# Children's Furniture Made of Paper Tubes 

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## Goal:

to create several pieces of playfull furniture for kids, using special abilities of material.

## Why furniture for children:

character of this material is very competent for this kind of use, its quite light weight, cheap, ecological, recyclable, and its surface has also great potencial (it can be painted by kids themselves).

## Material properties:

sizes of tubes are arbitrary, according to the Czech company engaged in the manufacture of paper tubes, those tubes are available in sizes up to 6500 mm in length, 626 mm in diameter and 20 mm in the thickness of the material. carrying capacity and other properties such as resistance of tubes are defined by the type of used paper and its surface finish treatment.

## Opportunities:

easy treating of material (grinding, cutting, drilling etc..), combinations with other materials, gluing.

## Weaknesses:

round shape doesnt allow all procedures that are applied on flat materials


## Rocking Animals

rocking chair in the shape of an undefined animal (kid defines it by painting it)

## Multi Purpose Furniture

piece of furniture transformable into several shapes, saving space in children's rooms

## Rising Chair

chair reflecting needs of children for the height of seating furniture

## Rocking Animals

## Materials:

paper tubes of various sizes, conically cutted wooden accessories (front and back stops, seat, handle)
steel rivets
steel screws


parts and construction

dimensions (mm), compared with the height of the child


## Multipurpose Furniture

Materials:
paper tube, lengthwise cutted wooden back
steel securing system fabric straps

turning and securing system

elements



## Rising Chair

Materials:
paper tube, lengthwise cutted in two thirds
two smaller paper tubes
wooden seat
steel moving system

## required height of chair for kids (mm)

Body of the chair is made of tube -450 mm in diameter, 360 mm in length. Legs of the chair are made of tube -140 mm in diameter, 300 mm in length.




300 mm height


## parts of the chair

# Thank you for your attention! 

Alice Endrychová<br>for Swedish Innovation Prize 2013

