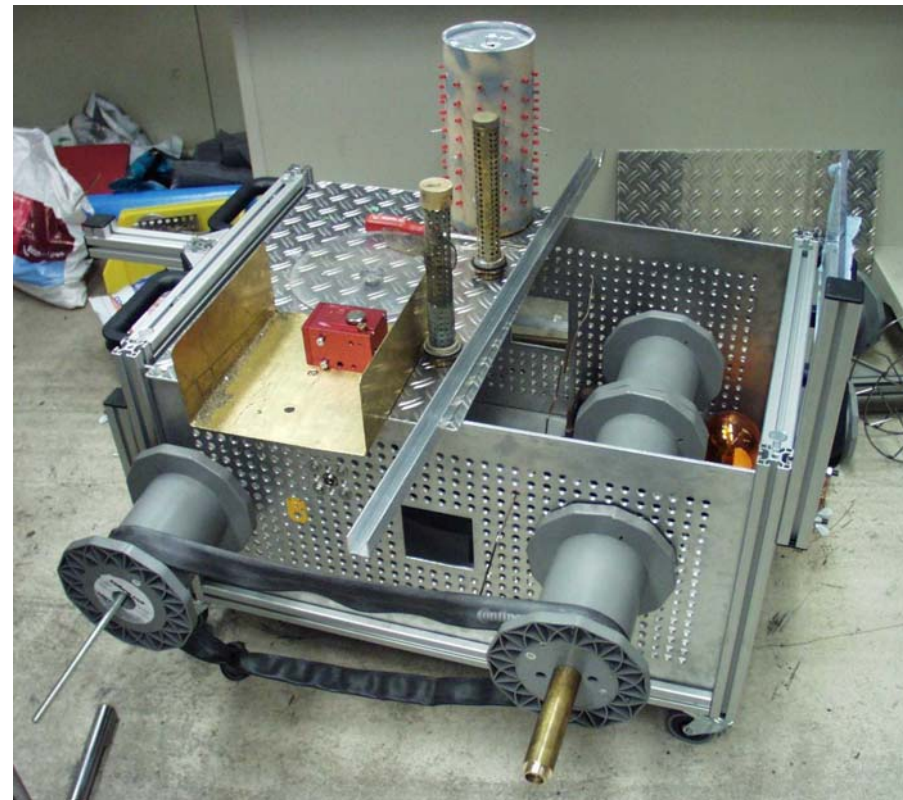




Technical Description of the Teddymobil

The Teddymobil is a technical experimental landscape to help children through play to experience and grasp technical concepts on basis of realistic technical materials.





The Teddymobil is about 80 cm long, 50 cm wide und 60 cm high.



The frame of the Teddymobils is made of aluminium profile, the long side panels are of sheet metal, the short side panels are of plexiglas, allowing the inside to be viewed.



A mounting plate which can partly be opened serves as an upper cover which also partly conceals. The unfixed part can be opened with a handhold. Different attachments can be applied onto the fixed half of the cover.



One sheet metal side panel is provided with threaded drillings, the other side panel is provided with simple through holes.



Small sheet panels of different shapes can be screwed onto the side panels so that creative landscapes originate. The different sheet panels can be attached to the side panel with threaded drillings with different types of screws and connecting elements or fasteners. On the sides with through drillings the sheet panels can be fixed by means of screws and nuts.



The children get to know different screws (external hexagon screws, internal hexagon screws, slot-head screw, cross-head screw, wing screw) and nuts (hexagon nut, square nut, round nut, securing nut, cap nut, wing nut) as well as the correct tools (screwdriver with slotted tip or cross recess, hexagon socket screw spinner) and their proper use.



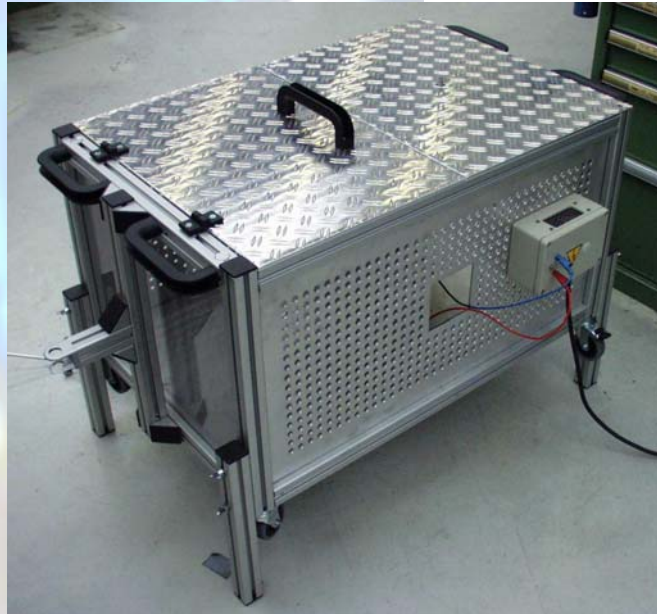


The Teddymobil is movable. It has wheels and handles so that it can be easily moved. The wheels are provided with brakes so that it does not roll accidentally.



For possible transport a drawbar was attached.





For experiments and playing phases the Teddymobil can be transformed into a workbench .

Therefore the four supportings which are attached to the angles of the Teddymobil can be lowered.





First the Teddymobil is lifted on one side by means of a mechanical jack.

Then the different types of screws of the two supports will be released by means of the relevant tools. The supports are set to the correct (same) length and the screws are tightened again.



The same is then done on the other side. Supported like that the Teddymobil is usable as a workbench and experimental bench.



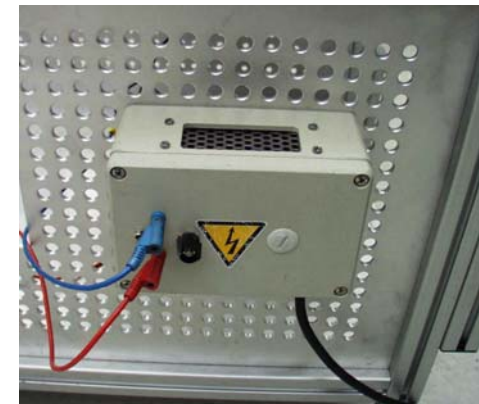
The children work with a jack of the sort they could also find at home. They learn how rotary motion turns into a vertical motion. They turn the crank lever and the Teddymobil is raised. They also work with different types of screws, nuts and tools.



One attachment which can be fixed onto the mounting plate is a turning platform driven by an electric motor.



On the basis of the turntable centrifugal force can be explained. For example you can fix a piece of paper on the turntable. If you drop ink or colour onto the rotating turntable creative pictures can be developed. You can also put different objects onto the rotating turntable and observe their reaction.



Stückliste

Pos.	Menge	Benennung	Norm-kurzbezeichnung
1	4	Aluprofil	40x40x800
2	4	Aluprofil	40x40x500
3	4	Aluprofil	40x40x350
4	5	Aluprofil	40x40x480
5	1	Aluprofil	40x40x100
6	6	Winkel-komplett	40x40 (komplett)
7	12	Abdeckkappe	40x40 (mini)
8	4	Doppellenkrolle	D 75 gebremst
9	2	Scharnier	Scharnier 32 PA
10	5	Handgriff	Handgriff PA
11	2	Aluminiumplatte	822x422 (5mm stark)
12	1	Aluminiumplatte	800x500 (5mm stark)
13	1	Riffelblech	580x440 (3mm stark)
14	1	Riffelblech	580x398 (3mm stark)
15	2	Makrolon-klar	522x422 (4mm stark)
16	1	Makrolon-klar	∅240 (4mm stark)
17	6	Flügelmutter	DIN 315 - M8
18	2	Sechskantmutter	DIN EN 24052 - M8
19	4	Senkschraube mit Schlitze	DIN EN ISO 2009 M6 x 20
20	8	Schloßschraube	M8 x 60
21	1	Zugmaul	
22	1	Wagenheber	
23	1	E-Motor	
24	1	Schaltkasten	
25	1	Auffangschale	∅280mm; 50mm hoch

List of components of the basic Teddymobil
Documentation for possible reproduction
in interested establishments.