
<td>25-35mm</td>
<td>CS14</td>
<td>CS24</td>
<td>CS34</td>
<td>Single</td>
<td>455mm</td>
<td>610mm</td>
<td>3.50T</td>
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<tr>
<td>36-50mm</td>
<td>CS15</td>
<td>CS25</td>
<td>CS35</td>
<td>Double</td>
<td>535mm</td>
<td>735mm</td>
<td>5.00T</td>
</tr>
<tr>
<td>50-70mm</td>
<td>CS16</td>
<td>CS26</td>
<td>CS36</td>
<td>Double</td>
<td>610mm</td>
<td>865mm</td>
<td>5.00T</td>
</tr>
<tr>
<td>60-90mm</td>
<td>CS17</td>
<td>CS27</td>
<td>CS37</td>
<td>Double</td>
<td>685mm</td>
<td>990mm</td>
<td>6.00T</td>
</tr>
<tr>
<td>80-115mm</td>
<td>CS18</td>
<td>CS28</td>
<td>CS38</td>
<td>Double</td>
<td>685mm</td>
<td>990mm</td>
<td>7.00T</td>
</tr>
<tr>
<td>105-120mm</td>
<td>CS19</td>
<td>CS29</td>
<td>CS39</td>
<td>Double</td>
<td>685mm</td>
<td>990mm</td>
<td>7.00T</td>
</tr>
</tbody>
</table>

All sizes in mm. Larger diameter and longer lengths can be made to order.

SUB DUCT PULLING EYE WITH CLEVIS

Sub Duct pulling eye (carrots) with Clevis pin and eye other end to attach draw rope etc. Units tapered and threaded to cover range.
Zinc plated.
PE1 Pulling eye for sub duct range 24-29mm
PE2 Pulling eye for sub duct range 29-37mm

SLINGS

For use with pulling eye. Available as standard for pulling 4 or 3 way sub duct.
4 way Sling, Staggered 4 way pulling Harness
3 way Sling, Staggered 3 way pulling Harness
Manufactured from galvanised steel wire.
CABLE ROLLERS AND GUIDES - for the duct

ML5 Manhole Roller
Designed for placing at the end of the manhole or pit entrance to ease the cable in. Triple Aluminium Roller on tubular steel frame.
Zinc Plated.
**Height** 630mm  **Width** 290mm  **Length** 500mm  **Weight** 14Kg.

RR3 Rope Guiding Roller
Used to guide drawropes and cabling ropes out of manhole entrance and jointboxes to avoid damage to the rope. Consists of an aluminium roller mounted on a zinc plated frame, which has two lugs for location into the jointbox or manhole.
Also available RR5 with a heavy duty steel roller running on roller bearings.
**Height** 150mm  **Width** 152mm  **Length** 254mm  **Weight** 4Kgs

ERS76 Edge Roller Swivelling
For protection of the rope on the rim and corner of the manhole.
Unit swivels to the direction of the pull.
Aluminium roller in zinc plated frame.
**Height** 180mm  **Width** 200mm  **Length** 270mm  **Weight** 4.5Kgs

Cable Protecting Bend Without Stop
CPB1 – For Ducts inside dia. 89mm
CPB2 – For Ducts inside dia 100mm
Zinc plated.

Cable Protecting Bend With Handle And Stop
CPB3 – For Ducts inside dia 89mm
CPB4 – For Ducts inside dia 100mm
Zinc plated.

CPB5 – Cable Protecting Bend With Angled Base
To fit the rim corners of the manhole. Unit swivels to the direction of the pull.
Zinc plated

CPB6 – Cable Protecting Bend with Snout
For securing inside 89 or 100mm Ducts
Zinc plated

BM. Steel Bellmouths
In separable hinged halves to guide the cable through the duct to avoid damage to both the Cable or the Duct.
**BMR models available fitted with roller for additional rope guidance and protection.**  Zinc plated

BM60 (BMR60) for ducts 60 - 69mm
BM80 (BMR80) for ducts 76 - 89mm
BM90 (BMR90) for ducts 90 - 97mm
BM100 (BMR100) for ducts 99 - 106mm
BM125 (BMR125) for ducts 124 - 130mm
BM150 (BMR150) for ducts 148 - 155mm
BM160 (BMR160) for ducts 152 - 176mm
BM175 (BMR175) for ducts 170 - 180mm
BM200 (BMR200) for ducts 194 - 212mm
BM230 (BMR230) for ducts 220 - 239mm
BM250 (BMR250) for ducts 246 - 266mm

Also available in Plastic and Brass Bellmouths. Details on request
Special sizes can be manufactured on request.
CONDUIT ROD

A high quality glass fibre reinforced helically wound epoxy rod giving good adhesion properties for the outer polyethylene coating. This construction gives excellent bending elasticity which makes it ideal for short to long installations into ducts. It is an ideal and fast way of installing draw ropes and Winch ropes into ducts, ready for Cable Pulling operations.

The 9mm, 11mm and 14mm rod comes complete on a mobile frame for easy manoeuvrability. The 4mm and 6mm versions are on a free standing frame.

Zinc plated finish.

All units are designed and built for easy handling.

All rods come complete with guide tips. A full range of accessories are also available. See opposite.

All sizes are available as spare rod only. Non standard lengths available on request.

<table>
<thead>
<tr>
<th>Diameter</th>
<th>Length</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>4mm DIA ON 4800mm HIGH FREE STANDING REEL</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LCR4/40R</td>
<td>4mm dia x 40mtr long</td>
<td>Weight 5Kg</td>
</tr>
<tr>
<td>LCR4/60R</td>
<td>4mm dia x 60mtr long</td>
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<td>LCR4/80R</td>
<td>4mm dia x 80mtr long</td>
<td>Weight 7Kg</td>
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<table>
<thead>
<tr>
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<td>6mm DIA ON 5900mm HIGH FREE STANDING REEL</td>
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<tr>
<td>LCR6/60R</td>
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<td>Weight 11Kg</td>
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<td>6mm dia x 100mtr long</td>
<td>Weight 12Kg</td>
</tr>
<tr>
<td>LCR6/150R</td>
<td>6mm dia x 150mtr long</td>
<td>Weight 13Kg</td>
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<table>
<thead>
<tr>
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<tbody>
<tr>
<td>9mm DIA ON 10400mm HIGH MOBILE REEL</td>
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</tr>
<tr>
<td>LCR9/60R</td>
<td>9mm dia x 60mtr long</td>
<td>Weight 26Kg</td>
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<td>LCR9/80R</td>
<td>9mm dia x 80mtr long</td>
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<tr>
<td>LCR9/100R</td>
<td>9mm dia x 100mtr long</td>
<td>Weight 30Kg</td>
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<tr>
<td>LCR9/120R</td>
<td>9mm dia x 120mtr long</td>
<td>Weight 32Kg</td>
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<tr>
<td>LCR9/150R</td>
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<td>Weight 35Kg</td>
</tr>
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<td>LCR9/200R</td>
<td>9mm dia x 200mtr long</td>
<td>Weight 40Kg</td>
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<table>
<thead>
<tr>
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<th>Weight</th>
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<td></td>
</tr>
<tr>
<td>LCR11/100R</td>
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<td>Weight 39Kg</td>
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<tr>
<td>LCR11/150R</td>
<td>11mm dia x 150mtr long</td>
<td>Weight 47Kg</td>
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<tr>
<td>LCR11/200R</td>
<td>11mm dia x 200mtr long</td>
<td>Weight 54Kg</td>
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<tr>
<td>LCR11/250R</td>
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</tr>
<tr>
<td>LCR11/300R</td>
<td>11mm dia x 300mtr long</td>
<td>Weight 69Kg</td>
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<table>
<thead>
<tr>
<th>Diameter</th>
<th>Length</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
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<td>14mm DIA ON 12900mm HIGH MOBILE REEL</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LCR14/150R</td>
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<td>Weight 65Kg</td>
</tr>
<tr>
<td>LCR14/200R</td>
<td>14mm dia x 200mtr long</td>
<td>Weight 77Kg</td>
</tr>
<tr>
<td>LCR14/250R</td>
<td>14mm dia x 250mtr long</td>
<td>Weight 87Kg</td>
</tr>
<tr>
<td>LCR14/300R</td>
<td>14mm dia x 300mtr long</td>
<td>Weight 99Kg</td>
</tr>
<tr>
<td>LCR14/350R</td>
<td>14mm dia x 350mtr long</td>
<td>Weight 111Kg</td>
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</table>
CONDUIT ROD ACCESSORIES

GUIDE TIP
Supplied as standard with all Conduit Rods. The Tip guides the Rod through the Duct, the Eye allows pulling rope to be attached to the Rod.
M277/2 Guide Tip (14, 11mm & 9mm Rod)
M279/B Guide Tip (4mm & 6mm Rod)

The following 2 Guide Tips do not require end connectors and provide additional flexibility on tight corners.
M277/7 Special Guide Tip 11mm Rod
M277/8 Special Guide Tip 9mm Rod

END CONNECTOR
Male Rod End Connector supplied as standard at both ends of all Conduit Rods. Threaded end allows the connection of other Rod accessories.
M407/1 14mm End Connector
M277/3 11mm End Connector
M277/4 9mm End Connector
M279/A 6mm End Connector
M371/1 4mm End Connector
Please note ADH1 adhesive also required to fit connector to rod.

REPAIR KIT
Connector used to repair breakage’s to Conduit Rod, the fitting is used with ADH1 Adhesive which is included.
RK14 14mm Repair Kit inc. Adhesive
RK11 11mm Repair Kit inc. Adhesive
RK9 9mm Repair Kit inc. Adhesive
RK6 6mm Repair Kit inc. Adhesive
RK4 4mm Repair Kit inc. Adhesive

M342/4 SWIVEL CONNECTOR
An ideal accessory to have when a single rod is not long enough for the duct length to be rodded. Two rods can be screwed together. Suitable for both 9mm, 11mm and 14mm rod.

FLEXIBLE GUIDE TIP
Used to guide Conduit Rod around bends, available with Spring End and also Wire Rope End/Flexible Leader which have the added facility of being able to pull back draw rope without reverting to a standard guide tip.
FGT1 Flexible Guide Tip with Spring
FGT2 Flexible Guide Tip with Wire Rope (Heavy Duty)
FGT3 6mm Flexible Leader Rod
All above suitable for 9mm, 11mm and 14mm rod.

OTHER ACCESSORIES
GB1 Guide Ball (14mm, 11mm and 9mm Rod) = Used to assist Conduit Rod around bend.
PRG1 Protective Rod Guide = Supplied with all Conduit Rod Reels.
ADH1 3ml Adhesive = Used to glue End Connectors to Conduit Rod.
LDS2 Shackle (9mm, 11mm and 14mm Rod) = Used with Guide Tip when a larger pulling eye is required.
DUCT EQUIPMENT

RIGID PVC DUCT RODS

PVC Rods available in two and three metre lengths. The joint is commonly known as the Ferret type which operates on the principles of a spring loaded pin engaging into a mating hole. When the joints are screwed together the trigger which is flush with the body of the joint is pressed for quick release. Accessories also available.

RD1  Duct Rods 3mtr long x 24mm O. D
RD2  Duct Rods 2mtr long x 24mm O. D
LM1  Rod Male Leader (to assist rod through Duct)
FF2  Rod Female follower (for tying Draw Rope etc to)
CUP1 Coupling up set 35mm dia
CUP2 Coupling up set 48mm dia

DUCT BRUSHES

Cylindrical Brush With Polypropylene Centres drilled and fitted with threaded steel Rod, Steel end caps and Pulling Eye each end. Overall length including Eye 350mm.
Standard sizes as follows

CB57  Cylindrical Brush 57mm
CB80  Cylindrical Brush 80mm
CB86  Cylindrical Brush 86mm
CB95  Cylindrical Brush 95mm
CB108 Cylindrical Brush 108mm
CB150 Cylindrical Brush 150mm
CB200 Cylindrical Brush 200mm
Specials available on request.

STEEL MANDRELS

For Duct proving. Black painted steel 240mm long fitted with threaded steel rod and pulling eye each end to give overall length of 350mm.
Standard sizes as follows

SM43 Steel Mandrel 43mm
SM70 Steel Mandrel 70mm
SM76 Steel Mandrel 76mm
SM79 Steel Mandrel 79mm
SM83 Steel Mandrel 83mm
SM95 Steel Mandrel 95mm
Specials available on request

CABLE LUBRICANT

A range of high quality Lubricants for both the power and telecommunications sectors.

POWER - Pail size 20 ltr.
CL1 Techlube H.D – Developed for large power and also heavy telecommunication cables High cling factor enables it to remain evenly coated on large diameter cables allowing it to slip into ducts more easily then conventional lubricants.

TELECOMMUNICATIONS - Pail size 20 ltr.
LD1 Lubricants – Approved to BT Specification MAT 138C Emulsion based with silicone this product is specially formulated with added micro beads to reduce pulling friction by up to 70%

LD2 Lubricant – Low cost version of the above. Generally the same as LD1 but without the micro beads.
**HYDRAULIC CABLE CUTTER**

HHC120 Hydraulic Cutting Head
Designed to cut aluminium, copper and telecommunication cables having a maximum overall diameter of 120mm. For use with HHP1 Foot Pump. Other sizes available on request.

HHC085 Hand Operated Hydraulic Cutting Tool
Designed to cut copper, Aluminium and telecommunication cable having a max overall diameter of 85mm.

**HYDRAULIC CRIMPING TOOLS**

HOCT 400H Crimping Tool
A "C" type hand Hydraulic Tool for Crimping Copper tube terminals 10 to 400mm² using hexagon dies (13 dies required to cover this range). Head Rotates through 180° to allow operation in restricted places.

HOCT 400
Hydraulic head only generally as above used with HHP1 Foot Pump.

HOCT630 Hydraulic Crimping Head
For crimping Copper Tube Terminals 10-630mm². For use with HHP1 Foot Pump.

HOCT 1000 Hydraulic Crimping Head
For crimping up to 1000mm². For use with HHP1 footpump. Dies available.

**FOOT PUMP**

HHP-1 Hydraulic Foot Pump
New foot operated double speed pump. Developing a maximum pressure of 700 bar. The pump is supplied with 3m long high pressure flexible hose complete with female self lock quick coupler.

Pressure can be withdrawn at any time during operation by depressing the release lever. A solid stand gives the pump stability during operation.

**MEASURING WHEELS**

MW1
Measuring wheel supplied with carry bag. Low cost measuring wheel with high specification. Adds forward and subtracts in reverse. Measures along shapes as well as straight lines. 5 digit measuring up to 10,000 meters without resetting. Simple reset lever to zero. Lightweight only 1.5Kgs.

Available also in electronic read out.

MW2
Measuring wheel c/w stand, brake and carry case, 6 digits measuring up to 100,000mtrs otherwise as above.
CABLE AVOIDANCE TOOLS

Following the HSE recommendations for safe digging practice, get some serious cable locating equipment on the job and make sure it gets used. Please find below the current SEB range of cable locating equipment.

CAT33 Cable Avoidance Tool
The CAT 33 is a full function, industry standard locator which every ground working operative will find familiar and easy to use. Better by design the budget priced Cable Avoidance Tool is robust, lightweight and packed full of features inc. Meter, detachable loud speaker and fingertip controls.

CAT 33XD High Performance Cable Avoidance Tool
With all the features of the standard CAT33, but the CAT 33XD is equipped with more power, more precision and more information from underground. The CAT 33XD also has depth mode which when used in conjunction with the SG33 signal generator displays the depth of an applied signal on the YIRS 33 sonic with instant accuracy.

SG33 Signal Generator
Enhance the delectability of cables and pipes, trace out the route of specific services. Use the Signal Generator to transmit an easily identifiable signal along a cable or pipe. Trace the lines using the Cable Avoidance Tool. New industry accepted 33KHZ operating frequency for clearer signal reception.

SIGNAL CLAMP
Extend the powerful versatility of the Signal Generator. Clip the Signal Clamp around a cable and safely transfer the Generator signal.

MINITRAN
Trace non-metal pipes. Find pipe blockages. Track the movement of in-pipe plant. A range of self contained transmitters propelled along a pipe or conduit, and their surface by the locator.

PIT LIFTERS

<table>
<thead>
<tr>
<th>PART NO.</th>
<th>DESCRIPTION</th>
<th>PART NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>S00-3002</td>
<td>A) NO 2 PIT LIFTER</td>
<td>S00-3031</td>
<td>D) LIFTING KEYS 9758 (EACH)</td>
</tr>
<tr>
<td>S00-1072</td>
<td>B) HEAVY DUTY MANHOLE KEY</td>
<td>S00-1463</td>
<td>E) REPLACEMENT HOOK FOR A</td>
</tr>
<tr>
<td>S00-1073</td>
<td>C) 4&quot; MANHOLE KEY (PAIR)</td>
<td>S00-7906</td>
<td>F) 4 WAY UTILITIES KEY</td>
</tr>
</tbody>
</table>

Also Available (not illustrated)
Hydraulic Cover Lifters (2 Hole) Part No 500 - 4019
4 hole accessory kit Part No 500 - 4020
Key Box No 5 Part No 500 - 4276
HYDRAULIC JACKS
Lightweight hydraulic drum jacks which are almost indispensable for use in the cable yard. Versatile and easily adjustable within seconds to accommodate a vast range of drums. Excellent all round stability, fitted with wheels to be easily moved by one person. Supplied complete with spindle and collars. (Refer Below) Paint finish.

<table>
<thead>
<tr>
<th>Model</th>
<th>Capacity/pair</th>
<th>Min drum dia</th>
<th>Max drum dia</th>
<th>Base Area</th>
<th>Weight/pair</th>
</tr>
</thead>
<tbody>
<tr>
<td>HJ3</td>
<td>3 Tonnes SWL</td>
<td>800mm</td>
<td>2500mm</td>
<td>830x700mm</td>
<td>106Kg</td>
</tr>
<tr>
<td>HJ6</td>
<td>6 Tonnes SWL</td>
<td>880mm</td>
<td>3000mm</td>
<td>900x765mm</td>
<td>118Kg</td>
</tr>
<tr>
<td>HJ10</td>
<td>10 Tonnes SWL</td>
<td>1080mm</td>
<td>3500mm</td>
<td>1060x985mm</td>
<td>180Kg</td>
</tr>
</tbody>
</table>

JACK TOWERS
Designed for heavy drum lifts. Robust engineered construction with hydraulic jacks and adjustable height spindle support blocks. (Spindle/collars not included - Refer Below) Paint finish.

<table>
<thead>
<tr>
<th>Model</th>
<th>Capacity/pair</th>
<th>Min drum dia</th>
<th>Max drum dia</th>
<th>Base Area</th>
<th>Weight/pair</th>
</tr>
</thead>
<tbody>
<tr>
<td>JT20</td>
<td>20 Tonne</td>
<td>1480mm</td>
<td>3400mm</td>
<td>1830x285mm</td>
<td>370Kg</td>
</tr>
<tr>
<td>JT20L</td>
<td>20 Tonne</td>
<td>2360mm</td>
<td>3400mm</td>
<td>1830x760mm</td>
<td>425Kg</td>
</tr>
<tr>
<td>JT30</td>
<td>30 Tonne</td>
<td>3000mm</td>
<td>4500mm</td>
<td>2000x800mm</td>
<td>660Kg</td>
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</tbody>
</table>

The JT20L unit is equipped with an extra outrigger leg for more stability on uneven ground.

SCREW JACKS
A range of Cable Drum Jacks easy to handle and simple operation. Base plate designed to give stability even on soft ground. (Spindle/Collars not included - Refer Below) Paint finish.

<table>
<thead>
<tr>
<th>Model</th>
<th>Capacity/pair</th>
<th>Min drum dia</th>
<th>Max drum dia</th>
<th>Base Area</th>
<th>Weight/pair</th>
</tr>
</thead>
<tbody>
<tr>
<td>SJ3</td>
<td>3 Tonne</td>
<td>1060mm</td>
<td>1600mm</td>
<td>300x300mm</td>
<td>37Kg</td>
</tr>
<tr>
<td>SJ6</td>
<td>6 Tonne</td>
<td>1360mm</td>
<td>1900mm</td>
<td>460x300mm</td>
<td>45Kg</td>
</tr>
<tr>
<td>SJ8</td>
<td>8 Tonne</td>
<td>1660mm</td>
<td>2200mm</td>
<td>600x300mm</td>
<td>76Kg</td>
</tr>
</tbody>
</table>

JACK PLINTH
Cable drums are increasingly becoming larger but not necessarily heavier. Common practice is to build up the jacks with sleepers, or wood blocks – not recommended- Jack Plinths give an additional 300mm lift safely. Paint finish.

<table>
<thead>
<tr>
<th>Model</th>
<th>Length</th>
<th>Width</th>
<th>Height</th>
<th>Weight/pair</th>
</tr>
</thead>
<tbody>
<tr>
<td>JP36B</td>
<td>1200mm</td>
<td>320mm</td>
<td>300mm</td>
<td>60Kg</td>
</tr>
</tbody>
</table>

SPINDLES
We recommend the following sizes which are normally stocked by us. Locking Collars can be provided on request. Paint finish.

<table>
<thead>
<tr>
<th>Max drum Wt.</th>
<th>Ref.</th>
<th>Spindle dia.</th>
<th>Length</th>
<th>Construction</th>
<th>Weight</th>
<th>Recommended for use with</th>
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</thead>
<tbody>
<tr>
<td>6 Tonnes</td>
<td>DS4</td>
<td>50mm</td>
<td>1219mm</td>
<td>Tubular Steel</td>
<td>12Kg</td>
<td>SJ3</td>
</tr>
<tr>
<td>6 Tonnes</td>
<td>DS6</td>
<td>50mm</td>
<td>1800mm</td>
<td>Tubular Steel</td>
<td>18Kg</td>
<td>SJ6, HJ3</td>
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<tr>
<td>12 Tonnes</td>
<td>DS12</td>
<td>76mm</td>
<td>2100mm</td>
<td>Tubular Steel</td>
<td>53Kg</td>
<td>SJ8, HJ6 and HJ10</td>
</tr>
<tr>
<td>20 Tonnes</td>
<td>DS20</td>
<td>100mm</td>
<td>2900mm</td>
<td>Tubular Steel</td>
<td>100Kg</td>
<td>JT20 and JT20L</td>
</tr>
<tr>
<td>30 Tonnes</td>
<td>DS30</td>
<td>127mm</td>
<td>4000mm</td>
<td>Tubular Steel</td>
<td>200Kg</td>
<td>JT30</td>
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</tbody>
</table>
CDR2 Cable Drum Rotators

Heavy Duty all steel welded fitted with one fixed and one adjustable diablo shaped steel roller with sealed bearings. Maximum drum payload 1500kgs.
Finish: Painted
Drum dia. max. 2400mm Drum dia. min. 300mm.
Drum width Adjustable.
Size each 1000mm x 225mm x 120mm. Weight per pair 54Kgs.

CDR3 Cable Drum Rotators

Rollers - Zinc plated steel - adjustable and fitted with sealed bearings. Maximum Drum payload 200Kgs.
Finish: Zinc plated.
Drum dia. max. 750mm Drum dia. min. 200mm
Drum width 520mm
Base size 630mm x 550mm Weight 16Kgs.

DTS1 Drum Tip Stand

For ease of lifting and payout of cable.
All steel welded tubular frame.
Max. drum dia. 1750mm
Max. drum width 930mm
Drum weight 750Kgs.
Paint finish.

Cable Ramp

The Cable Ramp is designed to support and guide the cable directly from the cable drum and directly into the trench or duct mouth in a controlled manner, by means of a series of rollers. The unit is designed and built to order and therefore can be made to your specification.
Paint finish.

CDS1 Universal Cable Drum Stand

Lightweight unit suitable for a variety of cabling applications.
Complete with spindle.
Accommodates drums up to 600mm diameter and 500mm wide.
Zinc plated frame.
Max. drum weight 100kgs.
Cable Drum Stand with Optional Drum Drive

This unit has been specifically designed to meet the needs of contractors where the necessity or the ability to have a Cable Drum Trailer is simply not practical.

Available with either a fixed spindle (shown), i.e. drum loaded by external means, or supplied self sufficient in lifting and lowering as used on standard Cable Drum Trailers in our range.

The unit comes with a range of options to suit most applications for both the Utility and Rail industries.

Diesel, Petrol, Electric or PTO Drum Drive system for ease of cable payout.
Bolt holes or twist locks for mounting to the floor of a vehicle.
Turntable mounted which allows for 360 degrees of axis movement for total flexibility when solid mounted.

Designed and manufactured to suit clients requirements.

GENERATOR SET TRAILERS

Our range of generator set trailers utilise the same build techniques and quality as our range of cable trailers. We can manufacture the trailers to suit your specific generator set unit and we are able to conform to full EEC, non EEC or site only specification.

Tandem Axle Drawbar Trailers with payloads upto 8650 Kgs

Single Axle Drawbar Trailers with payloads upto 1675 Kgs

Turntable Steer Trailers - Model shown is 12000Kgs gross fitted with ABS breaking to full UK highway specification
CABLE LAYING IN DUCTS

A Typical Layout of Equipment used for Installing Cable into Ducts

PREPARATION FOR CABLE PULL

1. Cable Winch
2. Rope Guide Roller
3. Bellmouth
4. Bellmouth
5. Conduit Rod
6. Swivel Link

1. Cable Winch
2. Rope Guide Roller
3. Bellmouth
4. Bellmouth
5. Cable Drum Trailer or Cable Jacks
6. Swivel Link
7. Cable Stocking
8. Manhole Roller
9. Cable Lubricant

Typical Fibre Optic Cable Pull

Assist Winch  Assist Winch  Cable Drum Trailer Central to Pull  Assist Winch  Assist Winch

Position cable drum trailer at mid point and winches at pits A & B.

The winches at pits B & C are placed at mid point of the run to keep pulling tension down to a minimum thereby allowing longer pulls to be achieved without the need of expensive splicing.

After the cable has been pulled through to Pit A the remaining cable on the drum can then be fleted to obtain the other end of the cable to be pulled through the duct.

The winches can then be repositioned at Pits C & D and the cable can then be pulled through to Pit D.
CABLE LAYING IN OPEN TRENCH

Typical Layout of Equipment used for Installing Cable in Open Trench

Also available not listed
Continuous Duct Rods
Hydraulic Cable Cutters
Hydraulic Crimping Tools
and many other cabling accessories

Compatibility of Winch to Cable Weight/Drum Trailer

FW3000 Cable Winch

Maximum Cable & Drum Weight 10 tonnes upto
CD250 Cable Drum Trailer

Cable Roller Spacing 2 - 2.5 mtr

TW5000 Cable Winch

Maximum Cable & Drum Weight 30 tonnes upto
CD700 Cable Drum Trailer

Cable Roller Spacing 1.5 - 2 mtr

Important  Do not leave lead sheathed cable on cable rollers over nights as the cable will sag between rollers. This can potentially, cause damage to the cable.

The winch/trailer compatibility is intended as a general guide only and is dependent on the site conditions and cable route.
The Complete Cabling Package