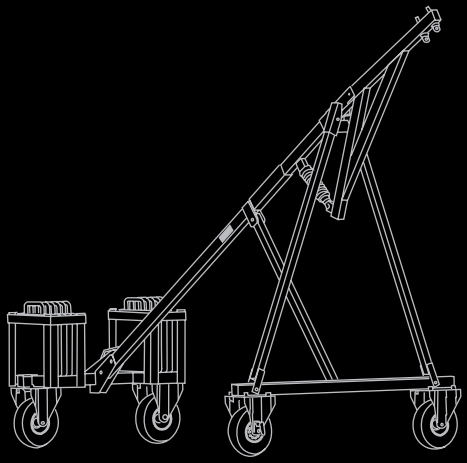
I|S|C

Solutions in Metal

A-Frame Anchor



CE 0120

1 + 2

climb. work. rescue.

Deadweight Anchors

DW200 A Frame

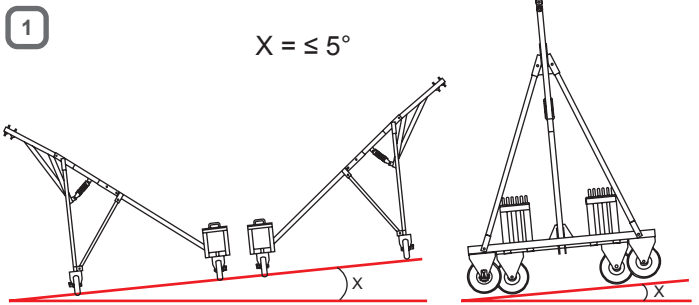
This DW200.2 A Frame is primarily designed and tested to be used as a portable anchor device for Rope Access (work positioning) systems/activities.
The DW200.2 A Frame has been tested in accordance with EN795: 2012 Type E by SATRA in the UK and CE marked accordingly.
The unit has been further tested and found to meet the requirements of PD CEN/TS 16415: 2013 'anchor devices for two person rescue' and also the IRATA and SPRAT ICoP requirement that anchors for rope access must meet a 15kN static test.
For rope access standards requirements please refer to ISO 22846-1:2003, BS7985: 2002, BS EN12841: 2006, BS7883 or equivalent international standards and Codes of Practice.

Installation Considerations

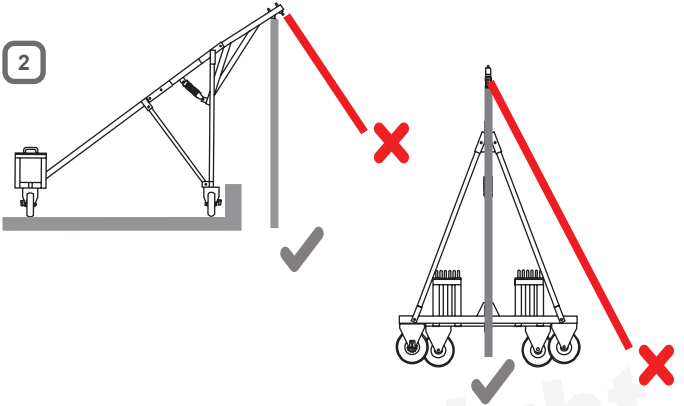
- Roof surface is appropriate, i.e. Surface material, ballast, water, foreign matter, angle. All of these factors could affect the frictional resistance of the device and create a hazard
- All loose surface material should be removed before assembly and installation of the device

Users of this equipment shall be able to demonstrate either in-house expertise or hold suitable training certificates in Working at Height / industrial rope access
Rescue – The device has a Maximum Rated Load of 200kg (440lbs) and can be used for a 2 person load in a rescue situation in accordance with PD CEN/TS 16415: 2013
There must be sufficient free space beneath the user at the work area before each occasion of use, so that in the case of a dynamic event there will be no collision with the ground or other obstacles in the fall path

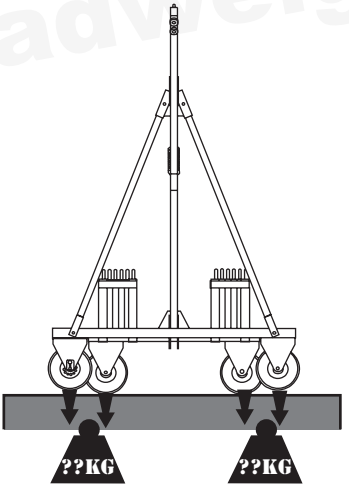
A General Limitations



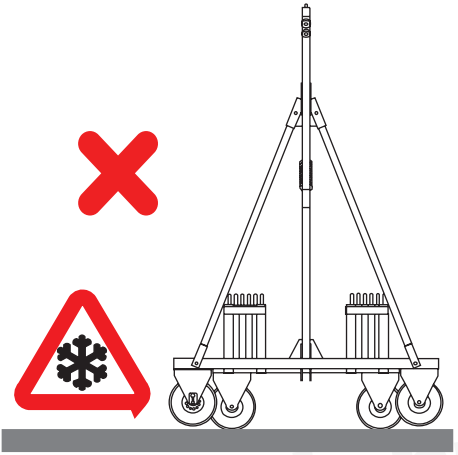
2



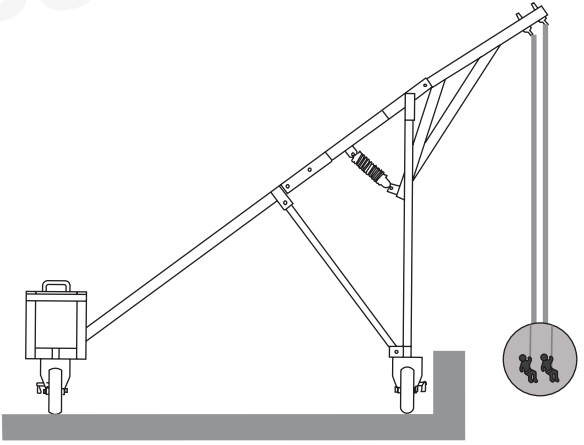
3



4



5

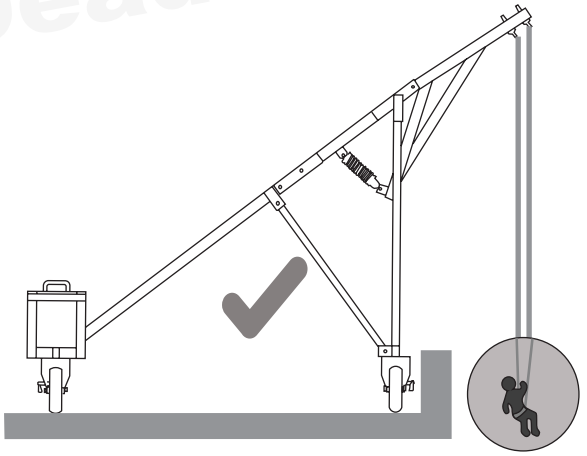


[A] General Limitations

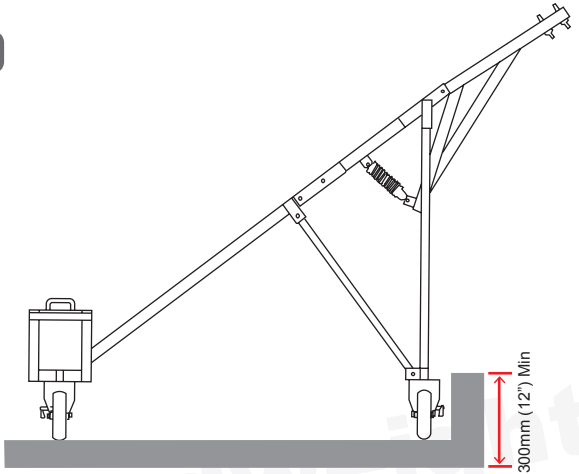
1. The Deadweight should not be used on a surface that slopes more than 5°.
2. The Deadweight must be used so that the operator is in line with the equipment's direction to prevent the possibility of a pendulum occuring in the event of a fall
3. Ensure that the strength of the structure is adequate
4. The Deadweights should not be used on frozen surfaces. The presence of ice may cause the unit to slip
5. The Deadweight is for use by a single person. In the event of a rescue being required, the Deadweight can be used with a 2 person load in accordance with PD CEN/TS 16415: 2013
6. Do not use Deadweight anchors outside of their limitations as outlined in this manual
7. The user shall be equiped with means of limiting the maximum dynamic forces exerted on the user during a dynamic event to less than 6kN
8. If the intention is to combine PFPE for Fall Arrest with Deadweight Anchors the user should seek guidance from the manufacturer as to its suitability. Always ensure that all components within a safety system are compatible and allow the system to function safely

B Use

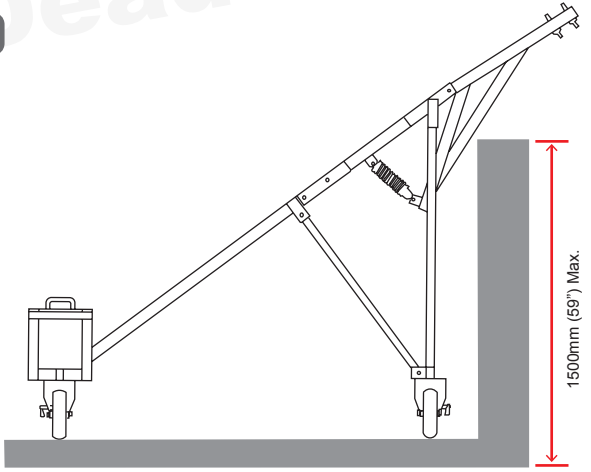
1



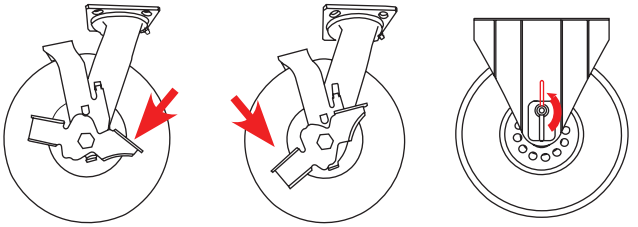
2



3

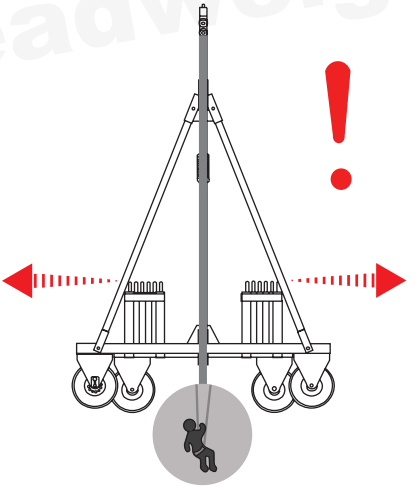


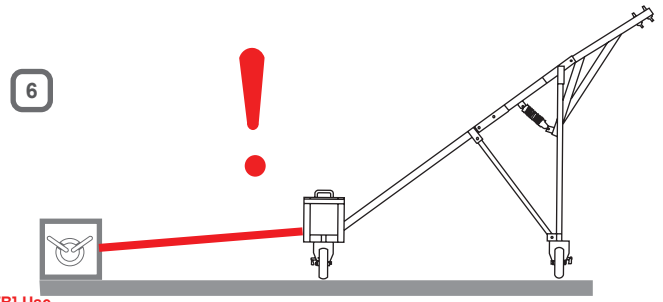
4



Brake Off **Brake On**

5

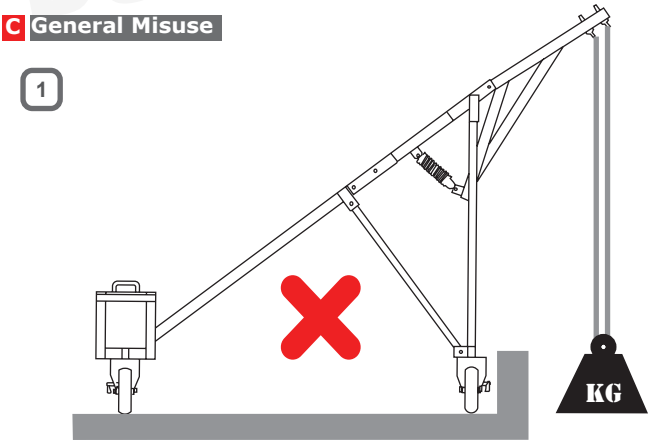




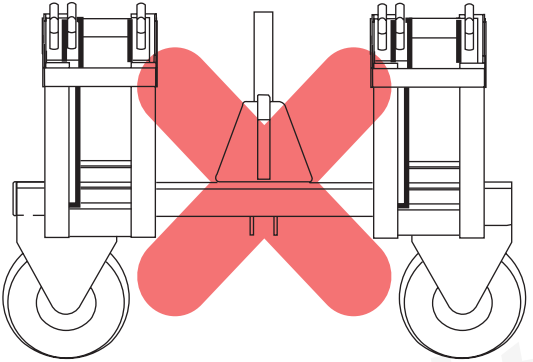
[B] Use

1. The DW200 is designed to be used as part of a roped access system with twin ropes, work positioning harness and associated equipment
2. The DW200 should be used with a parapet wall with a minimum height of 300mm (12”)
3. The DW200 should be used with a parapet wall with a maximum height of 1800mm (59”)
4. Wheel brake operation. To unlock the wheel, push down the braking lever on the side marked OFF The wheel will now rotate. To lock the wheel, push down the braking lever on the side marked ON. Wheel brake operation. To unlock the wheel, pull the red locking bolt out and rotate 180° counter clockwise. The wheel will now rotate. To lock the wheel, reverse this process.
5. Care should be taken when repositioning the DW200 whilst a person is suspended. This option should be thoroghly risk assessed by a competent person
6 If no parapet wall is available, then the DW200 may be tied back to a suitable anchor to prevent unintentional movement. Soft slings should be used around the rear wheel support assembly [11] This option should be thoroghly risk assessed by a competent person

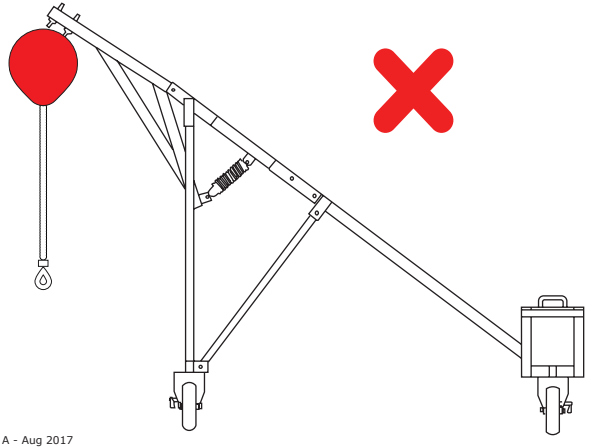
C General Misuse



2



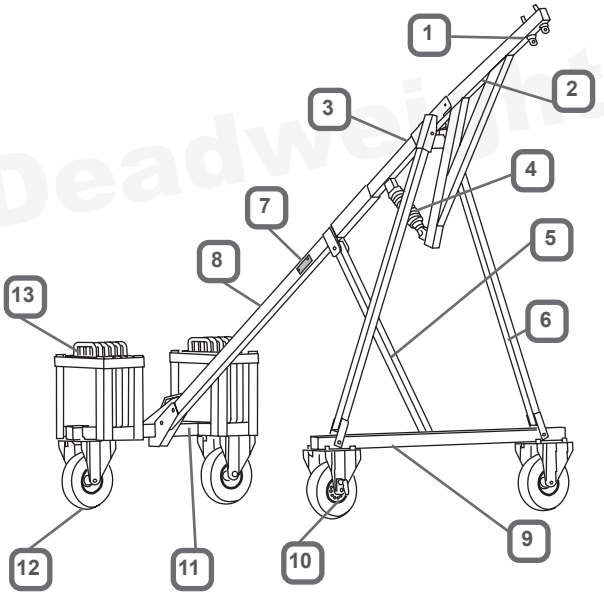
3



[C] Misuse

1. The Deadweight should only be used for people. It should not be used for suspending loads
2. All weights must be used at all times. Weights may need to be secured to the frame by passing a chain through the handles and the frame to prevent tampering during use
3. Do not use the Deadweight as an anchor for Self Retracing Lanyards

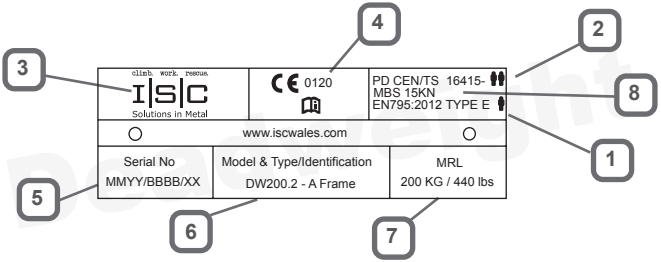
D Nomenclature



[D] Nomenclature

1. Anchor Points
2. Top Boom
3. Middle Boom
4. Shock Absorber
5. Centre Stay
6. A-Frame Leg
7. Manufacturers Plate
8. Lower Boom
9. Front Wheel Support Bar
10. Rotating Wheel Assembly with Brake
11. Rear Wheel Support Assembly
12. Fixed Wheel Assembly with Brake
13. 25kg Weight
14. M12x30mm Bolt
15. Sword Pin
16. M10x16mm Bolt + M6 Hex nut

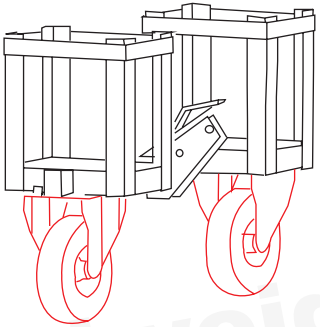
E Markings and Conformity



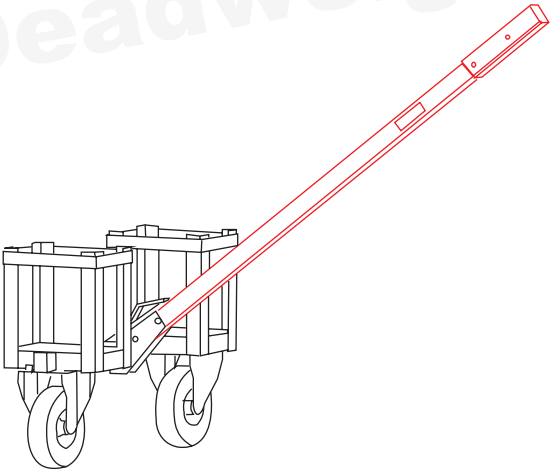
[E] Markings and Conformity

1. Approved to EN795: 2012 Type E - Single person use
2. PD CEN/TS 16415: 2013 – Recommendations for anchor devices for use by more than one person simultaneously
3. Manufacturers Identification
4. Notified Body controlling the manufacture of PPE
5. Serial Number
6. Model Identification
7. Maximum Rated Load
8. 15kN (3372lbf) in accordance with IRATA ICoP and other leading industry guidance.

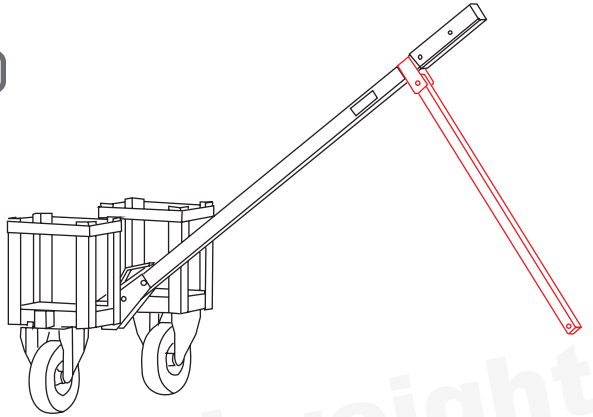
1



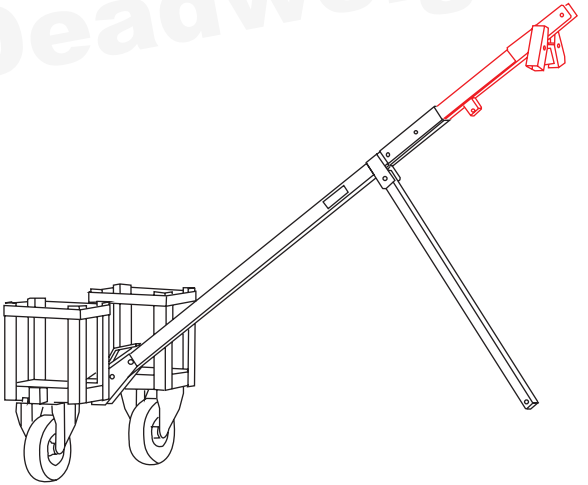
2



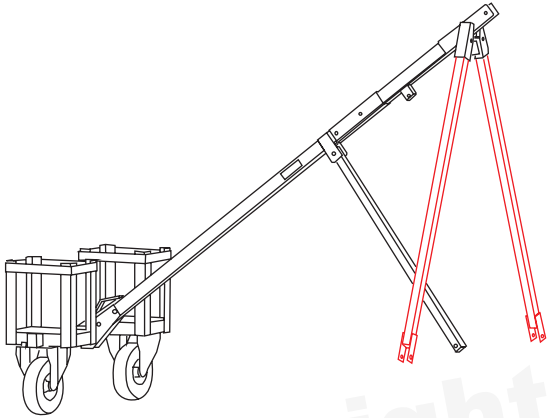
3



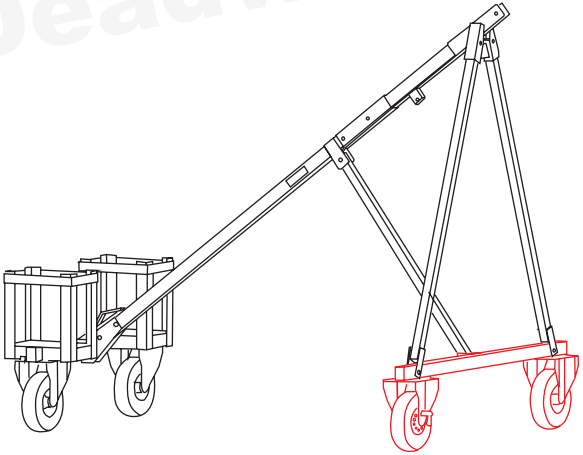
4



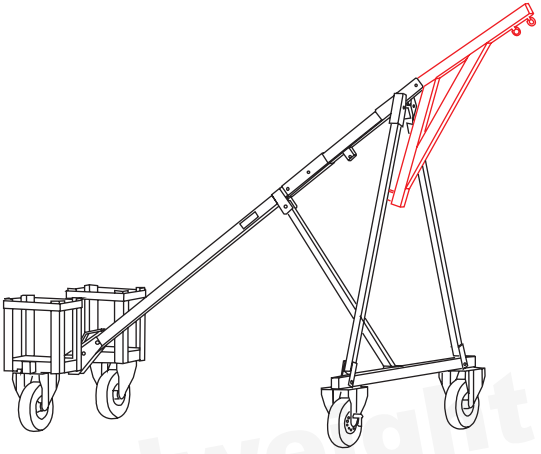
5



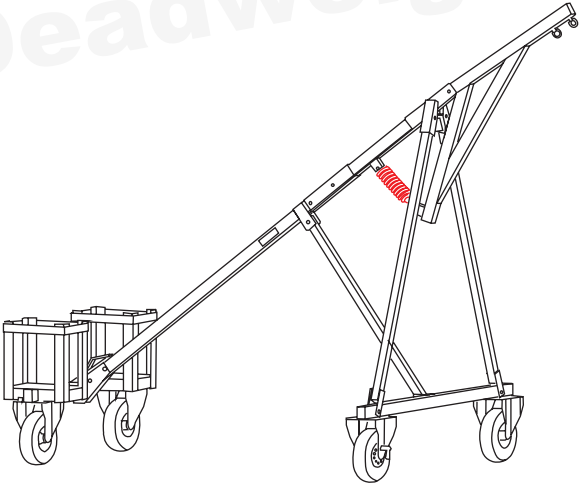
6



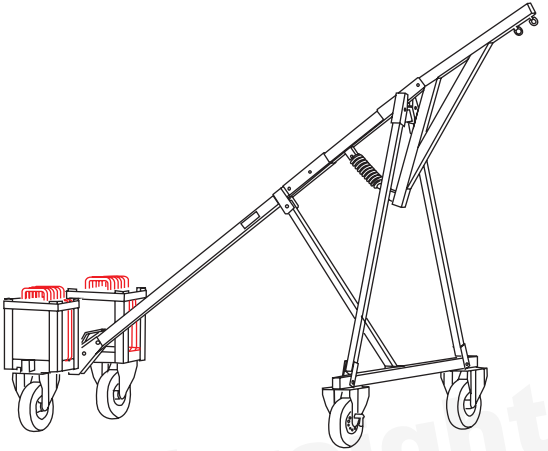
7



8



8



Deadweight

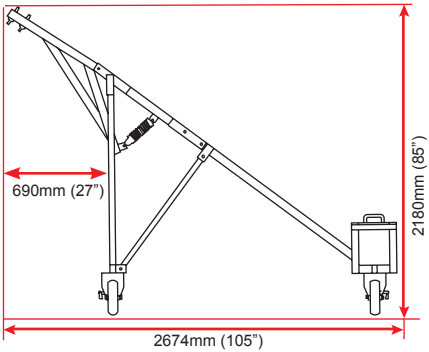
[F] Assembly

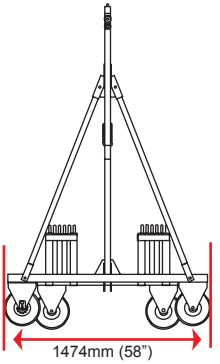
1. Attach [12] x2 to [11] using [14]
2. Attach [8] to [11] using [15] x2
3. Attach [5] to [8] using [15] x1
4. Attach [3] to [8] using [15] x2
5. Attach [6] x2 to [3] using [15] x2
6. Attach [10] x2 to [9] then attach [9] to [6] using [15] x2
7. Attach [2] to [3] using [15] x1
8. Attach [4] between [2] and [3] using [16]
9. Insert [13] x12 into [11]

G Technical Information

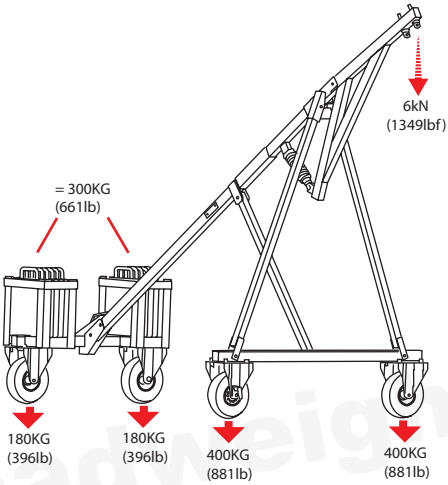
1	30nM / 20.65lbF
2	30nM / 20.65lbF
3	2.07 bar / 30 PSI
4	400mm / 15.7”
5	600mm / 23.6”
6	70mm (200kg) /2$^{3/4}$” (440lbs)
7	390kg (860lbs)

8





9



[G] Technical Information

1. Anchor Point bolt torque setting
2. Wheel attachment bolt torque setting
3. Inflation pressures for tyres
4. Minimum distance for positioning from an edge
5. Maximum distance for positioning from an edge
6. Maximum deflection is 0.07m (200kg)
7. Total Unit Weight
8. Dimensions
9. Point Loading

Pre-Use Inspection

1. Eyebolts: Ensure all eyebolts are securely attached
2. PPE Discs are present and in date
3. Weights: Ensure all weights are in place and secure
4. Sword Pins: Ensure all sword pins are in place and secure
5. Wheels: Ensure all wheels are secure, functioning and correctly inflated (see section [H.3])

Thorough Inspection

1. The Deadweight should be periodically inspected by a competent person in line with local and current legislation. The PPE discs located at the Anchor points [1] should also be replaced by the competent person at the same time and marked with next inspection date
2. In the event of a fall the unit must be withdrawn from use and inspected. It should not be put back into service until signed off by a competent person.
3. If any irregularities are found, then parts may be replaced or the unit should be retired

- Dents or loss of section
- Missing weights
- Damaged eye bolts
- Damaged welds

Care and Maintenance

1. The Deadweight is finished with a powder coating, this will chip over time so it is recommended that any exposed metal is kept rust free and touched up with a weather resistant, metal paint. It is recommended that all working parts are lubricated on a periodic basis with a suitable lubricant such as a light oil. It is recommended that the Deadweight is stored under cover at night and in the event that it becomes wet, it is dried and stored in a well-ventilated area away from direct heat.
2. The product should be stored in a clean, dry environment free from corossive or chemical substances. Care should be taken to protect the product against damage during transportation.

Repair and Servicing

The end user may only carry out repair / replacement to wheels and sword pins

1. Wheel Replacement: Remove bolts and washers. Replace the wheel(s) and reattach using new bolts
2. Sword pin replacement: Prise open Darlaston Washer with a flat headed screwdriver. Insert chain-link of new sword pin and close Darlaston Washer with a soft-faced hammer

Product Record

1					
2					3
4					5
6					7
8	9	10		11	12
		✓	✗		
		✓	✗		
		✓	✗		
		✓	✗		
		✓	✗		
		✓	✗		
		✓	✗		
		✓	✗		
		✓	✗		
		✓	✗		
		✓	✗		
		✓	✗		
		✓	✗		
		✓	✗		
		✓	✗		
		✓	✗		

Product Record Details

1	Item
2	Serial Number.
3	Year of manufacture
4	Purchased from
5	Purchase date.
6	Name of Manufacturer
7	Date of first use.
8	Inspection date.
9	Reason (periodic examination (E) or repair (R)).
10	Conform.
11	Comments.
12	Signature.

Approvals

Notified Body having carried out the CE type test (Art. 10): VG11 RfU 11.114 Iss.2, PD CEN/TS 16415:13. NFPA 1983 (17Ed) G

SATRA Technology Centre (0321),
Wyndham Way,
Telford Way,
Kettering,
Northamptonshire,
NN16 8SD.
U.K.

Notified body responsible for production monitoring and inspection (Art. 11B):

SGS United Kingdom Ltd (0120),
Unit 202B,
Worle Parkway,
Weston Super Mare.
S22 6WA.
U.K.

climb. work. rescue.

I|S|C

Solutions in Metal

International Safety Components Ltd.
Unit 1, Plot 2
Llandygai Industrial Estate
Bangor
Gwynedd
LL57 4YH
United Kingdom

T> +44 (0) 1248 363 125
F> +44 (0) 1248 372 118

sales@iscwales.com
www.iscwales.com