



MANUAL TOOLS COMPANY
Manufacturer of Coke Oven Machinery



PRODUCT BROCHURE

CONVEYOR COMPONENTS

Idlers, Rollers & Pulleys – Industrial Handling Systems

600 – 1400 mm

BELT WIDTHS

EN-8

SHAFT MATERIAL

Sealed

BALL BEARINGS

CONVEYOR COMPONENTS

Components for belt conveyors in coke oven plants, coal washeries and power plants: carrying idlers, return rollers, rubber-ringed impact rollers, and head and tail pulleys in plain steel or with rubber lagging. Rollers use seamless pipe on bright steel (EN-8) shafts with sealed ball bearings to keep dust out.



600 – 1400 mm
BELT WIDTHS



Sealed
BEARINGS



Seamless Pipe
MATERIAL



Heavy Duty
APPLICATION

SPECIFICATIONS

Belt Width Compatibility	600 – 1400 mm
Shaft Material	Bright Steel Bar (EN-8)
Bearings	Ball Bearings (6204, 6205, 6305)
Roller Pipe	Heavy Gauge Seamless Steel
Pulley Lagging	Diamond Groove or Plain
Idler Frames	With Rollers or as Spares

DESIGN & DURABILITY

- Carrying idlers in 30 degree troughing sets
- Return rollers with a smooth surface to prevent belt wear
- Impact rollers with shock-absorbing rubber rings
- Head and tail pulleys with key-based locking assemblies
- Coupling pair available for the head pulley
- Bulk orders taken for plant-wide replacement

BUYING INFORMATION

Lead time: Standard sizes (e.g. 800 mm and 1000 mm rollers) are often in stock. Custom pulleys usually take 2–3 weeks.

Custom builds: Capacity, motor power and dimensions can be matched to your plant and drawings.

Brochure: Download PDF

HOW IT WORKS

01 Loading Point

Material drops onto the belt over impact rollers, whose rubber rings absorb the shock and stop falling lumps damaging the belt.

02 Carrying Run

Carrying idlers in 30 degree troughing sets shape the belt into a trough so it holds its load, running on sealed bearings that keep dust out.

03 Return Run and Drive

Return rollers support the empty underside of the belt with a smooth face, while the head pulley drives the belt and the tail pulley keeps it tensioned.

APPLICATIONS

Coke Oven Plants	Belt conveyors carrying coal to the ovens and coke away from them.
Coal Washeries	Abrasive, wet duty where sealed bearings and lagged pulleys hold up.
Power Plants	Continuous fuel handling from the yard to the bunkers.

COMMON QUESTIONS

What belt sizes do you support?

We manufacture components for all standard belt widths: 600 mm, 750 mm, 800 mm, 900 mm, 1000 mm, 1200 mm and 1400 mm.

Are the impact rollers rubberized?

Yes. Our impact rollers have robust rubber rings designed to absorb the shock of falling material at hopper loading points.

Do pulleys come with lagging?

We offer both plain steel face pulleys and rubber-lagged pulleys (diamond groove or plain) for better traction in wet conditions.

Can you supply brackets?

Yes. We can supply the idler frames (brackets) along with the rollers or separately as spares.

What is the delivery time?

Standard sizes such as 800 mm and 1000 mm rollers are often in stock. Custom pulleys typically take 2 – 3 weeks.

PRODUCT GALLERY



ALSO FROM MANUAL TOOLS COMPANY

Coal Crusher (5 No.)

Single Disc – Coal Disintegrator

Coke Cutter Machine

Double Drive, Drum Type – Industrial Series

Haulage Machine

10 HP / 10 Ton – Coke Oven Extraction Series

Vibrator Screen Machine

Multi-Deck Series – Industrial Grading & Sorting

Coal Charging Car

Top Feed – Coke Oven Machinery Series

Coal Crusher (5 No.)

Double Disc – High Capacity Disintegrator

Ring Type Coke Cutter

Double Drive – Segmented Manganese Steel Rings

Door Lifting Power Winch

Coke Oven Gate Lifting Equipment

Pusher Machine

With Roller Stamping Arrangement

REQUEST A QUOTATION

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