MAILLEFER
A Davis › Standard Company

World's No. 1
Pakistan's 1st

Launching in Pakistan

66 KV CDCC CCV Maillefer Line

With Excellent Linearity and Output Stability

newage®
CABLES

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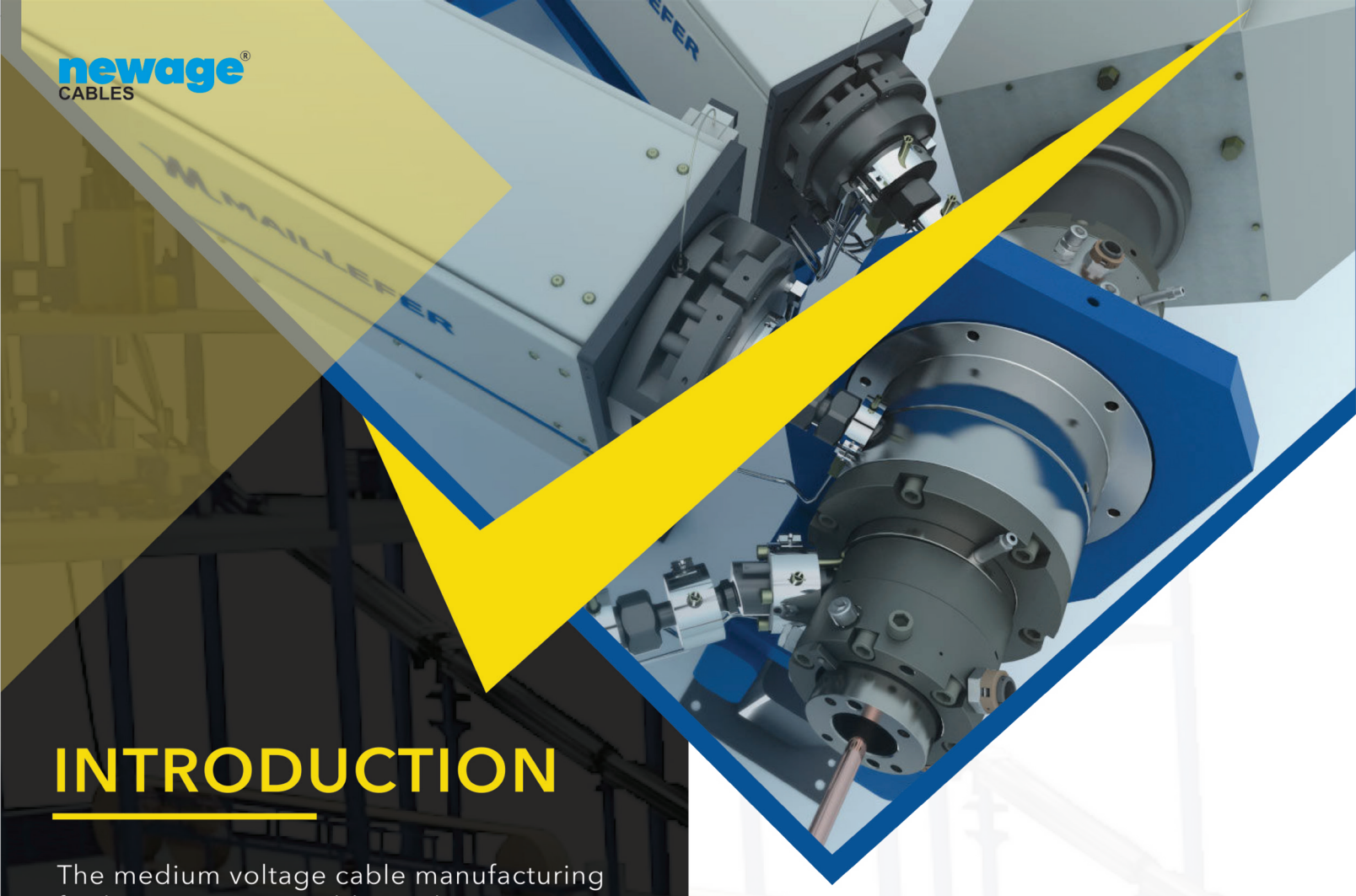
CABLES



INTRODUCTION

The medium voltage cable manufacturing facility at Newage Cables is the most modern facility available in the region today with the state-of-the-art Catenary Continuous Vulcanization (CCV) technology. It is supplied by the biggest & the best names in the cable manufacturing machinery industry, Maillefer, Finland. It incorporates some of the most modern features Like:

- Triple extrusion head to ensure superior quality of extrusion and uniform bonding.
- In line X-ray machine for checking proper concentricity, thickness, ovality and overall diameter of all three layers of insulation.
- CDCC - Completely Dry Curing & Cooling in an inert atmosphere of nitrogen.
- Fully Computerized auto-cure control system which controls all driving parameters to achieve best curing of extruded materials.
- Fully automatic compound handling system ensuring a contamination free line, which is absolutely essential to achieve a superior quality product.

Triple Extrusion Process

Newage Cables uses the most sophisticated system with advanced automatic concentricity control system and state-of-the-art triple cross-head extrusion which guarantees the highest quality of the insulated conductor with following advantages:

- Uniform insulation structure.
- Ensures extremely accurate layer thickness.
- Ensures high purity in the frontier limit between the semi-conductive layers and insulation.
- Provides optimal fusion of the individual layers without contamination.
- Ensures a firm bond and smooth interface between each layer thus improving electrical properties.
- Prevents unforeseen damage to the conductor or insulation screen during manufacturing process.

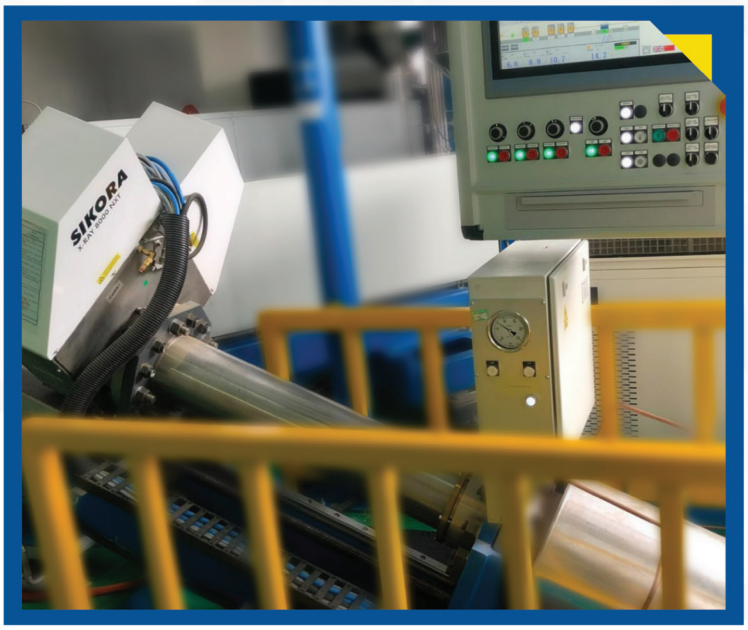
Dry Curing & Cooling

The insulated conductor is fed into the crosslinking zone where a computer calculated and controlled heat treatment takes place in a dry inert gas (nitrogen) pressurized atmosphere (dry curing).

- (a) It improves the breaking strength when inclusion occurs in XLPE.
- (b) It slows water tree growth in the XLPE material under service.
- (c) Curing is done in heated and pressurized nitrogen which reduces micro voids and moisture content in the insulation and ensures enhanced and stable breakdown strength.
- (d) The hot cross-linked core passes into the cooling part of the line to be cooled in a dry inert gas (Nitrogen).

Quality Control

- Very strict quality control during processing using SIKORA X-RAY unit for thickness measurement in continuous mode for all extruded layers.
- This arrangement also facilitates recording of the trend every two seconds.
- The unit continuously scans 360° geometry of the cable and displays maximum, minimum and eccentricity of all three layers separately.
- Any deviation between specified values and measured values are recorded and adjusted automatically.
- Our CCV line contains "Dual-coil preheating System" one of the latest in manufacturing technology, which ensures superior control of eccentricity and eliminates the risk of conductors getting caught in the wire guide.
- Use of very sophisticated software for temperature adjustment in the curing zone of CCV line ensures optimum XLPE characteristics.



Newage's Maillefer Line Features

- Voltage range up to 66KV.
- Voltage range for testing up to 120KV.
- Conductor cross section up to 800mm^2.
- The line speed increases over 25% (line length 165m).
- Low lead time.
- Higher preheating temperature.
- No risk of inner semicon penetration into the outermost wires.
- More even conductor temperature.
- ABB/Siemens control modules.

Testing Facility Up To 120KV

- Newage Cables has made a major investment in the testing facilities for its MV Cables facility.
- We have equipped ourselves with the latest and most advanced cable testing facility available in the world.
- Highest Voltage Range of cable testing in Pakistan up to 120KV.
- All testing equipment such as AC/PD Resonance Voltage Withstand System, Partial Discharge Detector, High Voltage Tester are supplied by DIELEC High voltage test equipment.
- Newage Cables quality management system is accredited to ISO 9001.
- The design validation for our MV Cables range has been done at recognized international laboratories.
- With the above state of the art Testing Facility, we can conduct all Routine Tests, Type Tests and Sample Tests mentioned in IEC/BSS & other international specifications, in-house.
- 100% of the cables manufactured are routine tested prior to dispatch. However, if the customers desire to witness these tests or other Type / Sample tests, they can nominate their representatives or appoint a third party to witness the same at Newage cables factory.

newage®
CABLES

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