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General Description

By their design and construction **ODENIS Belt and Bucket Elevators** provide the following advantages:

Robust and practical: strong rigid construction, self-supporting structure, easy to build, compact, easy to maintain

Functional and reliable: flexible specification, speed to suit products, choice of specifications for belt and buckets, access and clean out slides, removable access panel in trunking

Performance with economy: consistent throughputs up to 400 m³/hour, low power requirement, low maintenance

Well designed quality machines: the 180°C oven baked paint finish is applied after a degreasing treatment followed by a phospate primer for every component

Optional: white food quality paint, hot dipped galvanised, stainless steel...

Safety: this equipment conforms with the European Standards for safety and strength and with **ATEX**, the European Explosion prevention requirements



Performance						
ТҮРЕ	10 N	14 N	20 N	24 N	30 N	37 N
Maximum t/h Throughput.m ³ /h	20 30 26 40	30 50 40 66	50 100 66 133	100 150 133 200	150 200 200 266	300 400
Buckets nº/m	8 12,5	8 11	69	79	3.75 4.75	5.55
Belt speed m/s	2.80	2.80	2.80	2.80	2.80	3.0
Drum dia mm	300	400	500	600	630	800
Belt breaking strain N/mm	250	315 to 400	315 315 to 630 to 800		400 to 800	400 to 800
Power kW	1.1 to 4	1.5 to 9	3 to 18.5	5.5 to 30	11 to 45	18.5 to 55

Based on product density of 750g/m3

Standard dimensions (mm)

	ТҮРЕ	10 N	14 N		20 N		24 N		30 N	37 N
	А	850	1115		1420		1640		1835	1966
	В	690	910		1170		1290		1500	1750
	С	270	425		525		655		740	700
	D	155	206		276		325		450	608
	E	110	185		235		280		350	232
	F						730		800	615
ĺ	G	240x150	315x200		400>	(270	500x318		500x440	500x540
ĺ		160	160	200	200	250	250	350	350	400
	Н	610	788		99	94	1128		1266	1454
ĺ	I	212	266		33	32	386		540	640
ĺ	Ν	As required (multiples of 250 n								
ĺ	0	255	300		348		432		492	542
	Р	□ 160	□ 200		□ 250		□ 324		□ 356	□ 400
ĺ	Q	270	320		485		565		760	924
	R	555	730		938		1072		1220	1370
	Т	740	840		1110		1250		1300	1400
	U	740	840		1110		1250		1500	1750
	٧	740	40		1110		1250		1500	1750

A wide range of equipment, standard or specially tailored for the most efficient handling of all kinds of bulk products with very diff erent densities and particle size: cereals, seeds, flours, granules, fertilizer, minerals, wood shavings, wood chips, and therefore suitable for all your installations.

Characteristics

Head Drive with removable top section and replaceable By shaft mounted gearbox from motor through pullies and VEE-belts wear plates - Caged drums for self-cleaning or rubber-clad drums - Anti run-back stop as **Options** standard - Adjustment to centre the belt -Speed to suit product Pillow block bearings (type 10N flanged Motor power balanced to requirements Shaft mounted gearbox drive (also available geared motor drive in line or right angles) bearinas) **Options:** Explosion panels In line drive from geared motor through flexible coupling Sealed head shaft Alternative drives available Belt Flame resistant (ISO 340) anti-static (ISO 284) and Inspection port oil resistant in standard elevators. Belt speeds between 1.6 and 3.0 m/second Outlet cone depending upon products - (there are special with aspiration point (standard on types 20N elevators for belt speeds between 0.8 and 1.2 to 37N, optional on types 10N and 14N m/second **Option** Throat plate Food quality FDA belt - High temperature belt (180°C) also belts abrasive resistant, proof Finish against Oven baked paint finish Trhigkingconsealed jointler **Options:** (optional on Type 10N) Galvanised **Options** White food quality paint Stainless steel 304L, 316L Belt alignment monitors (2 on head, 2 on boot) Explosion relief panels Nuts and bolts Supplementary windows Aspiration points • Monoleg trunking Zinc finish or Dacromet Trunking joining plates **Buckets** Pressed steel Access trunking Profile and thickness to suit product with detachable sections to allow access for **Options** joining and tensioning the belt Special buckets: (reinforced edge, PEHD, stainless steel) **Boot** inlet Spacer washers can be fitted on up-leg Trunking cleaner Belt tensioning Boot **Option:** Pneumatic belt tensioner (for one or two inlet feed hoppers can be fitted very tall or large capacity elevators) with replaceable anti-wear plates. The belt tensioning plates slide on PEHD 1000 **Boot** inlet wear pads - sealed bearings normal position on down leg **Boot** drum **Options:** Underspeed sensor caged pulley for self residue Special inlet feed hopper for fragile products **Boot clean out slides** Pedestal legs to lift boot Removable bottom in stainless steel **Option:** boot profile inserts to eliminate Profiled boot for minimum residue residue Sealed boot shafts Refilling boot slide, etc

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 ${\sf C}{\sf E}$ This equipment meets with the standards for safety and strenght.

This equipment conforms to the ATEX requirements.

Accessories

- Connectionss, Pipework, Mobility
- Head access platform
- Ladders with hoops
- Rest platforms
- Safety: speed sensor, belt alignement monitor, temperature sensors

Applications

There are different specifications suited to all types of activity
Agro-cereal sector
Industrial sector

Agriculture

- Commercial grain
- Milling
- Animal feeds

- Minerals
- Wood, etc