



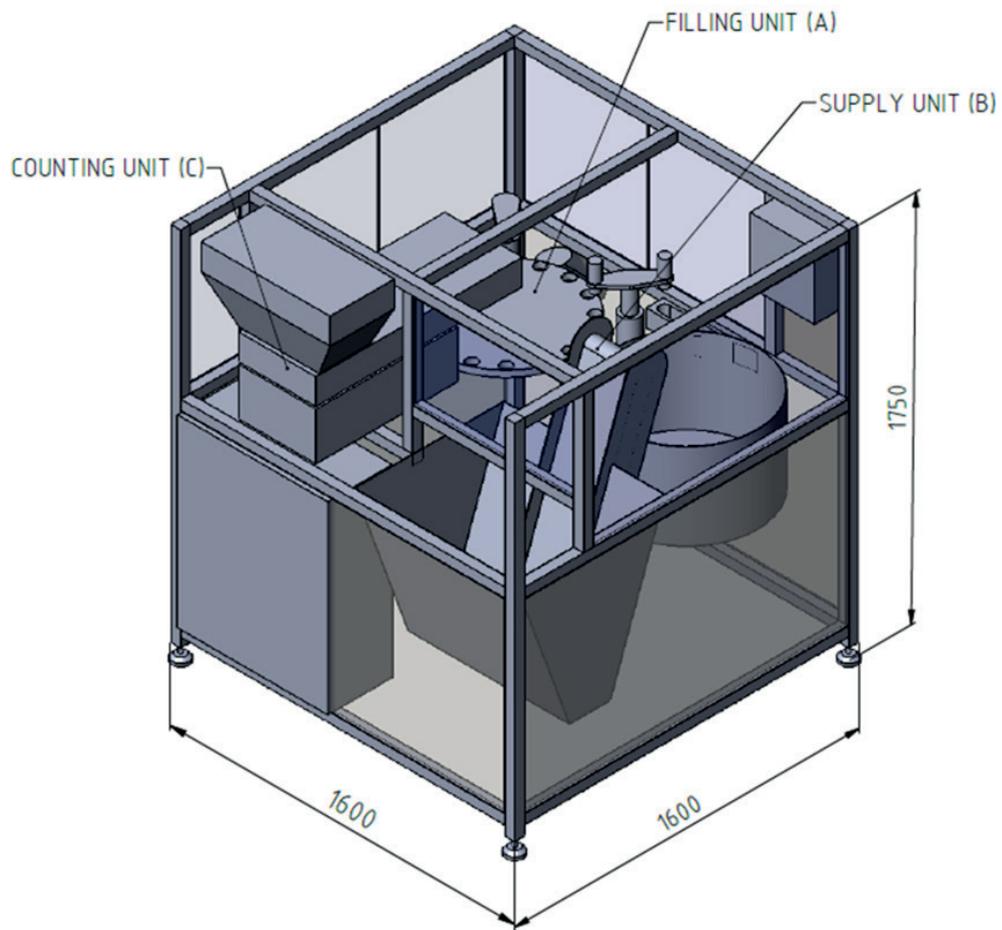
FILLING LINE FOR APTAR CSP VIALS

- **PROJECT THAT NEEDS TO BE ADJUSTED AFTER PRE-SERIES**
- **FOR NORTHERN AMERICA ONLY**
- **TAILOR-MADE SYSTEM, ADJUSTABLE TO FIT VARIOUS REQUIREMENTS**
- **SPEED FROM 15 TO 60 VIALS/MIN, DEPENDING ON THE OPTIONS SELECTED, AND THE VIALS AND TABLETS TO PACK**
- **CHANCE PARTS TO MANAGE A WIDE RANGE OF VIALS**
- **A BETTER PRODUCTIVITY**
- **OUR EXPERTISE AT YOUR SERVICE**
- **OUR SUPPORT DURING IMPLEMENTATION**

Elizabeth Europe, expert tooling partner for pharmaceutical industry. The European Production site of the Elizabeth Companies is located in France.

Elizabeth Europe has a turnover of 12 million euros, has a staff of 100 people, and has 5 activities : Compression tooling (1st in France, 650 customers in Europe), Blister tooling (1st in France, 300 customers in Europe), Special Machineries, Press parts (1st in France, 50 % of French market) and Eliza-Press (rotary press).





• A. VIAL FILLING SYSTEM

Purpose: It allows faster automatic opening and closing of the vials before and after filling. This system bypasses all handling.



Features:

- All size of vials
- Specific but adjustment to vial diameter 17,5mm/height 40,8 mm
- Hand supply of the empty vials into the unit A
- Maximum machine speed is 60 vials/min
- But usual speed is 15 to 20 vials/min due to hand supply of the vial
- Data management through password functions
- Emptiness
- Proper closing checking
- Remote access to automation
- Change parts specific to vial diameter
- CFR 21 part 11 optional

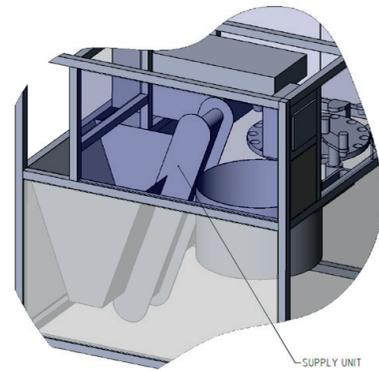
FILLING LINE FOR APTAR CSP VIALS

• B. AUTOMATED VIAL SUPPLY UNIT

Purpose: Unit dedicated to automatic supply of the empty vials into unit A.

Features:

- Maximum speed of unit B is 60 vials per min
- The final speed depends on vial size, tablet size/surface state/ number, cotton and opening/closing features
- All size of CSP vials
- But vial diameter 17,5 mm and height 40,8 mm may require specific adjustment (not included)
- Change parts specific to vial diameter
- Aluminium, stainless steel and food compliant plastic
- Vials loaded manually into a bowl feeder located close to the ground, easily accessible to operator

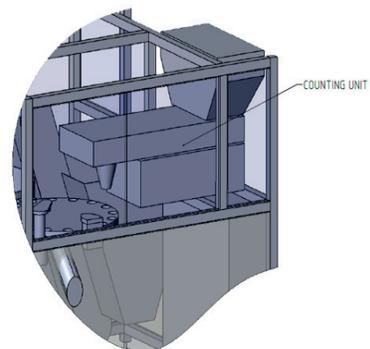


• C. INTEGRATED COUNTING UNIT

Purpose: Unit dedicated to a high-speed automatic counting of tablets/capsules and filling into the vials.

Features:

- 12 tracks counting unit, one funnel
- The counting sensors are capable of automatically adjusting against light reduction due to dust. So, the sensors are dust friendly and ensures count accuracy ever for very dusty tablets.
- If the dust blocks the sensors, a warning signal appears on the monitor.
- Handle coated and uncoated tablets and hard/soft gel capsules
- Ex: For tablet diameter 5 mm, speed 216.000 tablets/hour
- Ex: For tablet diameter 10 mm, speed 117.000 tablets/hour
- Ex: For capsule size 0, speed 63.000 capspules/hour
- Ex: For capsule size 2, speed 90.000 capspules/hour
- Adjustable vibrator for tablet flow
- In option (not included), sorting device by air purging and vacuum suction to remove broken tablets



Vial	Capsule	Count	Speed in Vial/min (+/- 5%)
M-3003-200 64 ml	Size 0	30	50
M-3003-200 64 ml	Size 1	45	60
M-3003-200 64 ml	Size 2	60	46
M-3003-477 110 ml	Size 0	45	48
M-3003-477 110 ml	Size 1	60	54
M-3003-477 110 ml	Size 2	90	34
M-3003-451 166 ml	Size 0	90	30
M-3003-451 166 ml	Size 1	120	38
M-3003-451 166 ml	Size 2	150	18

FILLING LINE FOR APTAR CSP VIALS

	Price Target	
	min	max
A- Semi automated vial filling unit		
A.1 Equipment		
Mechanical base, 1 format, FAT, IQOQ doc, packaging.....	\$60 000	\$70 000
A.2 Options & customization		
Additional format (tube diameter).....	\$1 500	\$2 500
Additional closing/opening device.....	\$500	\$1 000
Special parts, special components.....	quotation under request	
Link with another counting unit.....	quotation under request	
A.3 Services recommended		
fixed cost travel From Europe to the USA (2 technicians).....	\$5 000	\$5 800
commissioning (2 days, 2 technicians).....	\$4 000	\$4 600
SAT (1 day, 2 technicians).....	\$2 000	\$2 300
Training (1 day, 2 technicians).....	\$2 000	\$2 300
Assistance to manufacturing start (1 day x 2 technicians).....	\$2 000	\$2 300
B- Automated vial supply unit		
B.1 Equipment		
Mechanical base, 1 format, FAT, IQOQ doc, packaging.....	\$80 000	\$90 000
B.2 Options & customization		
additional format (tube diameter).....	\$500	\$1 000
Special parts, special components.....	quotation under request	
B.3 Services recommended		
commissioning (2 days, 2 technicians).....	\$2 000	\$2 300
SAT (1 day, 2 technicians).....	\$2 000	\$2 300
Training (1 day, 2 technicians).....	\$1 000	\$1 200
Assistance to manufacturing start (1 day x 2 technicians).....	\$1 000	\$1 200
C- Integrated Counting unit		
C.1 Equipment		
Mechanical base, 1 format, FAT, IQOQ doc, packaging.....	\$115 000	\$125 000
C.2 Options & customization		
additional format (funnel).....	\$500	\$1 000
Special parts, special components.....	quotation under request	
C.3 Services recommended		
commissioning (2 days, 2 technicians).....	\$500	\$600
SAT (1 day, 2 technicians).....	\$500	\$600
Training (1 day, 2 technicians).....	\$500	\$600
Assistance to manufacturing start (1 day x 2 technicians).....	\$500	\$600

Due to continued updating of our equipment, the texts, illustrations and technical specifications mentioned on these pages are illustrative only and are subject to change without notice.