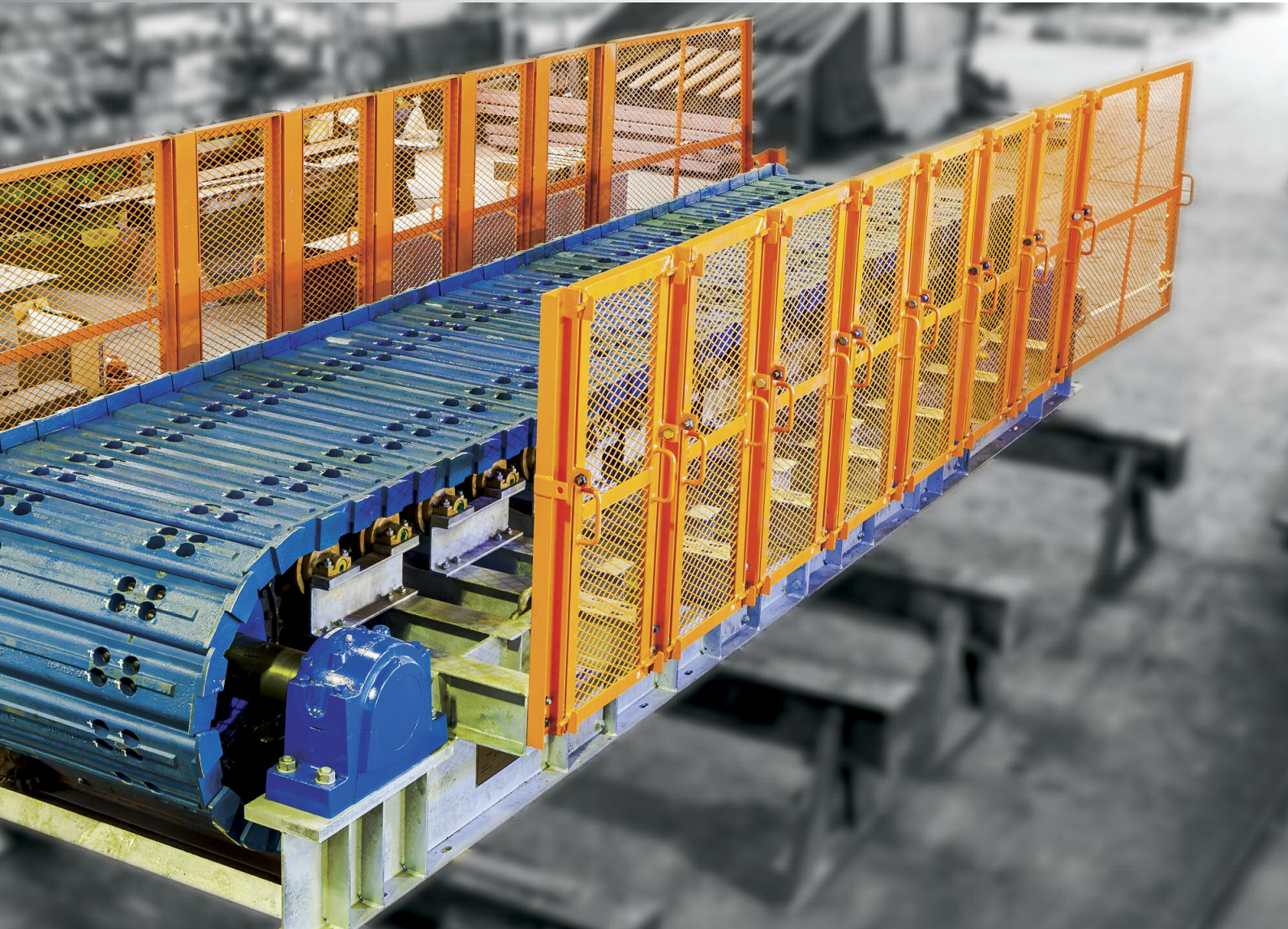




TAKRAF SOUTH AFRICA APRON FEEDERS

Optimal Solutions for Mining, Material Handling
and Processing

Innovation out of tradition – It pays to talk to a specialist!

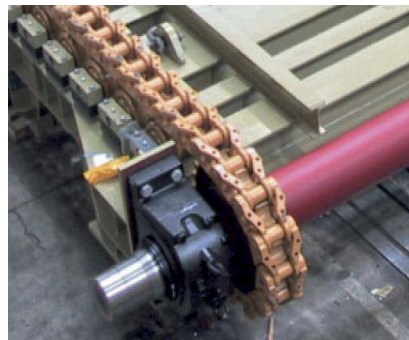
TAKRAF Group, through its established and well-known brands, TAKRAF and DELKOR, provides innovative technological solutions to the mining and associated industries. We leverage our experience, acquired over more than a century, to provide equipment, systems and services that best satisfy our clients' mining, comminution, material handling, liquid/solid separation and beneficiation requirements. Owners and operators around the world trust our engineered solutions to lower the total cost of ownership and reduce environmental impact by improving efficiency with safe and reliable equipment. For sustainable solutions backed by expert service you can rely on TAKRAF Group. Visit us at www.takraf.com.

HEAVY DUTY APRON FEEDERS FOR SPECIAL APPLICATIONS

In addition to standardized apron feeders, TAKRAF South Africa supplies heavy duty apron feeders designed to specific requirements in terms of material, capacity and geometry.

The table below shows the specifications for a range of TAKRAF South Africa apron feeders. For enquiries regarding capacities requiring chains above D11, contact your nearest TAKRAF South Africa office (contact details on back cover of brochure).

Material	ROM Phosphate		ROM Overburden (Hard Rock)		Primary Crushed Copper Ore	ROM Iron Ore
Description (Width x Centers – Chain)	PB 2600 x 10600 - D8	PB 2600 x 6600 - D8	PB 2400 x 14100 - D9	PB 3100 x 28000 - D11	PB 2600 x 10100 - D9	PB 2400 x 19600 - D10
Capacity [t/h]	1500	1500	4250	12000	7250	6850 0
Conveying speed, nominal [m/min]	6 - 24	20.8	9.4 - 23.6	15.6 – 21.3	17.9 – 21.5	11.7 – 20.7
Installed power [kW]	2 x 120	22	2 x 315	2 x 710	2 x 200	2 x 200



- Heavy Duty Apron feeders available in two designs:
 - Outboard Design where the chains are located outside the area between the skirt boards. This prevents spillage material falling onto chains and rollers. In this design, return rollers are mounted at or underneath the pans. When mounted at the pans, the rollers move along a rail.
 - Inboard Design, which offers shorter and lighter pans. In this design, return rollers are mounted underneath the pans.
- Heavy-duty, reinforced pans.
- Greased slide rails mounted along full length of the feeder, where appropriate.
- One-piece drive shafts. Heavy plummer blocks for large bearings fabricated at the TAKRAF South Africa workshop.
- Chain tension applied using:
 - Screw type tensioning; or
 - Tension frame (with idler wheels), which is hydraulically supported and mechanically secured.
- Chain force monitoring available.

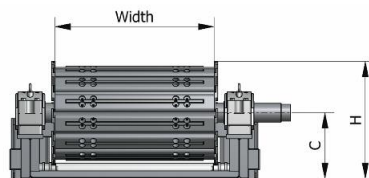
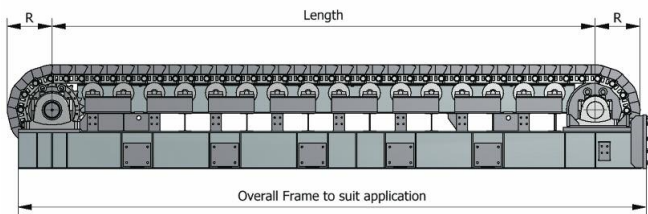
TAKRAF SOUTH AFRICA APRON FEEDERS

TAKRAF South Africa Apron Feeders are designed for demanding material handling work in mineral, ore, coal and aggregate mining, as well as processing operations, combining robust, heavy-duty frames with standard chains and rugged pans to provide extremely long service life.

APPLICATIONS

- Feed and discharge of big lump sizes, hard material, abrasive material, hot materials or a combination thereof.
- Can be installed below dump hoppers, material storage or transfer facilities from small to highest capacities.
- For hoppers and bins with closed or open fronts as well as for material discharge from stockpiles.
- Feeder slope may be inclined up to 22 degrees.
- Material discharge may be by mass flow or funnel flow on to the feeder deck.
- Functional design of the feed hopper can be provided.

STANDARD SIZES & SPECIFICATIONS



View on head shaft assembly

TABLE OF OVERALL DIMENSIONS IN MM

TYPE	WIDTH	H	C	R	LENGTH
D4	*	1130	638	492	To suit
D6	*	1345	773	572	application
D7	*	1520	900	620	
D9	*	1786	1010	776	

* STANDARD WIDTHS (mm):
1000 / 1250 / 1530 / 1830 / 2100 / 2400

FEATURES

- Robust construction using high strength materials.
- Standard bearings and plummer blocks on head and tail shafts.
- Standard crawler under-carriage parts.
- Lifetime lubrication on rollers.
- Range of standard widths available in any length required.
- Short pitch chain.
- Flight overlap minimises spillage.
- Sprocket sections interchangeable and easily replaceable.
- Easy chain tensioning at tail shaft.
- Compact hydraulic or electromechanical drives.
- Drives can be fixed or variable speed; single or twin.
- Heavy duty ribbed pans are standard.

BENEFITS

- Can be transported and installed as fully assembled and tested unit.
- Moving parts available worldwide, off the shelf.
- Variable speed drives and short chain pitch provide accurate and infinitely variable feed rates.
- High impact carrying capability due to closely spaced rollers and impact rail.
- Manual or electronic control – locally or remote – ensuring flexibility.
- Height saving benefits due to feeder incline.
- Minimal scheduled maintenance requirements.
- Discharge of 'sticky' materials through application of bulk solids flow design.
- Long service life.

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