

## Centre of Mass 'Bronze Running Horse'

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### *Concept:*

The centre of mass of a system is defined as, the point at which the entire combined mass of all the components of a system seem to concentrate. In a uniform gravitational field the centre of mass determines the position that this weight acts.

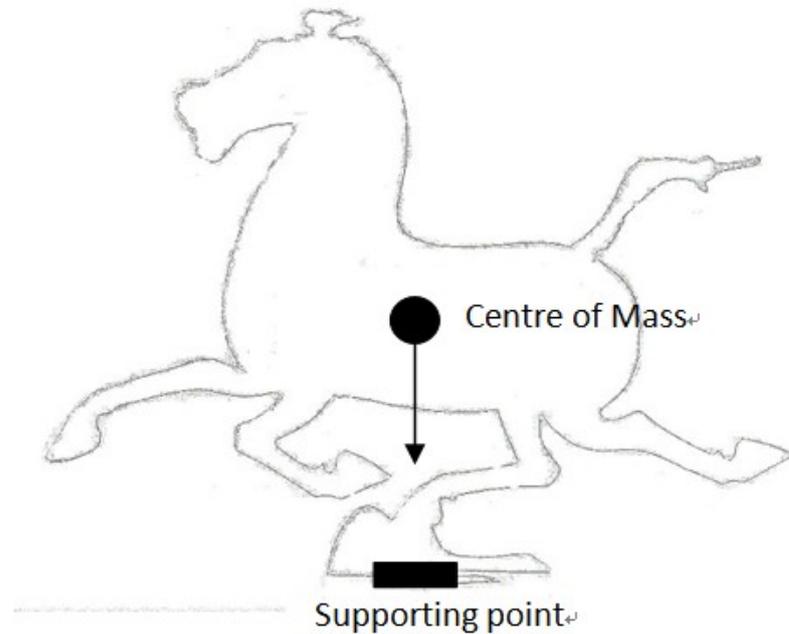


The Bronze Running Horse is a famous representative sculpture of bronze statue. It is 34.5 cm high and 41 cm long. The bronze statue created about 2000 years ago has a lively action and accurate proportions. The horse is raising its head, neighing and galloping forward with one foot treading on a flying swallow. The romantic image of the swallow sets off the power and strength of the horse, providing a rich imaginative experience for viewers. It is a unique product among Chinese bronze ware.

The Bronze Running Horse is a hollow article. The main material is bronze, which is the metal alloy of copper and tin. The hollow structure supplied a great opportunity to modify the centre of the statue by changing the thickness of the surface. The centre of gravity was exactly

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perpendicular to the supporting point. The balance and stability are perfectly achieved through this design.



**Reference:**

[http://en.wikipedia.org/wiki/Center\\_of\\_mass#Definition](http://en.wikipedia.org/wiki/Center_of_mass#Definition)

[http://www.chinaculture.org/library/2008-01/22/content\\_77549\\_3.htm](http://www.chinaculture.org/library/2008-01/22/content_77549_3.htm)

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