# OPERATING AND MAINTENANCE





### THOR 9 HAMMER THROW CAGE

Thor 9 Hammer Discus Cage - New design for Councils, Schools, and Clubs

- IAAF certified 9m high x 3.2m long gates that pivot 4.2m forward of circle centre
- 7m high perimeter net.
- 100 kph wind rating
- Engineer certified



The most revolutionary throw cage design in 50 years





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Thor 9 hammer throw cage is an IAAF certified (E-15-0822) cage and the smaller of two hammer cages certified for competition use by International Association of Athletics Federations (IAAF).

The cage has a 100 kph wind rating with the net erected, meaning nets can remain erected in winds up to 100 kph..

The 3.0m x 9.0m gates with 7m high perimeter. The gates pivot 4.2m from circle centre.

Three aluminum net support poles hinged on steel spigots and designed to allow minimal impact from implement damage with the outward facing poles also easily to be assembled laying down and raised by a hand operated winch - mounted on a stand. The poles and spigots can be removed leaving flush ground sleeves with caps.

The net is attached to rails which connect to pole ropes for raising. The ropes are tied off to cleats on each pole.

Net retaining ropes from the poles are fed through the net and tied to saddle anchors set into footings.

Gates are operated by releasing a latch on each pole and swinging the arm to the appropriate position and tying off the ground anchor.

The cage can be raised and lowered with a winch on a stand which attaches to ground anchors.



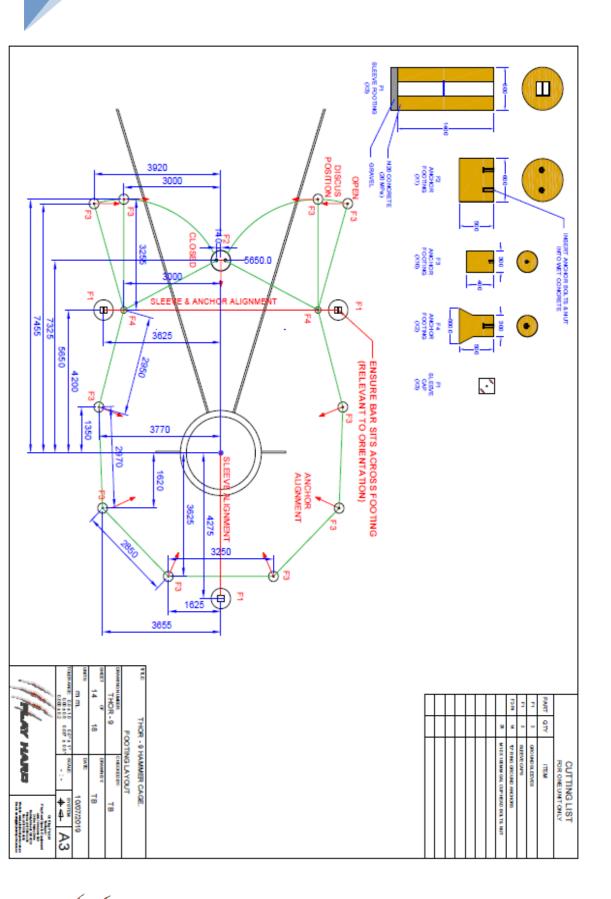
## SPECIFICATION COMPARISON CHART

Description	Technical Data				
	Thor 10 Hammer Cage	Thor 9 Hammer Cage	Apollo Discus Cage		
Size	10m x 2m gates, 7 metre perimeter.	9m x 3.2m gates, 7 metre perimeter.	6 metre high net at front. 4m perimeter		
Compliance standard	IAAF certified. E-05-0403	IAAF certified. E-15- 0822	IAAF certified. E-12-0695		
Intellectual Property	Patent Application	Patent Application	Patent Application		
Application	Hammer and Discus, Concentric	Hammer and Discus, Concentric	Discus		
Gate pivot distance	7.0m from circle centre.	4.2m from circle centre.	7.0m from circle centre.		
Gate edge	Rope and steel cable.	Rope and steel cable.	Rope.		
Gate operation	Swing arm, ground anchor hook.	Swing arm, ground anchor hook.	N/A		
No. of poles	4	3	4		
Pole hardware	Rope cleats and pulleys.	Rope cleats and pulleys.	Rope cleats.		
Pole material	Steel and aluminium.	Steel and aluminium.	Steel and aluminium.		
Ground work	4 sleeves, 14 rope anchors	3 sleeves, 14 rope anchors	4 sleeves, 8 rope anchors		
Finish	Galvanised and mill finish.	Galvanised and mill finish.	Galvanised and mill finish.		
Net	44mm square mesh, 5mm woven	44mm square mesh, 5mm woven	44mm square mesh, 2.5mm woven		
	poly, UV stable, IAAF certified.	poly, UV stable, IAAF certified.	poly, UV stable, IAAF certified.		
Net support	Net rails all round.	Net rails all round.	Net rails and free hang.		
Net retaining ropes	10	8	6		
Ropes	8mm black woven polypropylene.	8mm black woven polypropylene.	8mm black woven polypropylene.		
Wind rating	Wind rated to 100kph	100 kph wind rating	Wind rated to 100kph).		
Assembly method	Raised by winch.	Raised by winch.	Raised by hand.		
Manpower	2-3 people	2-3 people	2-3 people		
Assembly time	6-7 hours	5-6 hours	2.5 hours		



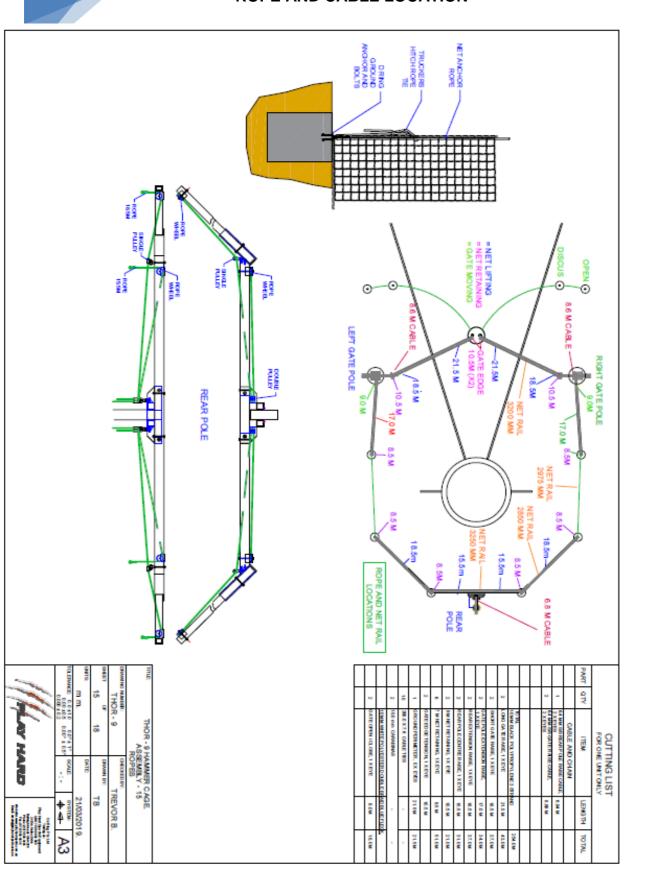
Thor 9 Hammer Cage Ipswich Athletics Ipswich QLD







#### **ROPE AND CABLE LOCATION**





#### **ASSEMBLY**



The hinged base plate inserts into the ground sleeve.



A cable is attached to the top of each pole and shackled to the winch. The winch is anchored to one of the F4 type footings.



A steel spigot bolts on to the hinged base plate. The pole inserts into the spigot.



The poles are hinged to raise plates and raised by the winch. Spacers are placed between the base plate and spigot to adjust the forward or backward lean of the pole.



Poles are assembled on the ground and ropes fed through the rollers.



The net is attached to hooks on net rails. The rails are shackled to the raising ropes. A net retaining rope is also attached and is fed through the net as it is raised.



Poles consist of an upper and lower section with arms or gates protruding from the upper section.



The net is raised in stages. Net retaining ropes are also attached to the net rails and are fed through the net as it is raised.



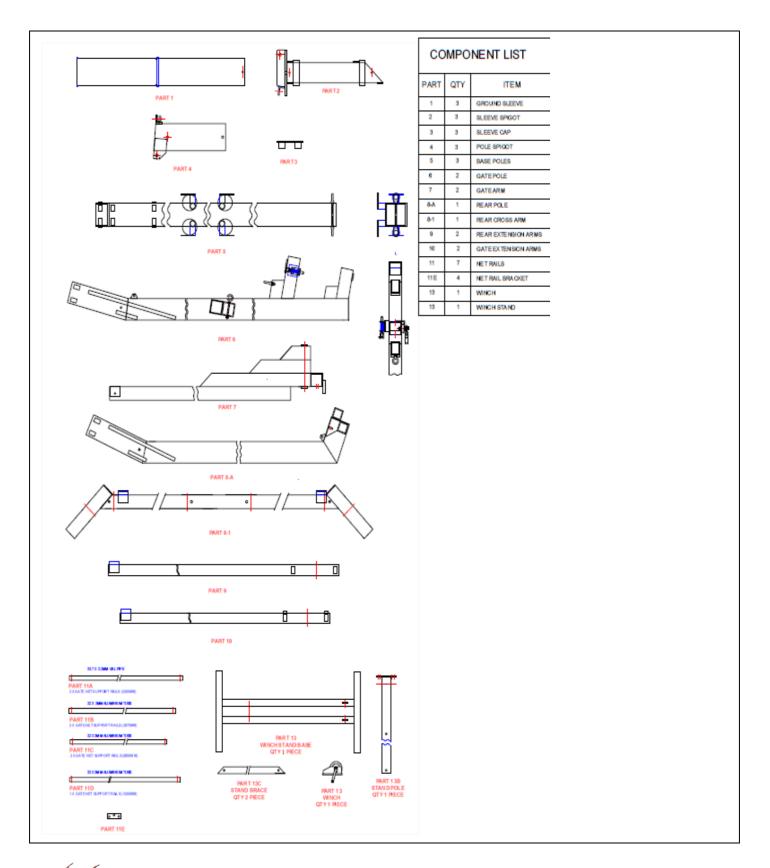
Arms slide into sockets and are bolted in place. Ropes are fed through before the pole is raised.



Ropes are tied off the cleats on the side of the poles. The cleats are designed to avoid the net entanglement.



#### **PARTS LIST**







Thor 9 Hammer Cage – Ashton Fields, UK

#### **OPERATION:**

The cage is quick and easy to operate. The gates are adjusted by pulling the coloured rope on each gate pole which releases a latch holding the gate. Unclip the net at the ground anchor, swing the gate by pulling the net to either the open or closed position. The gate will relocate into the latch. Clip the net into the new position. For right hand throwers, open the right gate (viewed from the throwing circle) and close the left gate. For left hand throwers, open the left gate and close the right gate.

#### MAINTENANCE:

The net retaining ropes should be tensioned at all times. This restricts the net from blowing. Do not tie the net back to the poles.

Do not tie the gate net back to increase the opening. Do not climb on the net or the poles.

Make sure the gates are set in the correct position. Lower

the net if winds are expected to exceed 100kph.

Spectators should remain well clear of the net when the cage is in use.

#### WARRANTY:

The standard Play Hard Sports product warranty terms and conditions apply.

The metal components of the product have a 5 year warranty against defective materials and workmanship. The net and ropes are not covered in the warranty. The life span of the net and ropes are subject to weather conditions, the amount of use and misuse.

Full warranty terms and conditions are available in the standard product price list.

