

CSS-C Discharge units

Competence.
Performance.
Reliability.



BUSS Single Screw Discharge CSS-C with connecting tube CCT- PVC-optimized discharge unit with free fall and effective degassing

The CSS-C picks up the material flow from **free fall** via the **CCT connecting tube** – ideal for PVC compounds. Gases and volatile components are reliably removed before the **single-screw discharge unit** gently conveys the material and builds up the pressure required for **filtration and pelletizing**. **Multi-zone temperature control of the barrel and temperature-controlled screw** stabilize the product temperature, thus ensuring compound quality.

Direct process visibility via the **start-up chute and integrated inspection windows in the CCT** enable a convenient start-up process with reduced scrap. The robust, maintenance-friendly design allows for easy access and **quick cleaning**. Adaptable interfaces allow the CSS-C with CCT to be seamlessly integrated into **BUSS** as well as **other compounding lines** – perfect for a wide range of PVC applications. The CSS-C series covers a throughput range from approx. **50 to 13,000 kg/h**.

Product features & customer benefits

- ✓ Higher product quality thanks to **free-fall section with degassing in the CCT**
- ✓ Stable process and defined discharge thanks to **single-screw cascade discharge unit**
- ✓ Consistent conditions and formulation consistency thanks to **multi-zone temperature control of cylinder and screw**
- ✓ Reliable processing of temperature-sensitive PVC formulations through **gentle conveying with simultaneous pressure build-up**
- ✓ Shorter downtimes and quick cleaning thanks to **good accessibility**
- ✓ Less waste and reliable start-up thanks to **start-up mode**
- ✓ Better process control during operation via **integrated inspection windows in the CCT**

Advantages over gear melt pumps

- ✓ Safe processing even of powder-containing materials without risk of gear wheel damage thanks to **robust screw technology**
- ✓ Higher product quality thanks to **integrated degassing**, whereas melt pumps do not provide degassing
- ✓ Gentle material handling due to longer residence time in the **cascade concept** (compared to melt pumps)
- ✓ Lower maintenance requirements thanks to **low-wear screw solution** compared to bearing and gear wheel wear



BUSS

excellence in compounding

COMPEO Single Screw Cascade CSS-C

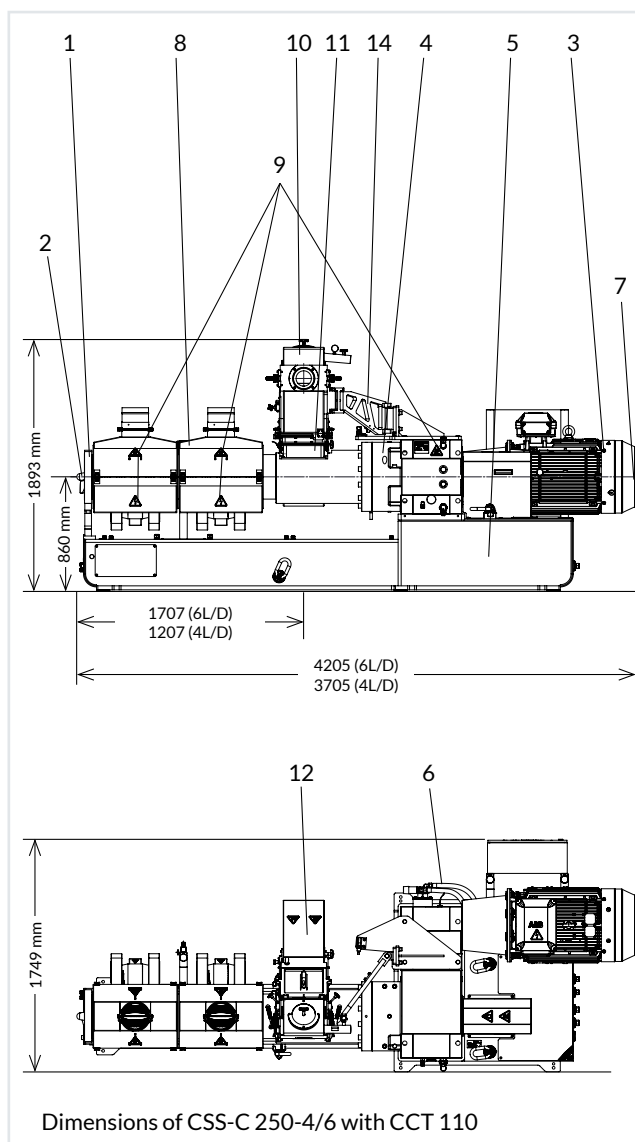
Stand-alone features

- ✓ Flexible integration into **BUSS** and other compounding lines through adaptable interfaces
- ✓ Energy-efficient operation with precise control thanks to **variable-frequency drive (VFD)**
- ✓ Safe and fast coupling with the help of a well-designed **mobility mechanism**

Dimensions & Components

Components

- 1 Barrel
- 2 Screw
- 3 Drive unit
- 4 Gearbox
- 5 Base frame
- 6 Temperature fluid lines
- 7 Shaft heating/cooling
- 8 Heating and cooling unit
- 9 Protective device
- 10 Shaft upper part
- 11 Shaft lower section
- 12 Start-up chute
- 13 Vacuum line (not shown)
- 14 Swivel arm



Overview of sizes CSS-C with CCT & technical data

	COMPEO 55		COMPEO 88			COMPEO 110		COMPEO 137		COMPEO 176	
Types CCT	CCT 55		CCT 88			CCT 110		CCT 137,5		CCT 176	
Types CSS-C	CSS-C 110-4 CSS-C 110-6		CSS-C 200-4			CSS-C 250-4 CSS-C 250-6		CSS-C 300-4 CSS-C 300-6		N/A CSS-C 320-6	
			45 kW	65 rpm							
			CSS-C 200-6								
Power & Speed CSS-C	15 kW	90 rpm	45 kW	65 rpm	50 rpm	90 kW	45 rpm	132 kW	55 rpm	160 kW	35 rpm
			55 kW	65 rpm		75 kW	55 rpm				
Screw Diameter CSS-C (rounded to size)	110 mm		200 mm			250 mm		300 mm		320 mm	