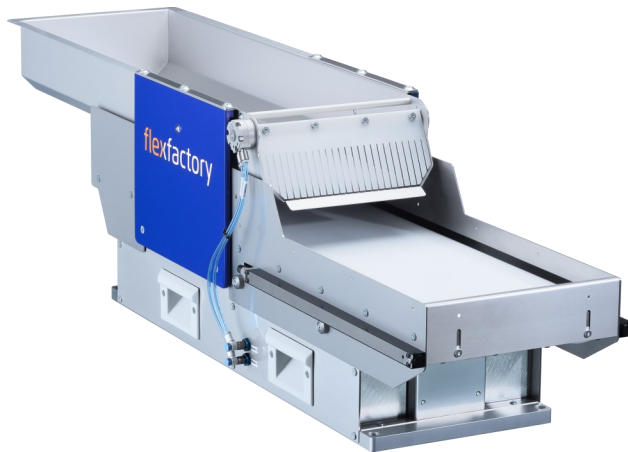# anyfeed™ SXM200

Universal, programmable parts supply systems

Innovative, highly flexible feeder technology for all robots

〉 Maximum availability thanks to automatic error correction

〉 Minimal changeover times when changing pruducts

〉 Automatic parts emptying at the touch of a button

〉 Minimal footprint– anyfeed replaces several conventional feeders

〉 Exeptionally gentle parts handling

〉 Standardized communication with all models

〉 Simple serving thanks to the use of identical servo-electric dirves in all models

Application area

Assembly, Inspection technology, Packing/Counting, Maschine loading

System requirements: In addition to the selected anyfeed model, the following components are required for a flexible feeding solution: robots with grippers, vision system (we recommend feedWare CX / Cognex In-Sight from flexfactory), lighting, base plate for the construction of all components, robot application for the movement sequence and the data exchange. Robot vision feeder.

Ideal for parts:

| ≤ 45 mm | ≤ 0.15 mm | ≤ 25 g | 5-45 °C | Dry |

anyfeed™ feeder systems for robots

anyfeed flexible bulk parts feeders singulate and deliver bulk parts into the pick up zone of an industrial robot. Part flow and reorientation of parts in the feeder is controlled by feedWare CX - a Cognex In-Sight-based vision solution specifically developed and optimized by flexfactory for flexible part feeding applications. The universal bulk parts feeding solution is in operation with over 18 commercially available robot brands.

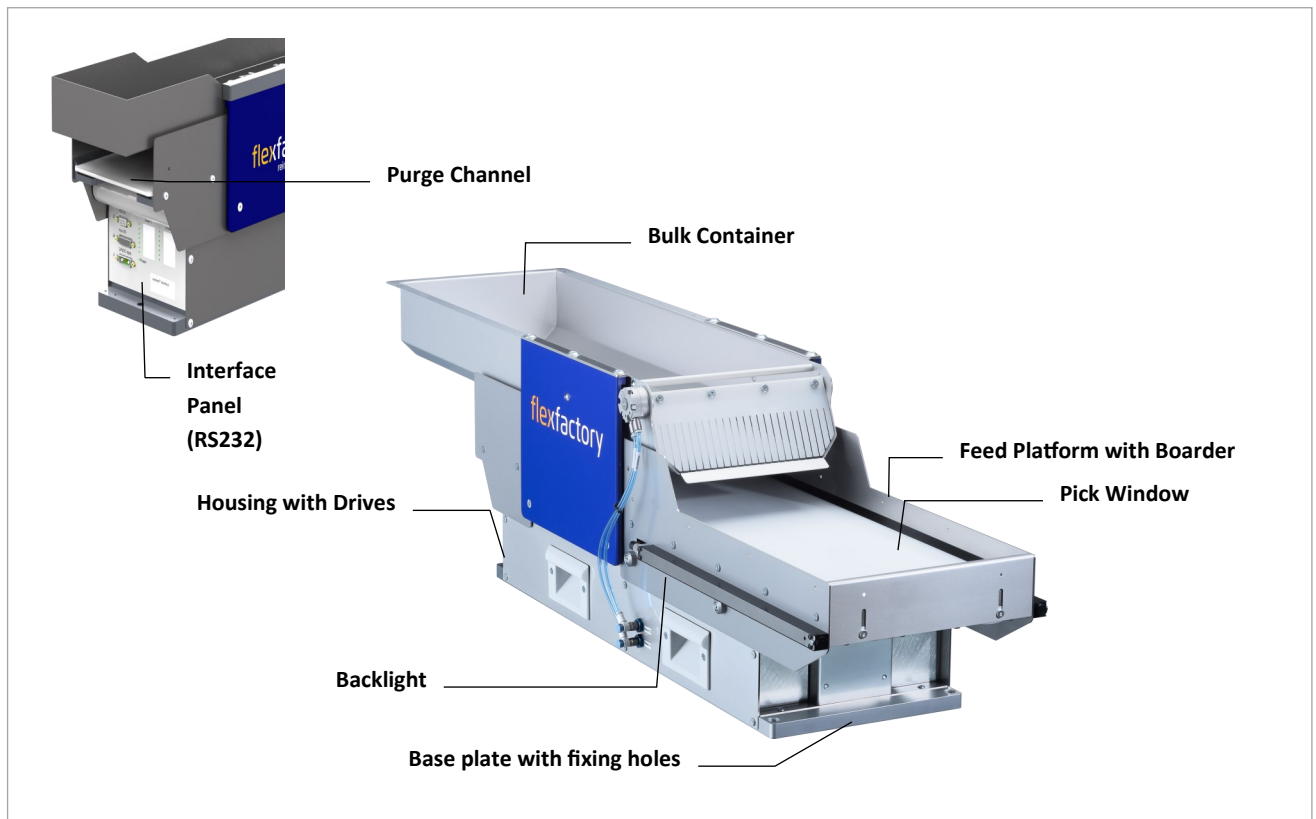### feedware™ CX-Software solution

It is the ideal and proven solution for turning any anyfeed model and any robot into a complete parts supply system – in next to no time and with the greatest of ease. The Cognex In-Sight camera installed above the window identifies correctly oriented parts and transfers the picking coordinates to the robot's control system.

feedware CX continuously monitors the parts in the pick window and sends action commands to the anyfeed telling it to make more parts available for the robot. feedware CX is also responsible for teaching the system to handle new parts, parameterizing feed characteristics, calibrating robot-to-vision coordinates, and defining pick-points and clear-grip zones.

flexfactory supplies the full package, including a Cognex In-Sight camera with feedware CX preloaded. The company also provides the appropriate lighting and optics and helps customers get the entire solution up and running

Part description

- Purge Channel
- Interface Panel (RS232)
- Bulk Container
- Housing with Drives
- Feed Platform with Boarder
- Pick Window
- Backlight
- Base plate with fixing holes

Electrical Connections - anyfeed SXM 200 (IF2011)

Label	Function	Connec-tingtyp	Pin	Allocation	Cabel
J1	Motor Power	D-Sub-M 2+5,	A1	24VDC in	Nr.1 (red)
		Male	A2	GND	Nr.2 (blue) Shield
J2	RS232	D-Sub 9, Female	2	Tx	D-Sub 9, Male - Female
			3	Rx	
			5	GND	
J4	Aux I/O	D-Sub 15, Female	1	Trigger out	
			4	GND	
			5	GND	
			6	24VDC out	
			7	24VDC out	
			8	Pick in	
			9	Flash in	
			14	Error Drive 1	
			15	Error Drive 2	

RS232 — J2
Aux I/O — J4
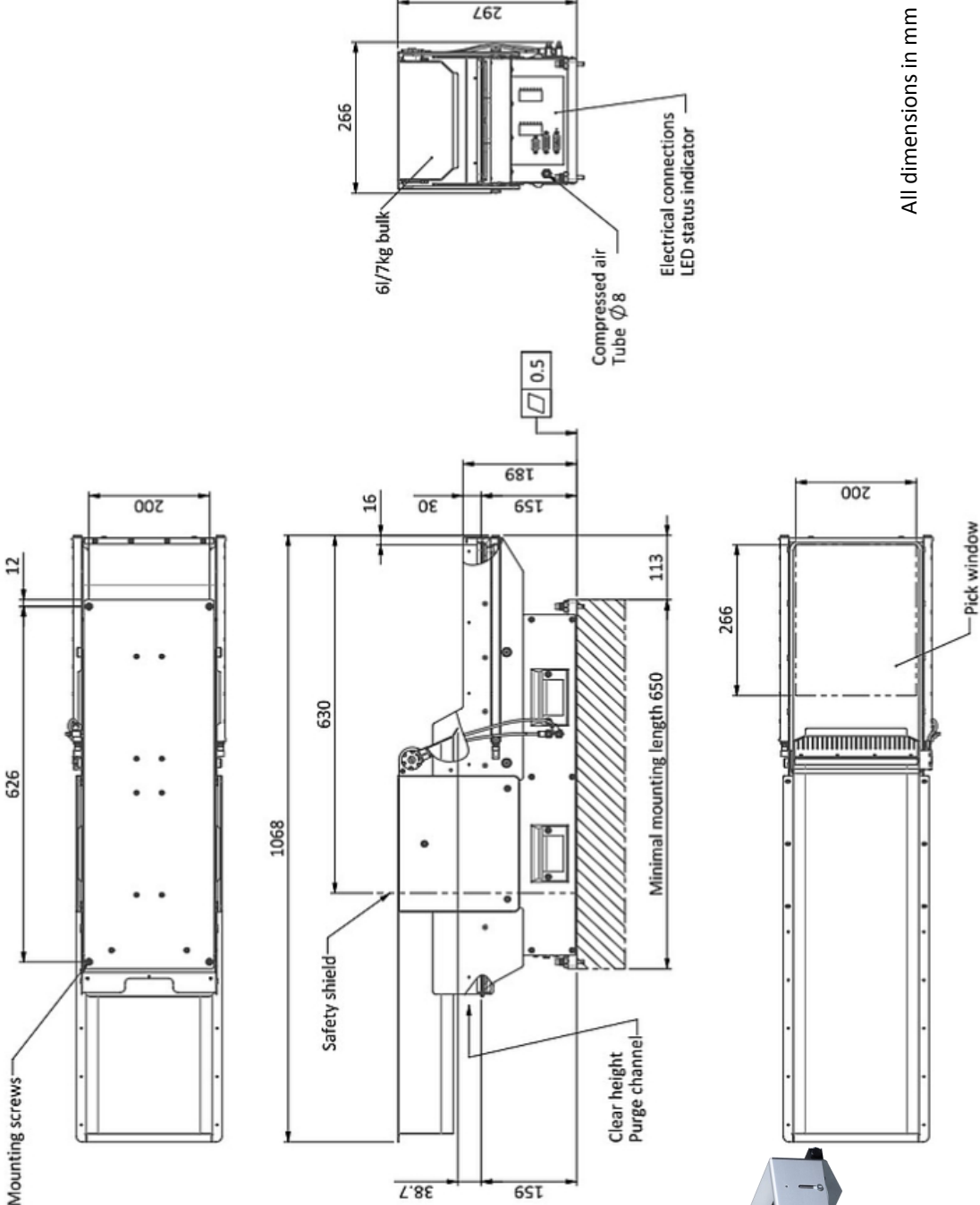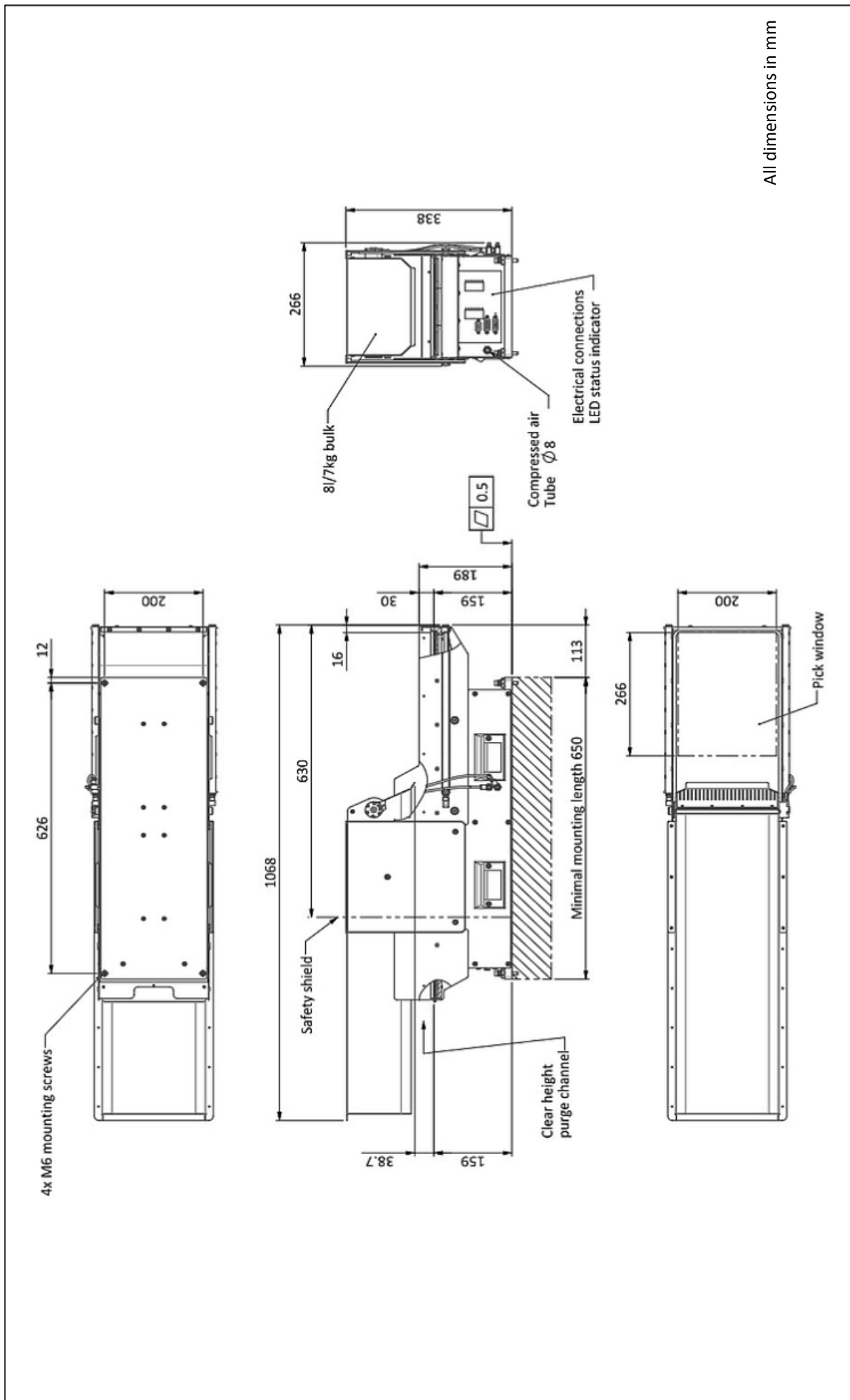24VDC Input — J1

Technical Specifications

Capacity Bulk Container	6l/7kg - 8l/7kg
Field of Vision (FOV)	200x266 mm
Pick-Up Area	532 cm² (20x26.6 cm)
Unevenness Pick-Up Area	0.5 mm
Repeat-precision Feederplatform in z	± 0.05 mm
Max. weight on surface (FOV)	500 g
Plate level (parts)	160 mm
Border height	28 mm
Light height of Purge Channel	42 mm
Power Requirements	24 V/ 10 A
Typical consumption	100 W (depeding on operating mode)
Compressed Air	-
Eccentricity Feed Surface	± 3.5 mm Maximum stop from initial position)
Eccentricity Bulk Container	± 2 mm
Interface	RS232 (DSUB9 Female)
Drive	2 brushless servo dirves 130W
Temperature	5-45 °C
Humidity	95 % non- condensing
Weight	26kg - 27kg

Standard Materials

Housing with Drives	WN 1.4301
Feeder Platform	WN 1.4301
Border Feeder Platform	WN 1.4301
Bulk Container	WN 1.4301
Feed Surface	POM-C Natur

All dimensions in mm

297

266

6l/7kg bulk

Compressed air
Tube Ø 8

Electrical connections
LED status indicator

0.5

189

16

159

30

113

630

266

Pick window

1068

200

200

12

626

Minimal mounting length 650

Safety shield

4x M6 Mounting screws

38.7

159

Clear height
Purge channel

flexfactory®
reinvent feeding

Bezeichnung

anyfeed™SXM200 6l

§

Artikel Nr.

900-001-163

flexfactory®
reinvent feeding

All dimensions in mm

338
266
8l/7kg bulk

0.5

Compressed air
Tube ⌀ 8

Electrical connections
LED status indicator

200
12
626
16
30
189
159
113
630
266
1068
Minimal mounting length 650
Pick window
200

Safety shield

4x M6 mounting screws

Clear height
purge channel

38.7
159

Artikel Nr.

900-001-174

§

Bezeichnung

anyfeed™SXM200 8l

flexfactory®
reinvent feeding