



E-DBK-100 HEAVY DUTY BELT WEIGH FEEDERS



■ DEFINITION

E-DBK-100 Series Heavy Duty Belt Weigh Feeders (weight controlled belt feeders) are designed to operate in tough industrial environments with high accuracy.

It provides high accuracy and reliability with its mechanical and electrical structure. They are driven with AC motor and they have standard RS485 modbus communication. Optional Profibus or Profinet or Ethernet communication.

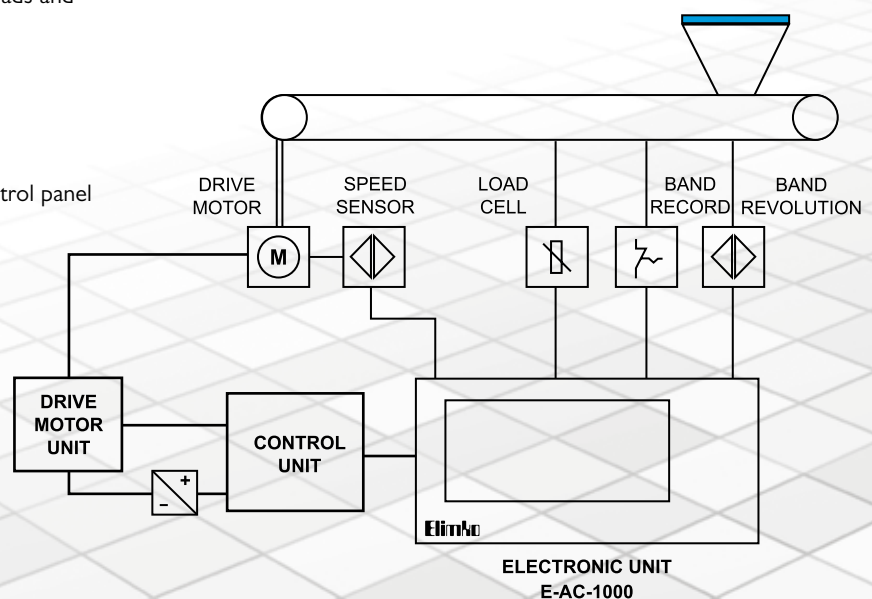
■ GENERAL PROPERTIES

- They have special weight measuring system with standard load cells.
- Weighing system is not effected from side loads and vibration.
- AC Motor usage.
- High accuracy speed measurement system (16 bit resolution)
- Plug and operate feature
- Compact design that does not require a control panel
- Connection with 2 cables only (Power + Communication)
- Easy and automatic calibration
- Automatic belt monitoring feature
- Automatic belt correction feature
- Double side belt cleaning system
- Delivery with inlet and discharging Chutes.
- Special inlet chute design
- Flow rate or amount control feature

■ APPLICATIONS

Elimko Heavy Duty Belt Weigh Feeders are designed to provide high accuracy and reliability in the following areas of industry;

- Cement, Iron & Steel, Mining and Chemical industries
- Raw material feeding (large size) (Clinker, Clay, Limestone, Coal, Mine etc.)
- Powder raw material feeding (Ashes, filter dust, coal, chemical powders etc.)
- Mill feeding
- Furnace feeding
- Mixing & Blending (Detergent, cement etc.)



■ TECHNICAL PROPERTIES

Accuracy	% 0.5
Flow Rate Set Range	% 100 - %10
Band Width	650, 800, 1000, 1200, 1400 mm
Length (L)	2000 mm - 12000 mm
Electronic Control Unit	E-AC-10-BKB E-AC-1000
Weight Signal Resolution	16 bit
Speed Signal Accuracy	16 bit
Communications	RS485 Modbus RTU
Digital Inputs	Start/Stop, Control Signals
Digital Outputs	"Running", "Ready", "Fault & Alarm"
Analog Inputs	Set point
Analog Outputs	Control output, Flow rate, Pre-Feeder Control output.

■ OPTIONS

Filling Chute Lining

- Hardox 400
- Non-adhesive material (Wefapress)

Discharge Chute Lining

- Hardox 400
- Non-adhesive material (Wefapress)

High Temperature Belt

- Temperature up to 180 °C

Pre-feeder

- Vibro feeder
- Steel feeder
- Dossier valve
- Screw feeder
- Cells wheel

Communication

- Profibus
- Profinet
- Ethernet

■ STANDARD TYPES AND DIMENSIONS

TYPE	E-DBK-100-XXXX-YYYY-2222-WWW-VVV-UUU	
XXXX	Belt width	800, 1000, 1200, 1400 mm
YYYY	Feeder length	2000, 2500, 3000, 4000, 5000 10000 mm
ZZZZ	Capacity	1-1000 t/hr
WWW	Belt type	NOR Normal temperature, YUK High temperature
VVV	Inlet Chute Lining	... No lining, HDX Hardox, WFP Wefapress
UUU	Discharge Chute Lining	... No lining, HDX Hardox, WFP Wefapress

SAMPLE:

E-DBK-100-800-2500-2-NOR

Capacity: 2 t/hr, Belt Width: 800 mm, Feeder Length: 2500 mm, Belt Type: Normal temperature belt.
Inlet Chute Lining: Without lining. Discharge Chute: Without lining

E-DBK-100-1200-3500-200-YUK-HDX

Capacity: 2 t/hr, Belt Width: 1200 mm, Feeder Length: 3500 mm, Belt Type: High temperature belt.
Inlet Chute Lining: Hardox . Discharge Chute: Hardox

The company's policy is one of continuous product improvement and the right is reserved to modify the information contained here in without notice.

*** Please contact with Elimko for your special applications.**



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