## The Wheel

The wheel is probably the most important mechanical invention of all time. Nearly every machine built since the beginning of the Industrial Revolution involves a single, basic principle embodied in one of mankind's truly significant inventions.

It's hard to imagine any mechanized system that would be possible without the wheel or the idea of a symmetrical component moving in a circular motion on an axis. From tiny watch gears to automobiles, jet engines and computer disk drives, the principle is the same.


Based on diagrams on ancient clay tablets, the earliest known use of this essential invention was a potter's wheel that was used at Ur in Mesopotamia (part of modern day Iraq) as early as 3500 BC. The first use of the wheel for transportation was probably on Mesopotamian chariots in 3200 BC . It is interesting to note that wheels may have had industrial or manufacturing applications before they were used on vehicles.

## The Wheel



Ancient wooden wheel

## Horse and Carriage



Chariot wheel


Wagon wheel

## Trains



## Bicycle



Penny farthing


Modern bicycle

## Motorcycle



1880's motorcycle


Modern motorcycle

## Automobiles




Modern car

## Water wheel



## Windmills



Traditional windmill


Windmill

## Other wheels



Wind turbines


Ferris Wheel
roller
sledge
sledge on roller

sledge on grooved roller

roller joined
to sledge

sledge joined to axle

Development of early wheels and rollers

from rolling stones to motorbikes!

