

# Belt-and-Bucket Elevator

MGEL



# Belt-and-Bucket Elevator MGEL

## Application

- For vertical conveying of dry, floury and mealy, fine- and coarse-grained materials
- Material temperatures up to 70°C

## Design

- Straightforward design
- Dust-tight housing – high degree of sanitation
- Easy maintenance
- Low operating energy consumption
- All elements of food-grade materials or with special coating (FDA-approved)

### Optional:

- Stainless steel version

## Safe operation and explosion control

- Off-track and zero-speed detectors
- Backstop
- Personal safety according to EU, UL and CSA safety standards

### Optional:

- Antistatic, non-combustible plastic buckets
- Pressure relief
- Round, shock-pressure-resistant casings

## Additional elements

- Belt installation device
- Inlet and outlet ports with dead box for reducing wear
- Aspiration connection

## Surface finish Standard:

- Food-grade coat of paint, white NCS 1000
- Multi-layer anti-corrosion coat of paint for outdoor applications

### Optional:

- Customized coat of paint

**Easy installation and maintenance!**

**High conveying capacity with low power requirement!**

**Safe operation!**



## Elevator head

- Material deflection plate of wear-resistant steel
- Deflection tongues of abrasion-resistant rubber
- Split hood for easier installation and maintenance
- Backstop

## Off-track detector

- Detection of operating trouble
- Monitoring to ensure safe operation and explosion control
- Prevention of damage to machine components

## Elevator boot

- Material inlet of wear-resistant steel
- Easy, accurate belt tensioning by screw take-up
- Generously sized cleanout opening for high sanitation

# The right design for maximum throughput



## Drive

- Direct-coupled gearmotor
- Can be attached on both sides
- Easy installation and maintenance
- Drives of 22 kW and higher are provided with electronic soft start device

## Optional:

- Drive with frequency converter for maintenance



## Tensioning section

- Can be opened on both sides
- Easy installation of belt and buckets
- Inspection window for monitoring operation
- Clean, safe, reliable design



## Belts and buckets

- Suitable belting and correct number of buckets for any material and throughput
- Standard steel buckets for a wide variety of materials and easy spare parts management
- Belting of food-grade, antistatic, non-combustible rubber

## Optional

- Buckets of antistatic, non-combustible plastic



## Speed monitor

- Detection of operating trouble
- Monitoring to ensure safe operation and explosion control

**Wide variety of applications!**

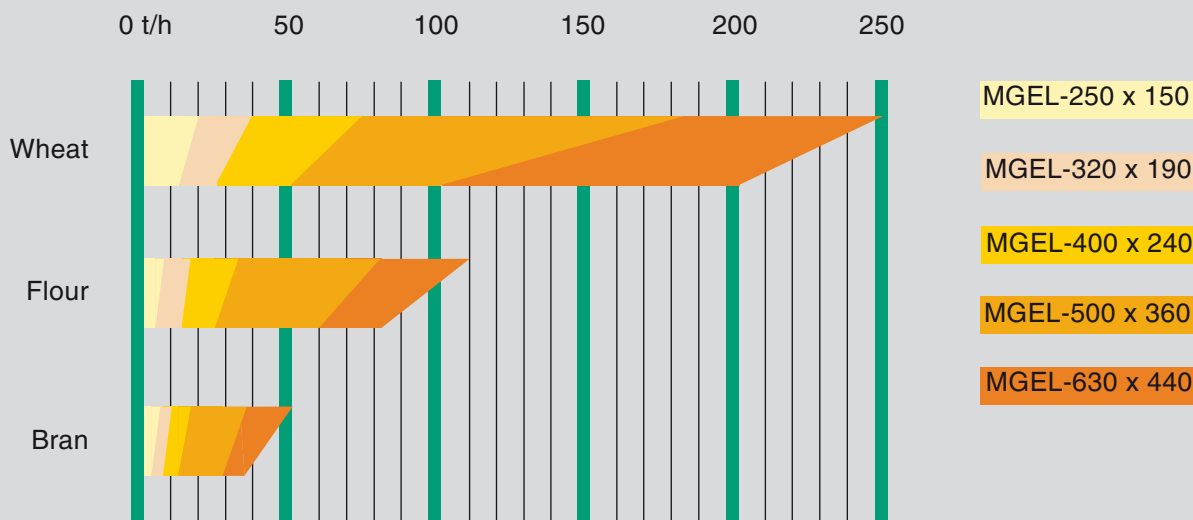


## Selection of elevator type

The correct selection and sizing of an elevator requires precise knowledge of the material conveyed and of its behavior during conveying. In addition, the required conveying distance must be considered for specifying the elevator. The maximum conveying capacity depends on the conveying elevation and the material characteristics.

**For the specific selection and determination of all relevant values, please contact our sales and engineering department.**

The following chart shows approximate throughput ranges for materials with different conveying characteristics.



## Dimensions (mm)

Model	A	B	C	D	E	F	H max (m)	Aspiration (m <sup>2</sup> /min)
MGEL-250 x 150	881	638	553	183	753	267	37	-10
MGEL-320 x 190	1057	779	663	223	813	312	37	5-15
MGEL-400 x 240	1276	968	803	283	1003	381	44	10-20
MGEL-500 x 360	1692	1344	1053	423	1234	462	41	15-30
MGEL-630 x 440	1987	1519	1253	493	1606	760	62	20-40

