

TECHNICAL DATA

SPECIFICATIONS

1. For compressive load applications in formwork and backpropping only.
2. Add a second screwjack for needed extensions in height. Titan legs can also be stacked one on top of the other for added extension.
3. 200x170mm head plate with universal bolt pattern.
4. Large capacity leg is made of high-strength aluminium. Its profile is octagonal with continuous t-bolt slots on 4-sides. Aluminium ledger frames can be installed between titan prop legs to form a table that can be rolled or flown from one placement to the next.
5. Fail-safe hook locks screwjack to leg to form one complete assembly. Hook prevents screwjack from slipping out of leg for safe hoisting and improved productivity.
6. Iflon plate separates leg and cast adjusting handle for easy turning, even when stripping with a load.
7. Galvanized cast adjusting handle adjusts titan prop leg 25.4mm for each full revolution of the handle.
8. Large capacity screwjack is made of high-strength aluminium. Rolled, square threads adjust quickly from 76mm to 1194mm. A fail-safe thread stop prevents the screwjack from being extended beyond the 1194mm maximum.
9. 150x150mm base plate with universal bolt pattern.

TITAN No.2

Weight = 17kg
Closed Length = 1700mm
Open Length = 2900mm
Refer to Page 5 for Load Capacities

TITAN No.3

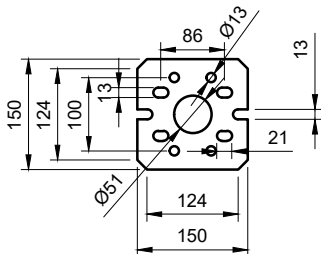
Weight = 19kg
Closed Length = 2400mm
Open Length = 3600mm
Refer to Page 5 for Load Capacities

TITAN No.4

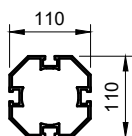
Weight = 21kg
Closed Length = 2900mm
Open Length = 4100mm
Refer to Page 5 for Load Capacities

TITAN No.6

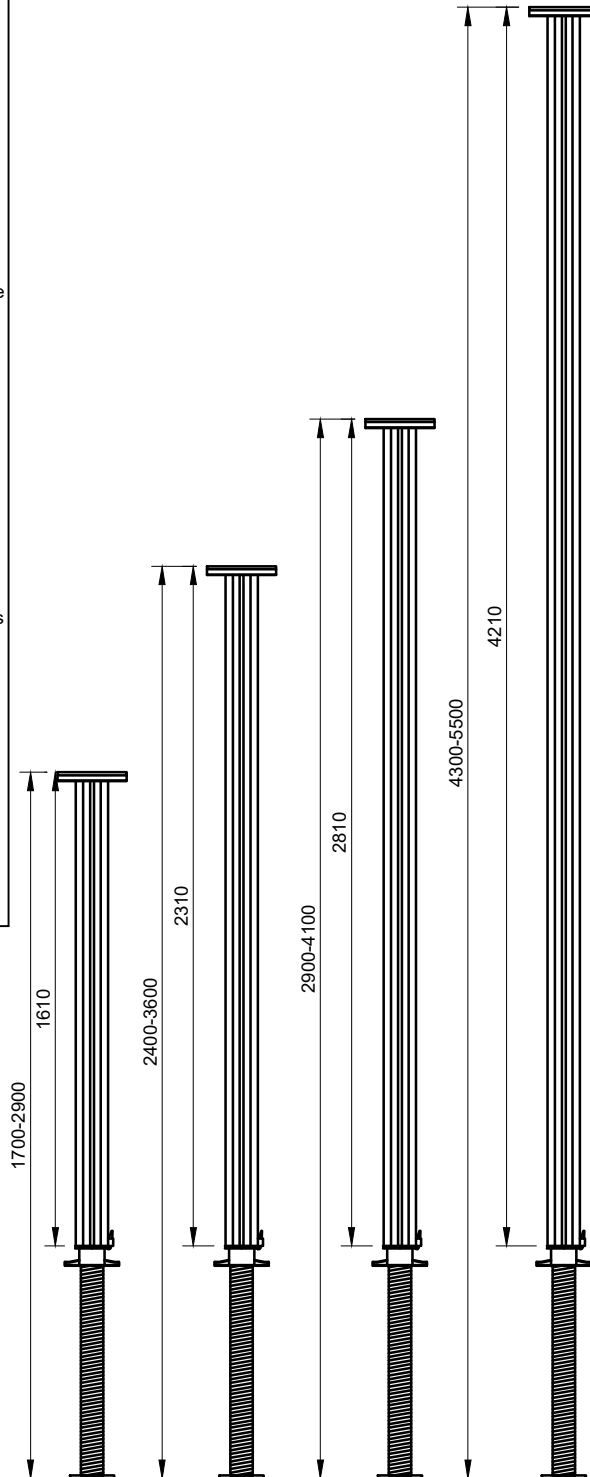
Weight = 28kg
Closed Length = 4300mm
Open Length = 5500mm
Refer to Page 5 for Load Capacities



BASEPLATE DETAIL



CROSS SECTION

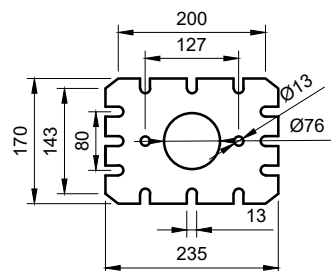


TITAN No.2

TITAN No.3

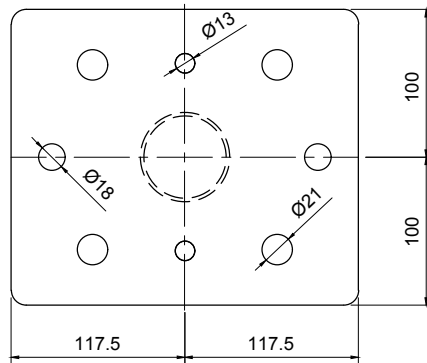
TITAN No.4

TITAN No.6



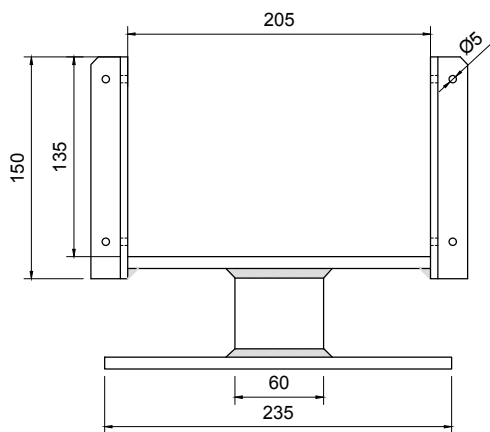
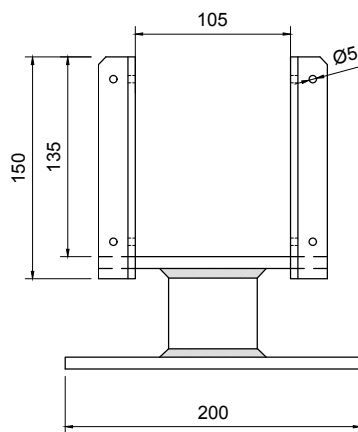
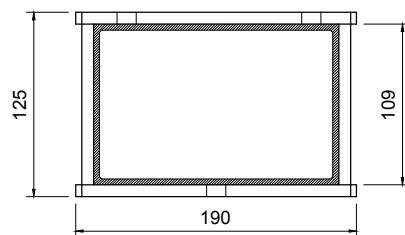
HEADPLATE DETAIL

TECHNICAL DATA

**END PLATE DETAIL**

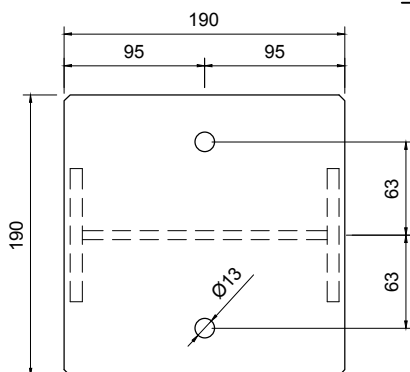
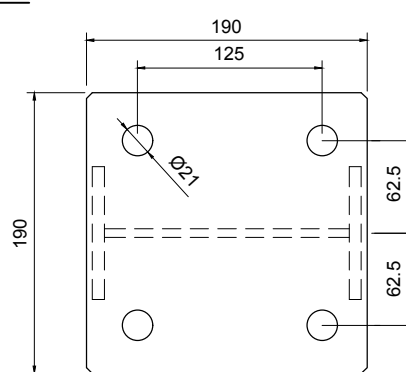
TITAN TO U-HEAD CLAMP (6kg)

1. All dimensions in mm U.N.O.
2. Steel material to be minimum Grade 350 in accordance with AS 3769.
3. Section steelwork is to be hot dipped galvanised to AS 4680:2600.
4. All hole openings are +/- 0.125mm U.N.O.
5. All welding to be minimum 6mm C.F.W. to class SP of AS 1554.

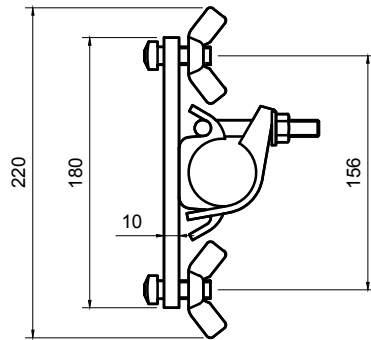
**SIDE VIEW 1****SIDE VIEW 2****SIDE ELEVATION**

TITAN TO SHORE 400 ADAPTOR (6.7kg)

1. All dimensions in mm U.N.O.
2. Steel material to be minimum Grade 350 in accordance with AS 3769.
3. Section steelwork is to be hot dipped galvanised to AS 4680:2600.
4. All hole openings are +/- 0.125mm U.N.O.
5. All welding to be minimum 6mm C.F.W. to class SP of AS 1554.

**END PLATE DETAIL 1****END PLATE DETAIL 2**

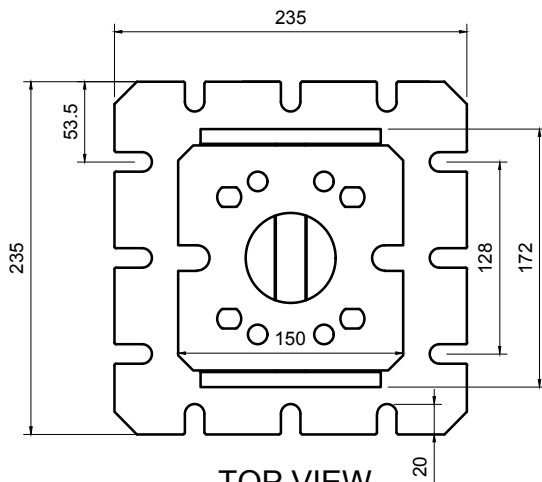
TECHNICAL DATA



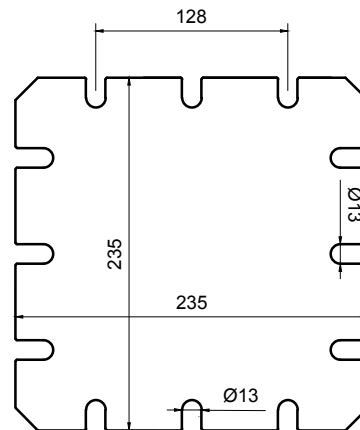
SIDE VIEW

TITAN COUPLER (1.6kg)

1. All dimensions in mm U.N.O.
2. Proprietary titan clamp coupler for connecting scaffold tube in bracing applications etc.
3. Max. slip load = 2.5kN/ bolt
4. Max. slip load in coupler = 6.25kN



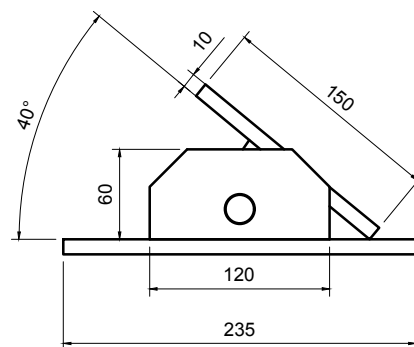
TOP VIEW



BASE VIEW

TITAN ROCKING HEAD (5kg)

1. All dimensions in mm U.N.O.
2. Steel material to be minimum Grade 350 in accordance with AS 3769.
3. Section steelwork is to be hot dipped galvanised to AS 4680:2600.
4. All hole openings are +/- 0.125mm U.N.O.
5. All welding to be minimum 6mm C.F.W. to class SP of AS 1554.



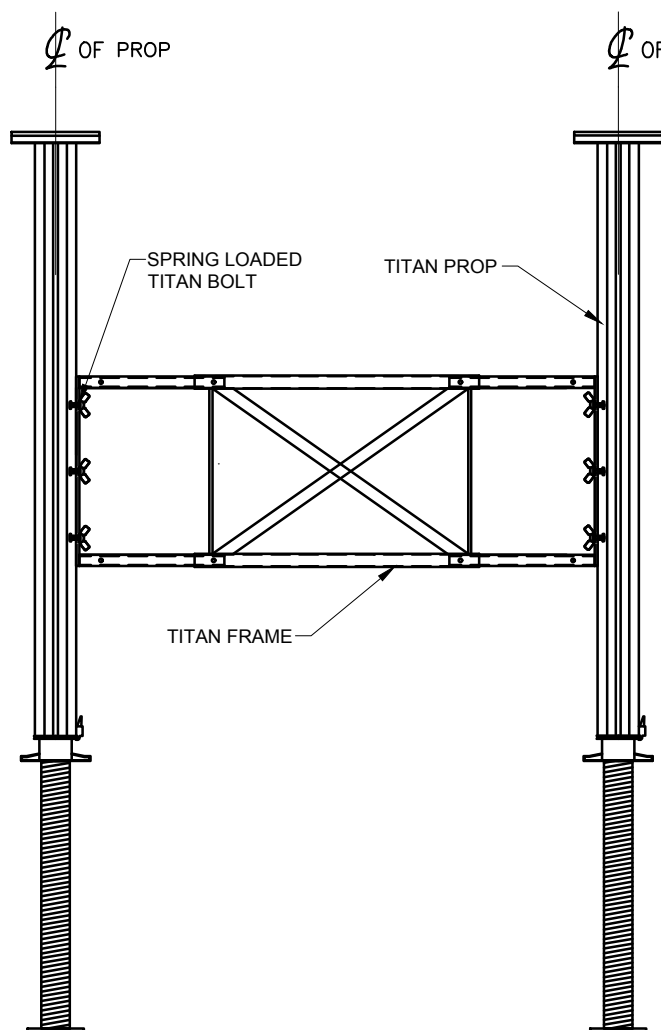
SIDE VIEW

PRODUCT: TITAN PROPS
REFERENCE: TDP04-PAGE 4

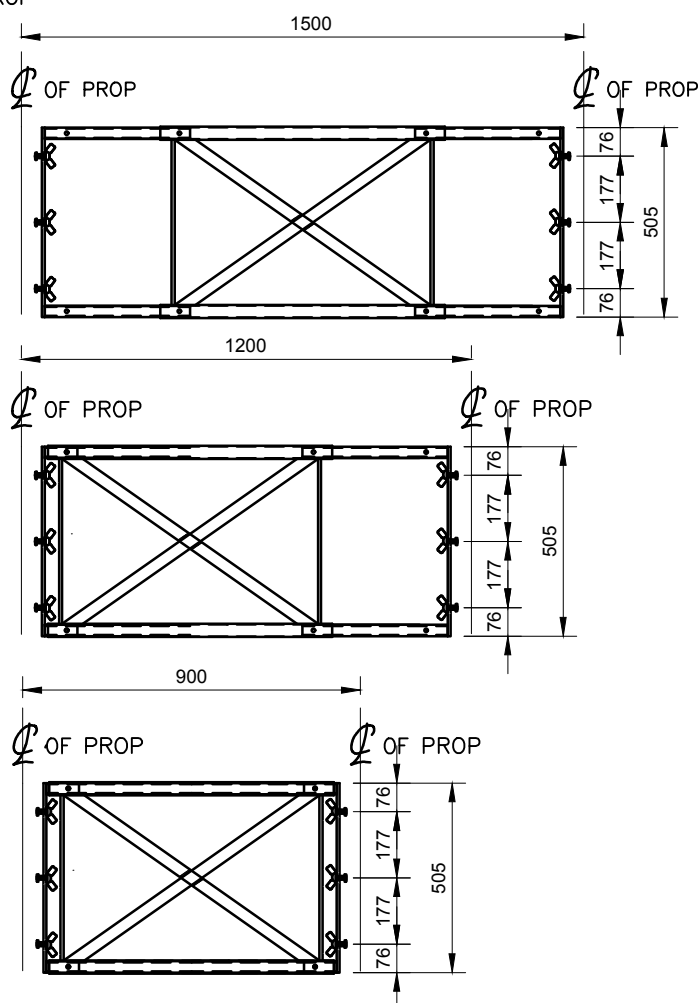
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TECHNICAL DATA



TYPICAL TITAN FRAME ASSEMBLY



VARIED LENGTHS OF TITAN FRAME

Titan Frame Specifications

1. Each frame is fixed with 6 off spring loaded, captured bolts for easy assembly with no loose parts.
2. Frames are for bracing of titan props only and to facilitate the erection of 4-legged tower frames for formwork, or load deck applications.
3. Each titan frame has 3 standard lengths; 900mm, 1200mm and 1500mm. The dimensions relate to centre to centre of titan props. Telescopic adjustment pinned pinned with conventional pin and clip allows for easy, practical assembly on site.
4. Each titan frame weighs 12.2kg

TECHNICAL DATA

Titan Prop Working Load Limit - Formwork Support Applications

TITAN PROP WLL - FORMWORK			
EXTENSIONS (m)	No.2 (kN)	No.4 (kN)	No.6 (kN)
1.70	100.0		
1.90	100.0		
2.10	100.0		
2.30	100.0		
2.50	88.0		
2.70	57.0		
2.90	42.0	94.9	
3.10		79.9	
3.30		70.0	
3.50		62.4	
3.70		55.0	
3.90		50.0	
4.10		41.0	
4.30			42.0
4.50			39.0
4.70			37.1
4.90			33.0
5.10			31.0
5.30			28.0
5.50			27.0

- Titan Prop working load limits have been derived from destructive testing in accordance with Australian Standard AS 3610: Formwork for Concrete.
- Out of plumbness of L/200 and eccentricities in accordance with Appendix A of AS 3610 have been applied.
- Compressive load applications only.

Titan Prop Working Load Limit - Backpropping Support Applications

TITAN PROP WLL - BACKPROPPING				
EXTENSIONS (m)	No.2 (kN)	No.3 (kN)	No.4 (kN)	No.6 (kN)
1.70	128.0			
1.90	128.0			
2.10	128.0			
2.30	128.0			
2.50	115.7	120.1		
2.70	106.0	104.2		
2.90	89.1	87.6	128.0	
3.10		70.5	128.0	
3.30		57.0	126.6	
3.50		47.1	108.1	
3.70			84.9	
3.90			72.5	
4.10			60.5	
4.30				89.3
4.50				80.5
4.70				71.6
4.90				64.4
5.10				57.1
5.30				49.5
5.50				41.9

- Titan Prop working load limits for backpropping have been derived assuming direct support application of an adequately rigid superstructure, i.e. backpropping of an existing concrete slab tied into the superstructure of a building.
- Pinned end conditions at the base and top of the prop are assumed. The fixity at the top and the base, including load eccentricities is based on European Standard EN 1065.
- The Partial Safety Factor applied for failure: $\gamma_f = 1.5$
- The Partial Safety Factor applied for material: $\gamma_m = 1.1$

PRODUCT: TITAN PROPS
REFERENCE: TDP04-PAGE 6

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TECHNICAL DATA

Titan Prop Conditions of Use

- **ERECTION** - Each Titan prop is intended to be set up vertically only for compression load applications and must be set up plumb. Titan props are not designed for raking or tension applications, unless special clearance is provided by the Shore Hire Technical Department.
- **RESTRAINT** - For back-propping scenarios, restraint on all sides at the top and bottom of the prop must be guaranteed on site.
- **FOUNDATION** - In each individual case, the foundation at the base of the prop must be assessed and adequately sized depending on the specific circumstances. Every prop must be set up on a level and stable surface. Props set up on concrete pads or slabs generally satisfy this requirement. The adequacy of props set up on sleeper pads bearing on uncovered subsoil should be assessed by an appropriately qualified Engineer.
- **BEARING CONDITIONS** - The head and base plates must be in direct contact with the superstructure or load carrying component at the base over the entire area. The bearing area must be clear of dust and debris to ensure uniform bearing is achieved.

Titan Prop Typical Applications of Use

