

GRAVIMETRIC DOSING MEASUREMENT AND CONTROL SYSTEM

GDC 3X00

FOR MONO- AND COEXTRUSION LINES



QUALITY ASSURANCE WITH PLAST-CONTROL AUTOMATIC EXTRUSION CONTROL

The GDC system from PLAST-CONTROL is designed and built to be a modular system, combining Gravimetric Dosing (blending) of primary and additive materials with measurement and control of the average product thickness.

GDC systems are easy to operate and simple to maintain. The operator interface consists of a back lit LCD display for viewing production and on-line status data and a membrane touch pad for product data entry and function selection.

With the GDC systems it is possible to control a mono extrusion line with one main material and up to six dosing components or a coextrusion line with up

to five extruders and a combined maximum of nine weighing/dosing positions (main hoppers and dosing units).

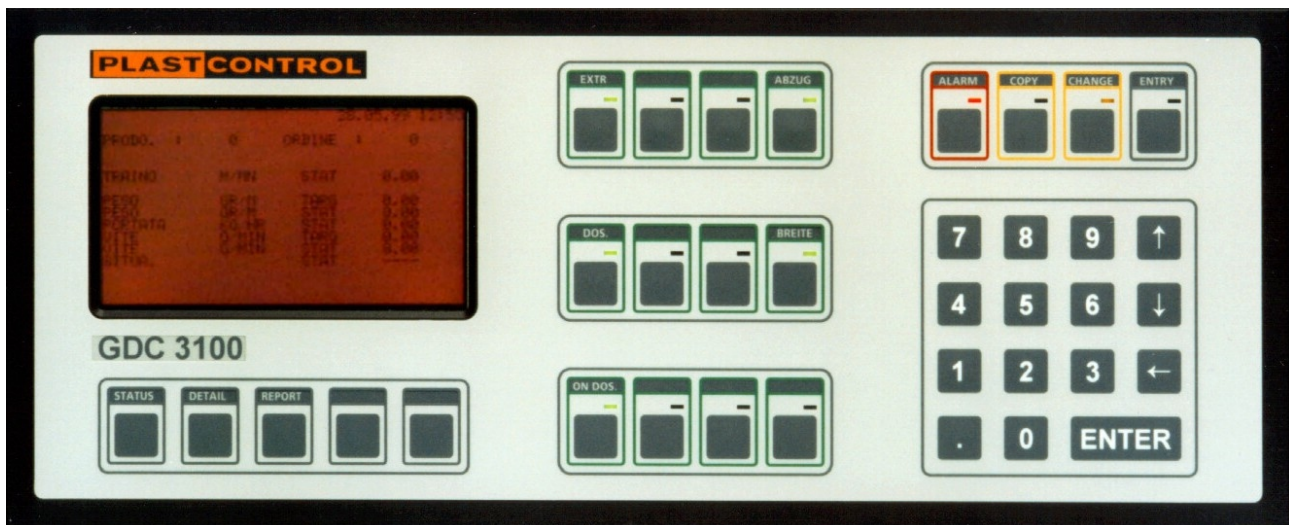
The GDC system may be optionally equipped at purchase or as a field upgrade to measure and/or control blown film layflat, print out production and material consumption data reports, interface with central systems by Ethernet TCP/IP, store up to 250 product formulations in memory and add additional dosing positions.

The GDC System is designed for use on all continuous extrusion processes such as cast, sheet, blown, pipe, profile, coating & lamination.

- Independent from the bulk density of the material
- Shorter start-up and quicker material changes
- Simple operation
- Retrofit of existing extrusion lines
- Fast return on investment
- Production is stable
- Homogenous mixing of additives and master batches (by gravimetric dosing)

OPTIONS

- Gravimetric Dosing of additives and master batches
- Width measuring and control
- Printer package
- Product-/shift-/reel-report
- Product memory
- Interface to central systems

**RANGE OF APPLICATION**

- Blown film extrusion
- Cast film extrusion
- Sheet extrusion
- Pipe & Tubing extrusion
- Profile extrusion
- Wire and cable extrusion

Target values may be entered into the system by the operator in several target modes (specified at the time of system order) i.e. g/m, lb/hr, lbs/ft, thickness/density/width. These values are compared against process data. The processor calculates the necessary settings and controls the line speed and/or the screw speed(s) accordingly. Field proven experience has shown GDC systems to operate with an accuracy of +/- 0.5% or better.