Email : sales@scilabexport.com
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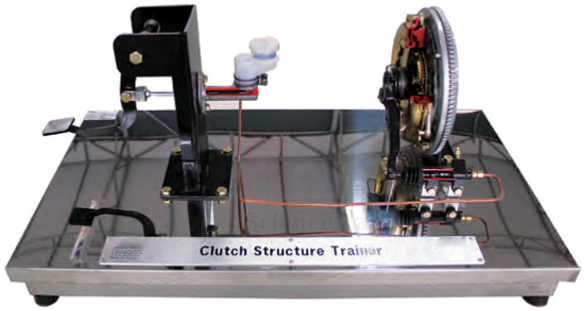
Product Name :

Clutch Structure Trainer Hydraulics

Product Code :

SLE/ATE/05



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Description :

The Clutch Structure Trainer Hydraulics is a sectioned unit, small enough for an ordinary classroom table, that explains how the hydraulic clutch inside a manual-transmission vehicle works. It is built from a clutch pressing board, clutch pedal and clutch cylinder. Every cut section is painted a different colour in vehicle paint, and the whole unit weighs about 20 kg.

Compact hydraulic clutch trainer specifications

Parameter	Detail
Type	Education unit of hydraulic clutch structure inside manual transmission
Composition	Clutch pressing board, clutch pedal, clutch cylinder
Sectioning	Each incised section painted in a different colour
Finish	Vehicle paint used for painting and coating
Weight	Approx. 20 kg
Size	Approx. 400 × 300 × 300 mm
Product code	SLE/ATE/05
Minimum order	10 units
Dispatch	Usually within 7 to 10 working days
Manufacturer	ScienceLab (Jain Scientific Equipments Pvt Ltd), Ambala, India

Bench exercises with the compact hydraulic clutch unit

Group stations. The unit is light enough to share between tables, so set out one per group. Students press the pedal, call out the colour of each section as it moves, and state what the clutch cylinder, pressing board and pedal each contribute.

Pressure in every direction. Show a Pascal's sphere first, where water jets out equally from every hole when the plunger is pushed. Then ask why the same rule lets a thin pipe carry pedal effort around corners to the clutch cylinder.

Fluid against cable. Place the unit beside the Clutch Structure Trainer Mechanical Manual. Groups list how pedal effort reaches the pressing board on each, then decide which design takes up lining wear by itself and which needs its free play reset from time to time.

Friction clutch against fluid coupling. Finish at an FF auto transmission stand, where a torque converter takes the place of the pedal clutch. Students compare how each arrangement lets the engine idle while the vehicle stands still in gear.

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