

# ENGINEERING



FM96503

# MODELS



**B.S.PYROMATIC INDIA (P) LTD.,**

**AN ISO 9001 - 2000 CERTIFIED COMPANY**



**BSPIL-MOD-04010**  
**CRANK SHAFT**



**BSPIL-MOD-04018**  
**5 SPEED GEAR BOX**  
**CUT-SECTION**



**BSPIL-MOD-THR**  
**FLY WHEEL AND**  
**CONNECTING ROD**



**BSPIL-MOD-1307**  
**PYROMATIC KINEMATICS**  
**OF GEAR TRAINS**



**BSPIL-MOD-THR-715**  
**M.I. BY OSCILLATION**



**BSPIL-MOD-HYD-539**  
**HYDRAULIC TRAINER KIT**



**BSPIL-MOD-THR-410**  
**PISTON WITH CYLINDER**



**BSPIL-MOD-THR-411**  
**I.C. ENGINE DISASSEMBLE**



**BSPIL-MOD-THR-446**  
**REAL SMOKE TUB BOILER**  
**CUT SECTION**



**BSPIL-MOD-THR-211**  
**SIMPLE GEAR TRAIN**



**BSPIL-MOD-THR-445**  
**STEAM STOP VALVE**



**BSPIL-MOD-JNC-1025**  
**UNIVERSAL JOINT**



**BSPIL-MOD-THR-443**  
**STEAM BOILER MODEL**



**BSPIL-MOD-THR-303**  
**COMBINED HIGH STEAM &**  
**LOW WATER SAFETY VALVE**



**BSPIL-MOD-THR-427**  
**MODEL OF BABCOCK &**  
**WILCOX BOILER**



**BSPIL-MOD-THR-306**  
**FEED CHECK VALVE**



**BSPIL-MOD-THR-319**  
**DAMPER**



**BSPIL-MOD-THR-445**  
**EXPANSION STEAM TRAP**



**BSPIL-MOD-THR-449**  
**LEVER SAFETY VALVE**



**BSPIL-MOD-THR-447**  
**FLOAT STEAM TRAP**



**BSPIL-MOD-THR-448**  
**FUSIBLE PLUGS OF**  
**THREE TYPES**



**BSPIL-MOD-THR-311**  
**REDUCING VALVE**



**BSPIL-MOD-THR-301**  
**SPRING LOADED**  
**SAFETY VALVE**



**BSPIL-MOD-THR-439**  
**SUPER HEATER**



**BSPIL-MOD-THR-402**  
**DIESEL ENGINE 2 STROKE**



**BSPIL-MOD-THR**  
**CRANK ROCKER MECHANISM**



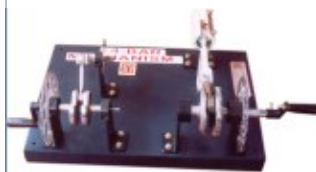
**BSPIL-MOD-THR426**  
**CORNISH BOILER**



**BSPIL-MOD-THR-432**  
**LOEFFLER BOILER**



**BSPIL-MOD-THR-403**  
**SINGLE CYLINDER 4S CT**  
**DIESEL ENGINE**



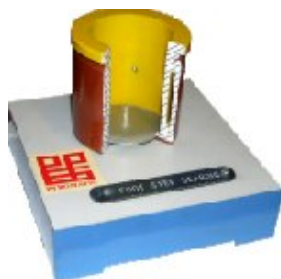
**BSPIL-MOD-4019**  
**4 BAR MECHANISM**



**BSPIL-MOD-4020**  
**BEVEL GEAR**



**BSPIL-MOD-1042**  
**CONNECTING ROD**



**BSPIL-MOD-4019**  
**FOOT STEP BEARING**



**BSPIL-MOD-4019**  
**PURE REACTION TURBINE**



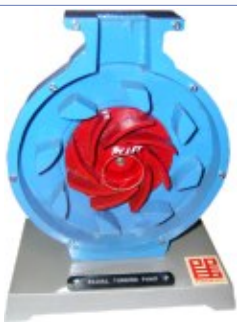
**BSPIL-MOD-4019**  
**THRUST BEARING**



**BSPIL-MOD-4019**  
**BUSH BEARING**



**BSPIL-MOD-4019**  
**PLUMBER BLOCK BEARING**



**BSPIL-MOD-4019**  
**RADIAL TURBINE PUMP**



**BSPIL-MOD-4019**  
**TURBO JET ENGINE**



**BSPIL-MOD-4019**  
**COLLAR BEARING**



**BSPIL-MOD-4019**  
**SPLIT BEARING**



**BSPIL-MOD-4019**  
**SHAFT BEARING**

# OTHER ENGINEERING MODELS

## PRODUCT CODE

BSPIL-MOD-DYN-100  
BSPIL-MOD-DYN-101  
BSPIL-MOD-DYN-102  
BSPIL-MOD-DYN-103  
BSPIL-MOD-DYN-104  
BSPIL-MOD-DYN-105  
BSPIL-MOD-DYN-106

## TYPES OF DRIVES AND PULLEYS

Belt Drive Single Speed  
Belt Drive Two Speed  
Belt Drive (Loose and fast pulleys)  
Chain Drive  
Friction wheel Drive  
Geneva Drive  
Set of Belt Pulley

## PRODUCT CODE

BSPIL-MOD-DYN-125

## GOVERNORS

Governor Models Rotating Arrangement  
(a) Watt Governor  
(i) Ordinary  
(ii) Early  
(iii) Cross arm  
(b) Loaded type governor  
(c) Porter governor  
(d) Hartnell governor

BSPIL-MOD-DYN-125A  
BSPIL-MOD-DYN-125AA  
BSPIL-MOD-DYN-125AB  
BSPIL-MOD-DYN-125AC  
BSPIL-MOD-DYN-125B  
BSPIL-MOD-DYN-125C  
BSPIL-MOD-DYN-125BD

## PRODUCT CODE

BSPIL-MOD-DYN-150  
BSPIL-MOD-DYN-151  
BSPIL-MOD-DYN-152  
BSPIL-MOD-DYN-153  
BSPIL-MOD-DYN-154  
BSPIL-MOD-DYN-155  
type)

## CAMS

Cam and Follower  
Action of Cams  
Triangular Eccentric Cam  
Tri-Clover Leaf Cam  
Harmonic Motion (Simple type)  
Harmonic Motion (Slit bar slide type)

## PRODUCT CODE

BSPIL-MOD-DYN-175  
BSPIL-MOD-DYN-176  
BSPIL-MOD-DYN-177  
BSPIL-MOD-DYN-178  
BSPIL-MOD-DYN-179  
BSPIL-MOD-DYN-180  
BSPIL-MOD-DYN-181  
BSPIL-MOD-DYN-182  
BSPIL-MOD-DYN-183  
BSPIL-MOD-DYN-184  
BSPIL-MOD-DYN-185  
  
BSPIL-MOD-DYN-186  
  
BSPIL-MOD-DYN-187  
BSPIL-MOD-DYN-188

## BRAKES AND DYNAMOMETER

Single Shoe Brake or Block  
Double Shoe Brake  
Band Brake  
Band and Block Brake  
Disc Brake  
Hydraulic Brake  
Internal Expanding Shoe Brake  
Prony Brake Dynamometer  
Rope Dynamometers  
Helical Gear  
Single Stage Spur Gear Drive (Gear Drives as per IS standard)  
Two Stages Spur Gear with Idler (Gear Drives as per IS Standard)  
Journal Bearings  
Hoisting Mechanism

## PRODUCT CODE

BSPIL-MOD-THR-200  
BSPIL-MOD-THR-201

## STEAM ENGINE VALVES & REVERSING GEARS

Slide valve (Outside admission)  
Piston slide valve (Inside admission valve)  
Meyer's Expansion valve  
Stephenson Link Motion  
Gooch Link Motion  
Allan Link Motion  
Walschaert's Radial Valve Gear  
Joy Radial Valve Gear  
Eccentric Model  
Stuffing Box  
Cross Head

## PRODUCT CODE

BSPIL-MOD-THR-300  
BSPIL-MOD-THR-301  
BSPIL-MOD-THR-302  
BSPIL-MOD-THR-303

## MODELS OF MOUNTINGS & ACCESSORIES OF STEAM

Lever Safety valve  
Spring Loaded Safety Valve  
Dead weight safety valve  
Combined High Steam low water safety valve  
Water gauge Model  
Stop valve Hopkinson Type  
Feed check valve  
Steam Injector  
Pressure gauge  
Pressure gauge  
Blow off Cock  
Reducing valve  
Fusible Plugs  
Anti-Priming pump  
Expansion steam Trap  
Float steam trap  
Green Economizer  
Sudzen Super Heater  
Model of Bosch fuel pump

## PRODUCT CODE

BSPIL-MOD-THR-400

## MODELS OF I.C. ENGINES & POWER PLANTS

Sectional Working Model of

BSPIL-MOD-THR-401

2 stroke Petrol Engine  
Sectional Working Model of 4 stroke Petrol Engine  
Sectional Working Model of 2 stroke Diesel Engine  
Sectional Working Model of 4 stroke Diesel Engine  
Gas Turbine  
Wankel Engine  
Thermal Power Plant Model  
Nuclear Power Plant Model  
Model of Hydro Power Plant  
Model of Turbojet Engine

BSPIL-MOD-THR-402

BSPIL-MOD-THR-403

BSPIL-MOD-THR-404  
BSPIL-MOD-THR-405  
BSPIL-MOD-THR-406  
BSPIL-MOD-THR-407  
BSPIL-MOD-THR-408  
BSPIL-MOD-THR-409

## PRODUCT CODE

BSPIL-MOD-THR-425  
BSPIL-MOD-THR-426  
BSPIL-MOD-THR-427  
BSPIL-MOD-THR-428  
BSPIL-MOD-THR-429  
BSPIL-MOD-THR-430  
BSPIL-MOD-THR-431  
BSPIL-MOD-THR-432  
BSPIL-MOD-THR-433  
BSPIL-MOD-THR-434  
BSPIL-MOD-THR-435  
BSPIL-MOD-THR-436  
BSPIL-MOD-THR-437  
BSPIL-MOD-THR-438  
BSPIL-MOD-THR-439  
BSPIL-MOD-THR-440

## HEAT ENGINE ( BOILER MODELS) BOILER MODELS

Model of Lancashire Boiler  
Model of Cornish Boiler  
Model of Babcock and Wilcox Boiler  
Model of Locomotive Boiler  
Model of Chochran Boiler  
Vertical Water Tube Boiler  
Model of Marcet Boiler  
Loeffler Boiler  
Laver Safety Valve  
Spring Loaded Safety Valve  
Dead weight safety valve  
Sudzen Super Heater  
Model of Steam Engine  
Steam Engine 'D' Slide Valve  
Model of Piston valve Steam Engine  
Sectional working model of 2 stroke petrol engine  
Sectional Working Model of 4 stroke Petrol Engine  
Sectional Working Model of 2 stroke Diesel Engine  
Sectional Working Model of 4 stroke Diesel Engine  
Gas Turbine or Turbojet Engine  
Wankel Engine  
Feed check valve  
Steam Injector  
Pressure Gauge

BSPIL-MOD-THR-441

BSPIL-MOD-THR-442

BSPIL-MOD-THR-443

BSPIL-MOD-THR-444  
BSPIL-MOD-THR-445  
BSPIL-MOD-THR-446  
BSPIL-MOD-THR-447  
BSPIL-MOD-THR-448

Sectional working model of 2 stroke petrol engine  
Sectional Working Model of 4 stroke Petrol Engine  
Sectional Working Model of 2 stroke Diesel Engine  
Sectional Working Model of 4 stroke Diesel Engine  
Gas Turbine or Turbojet Engine  
Wankel Engine  
Feed check valve  
Steam Injector  
Pressure Gauge

## PRODUCT CODE

BSPIL-MOD-THR-433  
BSPIL-MOD-THR-434  
BSPIL-MOD-THR-435  
BSPIL-MOD-THR-436  
BSPIL-MOD-THR-437  
BSPIL-MOD-THR-438  
BSPIL-MOD-THR-439  
BSPIL-MOD-THR-440  
BSPIL-MOD-THR-441  
BSPIL-MOD-THR-442  
BSPIL-MOD-THR-443  
BSPIL-MOD-THR-444  
BSPIL-MOD-THR-445  
BSPIL-MOD-THR-446  
BSPIL-MOD-THR-447  
BSPIL-MOD-THR-448

## BOILER SPARES MODELS

Check Valve  
Injector  
Feed Check Valve  
Economiser  
Blow of Cock  
Pressure reducing valve  
Super Heater  
Fusible plank  
Water Level Indicator  
Pressure gauge  
Steam Trap Each type  
Safety Valve  
Steam Stop Valve  
Same as above but from the Real Boiler

## PRODUCT CODE

BSPIL-MOD-HYD-500  
BSPIL-MOD-HYD-501  
BSPIL-MOD-HYD-502  
BSPIL-MOD-HYD-503  
BSPIL-MOD-HYD-504  
BSPIL-MOD-HYD-505  
BSPIL-MOD-HYD-506

## MODELS RELATED TO HYDRAULICS PUMPS

Air Lift Pump  
Archemedian Screw  
Centrifugal Pump Set Model  
De-Laval Turbine  
Deep Well Turbine Pump  
Direct Torary Rig Model  
Display Board for Pipe Fittings and Valves  
Francis Turbine Model  
Gear Pump Model  
Hydraulic Accumulator Model  
Hydraulic Intensifier Model  
Hydraulic Jack Model  
Hydraulic Lift Model

## PRODUCT CODE

BSPIL-MOD-HYD-513  
BSPIL-MOD-HYD-514  
BSPIL-MOD-HYD-515  
BSPIL-MOD-HYD-516  
BSPIL-MOD-HYD-517  
BSPIL-MOD-HYD-518

## MODELS OF I.C. ENGINES & POWER PLANTS

Hydraulic Press Model  
Hydraulic Water Pump Model  
Hydraulic Ram Model  
Impulse Turbine  
Jet Pump Model  
Kaplan Turbine Model

BSPIL-MOD-HYD-519 Pelton Turbine Model  
BSPIL-MOD-HYD-520 Pendulum Pump  
BSPIL-MOD-HYD-521 Pure Reaction Turbine  
BSPIL-MOD-HYD-522 Radial Turbine  
BSPIL-MOD-HYD-523 Reciprocating Pump Set Model  
BSPIL-MOD-HYD-524 Rotary Pump  
BSPIL-MOD-HYD-525 Axial Flow Runner  
BSPIL-MOD-HYD-526 Centrifugal Runner  
BSPIL-MOD-HYD-527 Domestif Self Priming Runner  
BSPIL-MOD-HYD-528 Francis Runner  
BSPIL-MOD-HYD-529 Kaplan Runner  
BSPIL-MOD-HYD-530 Mixed Flow Pump Runner  
BSPIL-MOD-HYD-531 Pelton Wheel Runner  
BSPIL-MOD-HYD-532 Radial or Centrifugal Runner  
BSPIL-MOD-HYD-533 Submersible Pump Model  
BSPIL-MOD-HYD-534 Steam/Reaction Turbine  
BSPIL-MOD-HYD-535 Tube Well Model  
BSPIL-MOD-HYD-536 Water Wheel  
BSPIL-MOD-HYD-537 Screw Jack  
BSPIL-MOD-HYD-538 Toggle Jack  
BSPIL-MOD-HYD-531 Pelton Wheel Runner  
BSPIL-MOD-HYD-532 Radial or Centrifugal Runner  
BSPIL-MOD-HYD-533 Submersible Pump Model  
BSPIL-MOD-HYD-534 Steam/Reaction Turbine  
BSPIL-MOD-HYD-535 Tube Well Model  
BSPIL-MOD-HYD-536 Water Wheel  
BSPIL-MOD-HYD-537 Screw Jack  
BSPIL-MOD-HYD-538 Toggle Jack

## PRODUCT CODE NUT, BOLTS & THREADS

BSPIL-MOD-FAS-600 Fasteners  
BSPIL-MOD-FAS-601 Foundation Bolts  
BSPIL-MOD-FAS-601A (a) Eye foundation bolt  
BSPIL-MOD-FAS-601B (b) Lewis foundation bolt  
BSPIL-MOD-FAS-601C (c) Rag Foundation bolt  
BSPIL-MOD-FAS-601D (d) Cotter bolt  
BSPIL-MOD-FAS-602 Hemispherical sectional Models of Screw Threads  
BSPIL-MOD-FAS-603 Hemispherical sectional Models of screw Threads  
BSPIL-MOD-FAS-604 Nuts Locking arrangements of bolts  
BSPIL-MOD-FAS-604A (a) Sawn nut with locking arrangement  
BSPIL-MOD-FAS-604B (b) Slotted nut with locking arrangement  
BSPIL-MOD-FAS-604C (c) Stop plate with locking arrangement  
BSPIL-MOD-FAS-604D (d) Grooved nut with locking arrangement  
BSPIL-MOD-FAS-604E (e) Castle nut with interlocking arrangement  
BSPIL-MOD-FAS-604F (f) Check nut with locking arrangement  
BSPIL-MOD-FAS-604G (g) Spring washer nut with locking arrangement

BSPIL-MOD-FAS-605 Types of Bolts  
BSPIL-MOD-FAS-605A (a) Standard bolt  
BSPIL-MOD-FAS-605B (b) Eye bolt  
BSPIL-MOD-FAS-605C (c) Ordinary bolt  
BSPIL-MOD-FAS-605D (d) Hexagonal bolt  
BSPIL-MOD-FAS-605E (e) Hook bolt  
BSPIL-MOD-FAS-605F (f) Square head bolt  
BSPIL-MOD-FAS-605G (g) Stud bolt  
BSPIL-MOD-FAS-605H (h) Set screw type  
BSPIL-MOD-FAS-605I (i) Lifting eye bolt  
BSPIL-MOD-FAS-627 Types of Studs  
BSPIL-MOD-FAS-627A (a) Plain Stud  
BSPIL-MOD-FAS-627B (b) Collar Stud  
BSPIL-MOD-FAS-628 Hanger Bracket  
BSPIL-MOD-FAS-629 Wall Bracket  
BSPIL-MOD-FAS-630 Helical Springs

## PRODUCT CODE MODELS OF I.C. ENGINES & POWER PLANTS

BSPIL-MOD-FAS-631 Spiral Springs

**We do manufacture and deal other mechanical labs such as : Imaging, Metallurgy, Dynamics, Metrology, Thermal, Biotechnology, Refrigeration & Air Condition, Fluid Mechanics, Foundry, Non Destructive Testing, Strength Of Materials, Hydraulics, Workshop.**

**We can also make customer preference models**

**Marketed by:-**

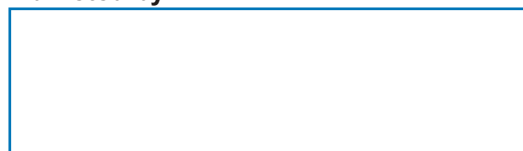


**B.S.PYROMATIC INDIA (P) LTD.,**  
"The Engg. Lab People"

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# OTHER ENGINEERING MODELS

PRODUCT CODE	MODELS OF PENETRATION
BSPIL-MOD-PHY-700	Two Equal Cylinders Penetrate Each Other At Right Angles.
BSPIL-MOD-PHY-701	Two Unequal Cylinders Penetrate Obliquely
BSPIL-MOD-PHY-702	A Cylinder Into A Cone Penetrate Obliquely
BSPIL-MOD-PHY-703	A Cone And Cylinder Penetrate Each other At Right Angles
BSPIL-MOD-PHY-704	Sphere And Cone At Centre
BSPIL-MOD-PHY-705	Sphere And Square Prism At Centre
BSPIL-MOD-PHY-706	Sphere And Cylinder, Eccentrically
BSPIL-MOD-PHY-707	Hexagonal Prism And Cone
BSPIL-MOD-PHY-708	Two Cones Penetrate Each Other at Right Angle
BSPIL-MOD-PHY-709	Two Unequal Square Prisms Penetrate each Other At Right Angles
BSPIL-MOD-PHY-710	Two Square Prisms Penetrate Obliquely
BSPIL-MOD-PHY-711	Spherer And Cylinder At Centre
BSPIL-MOD-PHY-712	Projection Of Straight Line Apparatus
BSPIL-MOD-PHY-713	Slide Rule Linear, 6 Long
BSPIL-MOD-PHY-714	Slide Rule Model

### MODELS OF DISSECTED SOLIDS

BSPIL-MOD-GEO-800	Cube Cut In Two Right Angled Triangles
BSPIL-MOD-GEO-801	Sphere 10 Cm Diameter Cut In Two Hemispheres
BSPIL-MOD-GEO-802	Cylinder Cut At An Oblique Angle
BSPIL-MOD-GEO-803	Cone Cut At An Oblique Anlge
BSPIL-MOD-GEO-804	Pyramid Triangular Cut In Two Parts
BSPIL-MOD-GEO-805	Triangular Prism Cut In Two Parts Parallel To Base
BSPIL-MOD-GEO-806	Tetrahedron Having Each Side 15 Cm And Cut In Two Parts Parallel To Base
BSPIL-MOD-GEO-807	Paralleloiped Dissectable In Two Triangular Prisms
BSPIL-MOD-GEO-808	Paralleloiped Dissectable In Two Triangular Prisms Wood

### (Dissection model)

BSPIL-MOD-GEO-809	In Oblique Section DM
BSPIL-MOD-GEO-810	Cone-DM
BSPIL-MOD-GEO-811	Cone With 4 Sections DM
BSPIL-MOD-GEO-812	Cube 20 X 20 Cm DM
BSPIL-MOD-GEO-813	Decagonal Prism DM
BSPIL-MOD-GEO-814	Decagonal Prism Pyramid DM
BSPIL-MOD-GEO-815	Octagonal Prism DM
BSPIL-MOD-GEO-816	Octagonal Pyramid DM
BSPIL-MOD-GEO-817	Hexagonal Prism DM
BSPIL-MOD-GEO-818	Hexagonal Pyramid DM
BSPIL-MOD-GEO-819	Petagonal Prism DM
BSPIL-MOD-GEO-820	Triangular Pyramid DM
BSPIL-MOD-GEO-821	Triangular Prism DM
BSPIL-MOD-GEO-822	Square Prism DM
BSPIL-MOD-GEO-823	Rectangular Prism DM
BSPIL-MOD-GEO-824	Sphere 15cm DM
BSPIL-MOD-GEO-825	Cylinder the DM
BSPIL-MOD-GEO-826	The Unsectionised model
BSPIL-MOD-GEO-827	Cone - USM
BSPIL-MOD-GEO-828	Decagonal Prism - USM

### (The Unsectionised Models)

BSPIL-MOD-GEO-829	Decagonal Pyramid -USM
BSPIL-MOD-GEO-830	Octagonal Prism-USM
BSPIL-MOD-GEO-831	Octagonal Pyramid-USM
BSPIL-MOD-GEO-832	Hexagonal Prism-USM
BSPIL-MOD-GEO-833	Hexagonal Pyramid-USM
BSPIL-MOD-GEO-834	Petagonal Prism-USM
BSPIL-MOD-GEO-835	Triangular Pyramid-USM
BSPIL-MOD-GEO-836	Triangular Prism-USM
BSPIL-MOD-GEO-837	Square Prism-USM
BSPIL-MOD-GEO-838	Rectangular Prism-USM
BSPIL-MOD-GEO-839	Sphere 15cm-USM
BSPIL-MOD-GEO-840	Cylinder-USM
BSPIL-MOD-GEO-841	Half Sphere-USM
BSPIL-MOD-GEO-842	Semi Cylinder-USM
BSPIL-MOD-GEO-843	Quarter Cylinder-USM
BSPIL-MOD-GEO-844	Tetrahedron-USM
BSPIL-MOD-GEO-845	Octrahedron- USM
BSPIL-MOD-GEO-846	Circle -USM
BSPIL-MOD-GEO-847	Double Cross-USM
BSPIL-MOD-GEO-848	Single Cross-USM
BSPIL-MOD-GEO-849	Model Plates, Triangular,Rectangular, Hexagonal, Octagonal or Circular Square, Pentagonal,
BSPIL-MOD-GEO-850	Geometrical Model Kit KEYS
BSPIL-MOD-KEY-900	Feather key
BSPIL-MOD-KEY-901	Sunk Taper key
BSPIL-MOD-KEY-902	Woodruff Key

BSPIL-MOD-KEY-903	Keys ( set of 6 keys)
BSPIL-MOD-KEY-904	Saddle Key
BSPIL-MOD-KEY-905	Tangent Key
BSPIL-MOD-KEY-906	Round Key
BSPIL-MOD-KEY-907	Spines Key
BSPIL-MOD-GEO-844	Tetrahedron-USM
BSPIL-MOD-GEO-845	Octrahedron- USM
BSPIL-MOD-GEO-846	Circle -USM
BSPIL-MOD-GEO-847	Double Cross-USM
BSPIL-MOD-GEO-848	Single Cross-USM
BSPIL-MOD-GEO-849	Model Plates, Triangular,Rectangular, Hexagonal, Octagonal or Circular Square, Pentagonal,
BSPIL-MOD-GEO-850	Geometrical Model Kit KEYS
BSPIL-MOD-KEY-900	Feather key
BSPIL-MOD-KEY-901	Sunk Taper key
BSPIL-MOD-KEY-902	Woodruff Key
BSPIL-MOD-KEY-903	Keys ( set of 6 keys)
BSPIL-MOD-KEY-904	Saddle Key
BSPIL-MOD-KEY-905	Tangent Key
BSPIL-MOD-KEY-906	Round Key
BSPIL-MOD-KEY-907	Spines Key
<b>JOINTS &amp; COUPLING</b>	
BSPIL-MOD-JNC-1000A	(a) Box of Muff coupling
BSPIL-MOD-JNC-1000B	(b) Half Lap Muff Coupling
BSPIL-MOD-JNC-1000C	(c) Split Muff Coupling
BSPIL-MOD-JNC-1001	Couple Joint
BSPIL-MOD-JNC-1002	Expansion Joint
BSPIL-MOD-JNC-1003	Flanged Coupling
BSPIL-MOD-JNC-1003A	(a) Model with bolts, key groove and key
BSPIL-MOD-JNC-1003B	(a) Protected flanged coupling with shaft
BSPIL-MOD-JNC-1003C	(c) Solid flanged coupling with shaft
BSPIL-MOD-JNC-1004	Flanged pipe C.I.Joint
BSPIL-MOD-JNC-1005	Flexible coupling
BSPIL-MOD-JNC-1006	Gib and Cotter Joint
BSPIL-MOD-JNC-1007	Hook Joint (Hook coupling), single type
BSPIL-MOD-JNC-1008	Hook Joint (Hook coupling), Double type
BSPIL-MOD-JNC-1009	Hydraulic Joint
BSPIL-MOD-JNC-1010	Key Cotter Joint
BSPIL-MOD-JNC-1011	Knuckle Joint
BSPIL-MOD-JNC-1012	Nipple Joint
BSPIL-MOD-JNC-1013	Oldham's Coupling
BSPIL-MOD-JNC-1014	Pin Joint
BSPIL-MOD-JNC-1015	Pipe joint
BSPIL-MOD-JNC-1016	Rivets ( Different types)
BSPIL-MOD-JNC-1016A	(a) Cup head
BSPIL-MOD-JNC-1016B	(b) Pan head
BSPIL-MOD-JNC-1016C	(c) Conical head
BSPIL-MOD-JNC-1016D	(d) Counter sunk head
BSPIL-MOD-JNC-1017	Love-Joy Couplings Rivetted Joint
BSPIL-MOD-JNC-1017A	(a) A set of four wooden models consists of single and double lap joint, single and double strap joint
BSPIL-MOD-JNC-1017B	(b) Triple
BSPIL-MOD-JNC-1017C	(c) Quadruple
BSPIL-MOD-JNC-1017D	(d) Angle iron and Girder joint
BSPIL-MOD-JNC-1018	Shaft Coupling
BSPIL-MOD-JNC-1019	Sellers Coupling
BSPIL-MOD-JNC-1020	Sleeve and Cotter Joint
BSPIL-MOD-JNC-1021	Socket and Spigot Joint
BSPIL-MOD-JNC-1022	Splined Shaft
BSPIL-MOD-JNC-1023	Strap Joint
BSPIL-MOD-JNC-1024	Tie Rod Joint
BSPIL-MOD-JNC-1025	Union Joint
BSPIL-MOD-JNC-1026	Universal Coupling
BSPIL-MOD-JNC-1027	Welded Joint
BSPIL-MOD-JNC-1028	Input Shafts
BSPIL-MOD-JNC-1029	Lay Shafts
BSPIL-MOD-JNC-1030	Axle Shafts
BSPIL-MOD-JNC-1031	Double Riveted Double Strap (Equal Butt Joint - Chain Riveting
BSPIL-MOD-JNC-1032	Double Riveted Double Strap(Unequal Butt Joint - Zigzag Riveting)
BSPIL-MOD-JNC-1033	Logenge Joint (Joint of Uniform Strength)
BSPIL-MOD-JNC-1034	Eccentric Loaded Riveted Joint
BSPIL-MOD-JNC-1035	Fillet Joint
BSPIL-MOD-JNC-1036	Square Butt Joint
BSPIL-MOD-JNC-1037	Single V-Butt Joint

### BEARING MODELS

#### Ball Bearing Set

A set consists of 25 mm size original bearings mounted on a wooden base. Set consists of

BSPIL-MOD-BER-1100A	(a) Ball bearing
BSPIL-MOD-BER-1100B	(b) Roller bearing
BSPIL-MOD-BER-1100C	(c) Taper bearing
BSPIL-MOD-BER-1100D	(d) Thrust bearing
BSPIL-MOD-BER-1101	Each Complete Set.
BSPIL-MOD-BER-1102	Shaft Journal Bearing

Section cut wooden models of following types.	
BSPIL-MOD-BER-1102A	(a) Bush bearing
BSPIL-MOD-BER-1102B	(b) Collar bearing
BSPIL-MOD-BER-1102C	(c) Foot step bearing
BSPIL-MOD-BER-1102D	(d) Plummer block / Pedestal bearing
BSPIL-MOD-BER-1102E	(e) Shaft bearing
BSPIL-MOD-BER-1102F	(f) Split bearing
BSPIL-MOD-BER-1102G	(g) Thrust bearing
BSPIL-MOD-BER-1103	Swivel Bearing

### CLUTCHES

BSPIL-MOD-AUT-1200	Centrifugal Clutch
BSPIL-MOD-AUT-1201	Claw Clutch
BSPIL-MOD-AUT-1202	Cone Clutch
BSPIL-MOD-AUT-1203	Multi Plate Clutch
BSPIL-MOD-AUT-1204	Single Plate Clutch
BSPIL-MOD-04000	Lathe Chuck
BSPIL-MOD-04001	Gear Reducer Three Speed and Type
BSPIL-MOD-04002	Gear lubricating Pump
BSPIL-MOD-04003	Sectioned/4/5 Speed gear Box with Gear operating lever Model is Mounted on a stand
BSPIL-MOD-04004	Steam Stop Valve
BSPIL-MOD-04005	Drop Valve Steam Engine
BSPIL-MOD-04006	Carliss Valve Steam Engine
BSPIL-MOD-04007	Uni Flow Steam Engine
BSPIL-MOD-04008	Pneumatic Cylinder assembly Pneumatic Trainer or DEMO KIT (Manual) Make
BSPIL-MOD-04009	Centrifugal pump assembly
BSPIL-MOD-04010	Crank Shaft
BSPIL-MOD-04012	Demonstration Car Chassis
BSPIL-MOD-04013	Diesel Engine
BSPIL-MOD-04014	Differential Gear
BSPIL-MOD-04015	Differential Gear Assembly
BSPIL-MOD-04016	Differential And Rear Axle Assembly
BSPIL-MOD-04017	Gear Box With out Clutch
BSPIL-MOD-04018	Gear Box with Clutch



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