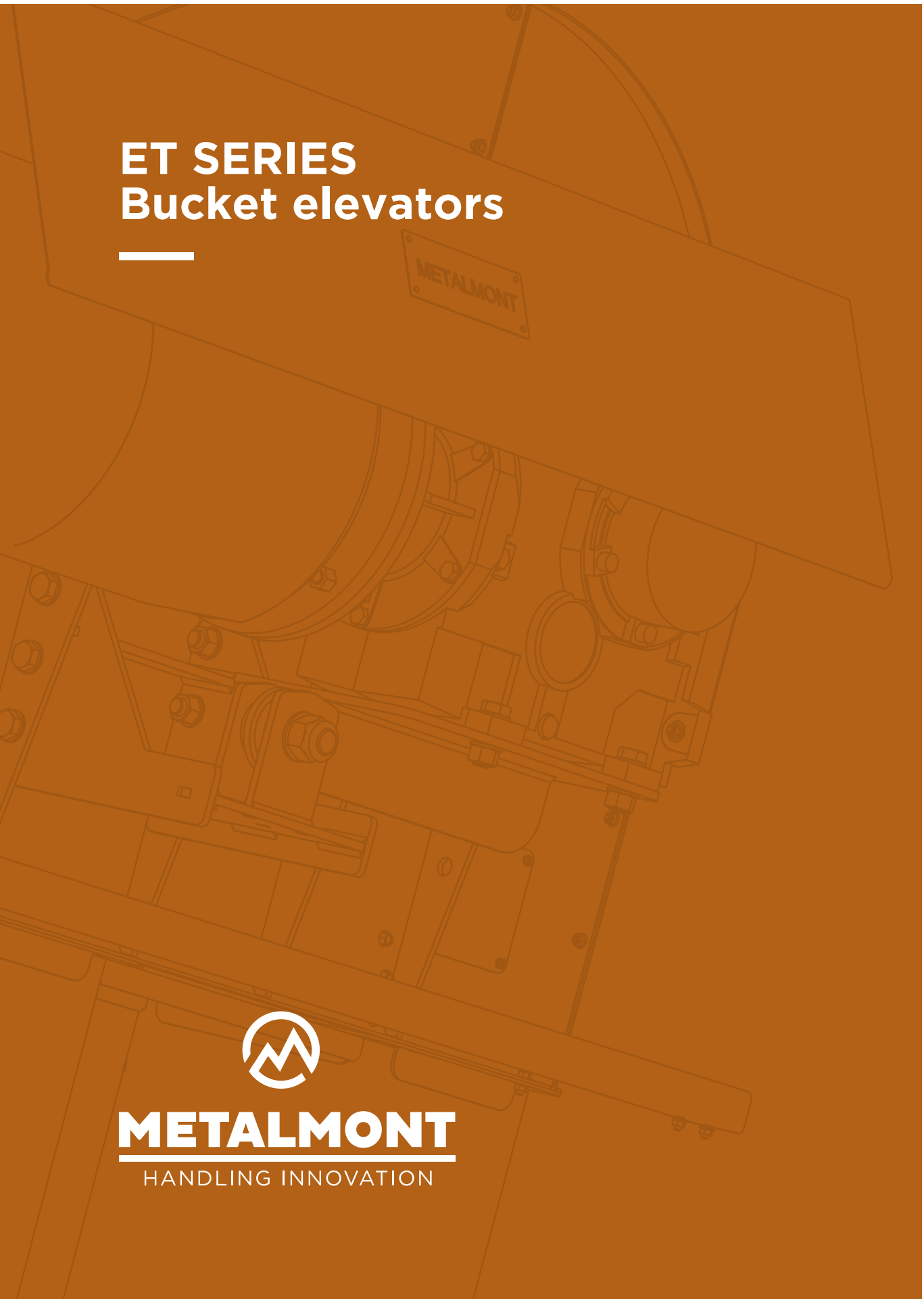
ET SERIES
Bucket elevators



METALMONT

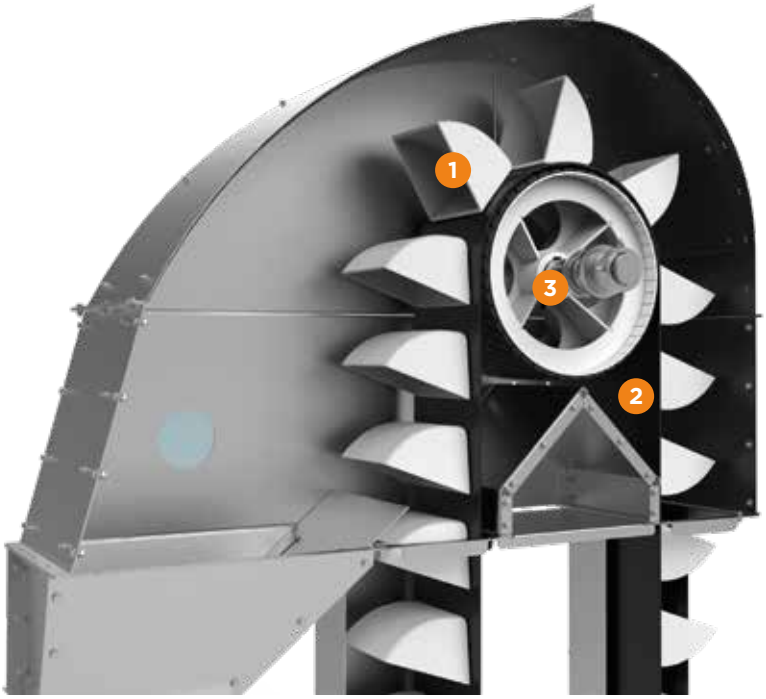
HANDLING INNOVATION

ET SERIES
BUCKET ELEVATORS

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

Ideal for vertical handling of cereals, oilseeds and legumes, the Metalmont ET series bucket elevators stand out for their highly reliable operation and performance.
Designed and built to ensure the best performance even in the most difficult working conditions and to minimise maintenance and total operating costs.

RANGE from 20 to 400 t/h - different flow rates available on request



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1 BUCKETS

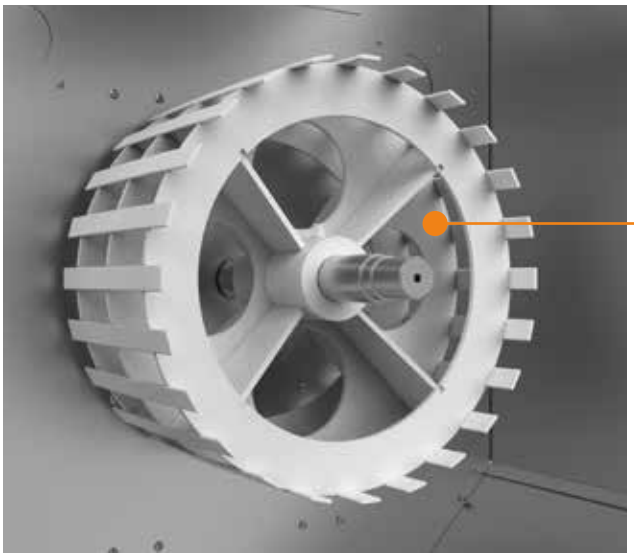
- High-density polyethylene (HDPE)
- High resistance to abrasion
- Excellent resistance to impacts

2 BELT

- Multilayer with rubber cover and reinforcement plies
- Anti-oil and anti-grease according to international standards
- Antistatic according to international standards
- Flame retardant, according to international standards

3 HEAD (DRIVING WHEEL)

- Helical bevel gearmotor: hollow shaft with direct coupling to the driving shaft; back stop device; protective cover
- High resistance steel driving shaft
- Rubber-coated pulley and rounded for belt centring
- Supports with self-aligning ball bearings shielded and lubricated with high-performing grease
- Upper cover openable for inspection and maintenance
- UHMW polyethylene coating of the material discharge area
- Discharge hopper with square outlet
- Inspection porthole
- Belt misalignment sensor



TAIL END (IDLER WHEEL)

- High resistance steel shaft
- Supports with self-aligning ball bearings shielded and lubricated with high-performing grease
- Rounded squirrel-cage pulley for belt centring
- Double screw belt tensioning slide
- Speed control sensor with protective cover
- Belt misalignment sensor
- Square loading inlet

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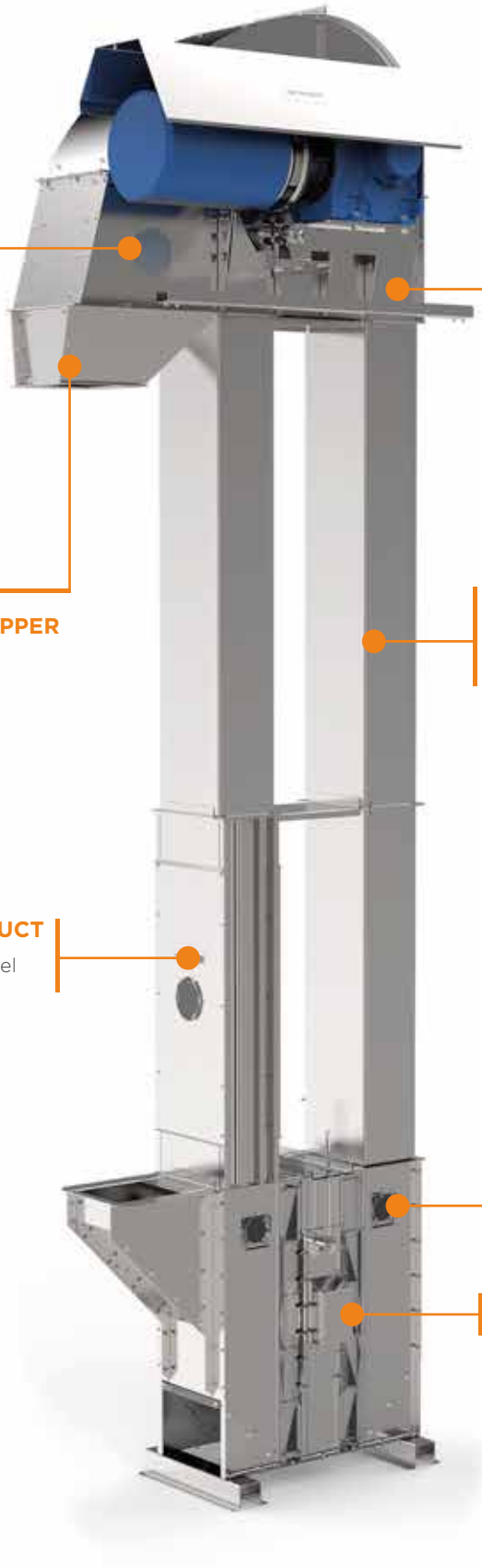

INSPECTION PORTHOLE

HEAD MISALIGNMENT SENSOR

DISCHARGE HOPPER

- Square outlet

DUCTS

- Press-folded welded and hot-dip galvanised
- ET-020 / ET-300 / ET-400 press-folded and bolted

INSPECTION DUCT

- Removable panel
- Porthole

BELT MISALIGNMENT SENSOR

SPEED CONTROL SENSOR

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TECHNICAL DATA SHEET

MODEL	U.M.	ET-020	ET-040	ET-060	ET-120	ET-150	ET-200	ET-300	ET-400
Flow rate*	t/h	20	40	60	120	150	200	300	400
Speed	m/s	2,5	2,9	2,9	2,9	2,9	2,9	3,0	3,0
Bucket width / Belt width	mm	100 / 120	140 / 160	180 / 220	240 / 270	280 / 310	300 / 330	390 / 420	515 / 580
Type of belt		Anti-oil, antistatic and flame retardant							
Buckets / m	no.	12	9,0	6,0	6,5	6,0	5,5	5,5	5,5
Bucket material		High-density polyethylene (HDPE)							
Casing thickness	mm	1,5	2,0	2,0	2,0	2,5	2,5	2,5	3,0
Head wear-resistant element (UHMW PE) *Polyurethane	mm	8	8	8	8	8	8	8	6*

MODEL	U.M.	ET-020	ET-040	ET-060	ET-120	ET-150	ET-200	ET-300	ET-400
Head height	mm	700	940	1204	1240	1240	1511	1700	2050
Tail end height	mm	670	911	1031	1281	1281	1524	1700	2020
Casing front width	mm	150	190	268	336	400	445	550	690
Casing side width	mm	150	180	228	278	278	345	345	370
Standard casing height	mm	500 / 1.000 / 1.500 / 2.000							
Inlet/outlet size	mm	150	210	210	300	300	350	350	500

*Flow rate referred to s.w. wheat 0.78 t/m^3; RH 15%; impurities: 2%

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ACCESSORIES AND DEVICES

MODEL	ET-020	ET-040	ET-060	ET-120	ET-150	ET-200	ET-300	ET-400
Temperature bearings sensor	○	○	○	○	○	○	○	○
Anti-clogging sensor on the head	○	○	○	○	○	○	○	○
Hot-dip galvanising of the casings according to UNI EN ISO 1461	○[1]	●	●	●	●	●	●	●
Hot-dip galvanising of head and tail end according to UNI EN ISO 1461	○[1]	○[1]	○[1]	○[2]	●	●	●	●
Painted or stainless steel execution	○	○	○	○	○	○	○	○
Speed control sensor	●	●	●	●	●	●	●	●
Back stop device	●	●	●	●	●	●	●	●
Belt misalignment sensor on tail	●	●	●	●	●	●	●	●
Belt misalignment sensor on head	●	●	●	●	●	●	●	●
Dust suction connection between the casings	○	○	○	○	○	○	○	○
Servo-ventilated motor when running on frequency inverter	○	○	○	○	○	○	○	○
Porthole for visual inspection on inspection casing	●	●	●	●	●	●	●	●
Stainless steel or iron buckets	○	○	○	○	○	○	○	○
Food grade belt	○	○	○	○	○	○	○	○
Driving drum rubber coating	●	●	●	●	●	●	●	●
Additional inlet	○	○	○	○	○	○	○	○
Two or three entry inlet	○	○	○	○	○	○	○	○
Service platform, rest platform, ladders	○	○	○	○	○	○	○	○
Suitable for use in ATEX 22, according to the customer classification	○	○	○	○	○	○	○	○

● - *Standard*
○ - *Optional*

○[1] - Standard surface finish: pre-galvanised sheet steel Z275
○[2] - Head and tail end standard surface finish: hot-dip galvanised head according to UNI EN ISO 1461.
Tail end in pre-galvanised sheet steel Z275

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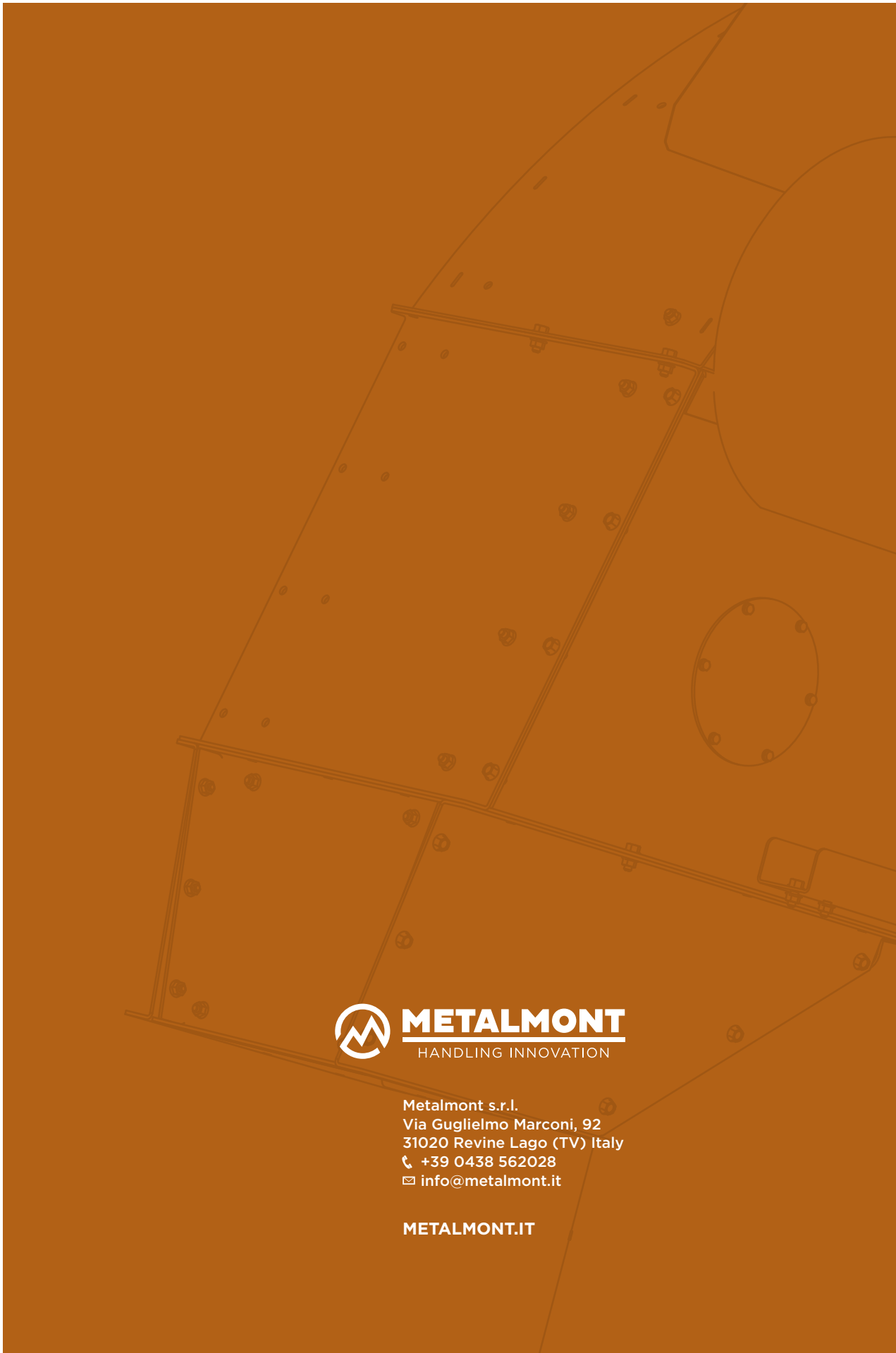

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