

TC SERIES Chain conveyors



METALMONT

HANDLING INNOVATION

TC SERIES

CHAIN CONVEYORS

Reliable performance, construction quality,
easy assembly: the perfect solution

Ideal for handling cereals, oilseeds and legumes through horizontal or slightly tilted paths, the Metalmont TC series chain conveyors are designed to ensure the best performance even in the most difficult working conditions and to minimise maintenance and total operating costs.

RANGE from 40 to 400 t/h - different flow rates available on request

AVAILABLE VERSIONS

- normal
- for pit with side product inlet
- double case
- reversible
- single inclination / double inclination
- telescopic





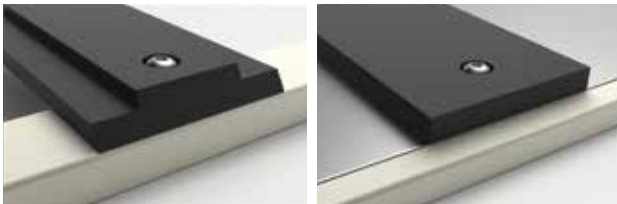
1 HEAD

- Helical bevel gearmotor with protective cover
- Anti-clogging sensor
- Inspection porthole



2 SCRAPER CHAIN

- Special steel DIN8165 folded links scraping chain complete with hardened steel bushings and pins
- UHMW polyethylene scraping blades properly spaced to ensure complete emptying of the conveyor
- Recovery buckets (optional)



3 INTERMEDIATE ELEMENTS

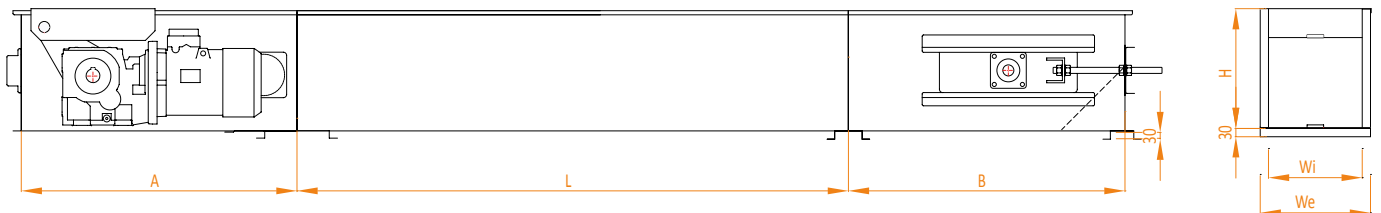
- Case formed by bolted elements, carefully designed for quick and easy assembly
- Galvanised steel chain intermediate support
- UHMW polyethylene chain sliding plate (lower and upper)



4 IDLER ELEMENT

- Smooth idler wheel
- High resistance steel idler shaft
- Double screw chain tensioner
- Tensioning slide
- Supports with self-aligning ball bearings shielded and lubricated with high-performing grease
- Polyethylene UHMW chain sliding plate
- Speed control sensor with protective cover

MODEL	U.M.	TC-040	TC-060	TC-120	TC-150	TC-200	TC-250	TC-300	TC-400
Flow rate*	t/h	40	60	120	150	200	250	300	400
Chain speed	m/s	0,55	0,60	0,60	0,60	0,60	0,60	0,60	0,60
Chain pitch	mm	100	125	125	125	150	150	150	150
A - Driving element length (head)	mm	1.000	1.000	1.000 / 1.500	1.000 / 1.500	1.500	1.500	1.500	1.500 / 2.000
B - Idler element length (tail end)	mm	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
H - Case height	mm	365	435	435	435	556	636	636	660
We - Case external width	mm	230	300	400	500	500	500	560	660
Wi - Case internal width	mm	170	240	340	430	430	430	500	600
Side thickness	mm	3	3	3	3	3	4	4	5
Bottom thickness	mm	3	3	3	4	4	4	4	6
Chain sliding plate thickness	mm	10	10	10	10	10	10	10	10
Cover thickness	mm	1,5	1,5	1,5	2,0	2,0	2,0	2,0	3,0
L - Intermediate element length	mm	500 / 1.000 / 2.000 / 3.000							
Chain sliding plate material		polyethylene UHMW							



*Flow rate referred to s.w. wheat 0.78 t/m³; RH 15%; impurities: 2%. Horizontal machine.

DRIVING ELEMENT

- Toothed driving wheel
- High resistance steel driving shaft
- Supports with self-aligning ball bearings shielded and lubricated with high-performing grease
- UHMW polyethylene chain sliding plate (lower and upper)



ACCESSORIES AND DEVICES

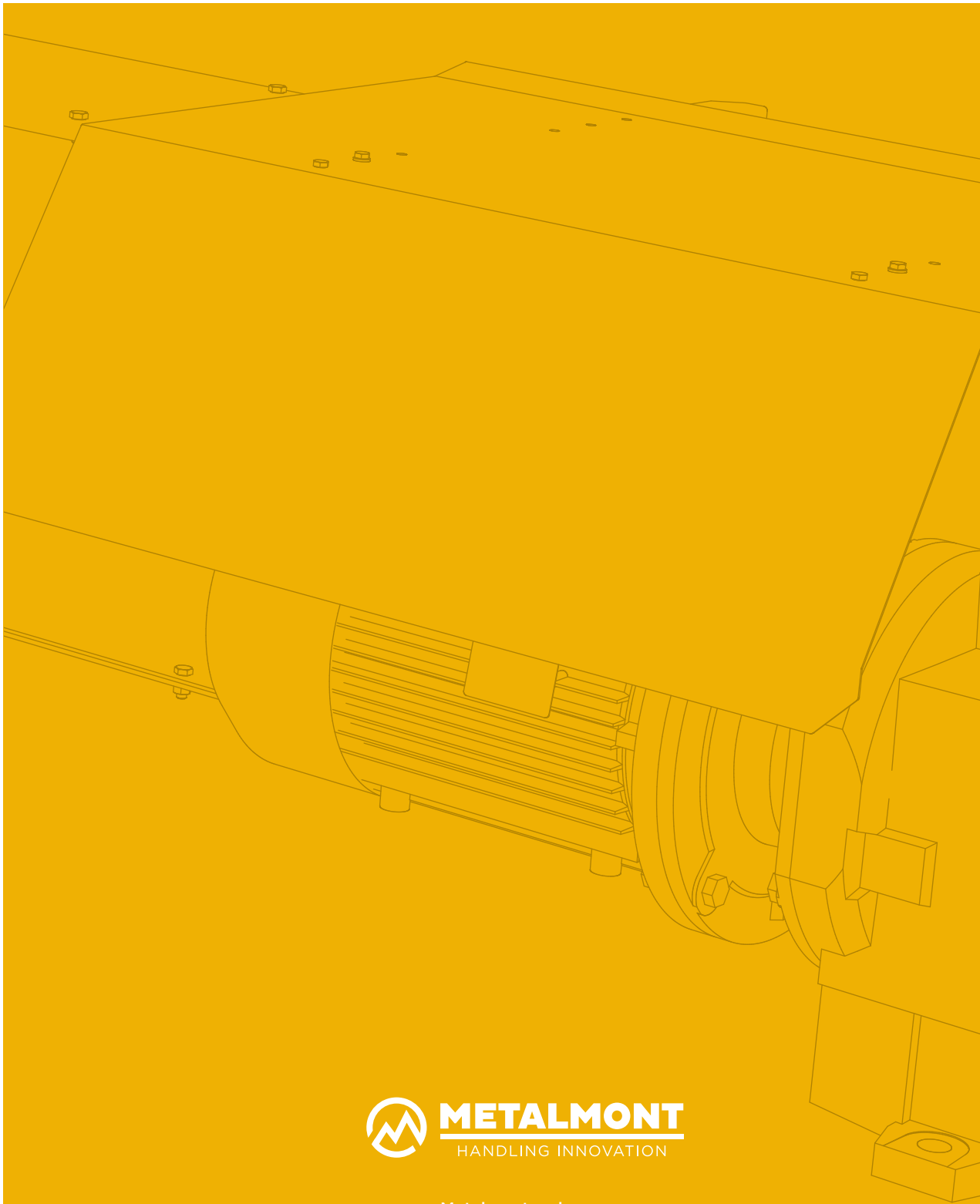
MODEL	TC-040	TC-060	TC-120	TC-150	TC-200	TC-250	TC-300	TC-400
Temperature bearings sensor on head and tail end	o	o	o	o	o	o	o	o
Anti-clogging sensor on the head	●	●	●	●	●	●	●	●
Hot-dip galvanising of the intermediate elements	o ¹	o ¹	o ¹	o ¹	o ¹	o ¹	o ¹	o ¹
Hot-dip galvanising of head and tail end	o ²	o ²	o ²	o ²	o ²	o ²	o ²	o ²
Painted or stainless steel construction	o	o	o	o	o	o	o	o
UHMW polyethylene or HARDOX bottom coating	o	o	o	o	o	o	o	o
Speed control sensor on tail end	●	●	●	●	●	●	●	●
Porthole for visual inspection on the head	●	●	●	●	●	●	●	●
Recovery buckets	o	o	o	o	o	o	o	o
Chain cleaning brushes	o	o	o	o	o	o	o	o
Servo-ventilated motor when running on frequency inverter	o	o	o	o	o	o	o	o
Reversible tail-end	o	o	o	o	o	o	o	o
Double case	o	o	o	o	o	o	o	o
Suitable for use in ATEX 22, according to the customer classification	o	o	o	o	o	o	o	o
Extensions and supports of several sizes	o	o	o	o	o	o	o	o
Shutters for product discharge. Manual, motorised or pneumatic drive	o	o	o	o	o	o	o	o
Forged chain	o	o	o	o	o	o	o	o
Hardox sliding blocks	o	o	o	o	o	o	o	o

● - *Standard*

o - *Optional*

o¹ - Standard surface finish: pre-galvanised sheet steel Z275.

o² - Standard surface finish of head and tail end: hot-dip galvanised tensioning block and sides. Bottom and cover in pre-galvanised sheet steel Z275.



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