



# REPA

CONVEYOR EQUIPMENT



## Introduction

REPA Conveyor Equipment B.V. (REPA CE) based in the Netherlands specialises in producing high quality pulleys, idlers and idler frame to customers worldwide.

REPA CE is a member of the REPA Group, which has been in belt conveyor business for over 30 years. Having recently re-located to new spacious Conveyor Belt workshops, offices and warehouse facilities in Alkmaar The Netherlands.

## Capabilities

REPA CE have in-house engineering capability that provides tailor made design in order to select and optimise the best engineering solutions in order to meet specific customer demands, environmental conditions for a large range of industrial applications that include but is not limited to the following: Bulk Materials Handling Processes, Mining (Minerals), Coal, Cement, Ship Loaders, Dredging, Steel Plants, Plate Mills, Food Processing, Power Generation and Agriculture.

## Product range includes:

- pulleys and idlers (for all belt conveyor systems including trough conveyors and pipe conveyors)
- pulleys up to 20 ton max (shell & shaft combined)
- pulleys (cylindrical/crowned - ceramic/rubber/PU lagging)
- thermally controlled heater pulleys
- belt guide rollers/ re-tracking idlers and frames
- steel rollers to (DIN, CEMA, SANS, GB etc. standards)
- HDPE rollers/ belt scrapers
- carrying and return training idlers
- rope pulleys & wheels
- idler/ trough frames
- steel structures
- canopies/ covers

REPA CE manufacturing capabilities consist of three large modern factories based in China, employing approximately 500+ employees. The third factory was acquired in 2018 and is purely focused on HDPE and PU products which has room for expanding their operations 3 fold once the demand in the market picks up.

1st Factory (200,000 M<sup>2</sup>) Scope of Manufacture - Pulleys and Idlers

2nd Factory (87,000 M<sup>2</sup>) Scope of Manufacture - Idlers, Idler Stations and Structural Steelwork

3rd Factory (9,701 M<sup>2</sup>) Scope of Manufacture - HDPE Idlers, Belt Scrapers, PU/ HDPE Components



All factories are complimented by a full range of modern and well maintained equipment fit for purpose, consisting of the following:

- Profile cutting equipment and hydraulic plate rolls (pulley shells)
- Hydraulic brake presses/ bending and punching machines (structural steelwork)
- The latest welding technology (qualified operators & procedures to AWS/ EN standards)
- Robotic welding line for structural steelwork and idler frames
- Heat Treatment facilities
- Non-Destructive Testing (carried out by certified level II NDT technicians)
- A full range of conventional and CNC horizontal lathes, boring and milling machines (shell, end discs, shafts)
- Rubber vulcanizing, including autoclave and high quality corrosion protection facilities (including powder coating)
- Dynamic and Static Balancing
- PU/ HDPE Extrusion and CNC machining centres (3rd Factory)
- Zinc plating and hot dip galvanizing are carried out by approved sub-suppliers under strict quality and environmental controls

Supported by a qualified and dedicated QC department which includes a full time resident engineer (expat), operating in all factories, providing technical support, inspections and assistance on manufacturing processes. This is further enhanced by in-house inspection and testing facilities, non-destructive testing and mechanical/ chemical analysis laboratory in accordance with and certified to:

- ISO 9001:2015 Quality Management Systems
- ISO 14001:2015 Environmental Management Systems
- ISO 18000:2007 Occupational Health & Safety Management Systems
- ISO 3834-3 – Quality Standard for Fusion Welding and Metallic Materials

Customers are provided with Inspection & Test Plans (ITP) prior to commencement of work (if required) for approval and final manufacturing data book (MDR) consisting of inspection, test reports, material certification and welding documentation are compiled progressively until final completion. Weekly progress and inspection surveillance reports complete with photographs are issued on a weekly basis throughout manufacture upon request as part of our total commitment to quality and customer satisfaction program.

Idlers are designed and supplied by REPA CE in accordance with:

- DIN 22112-3 – Testing Requirements
- Strict T.I.R control according to DIN 22112-2
- Dynamic Balancing – Class G40/G16 according to ISO 1940:2005

These two manufacturing facilities combined are capable of producing approximately 2,000,000 high quality energy saving idlers annually.

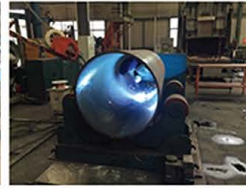
## Manufacturing (Pulleys)



Rolling Shell Plate



Welding by SAW



Welding by MAG



Stress Relievin



Machining End Disc and Shell



Machining Shaft



Rubber Vulcanizing



Machining Phase



Machining Profile



Torqueing Locking Device



Painting & Assembly

## Manufacturing (Idler/ Idler Stations)



Semi-Automatic Welding Line



Welding Frames by MAG



Painting



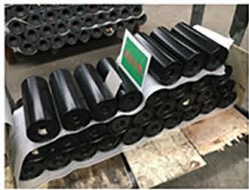
Powder Coating



Controlled Drying & Paint Booths



Drying Beds



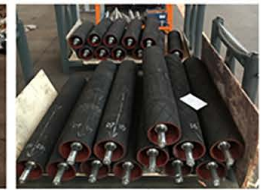
Steel Rollers Waiting Assembly



HDPE Rollers - Extruding and Cutting



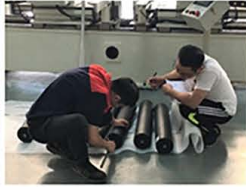
HDPE Rollers Assembled



## Inspection & Testing



Inspection & Test Lab



Carrying out Dimensional Inspections



Checking Each Shaft



Carrying Out Paint Film Thickness Inspection (DFT)



## Non-Destructive Testing



Magnetic Particle Inspection



Ultrasonic Inspection



Dye Penetrant Inspection on  
Stainless Steel Pulley



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