

# CSA Raw material storage tank

When innovation meets tradition



**PIERRE GUERIN**  
TECHNOLOGIES

TOGETHER BRING LIFE TO YOUR PROJECTS

ISO 9001  
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# CSA, storage tank on legs - skirt or flat bottom



**Pierre Guerin**, specialist of stainless steel processing, design and manufacture of stirred vessels and complete process lines for major clients whose reputation depends on bacteriologic quality of their dairy and food products.

With more than 60 years of experience, **Pierre Guerin** is the preferred partner of many Food & Beverage companies. We provide a wide range of storage and process vessels manufactured in our factories in Niort (France) and Burgos (Spain).

## Applications - Functionalities

- storage and homogeneous holding of any liquid raw material (*raw milk, standardized milk, water, fruit juices, vegetable oils, beverages...*)

## Design

- capacities: 1 000 up to 250 000 litres
- Clean-In-Place stainless steel cylindrical tank, without retention zone
- optimized insulation by non-hydrophilic Mineral wool for maintaining the optimal temperature of the product (*also without insulation*)
- insulation protected by a water-proof stainless steel jacket, fitted to avoid watering and permitting material expansion without damage
- all accessories are removable for inspection
- agitation to avoid any decantation or phase separation (*avoid cream lifting-up*).

## Performance & Innovative agitation system

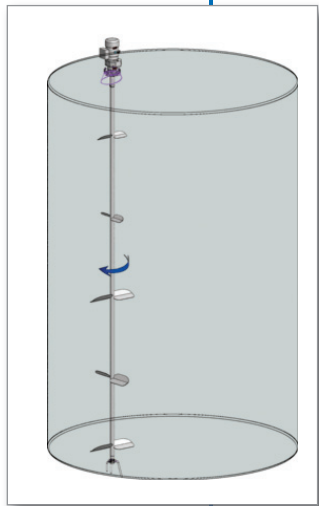
- depending of tank utilization, **Pierre Guerin** designs top, wall or bottom mounted agitator for an optimum homogeneous holding of the product (*milk, cream, vegetable oils, eggs, etc...*)

## Main features

- 15° up to 30° conical cover and bottom (*except for flat bottom design option*)
- stainless steel adjustable legs with floor plates (3 to 12 depending of capacity) for tank capacity up to 125 m<sup>3</sup>, supporting by a stainless steel frame
  - or on stainless steel skirt for tanks from 30 up to 250 m<sup>3</sup>
  - or flat bottom to be installed on concrete base from 30 up to 250 m<sup>3</sup>
- possible insulation on wall side, bottom and cover
- all parts made of stainless steel EN 1.4307 (AISI 304L), including frame, legs, floor plates, jacket
- all welds in contact with the product are made under inert gas atmosphere, rolled, ground and polished:
  - internal: Ra (*indicative*) ≤ 0.8 μm
  - external: welds are brushed
  - external: polished wall side Grit 120 except cold-roll mill finished, 2B, for larger capacities than 100 m<sup>3</sup>.

## Accessories

- 2 lifting lugs
- 1 atmospheric vent with anti-mosquito screen, sized for CIP
- 1 nozzle for high level probe
- 1 set of cleaning devices including one rotary spraying device located on cover centre, and spay-ball(s) for agitator (*ex : lye 2 % at 70°C, water 15°C, Nitric acid 2 % at 60°C*)
- 1 self-draining manhole ø 430
- 1 agitator to ensure a homogeneous suspension of the product, vertical Polymix type agitator, or HTPG4 type agitator side-mounted on the lower part of the wall-side, or on the bottom
- 1 name plate with serial fabrication number
- 1 outlet/inlet plain hole with welded anti-vortex system
- 1 nozzle for low level probe.



## Options

- nozzle for continuous level probe
- nozzle for Pt 100 temperature probe
- stainless steel agitator drive motor cover
- welded antifoam inlet / removable antifoam inlet
- sight and light glass
- oval autoclave 305 x 440 manhole at lower part of the wall side
- sampling system piston insert type or membrane type
- bottom heating/cooling circuit and wall-side heating/cooling circuit (*optimized*) for temperature regulation
- safety ladder made of Aluminium
- circular safety handrail, intermediate rail and kick plate made of stainless steel
- walkway support bracket(s)
- EN 1.4404 (AISI 316L) stainless steel for all parts in contact with product
- cover insulation
- CIP pipework assembly.



*Atmospheric Vent*



*Polymix Agitator*

## Dimensions - Weight - Sizes

### Tanks on legs or on skirt

Nominal Volume (l)	Useful Volume (l)	Internal Diameter (mm)	External Diameter (mm)	Wall Height (mm)	Total Height (mm)	Total Weight (kg)
1 000	1 150	1 111	1 250	1 140	2 650	350
2 000	2 370	1 390	1 525	1 500	3 240	450
5 000	5 115	1 590	1 730	2 500	4 740	700
8 000	8 050	1 988	2 128	2 500	4 220	850
10 000	11 700	2 186	2 326	3 000	4 890	1 050
15 000	15 450	2 186	2 326	4 000	5 890	1 550
20 000	20 265	2 863	3 003	3 000	4 960	1 600
25 000	25 100	2 863	3 003	4 000	5 960	1 750
30 000	32 950	3 181	3 321	4 000	5 600	2 050
40 000	41 885	3 578	3 719	4 000	5 650	2 600
50 000	51 940	3 578	3 719	5 000	6 700	2 950
60 000	62 000	3 578	3 719	6 000	8 200	3 450
70 000	72 075	3 578	3 719	7 000	9 200	3 850
80 000	82 100	3 578	3 719	8 000	10 200	4 250
100 000	101 500	3 976	4 116	8 000	10 300	5 300
125 000	127 730	3 976	4 116	10 000	12 150	6 500
150 000	152 570	3 976	4 116	12 000	14 650	8 100
200 000	202 330	4 374	4 514	13 000	16 000	11 250
250 000	259 410	4 774	4 914	14 000	17 100	13 250



*HTPG4 Agitator*

### Tanks with false bottom and concrete base

Nominal Volume (l)	Useful Volume (l)	Internal Diameter (mm)	External Diameter (mm)	Wall Height (mm)	Total Height (mm)	Total Weight (kg)
30 000	31 210	3 181	3 321	4 000	4 600	1 900
40 000	39 370	3 578	3 719	4 000	4 650	2 150
50 000	49 420	3 578	3 719	5 000	5 650	2 550
60 000	59 480	3 578	3 719	6 000	6 650	3 000
70 000	69 520	3 578	3 719	7 000	7 650	3 300
80 000	79 570	3 578	3 719	8 000	8 650	3 700
100 000	99 670	3 976	4 116	8 000	8 800	4 600
125 000	123 210	3 976	4 116	10 000	10 800	5 350
150 000	148 010	3 976	4 116	12 000	12 800	6 450
200 000	209 220	4 374	4 514	14 000	15 100	9 500
250 000	249 000	4 774	4 914	14 000	15 100	10 250



*Circular Safety Rail*



*Sample Valve*

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