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The ASTRINI DESIGN brand is owned by:



INNOVATIVENESS  
AND URBAN  
MODERNITY



RICKSHAW  
- LOTTA

Lotta is a rickshaw that  
appreciates tradition  
and does not scorn modernity

A S T R I N I A L P H A B E T

FREE YOUR CREATIVITY



# THE POWER OF DESIGN

Let's move to Japan for a while. To the place where almost two hundred years ago a rickshaw was invented – a vehicle that has been making people happy for so many years. At first, it had one wheel only. Later, it was equipped with a chain mechanism thanks to

which it has become a very popular mean of urban transportation. It is loved by both those operating it and its passengers. Although there are so many cars and other fast motor vehicles, a traditional rickshaw is still present in many

countries, including European ones. And what if we decide to supplement tradition with a drop of modernity, add some modern features and innovative solutions? Here we have it: Lotta – a rickshaw tailored to the needs of the 21st century.

## A MAN, POWER AND WHEEL – THE 21ST CENTURY RICKSHAW



Furthermore, the rickshaw easily turns into the selected direction and is very comfortable. Its visual design is a great advantage. Cool, elegant and safe form attracts attention and positive feelings.

No carbon dioxide emission, innovative solutions, broad functionality and original look make Lotta an ideal vehicle to be used in traffic and in areas where vehicles with combustion engines are not allowed to enter.



The state-of-the-art technologies and the possibility of installing solar panels on the roof to support the battery are a tribute to ecology.

This is an ideal vehicle from economic and ecologic point of view. It is also highly functional. Thanks to the location of passenger seats at the front of the vehicle, they may enjoy the trip and admire new places in the city.

Lotta is a high-class urban vehicle. Its body is made of light and durable polyester and glass fibre laminate.

The seats and backrest are coated with the highest quality material selected by the client. The colour of the body and seats is chosen by the client.

The rickshaw may be powered by human muscles or with a built-in electric engine with replaceable battery. The distance which the rickshaw may travel was a real challenge to constructors. The result is impressive: approximately 60 kilometres at one battery charging. The charging time is two hours only.



## INNOVATIVENESS AND TECHNOLOGY

A combination of original and interesting materials, a high-performance battery and electric engine as well as solar panels technology make Lotta a highly innovative vehicle. It represents respect for tradition and care for natural environment.

## MODERNITY

### ADVANTAGES

- high-performance battery and a possibility of installing solar panels make Lotta much more ecological than any vehicle equipped with combustion engine;
- long distance that may be travelled at one battery charging – approximately 60 kilometres, and short battery charging time – approximately 2 hours;
- high quality of materials used, durable and weather-proof and damage and UV resistant polyester and glass fibre laminate;
- interesting, cool and elegant design;
- open viewing space for passengers;
- ecological product – no carbon dioxide emission