



SPIDER CRANE



Ex RATED

DEVELOPED FOR USE IN POTENTIALLY EXPLOSIVE ATMOSPHERES - ZONE 2





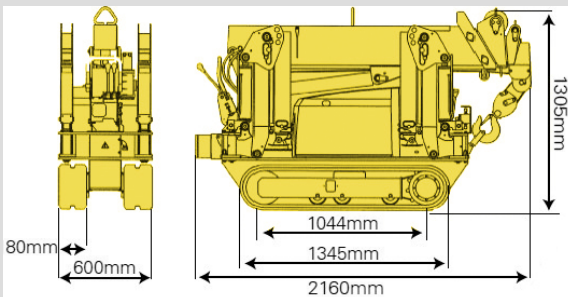
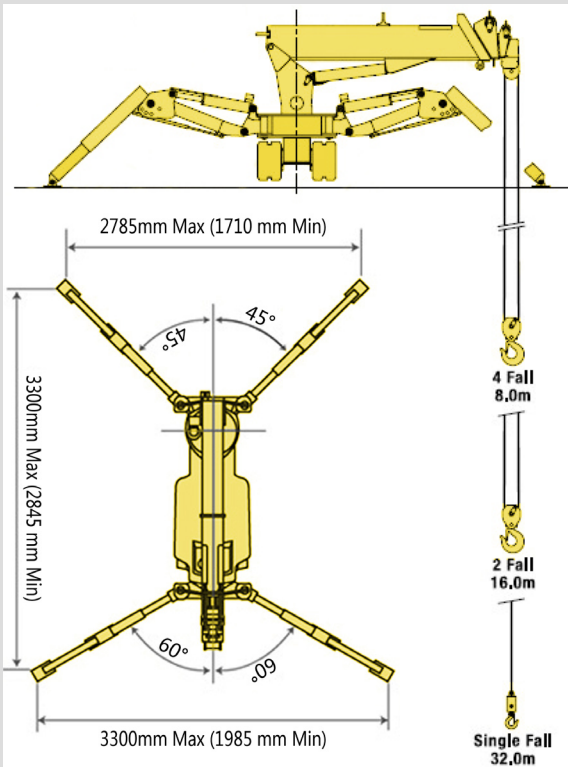
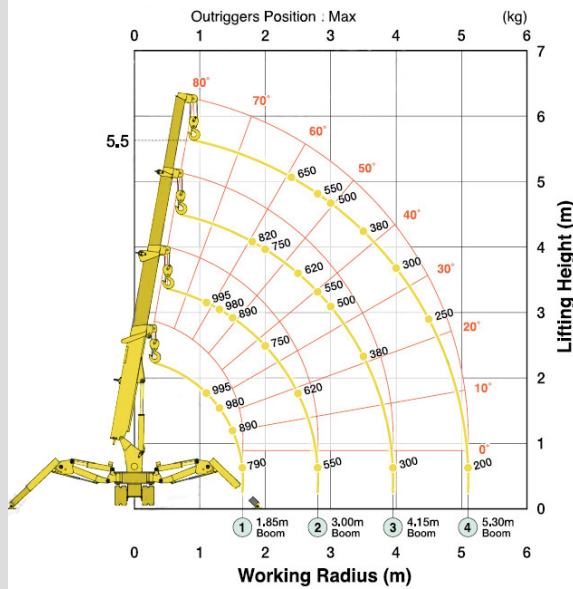
Spider Crane

At TSC, we have developed a fully air powered ATEX Zone 2 compliant mobile crane to meet the demands of critical, hazardous environment applications. The TSC Spider Crane is tough and durable, equipped with industry leading technology and delivers reliability and performance. Its compact, robust design, ease of manoeuvrability and versatility make the TSC Spider Crane the top of its class.

Key Features:

- **Manoeuvrable**
Crane is easily manoeuvrable, has a small turning circle and ability to rotate 360°.
- **Compact**
Meticulously designed to fit and travel through a standard doorway.
- **Versatile**
Can be setup in a range of configurations, even in the tightest of spaces or against walls.
- **Easily Deployed**
Has an integral lifting point (weighs 1100kg) which allows it to be picked up by the rigs main crane and deployed easily to another part of the rig.
- **Transportable**
Crane can lift itself off the ground providing enough clearance to get a trolley/pallet underneath and then can be transported without the need for the air-line connection.
- **User Friendly**
Intuitive design requires minimal training before operation.
- **Load Measuring**
Fully integrated load measuring load cell used to check the load prior to lift. Wireless reading sent to a handheld display.
- **Integrated Fail-Safe**
Safety is our top priority so we designed an integrated fail safe to safely hold the load until the incident is resolved.
- **Precision Controlled**
Crane can be controlled precisely allowing for accurate and safe lifting/lowering.





Environmental Data

Minimum Design Temperature	-10°C
Maximum Design Temperature	40°C
Altitude	Sea Level
Maximum Relative Humidity	90% RH

Design Data

Units	SI units to be adopted throughout
Rig (Vessel)	Various Applications
Design Life	25 Years
Hazardous Zone	Zone 2 (ATEX)

Technical Data

Capacity	0.995t @ 1.10m
Maximum Working Radius	5.10m
Maximum Lifting Height Above Ground	5.50m
Winch System	
Type	Hydraulic Motor Driven
Hook Hoist Speed	4m/min.
Hoist Wire Rope	Ø6 x 39m
Telescopic System	
Type	Hydraulic Cylinder
Boom Type	4-Section Pentagonal Telescopic Boom
Boom Length	1.85m to 5.30m
Boom Stroke	3.45m / 16 sec
Boom Hoist System	
Type	Hydraulic Double Acting Cylinder
Hoist Angle and Time	0 to 75° / 9 sec
Swing System	
Type	Hydraulic Motor Driven
Swing Angle and Time	360° Continuous / 1.6 rpm
Outrigger	
Type 3 Stage:	Flexible Stay Damper; Manual pullout; Direct Acting Cylinder
Maximum Extended Dimensions	Length 3,400mm x (front) 3,300mm (rear) 2,785mm
Travel System	
Type	Hydraulic Motor Driven; Stepless Speed Changer; Built in Brake
Maximum Gradient	15°
Ground Pressure	0.29kgf/cm ²
Track length on Ground x Width	1,044mm x 180mm
Track Tension Adjustment	Cylinder Lubricating Type
Hydraulic System	
Rated Pressure	Variable Discharge Piston Pump (8.8cc / rev x2)
Hydraulic Pump	20.59MPa (210 kgf/cm ²)
Hydraulic Tank Capacity	20 litre
Motor	
Type	Gast 16AM-FRV-2
Supply	220 cfm Clean Air Supply
Travel Speed	
Forward and Reverse	0 to 2.4km/h
Hook Speed (maximum)	3.2m/min
Weights and Dimensions	
Weight	1,170kg
Hook Block Weight	15kg
Length	1,980mm
Width	600mm
Height	1,305mm



TSC Engineering is an ISO 9001:2008
UKAS accredited company.

TSC Engineering specialises in the
design and product management of the
manufacture of a range of cranes and
mechanical handling equipment for use
in the most hazardous and demanding
environments.

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