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**Product Name :**  
Demonstrator For Lathe Gearing Layout

**Product Code :**  
LBNY-0005-10100044



#### **Description :**

The programme of exercises enables familiarisation with six different drive implementation and analysis methods: understanding the brief and the drawing, assembly, setting, adjusting, testing, and making calculations. This laboratory system is used to introduce combined drives and their correct assembly. A robust tubular steel frame with a square profile and bearing elements provide the accuracy for the setting of precise gearing. The flexibility of the set-up and the modularity of the components simplifies experimentation and implementation of the students' own ideas. All the system components are kept ready to hand and well protected in a housing system.

#### **Technical Specification :**

Chain drive with tensioning sprocket and spur gear transmission  
Dual spur gear drive  
Combined bevel gear and spur gear drive  
Combined worm gear and bevel gear drive  
Demonstration and experimental kit for laying out and assembling multiple and combined drives  
Dual belt drive  
Usage of standard industrial parts  
Rack drive with spur gear drive  
Hand operation with crank  
Solid universal frame manufactured from square steel tube.

#### **Technical Data:**

Gears:  $z=30, 36, 50, 60$ ,  $m=2\text{mm}$

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Bevel gear pair:  $z=30$ ,  $m=3\text{mm}$ ,  $i=1$ , angle between axes  $90^\circ$   
Toothed belt pulleys:  $z=30, 32, 48, 60$   
Chain sprockets:  $z=20, 30$ , DIN 8192 ISO 10B-1  
Dimensions and Weight of Gear Assembly Unit Combined Drives  
l x w x h: 1000x500x500mm (assembled frame)  
Weight: approx. 91kg.



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