

Rule 33: Javelin Throw

Competition

1.

- a) The javelin shall be held at the grip with one hand only. It shall be thrown over the shoulder or upper part of the throwing arm and shall not be slung or hurled. Non-orthodox styles are not permitted;
- b) A throw shall be valid only if the metal head strikes the ground before any other part of the javelin;
- c) Until the javelin has been thrown, an athlete shall not at any time turn completely around, so that their back is towards the throwing arc.

COMMENT: Previous references in the Rules to the "tip" of the javelin have been removed and are replaced by a generic reference to the head. This acknowledges that the shape of the head varies greatly, making it harder to separately define the tip. It means that Judges in determining whether the javelin has landed correctly in terms of Rule 30.16 and Rule 33.1 (b) and the reference point for measurement in terms of Rule 30.20 (b) now have a bigger area with which to assess. But the principles remain as before and there must be some angle on landing, however small, for the throw to be valid. Flat or "tail-first" landings are still to be red flagged.

2. If the javelin breaks during a throw or while in the air, it shall not count as a failure, provided the trial was otherwise made in accordance with this Rule. Nor shall it count as a failure if an athlete thereby loses their balance and as a result contravenes any part of this Rule. In both cases the athlete shall be awarded a new trial.

Javelin

- 3. The javelin shall consist of three main parts: a shaft, a head, and a cord grip.
- 4. The shaft may be solid or hollow and shall be constructed of metal or other suitable material so as to constitute a fixed and integrated whole. The surface of the shaft shall have no dimples or pimples, grooves or ridges, holes or roughness, and the finish shall be smooth and uniform throughout.



- 5. The shaft shall have fixed to it a metal head terminating in a sharp point. The head shall be constructed completely of metal. It may contain a reinforced tip of other metal alloy welded on to the front end of the head provided that the completed head is smooth and uniform along the whole of its surface. The angle of tip shall not exceed 40 degrees.
 - Note: The metal head up to 3mm from the tip may be disregarded for the angle of the point, when the construction of the tip is made with safety measures implemented.
- 6. The cord grip, which shall cover the centre of gravity, shall not exceed the average diameter of the shaft by more than 8mm. It may have a regular nonslip pattern surface but without thongs, notches or indentations of any kind. The grip shall be of uniform thickness.
- 7. The cross-section shall be regularly circular throughout (see Note (i)). The maximum diameter of the shaft shall be immediately in front of the grip. The central portion of the shaft, including the part under the grip, may be cylindrical or slightly tapered towards the rear but in no case may the reduction in diameter, from immediately in front of the grip to immediately behind, exceed 0.25mm. From the grip, the javelin shall taper regularly to the tip at the front and the tail at the rear. The longitudinal profile from the grip to the front tip and to the tail shall be straight or slightly convex (see Note (ii)), and there shall be no abrupt alteration in the overall diameter, except immediately behind the head and at the front and rear of the grip, throughout the length of the javelin. At the rear of the head, the reduction in the diameter may not exceed 2.5mm.

Note (i): Whilst the cross section throughout should be circular, a maximum difference between the largest and the smallest diameter at cross section of 2% is permitted. The mean value of these two diameters, at any nominated cross section, shall meet the specifications of a circular javelin in the tables hereunder.

Note (ii): The shape of the longitudinal profile may be quickly and easily checked using a metal straight edge at least 500mm long and two feeler gauges 0.20mm and 1.25mm thick. For slightly convex sections of the profile, the straight edge will rock while being in firm contact with a short section of the javelin. For straight sections of the profile, with the straight edge held firmly against it, it must be impossible to insert the 0.20mm gauge between the javelin and the straight edge anywhere over the length of contact. This shall not apply immediately behind the joint between the head and the shaft. At this point it must be impossible to insert the 1.25mm gauge.



8. The javelin shall conform to the following specifications:

Javelin							
Minimum weight cord grip):	for admission to	competition a	nd acceptance	of a Record (in	clusive of the		
	400g	500g	600g	700g	800g		
Information for manufacturers: Range for supply of implement for competition							
	405g	505g	605g	705g	805g		
	425g	525g	625g	725g	825g		
Overall length (L	0)						
Min.	1850mm	2000mm	2200mm	2400mm	2600mm		
Max.	1950mm	2100mm	2300mm	2500mm	2700mm		
Distance from tip	o of metal head to	centre of gravit	y L1)				
Min.	750mm	780mm	800mm	850mm	900mm		
Max.	800mm	880mm	920mm	990mm	1060mm		
Distance from tail to centre of gravity (L2)							
Min.	1050mm	1120mm	1280mm	1410mm	1540mm		
Max.	1200mm	1320mm	1500mm	1650mm	1800mm		
Length of metal I	nead (L3)						
Min.	200mm	220mm	250mm	250mm	250mm		
Max.	250mm	270mm	330mm	330mm	330mm		
Width of cord gri	p (L4)						
Min.	130mm	135mm	140mm	150mm	150mm		
Max.	140mm	145mm	150mm	160mm	160mm		
Diameter of shaft at thickest point (in front of grip — D0)							
Min.	20mm	20mm	20mm	23mm	25mm		
Max.	23mm	24mm	25mm	28mm	30mm		



- 9. The javelin shall have no mobile parts or other apparatus, which during the throw could change its centre of gravity or throwing characteristics.
- 10. The tapering of the javelin to the tip of the metal head shall be such that the angle of the point shall be not more than 40°. The diameter, at a point 150mm from the tip, shall not exceed 80% of the maximum diameter of the shaft. At the midpoint between the centre of gravity and the tip of the metal head, the diameter shall not exceed 90% of the maximum diameter of the shaft.
- 11. The tapering of the shaft to the tail at the rear shall be such that the diameter, at the midpoint between the centre of gravity and the tail, shall not be less than 90% of the maximum diameter of the shaft. At a point 0.15m from the tail, the diameter shall be not less than 40% of the maximum diameter of the shaft. The diameter of the shaft at the end of the tail shall not be less than 3.5mm.



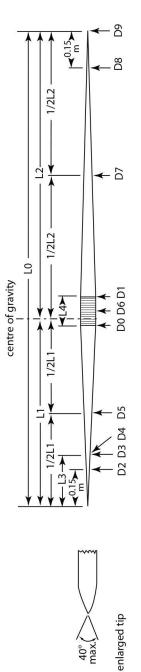


Figure 21- International Javelin

	Lengths		Diameters	Maximum	Maximum Minimum
ΓO	Overall	D0	In front of grip	_	_
L1	Tip to C of G	D1	At rear of grip	D0	D0-0.25mm
1/2L1	HalfL1	D2	150mm from tip	0.8 D0	_
L2	Tail to C of G	D3	At rear of head	_	_
1/2L2	HalfL2	D4	Immediately behind head	-	D3-2.5mm
L3	Head	D5	Halfwaytipto C of G	0.9 D0	_
L4	Grip	D6	Over grip	D0+8mm	_
		D7	Halfwaytail to C of G	ı	0.900
		D8	150mm from tail	_	0.4 D0
CofG	Centre of Gravity	D9	Attail	-	3.5mm
Note: All m	Note: All measurements of diameters must be to at least 0.1 mm.	neters must be t	oatleast0.1mm.		



COMMENT: Team of Officials

For a Javelin Throw Event, it is recommended to allocate the available officials as follows:

- 1) The Chief Judge will watch over the whole of the event.
- 2) Two Judges checking whether the throw has been made correctly and measuring the trial. One must be provided with two flags white to indicate if the trial is valid and red if it is a failure. When the throw has been measured, it is advised that the Judge stands on the runway holding the red flag, while the implement is returned, and the landing area is cleared. A cone may be placed on the runway instead. (In some competitions this position is assumed by the Chief Judge of the event.)
- 3) Where EDM is not in use the second Judge should pull through and hold the measuring tape in such a way that it passes through the 8m point marked on the runway.
- 4) one or two Judges immediately after the throw placing a marker indicating the point from which the trial is to be measured. If the implement lands outside the sector either this Judge or the one with the spike/prism (whichever is closer to the line) should indicate this by holding their arm outstretched. An appropriate indication is also required if these Judges determine that the implement has not landed "head first". It is recommended that some form of signal other than flags in used for this purpose. No indication is required for a valid trial.
- 5) Judge positioning the spike/prism at the point where the marker has been placed ensuring the tape is on the zero mark.
- 6) one or more Judges or assistants in charge of retrieving the implements and returning them to the implement stand or placing them in the return device. Where a tape is used for measurement, one of these Judges or assistants should ensure that the tape measure is taut in order to ensure a correct measurement.
- 7) Judge a recorder scoring the results sheet and calling each athlete (and the one who is to follow).
- 8) Judge in charge of the scoreboard (trial-number-result).
- 9) Judge in charge of the clock indicating to the athletes that they have a certain time to take their trial.



- 10) Judge in charge of athletes.
- 11) Judge in charge of the implement stand.

Note (i): This is the traditional setting-up of the officials. In major competitions, where a data system and electronic scoreboards are available, specialised personnel are certainly required. To be clear in these cases, the progress and scoring of a Field Event is followed by both the recorder and by the data system.

Note (ii): Officials and equipment must be placed in such a way as not to obstruct the athlete's way nor impede the view of the spectators.

Note (iii): A space must be reserved for a wind-sock to indicate the wind direction and strength.