



## DIVIDERS/CONVERGERS

LM slat diverters and combiners are special handling systems used in packaging and process lines for high speed product sortation or combining.



### **Dividers/convergers can be used in many different applications, for example:**

- product sortation following signals from check-weigher, metal detectors, bar code readers, cameras
- balancing product count on downstream machines
- connecting packaging or process machines with different production capacities
- freezer or oven conveyors population
- layer preparation for palletizers or secondary packaging machines

## DIVIDERS MODEL *D12/16*

This is the model most used by far in many industries due to its high capacity both in terms of linear speed and number of switches per minute and great flexibility of configurations for inlet and outlet lanes.

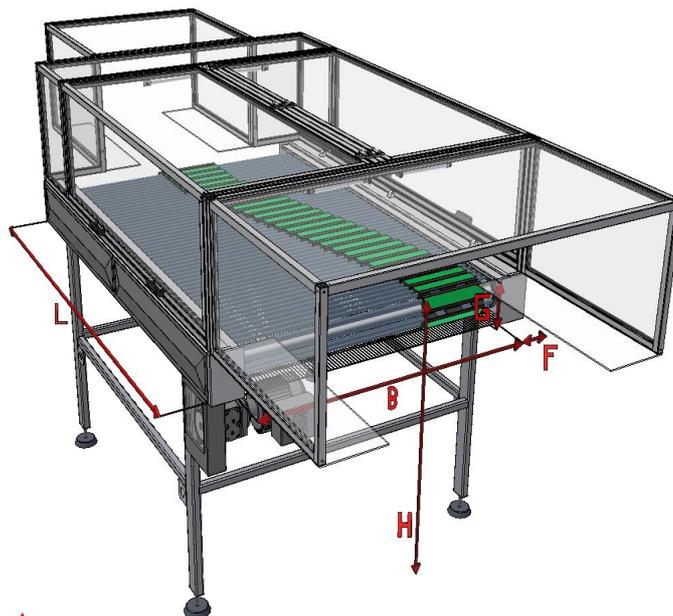
### **Products typically conveyed:**

- unpacked products (snack products, bakery products, frozen food)
- thermoformed trays
- open trays (carton, plastic, polyester)
- flexible packages by horizontal and vertical packaging machines
- shrink packs
- Carton boxes and crates



## DIVIDERS MODEL *D12/16*

Product maximum weight (kg)	18
Maximum linear speed (m/min):	120
Maximum number of switching for each lane (n/min):	
Pneumatic switching (n/min):	200
Servo driver switching (n/min):	400
Noise level at 70 m/min (dB):	80
Standard useful width B (mm):	550, 900, 1000, 1100, 1200, 1300
Standard length L (mm):	1360, 1630, 2090, 2500
Elevation H (mm):	from 300 to 1500
Side casings width F (mm):	150
Side casings length G (mm):	200



### Construction:

- Standard: mild painted carbon steel
- Stainless steel: stainless steel body
- Wash-down: 95% of the machine in stainless steel, other parts niproly process treatment, clean design

### Typical features:

- Several transfer systems for facilitating in and out transfers even when products are very unstable:
  - Gravity or powered rollers
  - Knife edges conveyors transfer modules
  - Overhead or side grip conveyors
- Several types of friction top pallets depending on product and speed
- Motor mounted under the conveyor with indirect drive (chain or tooth belt)
- Control of the switching mechanisms by means of pneumatic actuators or servo motors

### Options and special versions:

- Inlet space metering belts
- Side mounted motor
- Centralised variation of lanes centre distances (manual or automatic)
- Automatic chain tensioning system



### L.M. S.p.A.

V.le delle Nazioni, 95  
41100 Modena - ITALY  
Tel. +39 059 3164411  
Fax +39 059 3164404  
E-Mail: [info@lmgroup.it](mailto:info@lmgroup.it)  
[www.lmgroup.it](http://www.lmgroup.it)