PRODUCT
OVERVIEW

DYNA™
Engineering

About Us

DYNA Engineering is a leading West Australian owned and operated conveyor specialist with over 30 years of experience in the industry.

We specialise in the design, manufacture and supply of quality conveyor equipment, components and related services.

We are committed to local manufacturing, innovating the future of conveyor components and reducing the environmental footprint of conveying operations.

Our extensive range of products include HDPE guarding, conveyor idlers, pulleys, belts, scrapers, air knives, tracking rollers and impact beds.

Belt Scrapers

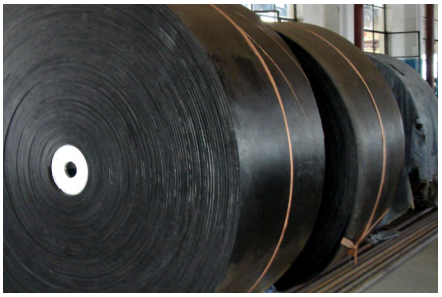
The DYNAFastFit® Conveyor Belt Scraper range is designed to fit all traditional and conventional scraper positions. Constructed from stainless steel, our scrapers are resistant to rusting and corrosion and are not susceptible to paint damage.

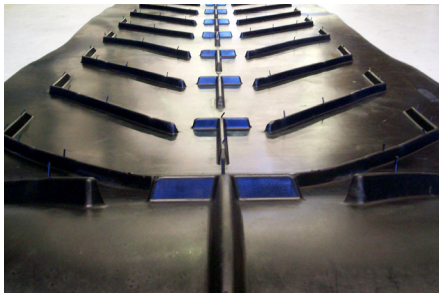
They are engineered with retractable shafts for easy removal of the scraper from the conveyor system, allowing for the quick replacement of blades. Featuring our unique and patented bearing housings, DYNAFastFit® scrapers are self-aligning, self-lubricating and self-locating. The scraper can also be removed and reinstalled without losing any setting.

Our design delivers exceptional cleaning efficiency for a wide variety of materials and applications. The range is supplied with the standard pin lock adjuster and polyurethane and carbide blades. Optional modifications can include twist lock spring tensioner or air bag tensioner.

Conveyor Belt

DYNA Engineering Conveyor Belts are available in a wide range of Rubber Fabric, Rubber Steel Cord and Rubber Chevron construction and are able to meet virtually any material handling application.





Rubber Fabric Belt

- Made to Australian Standard AS 1332-2000.
- Strength rating from PN315 to PN2000.
- Available in width to 2500mm wide and up to 600m long rolls.
- Ranging from 1 ply to 8 ply cores.
- Available grades: M, N, A, E, S.

Rubber Steel Cord Belt

- Made to Australian Standard AS 1333-1994.
- Strength rating from ST500 to ST6300.
- Available in width to 2500mm wide and up to 600m long rolls.
- Available grades: M, N, A, E, S.

Rubber Chevron Belt

- Used in applications where the incline angle of the conveyor is steeper than would normally be recommended for standard belt.
- Approximately 30° for slightly rolling materials, i.e., gravel, coal, etc.
- Approximately 40° for clumping or sticky materials i.e., wet sand or earth.

Conveyor Skirting

Flexiseal® Conveyor Skirting has been designed to create an effective seal between the conveyor structure and the conveyor belt. Engineered for quick and easy maintenance, it is a superior solution to traditional skirting systems.

Features of Flexiseal®					
Dynamic System	CAM LOC Clamping	Automatic Pressure Control Mechanism	Diagonal Grooving Channels	No Adjustments Required	Quick Release System

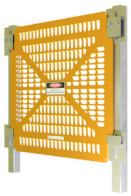
Diverter Plough

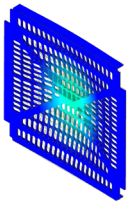
DYNA-TRAC® Diverter Ploughs (also know as Diversion Ploughs and Diverter Plows) are designed to suit your application. They are typically positioned mid-way along the conveyor system and are used to divert material from the belt. Diverter Ploughs are often used as a much more cost-effective option when compared to a tripper.

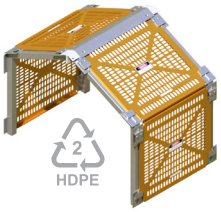
Features of DYNA-TRAC®			
Single or Double-sided Blade	Belt Support Mechanism, including Pneumatic, Hydraulic or Electric Motor Actuation	Discharge Chutes	Structural Frame

HDPE Conveyor Guards

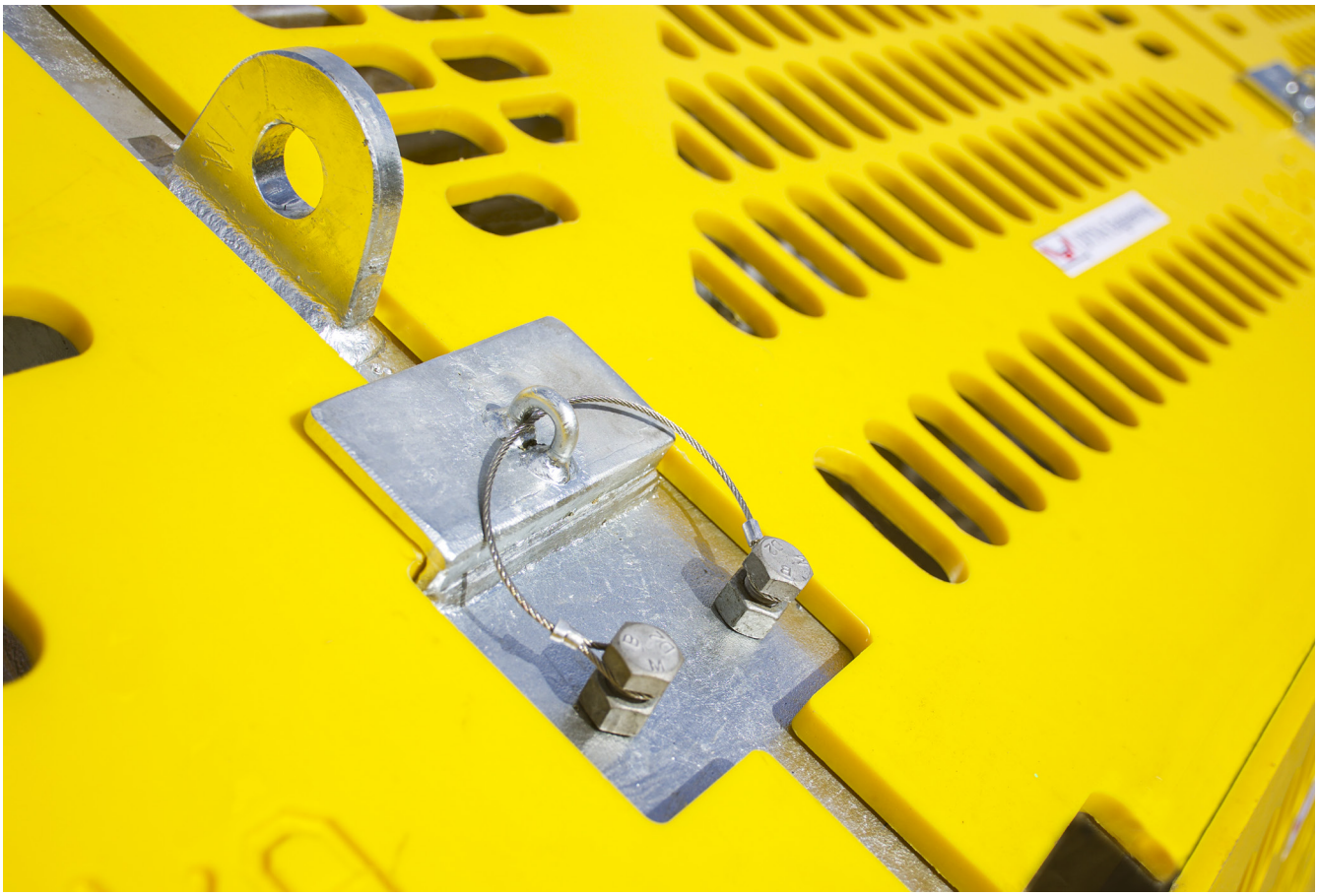
DYNA Engineering HDPE Conveyor Guards are a plastic guarding system designed to improve safety for bulk handling systems. Made from high-density polyethylene (HDPE), our conveyor guards are manufactured from recycled and recyclable materials and are designed to be a light-weight, low maintenance and corrosion-free alternative to conventional non-HDPE guards.







HDPE is a non-metallic and non-conductive material and is the perfect solution to magnet and metal detector areas.



Idler Rollers

DYNA Engineering designs and manufactures our idler rollers for continuous operation. Our design principals incorporate high capacity and heavy-duty applications, abrasive materials, in the most demanding operating conditions.

Available Types of Rollers

Plain Rollers

Impact Rollers

Rubber Coated Rollers

Various Screw Rollers

Stainless Steel Rollers

HDPE Rollers

Idler Sets

DYNA Engineering Idler Frames are manufactured from precision punched components and quality metals. They are available in a range of finishes, such as standard painted, galvanised or can be finished to your project requirement.

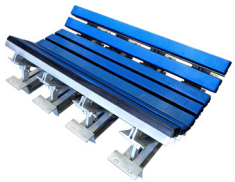
Our Idler Frames are also available in a variety of designs including inline trough, offset trough, return, trough trainer, return trainer, transition and many more.

Impact Beds

DYNA-TRAC® Impact Beds are used in place of impact idlers frames and rollers. Usually installed under the belt at the loading points, impact beds are designed to absorb the impact from falling material.

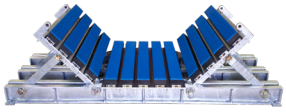
Our impact beds are designed and manufactured to be robust and have a long-lasting service life. Engineered with our modular pin-lock system for easy assembly and disassembly, our impact beds are fitted with highly absorbent impact bars to form a complete belt support system. Our range includes:

Available Types of Impact Beds



Standard Impact Bed

Hybrid Impact Bed

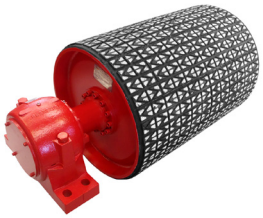


Heavy Duty Impact Bed

Custom Made

Pulleys

Design and Manufacture



DYNA Engineering's DYNA-TRAC® Conveyor Pulleys are designed and manufactured to the highest engineering standards to ensure long, reliable and fatigue-resistant service life.

Features			
Designed for Infinite Life	Steel Plate End-Discs	Static and/or Dynamic Balancing	Key-Less Connection of Shaft to End-Disc, using Expanding Hubs in Drive and Non-Drive Pulleys
Shells made of Rolled Steel-Plate or Pipe with Full Penetration Welding to the End-Disc	Pulley Lagging Options available in Plain Steel, Cold And Hot Vulcanised Rubber, Rubber Backed Ceramic Tiles and Direct Bold Ceramic Lagging	All Pulleys are designed by Dyna's Propriety Software incorporating the latest Design Theories and many years of experience	Crowned or Non-Crowned Available

Pulleys Reconditioning and Refurbishment

DYNA Engineering can recondition old and worn pulleys to extend the service life.

Reconditioning Services			
Crack Testing of the Pulley Shaft and Shell	Bearing and Locking Assembly Replacement	Shell Re-lagging	External Finishes

Pulley Lagging

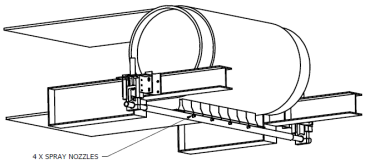
DYNA Engineering has a wide range of highly wear-resistant lagging products.

Our Range Includes

Cold and Hot Vulcanised Rubber Lagging	Rubber Backed Ceramic Lagging	Direct Bond Ceramic Lagging	Varying range of Thickness, Patterns, Profiles, Pitches and Grades

Spray Bars

DYNAFastFit® Spray Bars can be designed for a vast range of applications, flow rates and supply pressures. They can be configured to suit almost any application and are made from stainless steel for a tough, long-lasting solution. Our spray bars don't rust or corrode and are designed for non-potable water sources including high salinity water and recycled process water.



DYNAFastFit® spray bars have a unique design that employs a fully retractable spray bar, mounted in a stationary shaft to form a two-part assembly. With the stationary shaft remaining in its location, the bar can simply be removed by disconnecting from the water supply and removing two clips. The bar can then be retracted from the stationary shaft in a matter of seconds.

Tracking Rollers

DYNA-TRAC® Tracking Rollers are a relatively low-cost and low-maintenance solution to belt tracking. They are easily installed on most conveyor systems and they are self-aligning and self-adjusting.

Features			
Intuitive Steering Mechanism	Edge-Less Steering	Rubber Lagging	Enhanced Sealing

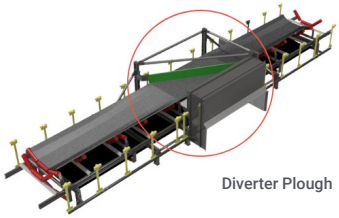
V-Plough

DYNA-TRAC® V-Ploughs are robustly constructed and incorporate a 100 x 100mm solid rubber bar as the cleaning element. This ensures long service life and simplified maintenance. V-Plough range includes VB-Plough and ME-Plough.

Engineered Solutions and Fabrication

DYNA Engineering offers mechanical design and project management capability for the design and manufacture of:

Belt Wash Stations	Conveyors and related Components	Chutes	Guarding Systems
Handrails	Platforms	Shedders	Walkways



Diverter Plough

Services

- Bespoke Engineering Solutions
- Conveyor Audits
- Conveyor Maintenance
- Pulley Refurbishments
- Fabricating and Manufacturing

Products

- Air Knives
- Belt Scrapers
- Brush Cleaners
- Chutes and Shedders
- Conveyor Belts – Chevron Rubber
- Conveyor Belts – Steel Cord
- Conveyor Belts – Textile / Rubber
- Conveyor Rollers
- Conveyor Skirting
- Diverter Ploughs
- HDPE Conveyor Guards
- Idler Sets and Rollers
- Impact Bars
- Impact Beds
- Inspection Doors
- Inverted V-Trackers
- Pulley Design & Manufacture
- Pulley Lagging
- Pulley Refurbishment
- Spray Bars
- Tracking Rollers
- V-Ploughs

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