

Sugar Mill Industry Chain

Harvest the benefits

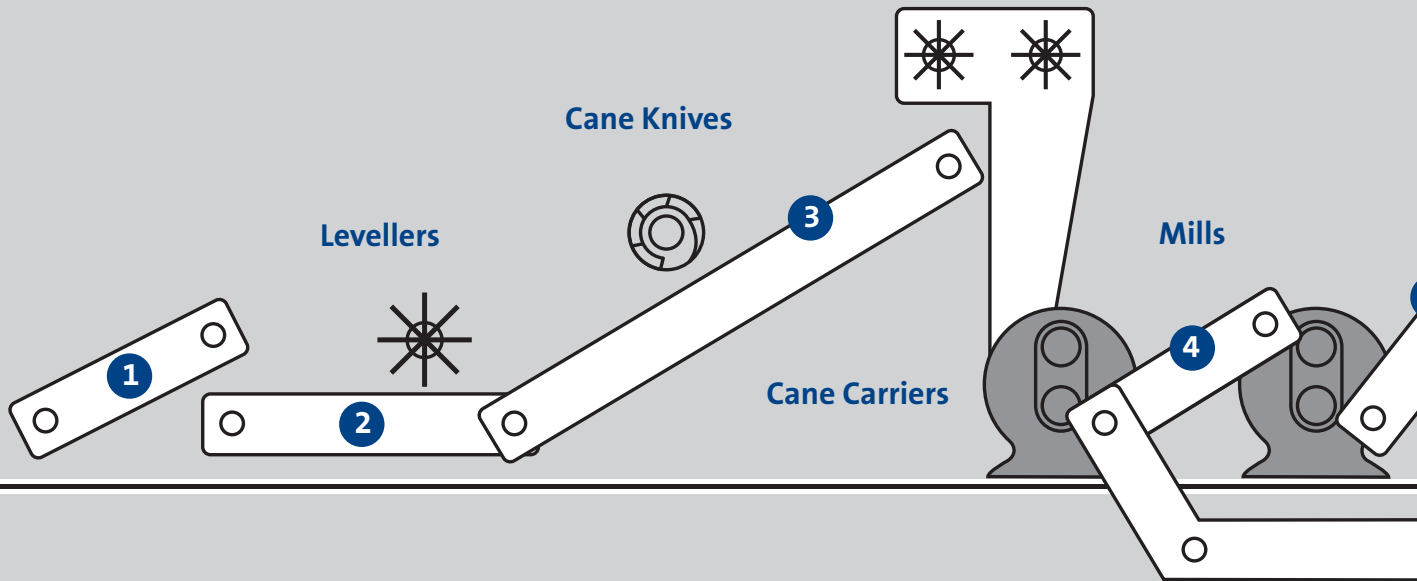


RENOLD

Superior Chain Technology

Sugar Cane industry

Chain for every stage of the process



1. Feed Tables

Whether wet, dry or chopped Renold know the chains you need. Select Forged (458, X678, 698), Welded (W78, W82, W124, W132) or Combination (C102BM, C111M, C132) chains from Renold.



2. Cane Carriers

Renold cane carrier chain breaking loads range from 272kN to 620kN.

Renold's experience, as the originators of the bush roller chain, and being the first company to incorporate these features for cane carrier applications, makes Renold placed to offer the finest products for carrying cane from the yard to the first mill. Materials, heat treatment and design have been developed to ensure optimum chain life and maximum value for modest cost. Grease gun lubrication through the chain pin is available on request and heat treated stainless steel pins, bushes and rollers can be supplied.



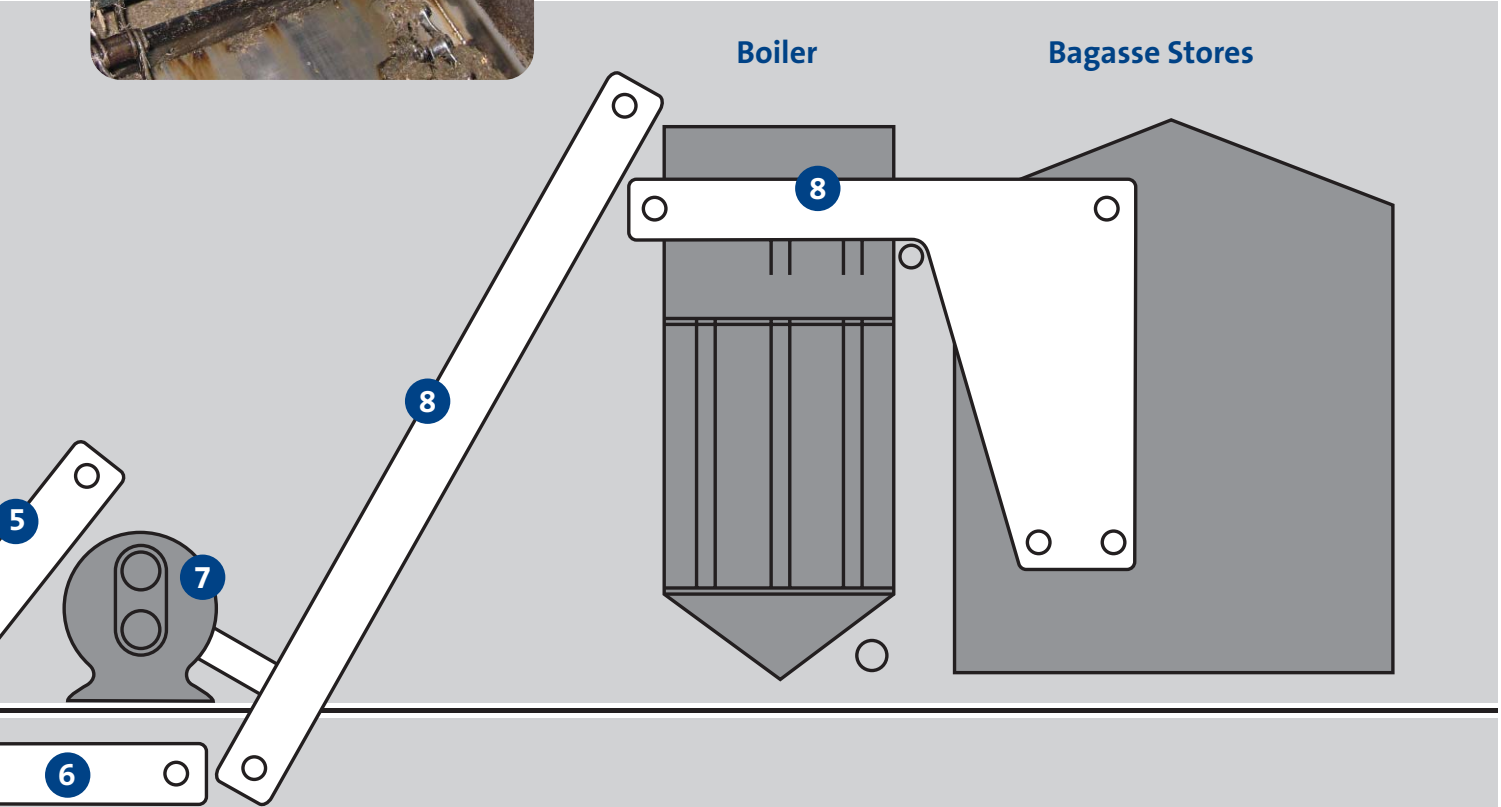
3. Shredded Cane Elevators/Carriers

Can be either slat type with K2 type chain or scraper type, like Donnelly Chute Carriers. Chains will suffer dirt, corrosion and run at higher speeds than the cane carrier, causing greater wear.

4. Slat Inter Carriers

Stainless steel or standard iron 907 chains for bed type carriers are still widely used.





5. Donnelly Chute Carriers

When speeds are higher and inclines greater, forged or steel chains as shown below provide the best value for money, especially with stainless pins and bushes when corrosion is severe.



6. Juice/Trash Handling

Either stainless steel or standard iron, cast 4103 proves very simple and reliable to use.



7. Drive Chains

For mill roller drives we manufacture all BS and ANSI standard chains in multi-strand form up to 4.0" pitch.

Alternatively we make the cranked link design up to 6.0" pitch or can design specials to suit your needs. Standard conveyor drives use BS or ANSI standards range.



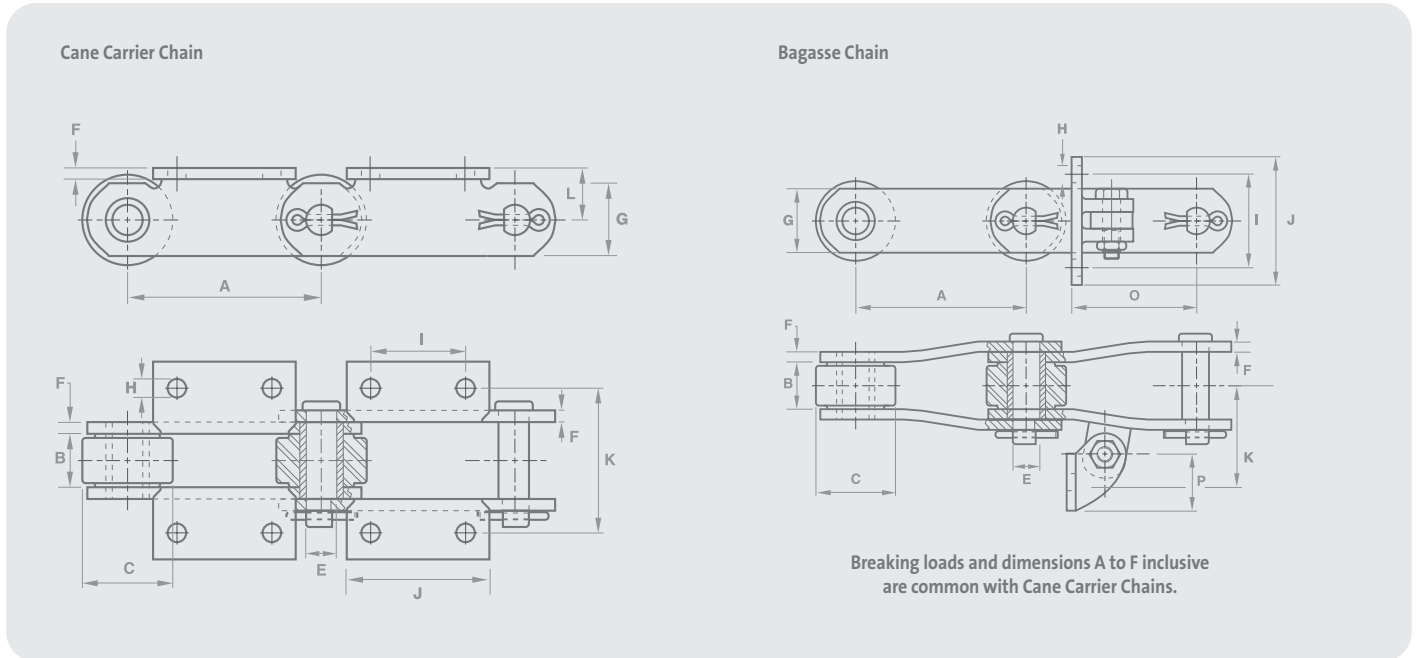
8. Bagasse Chains

These are the lightest duty and usually the longest and fastest conveyors in the factory. Chain weight is often the largest loading on the conveyor. Large rollers ensure fewer revolutions and provide longer life. Typical chain is the 2184.



Sugar Cane industry

Technical data



Chain Ref	Technical Details (mm)												
Chain Ref	Pitch	Inside Width	Roller Diam	Pin Diam	Plate Thick	Plate Height	Attachment Hole Diam	Attachment Hole Centres	Attachment Length	Platform Height	Transverse Pitch	Breaking Load (kN)	Weight Kg/m

Cane Carrier Chain

	A	B	C	E	F	G	H	I	J	L	K		
RJ09060	152.40	36.50	69.85	19.05	9.52	50.80	12.70	76.20	114.30	41.30	111.20	272	24.70
RJ09061	152.40	36.50	69.85	19.05	9.52	57.15	12.70	76.20	114.30	41.30	111.20	386	25.30
RJ09063	152.40	36.50	76.20	23.80	10.30	61.90	12.70	76.20	114.30	44.45	111.20	620	27.50
RJ1796	152.40	36.50	69.85	22.23	9.52	57.15	12.70	76.20	114.30	41.30	111.20	445	26.20

Chain Ref	Technical Details (mm)													
Chain Ref	Pitch	Inside Width	Roller Diam	Pin Diam	Plate Thick	Plate Height	Attachment Hole Diam	Attachment Hole Centres	Attachment Length	Attachment Width	Attachment Face	Transverse Pitch	Breaking Load (kN)	Weight* Kg/m

Bagasse Chain

	A	B	C	E	F	G	H	I	J	P	O	K		
RJ09060	152.40	36.50	69.85	19.05	9.52	50.80	12.70	82.50	114.30	50.80	115.80	88.90	272	18.50
RJ09061	152.40	36.50	69.85	19.05	9.52	57.15	12.70	82.50	114.30	50.80	115.80	88.90	386	20.30
RJ09063	152.40	36.50	76.20	23.80	10.30	61.90	14.30	88.90	127.10	50.80	142.90	100.00	620	25.10
RJ1796	152.40	36.50	69.85	22.23	9.52	57.15	12.70	82.50	114.30	50.80	115.80	88.90	445	22.90
RJ2184	152.40	34.93	76.20	22.23	9.52	50.80	14.30	88.90	127.10	50.80	142.90	90.40	356	21.00

* Flight wing at 4-pitch spacing

Sugar Cane industry

Gears, clutches and couplings



PM series

This series of gear units is available as a:

- single worm unit - type PW
- helical/worm unit - type PH
- helical/bevel/helical unit - type PB

The range offers the ultimate in versatility and durability with a modern compact design which allows direct mounting of standard IEC and NEMA motors.

Available in 6 sizes with power capacities up to 84kW and gear ratios from 5:1 to 333:1.

- Motorised and speed reducer types available
- Case design allows variable mounting options - foot, flange and shaft mounting available
- Long life synthetic lubricated



HC series

State of the art heavy duty bevel/helical units using case hardened and ground gears throughout, 16 sizes available with power capacities up to 2300kW.

- Motorised and speed reducer types for all applications
- Versatility within range allows for underdriven and vertical mounting from the same unit
- Foot, shaft and flange mounted types available
- Custom made units, designed specifically for customer's applications, are available
- Available as double, triple and quadruple reduction with ratios up to 400/1



TW series

Worm gear unit for arduous applications with 10" to 28" centre distances. Power capacities up to 1361KW.

- Available as single and double reduction units
- Variety of unit types enables flexibility with mounting positions - underdriven, overdriven, vertical, shaft mounted and agitator types available
- Unique Holroyd tooth form provides high efficiency and long product life
- Interchangeable external dimensions with many other deleted makes
- Enhanced sealing options available on all sizes for hostile environments
- Heavy duty design suitable for high torque applications



Pinflex

A robust general purpose pin/buffer coupling providing reliable, fail-safe transmission of torque and misalignment capability.

- Steel half bodies, strong yet compact
- Polyurethane buffers, reliable/flexible and temperature resistant
- Torsionally flexible and shock absorbing, extending machine life



Sprag Clutches

- Enhanced performance from optimised sprag design
- No backlash giving positive action
- Compact designs enabling high torque
- Backstop, over running and indexing designs available
- Long life resulting in low maintenance costs

Hydrastart

Fluid soft start couplings available in many sizes and types up to 700kW (950HP) capacity.

- Flexible couplings and vee pulley designs as standard for design flexibility
- Soft start allowing the motor to accelerate unloaded
- Reduces motor size and drive package cost
- Delay fill version – extending acceleration time and further reducing start-up torque

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