



Study on Milky Way

## Milky Way - galactic facts

**diameter:** *100 000 light years*  
 140 - 180 billion mass of the our sun  
 number of stars: *more than 100 billion*

*Our sun* is nearly *27 000 light years* far away from the galactic center. One complete orbit inside the galactic disc takes more than *220 million years*.

**rotation speed** of our sun round the galactic center is:  $v_{rot} = 220 \text{ to } 250 \text{ km / sec}$

The left picture is a photomontage - it shows a bird's view of our Milky Way in a distance of nearly 2.5 million light years.

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## Note

The calculations are written in german spelling.

Please regard **comma in german** corresponds to **point in english**.