

Guardian®

Batch Blender



Guardian® Modell WXA250

The Guardian® gravimetric Batch Blender was developed for processors who want the simplicity of operation and low cost of gravimetric batch blending, as well as superior blend homogeneity. For these customers, PROCESS CONTROL offers the Guardian® blender, backed by PROCESS CONTROL's more than 30 years of experience and design expertise.

The simple user interface works by asking the operator to enter the required information on a 6" touch panel. For example, when the RECIPE key is pressed, the blender asks for the weight percentage of each ingredient. The operator then presses RUN and the blender does the rest. The operator station can store at least 100 recipes for easy recall. Detailed information are available quickly and easily.

The Guardian® blender has a segmented material hopper that holds from two to four ingredients. Each ingredient is mounted above a fast acting V-gate valve. Materials are dispensed sequentially into a

common weighing hopper in the desired proportions, blended in a separate homogenizing mixer, and then passed on to the processing machine.

PROCESS CONTROL's engineers have produced a metering and weighing system that controls every ingredient, in every batch, with a precision of 0,05%. This is a more precise measure than reporting accuracy by averaging over several batches as in common in the industry. Typical single-screw extruders cannot provide enough mixing to compensate for blend variations between batches.

In addition to precise batch-to-batch metering, the performance of the mixer is critical to your end product. The mixer design determines how homogeneous, or uniform, the blend is. Since typical extruders mix over no more than 10-20 screw flights, the blender must provide thorough mixing before the extruder. Mixers that do little more than slowly stir the material and those that have significant "death zones" that never get agitated should be avoided. Inadequate mixing can lead to inconsistent product characteristics such as colour streaks. PROCESS CONTROL's Guardian® blender has a carefully engineered mixer that thoroughly homogenizes the material for the most consistent finished product.

The Guardian® blender is the perfect combination of precise metering and thorough blend homogenisation in an economical, easy-to-operate package.

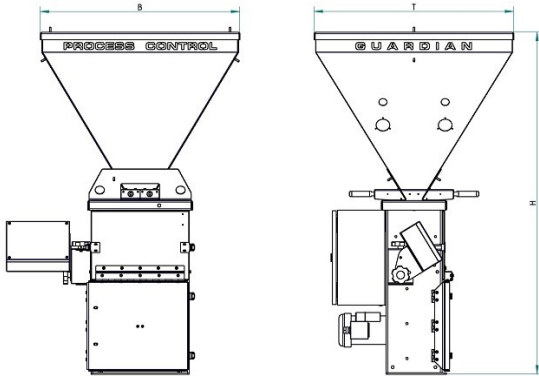
Standard features:

- Handling via B&R Mini-Op Touchscreen
- Integral loading platform for mounting vacuum receivers
- Easy material hopper clean out via purge-ports
- Sight glass in each material hopper
- All product contacting parts made of stainless steel
- Access protection with shut down function by open device via safety switch
- Special designed 3D agitator for highest homogeneity (removable without tools)
- Low level sensor in mixing chamber with automatic self-cleaning
- Multi language display
- Various sizes and hoppers

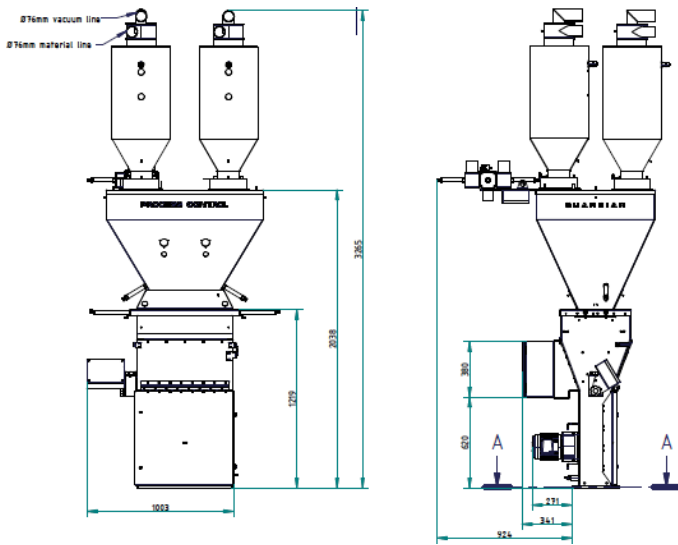


Guardian® Modell WXA025 with 4 RX- Receiver and pickup box

Guardian[®] Batch Blender



Layout: WXA025 (2,5 kg/batch)



Layout: WXA120 (12 kg/batch)

Modell WXA...	Number Comp.	H in mm	W in mm	D in mm	Weigh* ca. in kg
013	4	901	449	449	80
025	4	1.206	526	526	160
050	4	1.673	1.075	734	250
050	6	1.746	1.166	1.024	270
120	4	2.039	1.090	825	295
120	6	2.089	1.167	1.024	320
120	8	2.018	1.339	1.136	340
120	12	2.018	2.039	1.146	350

*: Transport weight without conveying system and material



Control panel Mini-Op B&R Touchscreen

SPECIFICATIONS

Accuracy:	0,05% per Component and batch.
Throughput:	Please ask PROCESS CONTROL
Air consumption:	less than 150 dm ³ /h (6 mm water gauge).
Power supply:	230V/1Ph/50/60Hz (up to modell WXA050) 400V/3Ph/50/60Hz (up to modell WXA250)

OPTIONS

- Gravimetric Extrusion Control Gravitrol[®]
- Extruder hopper with drain and slide gate
- Sight glass in extruder hopper
- Self-cleaning system
- Inert gas covering
- Stand with integrated pickup box
- Stand for container
- Material handling available



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