



C-TWYN

Twin screw feeding unit - "C-TWYN"

C-TWYN is a twinscrew feeding unit engineered in different sizes in order to feed powders, granules, pellets, flakes and fibers and is available in volumetric or gravimetric versions. In the loss-in-weight modules, an analogue load cell is installed to guarantee a high weighing accuracy.

PRINCIPLE OF OPERATION

One single motor through an integrated gear box, drives the feeding screw and the horizontal agitator which avoids bridging and keeps a constant material flow. Different screw configurations allows the user to feed any kind of product with any kind of throughput accurately and with consistency.



MAIN FEATURES

HIGH PERFORMANCE

C-TWYN can guarantee a high accuracy in feeding (+/- 0.5%) in a range of 1:20.

WIDE RANGE OF MODELS

The wide range of different dosing units allows the user to feed from 0,2 to 10800 dm³/h.

MODULAR DESIGN

The design allows the possibility to change material and feed-rate by simply changing the screw and discharge outlet.

MODULAR HOPPERS

Various shapes and sizes of standard hoppers can be perfectly combined with various measuring extensions chosen in relation to flow rate, in order to meet different dosing needs

WEIGHING SYSTEM

C-TWYN gravimetric units can be installed on a platform scale or in a special designed scale frame to keep the equipment more compact.

INSTALLATIONS

C-TWYN is always supplied prewired with junction boxes to permit an easy and fast installation.

C-TWYN feeders can be installed in a standalone frame or in a modular multi component dosing station frame C-MULTY which is available in various configurations: DS-4, DS-6 and DS-8, from 2 to 8 feeding units.

CONTROL SYSTEM & INDUSTRY 4.0

Feeder control system can manage from a single feeder up to several feeders and production lines. The PLC is supplied with OPC/UA protocol embedded, which make each machine modular and ready for industry 4.0.

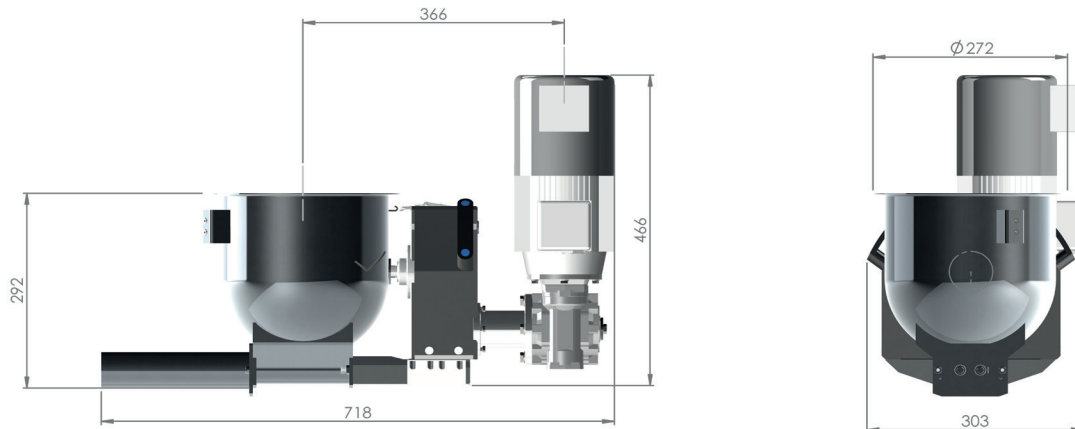
HMI

The feeding control system is equipped with a user friendly HMI touch screen (7"-9"-15").

OPTIONS AVAILABLE

As an option, C-TWYN can be equipped with a vertical agitator, designed for high temperatures, ATEX compliant and/or FDA compliant.

TECHNICAL DATA



Configuration

- Cylindrical Hopper 28 lt
- Asymmetric Hopper 60 lt
- Asymmetric Hopper 90 lt
- Hopper extension 25/50/100 lt
- Stand alone feeder
- Multi feeder C-MULTY

Configuration

- AC motor
- Brushless motor
- Single motorization
- Double motorization
- FDA compliant
- ATEX compliant

Technical Data

Brushless Motor - Drive

- Motor Size 0.4 kW
- Voltage 230 V
- Motor Class IP55
- Speed Reducers 7:1 / 14:1 / 30:1

AC Motor - Drive (Option)

- Motor Size 0.37 kW
- Voltage 230-460/3/50-60Hz
- Motor Class IP55
- Speed Reducers 7:1 / 14:1 / 30:1

Option

- Vertical Agitator for conical, asymmetric Hoppers
- Screw extension 50 mm
- Horizontal agitator for powder
- Horizontal agitator for flakes or granules
- Horizontal agitator for fiber

C-TWYN DT19

Gear (Brushless motor)	rpm (screw)	CONCAVE		AUGER	SPIRAL
		Φ 22 x 11	Φ 22 x 20	Φ 20 x 20	Φ 20 x 20
		dmc/h	dmc/h	dmc/h	dmc/h
30:1	4,6 - 93	0,6 - 12	1 - 21	1,4 - 28	1,8 - 37
14:1	10 - 200	1,3 - 26	2,3 - 46	3 - 60	4 - 80
7:1	20 - 400	2,6 - 52	4,6 - 92	6 - 120	8 - 160
Gear (AC motor)	rpm (screw)	Φ 22 x 11	Φ 22 x 20	Φ 20 x 20	Φ 20 x 20
		dmc/h	dmc/h	dmc/h	dmc/h
30:1	18 - 86	2,3 - 12	4 - 20	5,4 - 25,8	7,2 - 34,4
14:1	40 - 185	5 - 24	9 - 42	12 - 55	16 - 74
7:1	80 - 370	10 - 48	18 - 84	24 - 110	32 - 148

C-TWYN-DT28

Gear (Brushless Motors)	rpm (vite)	CONCAVE			AUGER	SPIRAL	
		Φ 32 x 30	Φ 35 x 40	Φ 35 x 50	Φ 32 x 30	Φ 30 x 16	Φ 30 x 30
		dmc/h	dmc/h	dmc/h	dmc/h	dmc/h	dmc/h
30:1	4,6 - 93	8,6 - 174	18 - 362	22 - 446	9,7 - 195	2,8 - 56	6 - 120
14:1	10 - 200	18,7 - 374	29 - 780	48 - 960	21 - 420	6 - 120	13 - 260
7:1	20 - 400	37,4 - 748	78 - 1560	96 - 1920	42 - 840	12 - 240	26 - 520
Gear (AC Motors)	rpm (vite)	Φ 32 x 30	Φ 35 x 40	Φ 35 x 50	Φ 32 x 30	Φ 30 x 16	Φ 30 x 30
		dmc/h	dmc/h	dmc/h	dmc/h	dmc/h	dmc/h
30:1	18 - 86	34 - 160	70 - 335	86 - 412	38 - 180	11 - 52	23 - 111
14:1	40 - 185	75 - 345	156 - 721	192 - 888	84 - 388	24 - 111	52 - 240
7:1	80 - 370	150 - 690	312 - 1443	384 - 1776	168 - 777	48 - 222	104 - 480