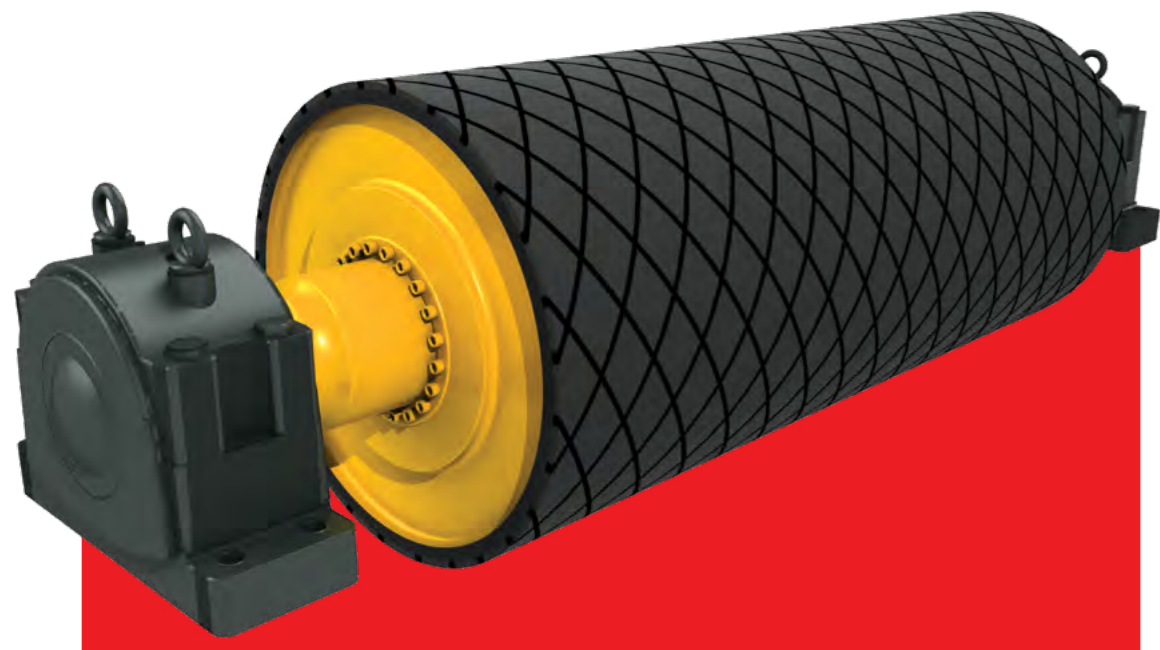




CPM CONVEYOR PULLEYS



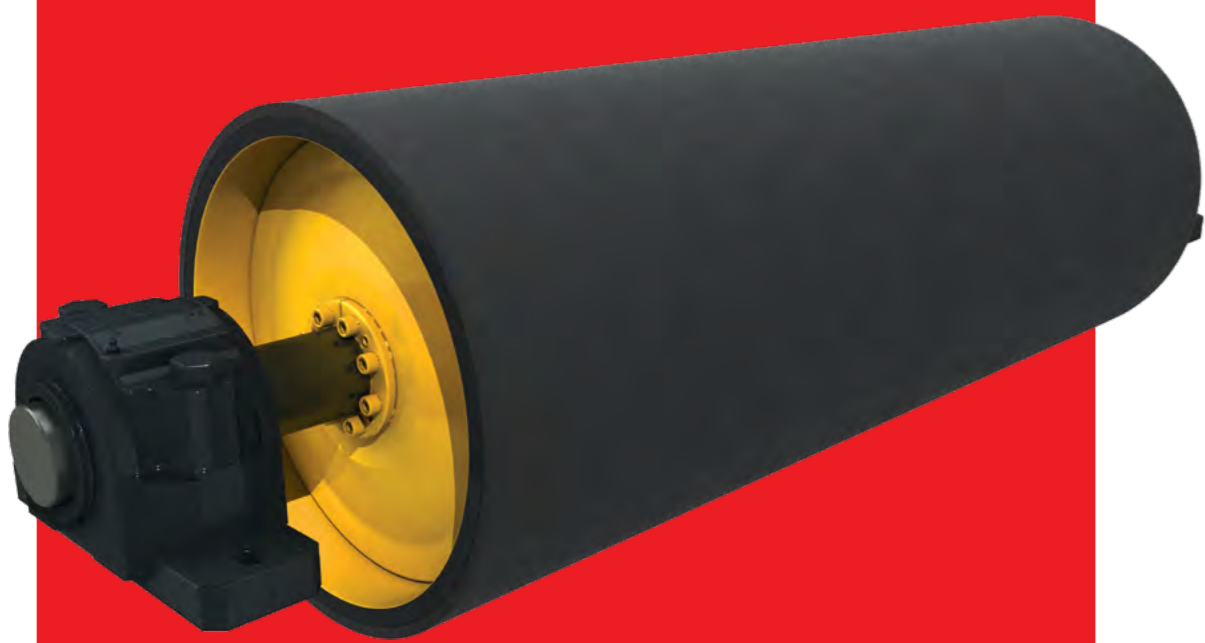
**MANUFACTURED TO
ISO9001:2015
STANDARDS**

**LIGHT, MEDIUM
AND HEAVY RANGE**

**DESIGNED FOR
OPTIMUM
PERFORMANCE
AND FATIGUE LIFE**

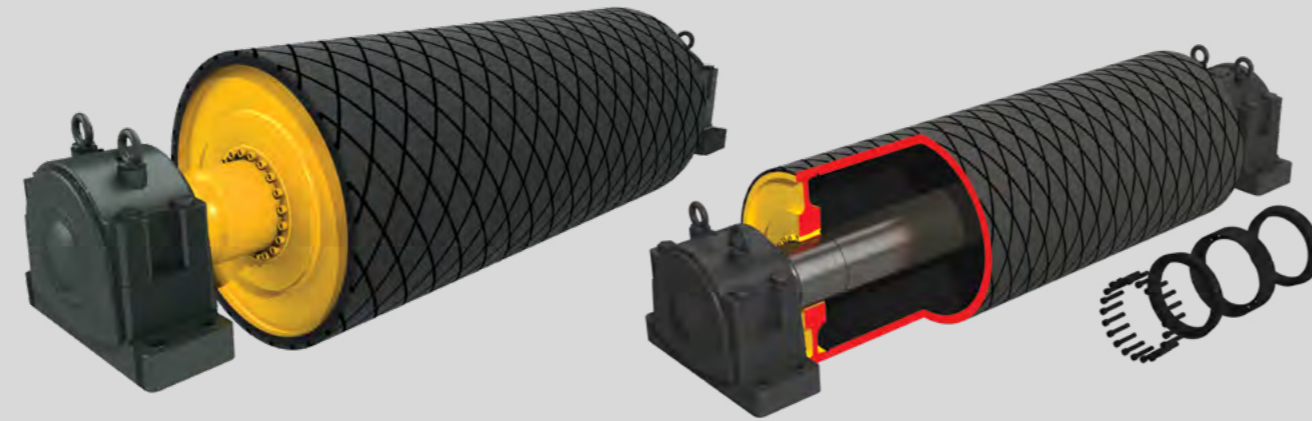
**MEETS ALL
SANS AND CEMA
STANDARDS**

**DESIGNED FOR
ENDURANCE & RELIABILITY**



CPM design and manufacture conveyor pulleys to suit your particular application and requirements. The standard range in shaft size is from 30mm to 440mm and we can machine and supply up to 6000mm in length of shaft. Diameters and face widths vary from 127mm diameter x 320mm face to 1600mm diameter x 5200mm face. Located on Elandsfontein, Johannesburg, and founded in 1992, we are now part of the Rulmecca Group. Our engineers have developed CAD software which embody every facet of design which are updated regularly to ensure that the latest technology and materials science are incorporated. This ensures that our many years of design and manufacturing experience is readily available to our clients. We provide to our clients a comprehensive analysis of specifications and requirements, so that they can be sure of the best conveyor pulley at the most economic price for any given application. Further developments in design enable CPM to produce FEA (finite element analysis) for any particular conveyor pulley, on request. CPM also manufactures a full range of rigid flange couplings and locking elements as well as manufacturing bespoke conveyor pulleys designed to our clients exact requirements.

T-Bottom



Due to the ever increasing size and speed of conveyor belts pulley, conveyor pulleys with shafts of 220 mm diameter and bigger are considered large or heavy duty pulleys. There are many types of locking elements which are utilised for this range of pulley and the most proven is the O15 type due to the fact that this unit can handle the big loadings, deflections and edge pressures exerted by these larger belts. The end disc design, thicknesses, assembly and welding are of the utmost importance to get the optimum life and performance. The end discs are machined from solid discs which are in turn specially machined with a profile that obtains an even stress distribution, in the disc, under load. The most outstanding characteristic of this type of end disc is the welding of the disc to the rim. It has been removed from the end disc and has been relocated to the rim, where the alternating fatigue stresses are far lower. The O6 and O15 designs are the most widely specified in South Africa in addition to having been tested and proven worldwide.

Turbine



Probably the world's most popular type and therefore specified pulley, the 1006 type locking element was specifically designed for the type of end disc shown. These are specified for the light to medium range and are usually limited up to and including a 200 diameter shaft. The pulleys are named as Turbine due to the shape of the end disc and it does away the use of a hub. This type of end disc makes it possible to eliminate the weld in the high stress zone of the pulley. There are many derivatives of this type but CPM, through the inventor of this locking element, have designed the disc exactly as it should be utilised, taking into account the pressures and shape of disc to get the utmost performance out of this design. The way the end disc is shaped, including the direction of the profile is critical when designing and assembling this type of pulley. This O6 unit is self-catering and therefore does not require a boss or backing plate.

Grease Filled



CPM design and manufacture a large range of "Grease & Oil-Filled" conveyor pulleys to exacting specifications and/or customer preferences. These pulleys are used in specialised situations and conditions. Sizes vary from a 50 mm shaft/bearing up to the largest we have made with a 400 mm shaft/360 mm diameter bearing. These units are respected and exported all over the world.

Belt Filter Pulley & Rollers



Belt Filter Pulleys have a specialised function. Previously these pulleys were extremely large, cumbersome and of an extremely heavy design. During this time the staff at CPM were involved with evolution of the L-Bottom end disc, Locking Element, and Stub Shaft design which has proved itself time and time again for its practical application i.e. making a large pulley, light weight to handle the imposed loads and suspended drives that are evident in Belt Filters. Similarly the Feed Dam, Cloth Rollers and other pulleys, for Belt Filters, were developed using a different approach by utilising the stub shaft design.

GENERAL PRODUCTS

Self-cleaning Pulleys - Belt Beater, Spiral and Slatted



CPM manufactures a full range of "self-cleaning and self-tracking conveyor pulleys" which take the form of Slatted, Cone Slatted, Wing, Spiral and Belt beating pulleys. This are specialised pulleys and should be selected carefully. We are available to assist in this regard.

Elevator Conveyors - Head & Tail & Deflector Pulleys and Belt Beater



Sheave Wheel, Bogy Wheel, Screw Take Up & THDS Take Up



CPM manufactures a range of standard, or client specified range of Screw Take Ups, Bogy Wheels, Sheave Wheels, THDS type take up bearing units and wheels and axles. These can be supplied as standards but may also be made up to client specifications.

Guide finger rollers



A full range of Elevator and similar pulleys are designed and manufactured by CPM to cover all the differing types of drive, tail, bend and deflector pulleys. To complement the Melco range of idlers and all Elevator type conveyors, CPM manufactures a full range of "extra heavy duty idler rollers (that fall out of the standard idler range)" including Guide rollers and finger rollers.

THE RULMECCA MOTORISED DRIVE PULLEY

