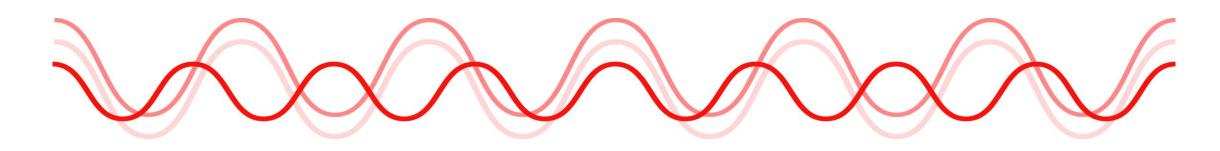


## VIBRATION TECHNOLOGY Europe



**Corporate Presentation + Glass Applications** 

### Who 's who, and who is doing what?





















### A little bit of history

- 1950 : Carrier Conveyor Corporation
- 1983 : Carrier Vibrating Equipment
- 1995 : Carrier Europe ( Nivelles-Sud )
- 1998 : Carrier Workshop Shanghaï
- 2016 : Acquisition of H&P and S.Howes

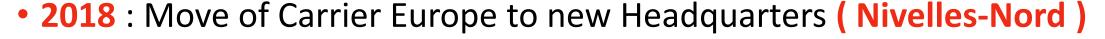


















### **Zoom on operations in USA and in Belgium**



#### **USA, KY, Louisville**





- 120 Employees • 60 m\$ Turn-Over
- 25 000m<sup>2</sup> workshop
- Engineering office
- Drawing office
- Test facilities

### **BEL, Walloon Brabant, Nivelles-Nord**

- 20 Employees
- 10 m\$ Turn-Over
- Collaborating workshop
- Engineering office
- Drawing office
- Test facilities







## The Business of CARRIER EUROPE: Bulk handling and processing equipment, using VIBRATION

### Some Standard Equipments:

- Vibrating Feeders / Conveyors / Screeners
- Vibrating Fluid Beds Dryers and Coolers

• ...

# But the « DNA » of CARRIER EUROPE is : CUSTOM MADE SOLUTION, starting from YOUR PROCESS

### Today,

- our vibratory equipment is recognized for reliability, efficiency and performance
- our team of engineers is committed to put their experience TO WORK WITH YOU



### **Vibrating Feeders / Conveyors / Screeners**

**Vibrating Feeders / conveyors** provide an efficient an economical method of conveying or processing bulk materials.

#### Main Benefits:

- High temperature conveyors available for handling materials up to 1.100°C
- Few moving parts, easy cleanable surfaces, minimum maintenance

**Vitratory screeners** are designed to screen, scalp, dewater or separate materials. Ideal for dry or wet screening, can handle up to 1500 TPH with many deck design







### **Vibrating Fluid Beds Dryers / Coolers**

Vibrating fluid beds are designed to dry and / or coll a variety of products, at a wide range of feed rates.

Principle: by passing a process gas directly through a bed of solids via a perforated plate. Vibration is added to help in fluidization of more difficult materials.

Well suited for material that has a wide particule size distribution: vibration will help to discharge oversized particules that will not fluidize.

Main benefits: - Lower fluidizing velocities: more energy efficient

- Easy to clean and to maintain
- On-line adjustment of angle of vibration



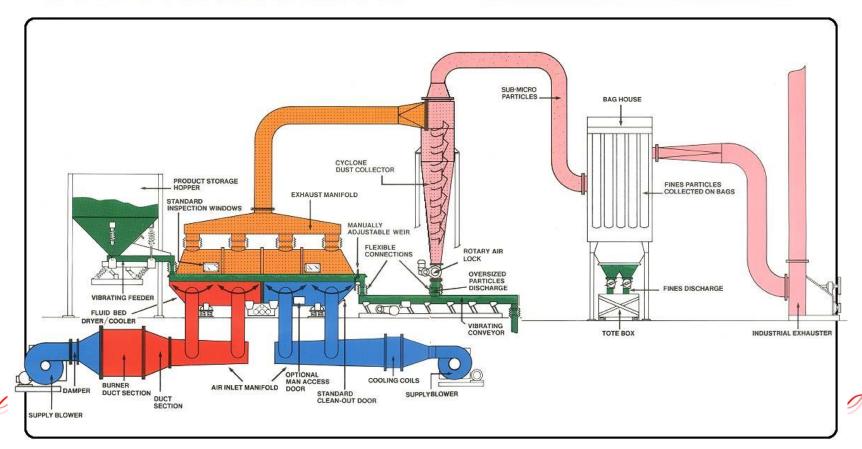




### **Vibrating Fluid Beds Dryers / Coolers**

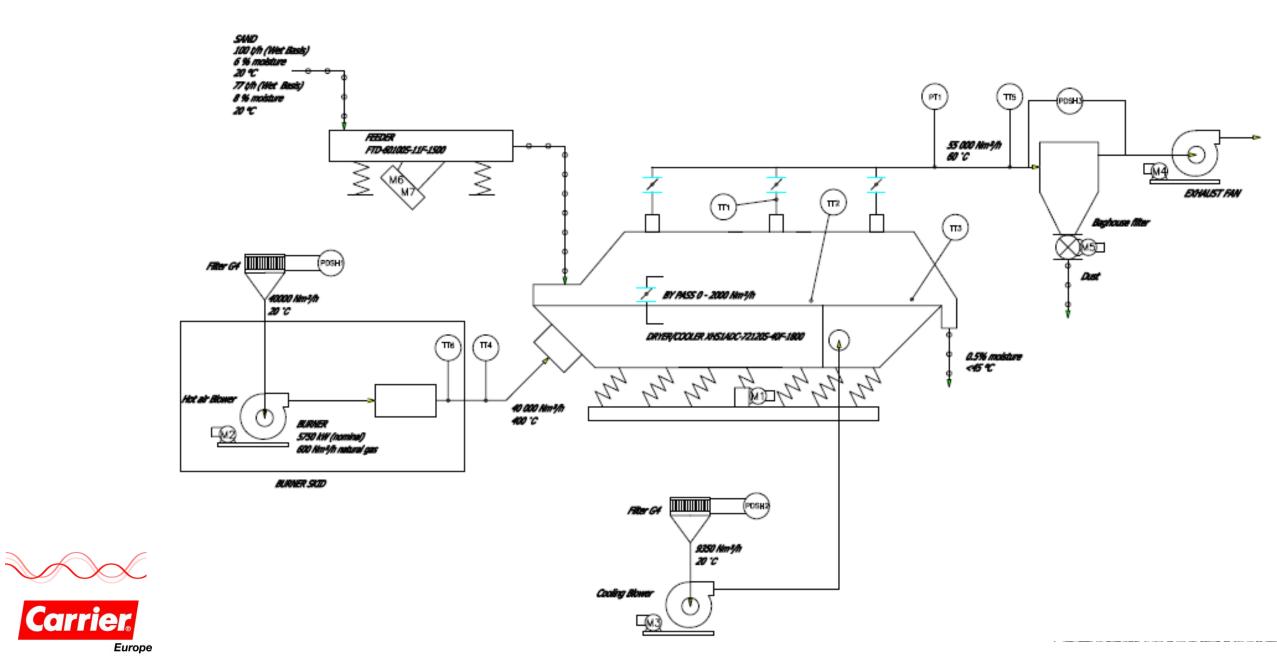


SYSTEMS INCLUDE: blowers, heating and/or cooling source, charging feeder, dust collection, duct work, air and temperature controls.





### **Vibrating Fluid Beds Dryers / Coolers**



## CARRIER EUROPE provides CUSTOM equipment, to solve YOUR needs!

- Some options :
  - Weir
  - Deltaphase
  - Screening zone
  - Metal free zone
  - Multi drying/cooling zone
  - ... and many more!









### Views from our workshop

• Location: Familleureux, 15 km south of Nivelles-Nord







### **CARRIER EUROPE** serves a wide variety of industries

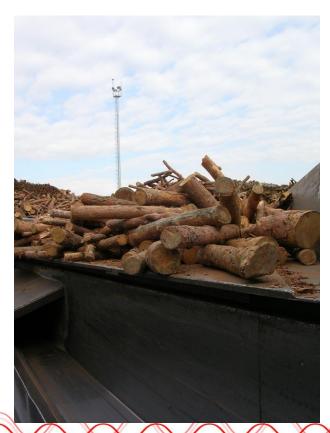
- Rubber
- Wood
- Sugar & Candy
- Glass, including cullet
- Coal
- Aggregates, Gravels & Sands
- Wheat pellet
- Gun powder

- Foundry
- Fertilizer
- Gypsum, Limestone & Clay
- Houshold Waste
- Chemical
- Spice
- Ceramics & Minerals
- ... and many more!



### **CARRIER EUROPE** serves a wide variety of industries: photos









### **CARRIER EUROPE** has solved handling needs from:

- Diffenbacher
- Tereos
- Maltha
- Exxonmobile
- Pallmann
- Holtec
- Hombak
- Eurocast

- Euremie
- Axens
- Michelin
- Proferro
- Vinci
- Peugeot
- CNIM
- Haribo

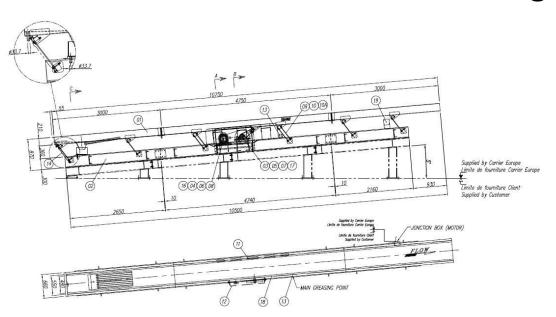
- Versalis
- Jacobi
- Magotteaux
- Owens-Corning
- 3B Binani
- Kastamonou
- Johns Manville
- ... and you?

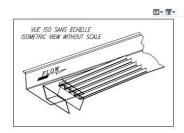


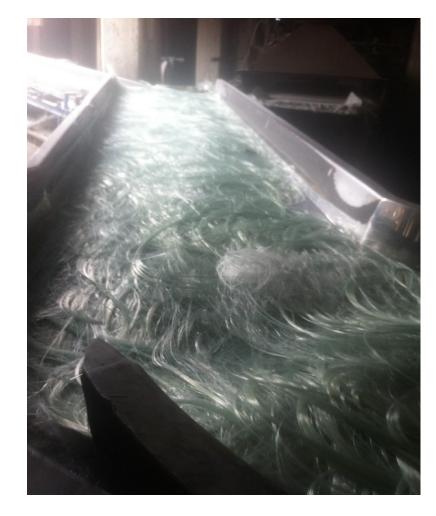
fl(o)at glass **CARRIER** solution container glass fiber glass glass recycling elimination of dedicated conveyor "basement waste" YOUR problem bad gobs quenching device overflow cleaning of fluid bed cullet glass dryer / cooler "cullet return" standard conveyor "cullet return" "cullet return"



• Fiber Glass : dedicated vibrating conveyor



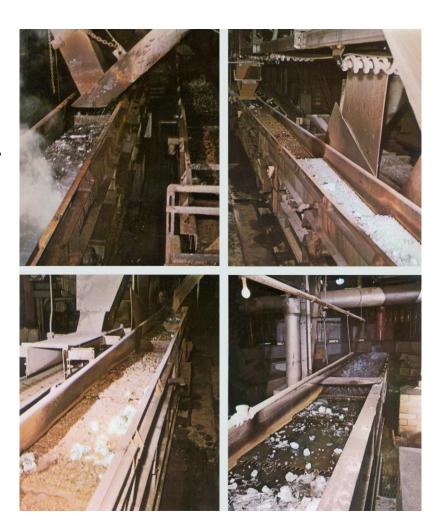






 « Quenching glass », for container and for flat glass ( overflow )





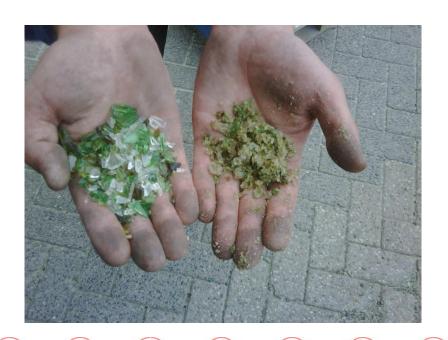


• Glass Recycling : cleaning of glass and fines elimination

BEFORE

AFTER







• Glass recycling: « Design Data » for a 15 TPH Fluid Bed Dryer / Cooler

Material	Crushed Glass		
Inlet capacity ( wet basis )	15 t / h		
Bulk density	1,45 t / m³		

Specific heat 0,18 kcal / kg °C

Inlet moisture ca 3% max
Inlet temperature Ambient

Outlet temperature 100°C to 200°C

Inlet LOI ca 0,4%
Outlet LOI < 0,25%
Glass Discharge Moisture < 0,10%

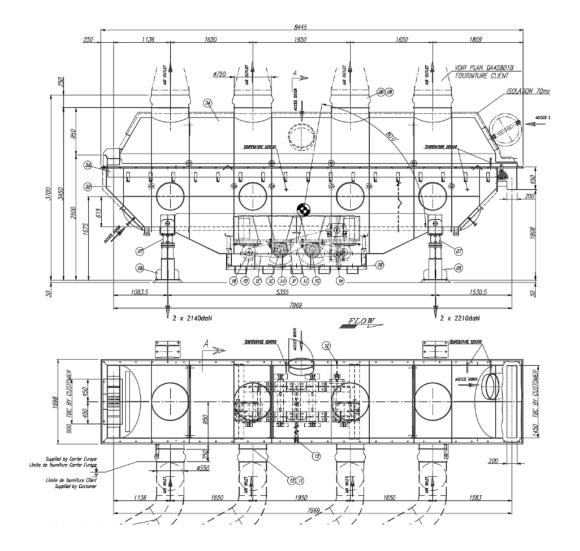
Drying cleaning air temperature 100°C to 200°C

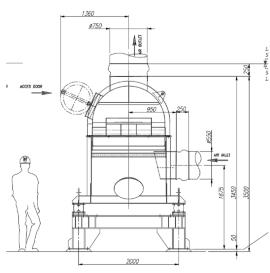
Particle size

> 10 mm	8-10 mm	5-8 mm	2-5 mm	1-2 mm	< 1 mm	total
0,0%	16,5%	39,4%	28,5%	12,0%	3,6%	100,0%



• Glass recycling : drawings







### **Contact details**

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E-mail <u>ceur@carriereurope.be</u>

Website <u>www.carriereurope.be</u>



#### Your Agent « GLASS » : Jean HARDY

« Glass » includes : float – container – fiber – cullet and waste – raw materials

Phone 00.32.499.547.596

E-mail jean.hardy@jhfinaglass.eu

Website <u>www.jhglass.eu</u>

