



Mining Models

WINDING

Cat. No. Description of model

101. Winding Installation
102. Cage Suspension Gear
103. Headgear
104. Winding Drum Profiles
105. Cylindrical Winding Drum
106. Friction or Koepe Winding System
107. Friction or Koepe Winding System
108. Landing at Mid-inset
109. Mechanical Brake for Winding Drum
110. Single-deck Cage
111. Double-deck Cage
112. Skip (Bottom-discharge Type)
113. Winding Rope Cappel
114. Detaching Hooks
115. Headgear Pulley
116. Guide rope Suspension Gland
117. Cage Guides
118. Guide-shoes for Cages
119. Kep Gear
120. Tippler
121. Coal Screening Plant
122. Mechanised Colliery Surface Layout
123. Pit-top Layout with Run-round System
124. Pit-top Layout with Shunt-back System
125. Pit- top Layout with Turntables
126. Pit-top Layout with Lofco System
127. Pit-bottom Layout for Cage Winding
128. Incline Top Layout with Direct Rope Haulage
129. Incline Top Layout with Belt Conveyor
130. Support of Cables & Pipe Range in Shaft
131. Mining Wire Ropes
132. Colliery Cables
133. Standard Rails

HAULAGE

201. Safety Devices on Haulage Road
202. Mine Car
203. Tipping Tub
204. Man-riding Car
205. Haulage Track Layout, Switch & Crossing
206. Direct Rope Haulage Layout
207. Endless Rope Haulage Layout
208. Main and Tail Rope Haulage Layout

209. Gravity Haulage or Self-acting Incline or jig Layout
210. Rope Splicing Tools & Trackles
211. Rope Splicing
212. Shaker Conveyor
213. Belt conveyor
214. Gate belt Conveyor with Loop Take-up
215. Cable belt Conveyor
216. Scraper Chain Conveyor
217. Stage Loader
218. Mono-rail Transport
219. Sprial Chute
220. Mono-cable Aerial Ropeway

SHAFT SINKING

301. Shaft Sinking
302. Shot-hole Pattern in a Sinking Shaft
303. Plumbing (or Shaft Centring) Arrangements for a Sinking Shaft
304. Suspension of Sinking Pump
305. Upward Drivage of Staple Shaft
306. Widening a shaft Used for Coal-winding
307. Deepening a Working Shaft

WINNING AND WORKING COAL

401. Mechanised Opencast Coal Mine (at an Advanced Stage)
402. Bord & Pillar Development Working – Access by Inclines
403. Bord and Pillar Development Working
404. Board and Pillar Depillaring Working
405. Longwall Advancing Face with Stowing
406. Longwall Retreating Face with Caving
407. Horizon Mining
408. Wet Cutting by Coal Cutting Machines
409. Shot- hole Patterns
410. Driving a Stone Drift
411. Plant for Winning Sand from River Bed by Pump
412. Plant for Winning Sand from River Bed by Scraper
413. Sand Stowing in the Goaf of a Longwall Panel
414. Sand Stowing in the Goaf of a Depillaring Panel
415. Sand Stowing Arrangements at a Colliery
416. Percussive Manual Boring with Zrigid Rods
417. Percussive Power Boring with Rigid Rods
418. Percussive Rope Boring



MINE SUPPORTS

- 501. Types of Roof Support by Timber
- 502. Chock with Four Corner Props
- 503. Chock Release Device
- 504. Tapered Props
- 505. Side & Roof Support in a Roadway
- 506. Undersetting of Prop & Cog in Highly Inclined Seam
- 507. Forepoling
- 508. Safari Supports
- 509. Roof Stitching
- 510. Roof and Side Stitching
- 511. Roof Bolting
- 512. Bamboo Bolting
- 513. Support of a Wide Roadway Junction
- 514. Support of a Roadway V-junction
- 515. Support of a Roadway Right-angle
- 516. Support of a High Roof Fall Over
- 517. Systematic Supports in a Depillaring District
- 518. Roadway Supported by Steel Arches

MINE VENTILATION AND INUNDATION

- 601. Gas Testing Plant
- 602. Gas Camps
- 603. Ventilation System in a Bord & Pillar Panel
- 604. Different Types of Stoppings
- 605. Barttice Partitions
- 606. Air-crossing
- 607. Regulator
- 608. Ventilation Door with Regulator
- 609. Ventilation of Heading by Auxiliary Fan
- 610. Ventilation of a Pair of Parallel Headings
- 611. Hurdle Screen
- 612. Removal of Gas Accumulation In a Large Cavity
- 613. Booster Fan in Return Airway
- 614. Booster Fan in Intake Airway
- 615. Sirocco Fan
- 616. Axial-flow fan
- 617. Walker Indestructible Fan
- 618. Guibal Fan
- 619. Waddle Fan
- 620. Auxiliary Fan
- 621. Airlock for Up cast Shaft
- 622. German Type Airlock for Upcast Shaft
- 623. Colliery Lamproom
- 624. Stone-dust Barrier
- 625. Approaching Old Water-logged Workings
- 626. Brickwork Water Dam
- 627. Concrete Water Dam
- 628. Shaft Dam or Plug
- 629. Sealing of Shaft Mouth

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