



# MODYX

## Continuous loss-in-weight feeder

**MODYX**, continuous loss-in-weight feeder designed to ensure the gravimetric feeding of a component in extrusion, blow moulding and injection processes. It guarantees the relationship with the other components in the recipe, respects and controls dosing accuracy and the total output of the extruder or press. ModYx is the ideal machine for injection moulding, injection blow moulding and extrusion lines.

### PRINCIPLE OF OPERATION

The component is stored in a weighted hopper on an off-centre load cell. The hopper feeds an underlying motorised screw conveyor. The loss in weight of the hopper provides the PLC with instant-by-instant direct feedback on the component's flow rate, and any potential instantaneous or cumulative deviation is quickly checked and constantly adjusted to the set flow rate value.



### MAIN FEATURES

#### GREAT ACCURACY & CONTINUOUS ACTION

ModYx continuously measures the dosing rate of the individual component, so that any variation is recorded and compensated.

#### LOW DOSAGE RATES

Specially designed augers for dosing at very low hourly rates are available.

#### STRUCTURAL RIGIDITY

The solid structure of the body acts as a vibration filter so as not to introduce noise into the load cell readings.

#### EXTENDED RANGE AND MODULARITY

ModYx uses a wide range of dosing screws to cover a variety of material flow rates and particle sizes, from low percentage additives as well as secondary components with a higher percentage in the recipe.

#### SINGLE OR MULTI-COMPONENT STATION

One or more ModYx units can be installed on the same extruder or press.

#### STAINLESS STEEL FOR FOOD USE

The material is conveyed through bodies suitable for processing food products.

#### EASY

Installation, operator interface, cleaning and maintenance are strengths of the design and are extremely easy and intuitive.

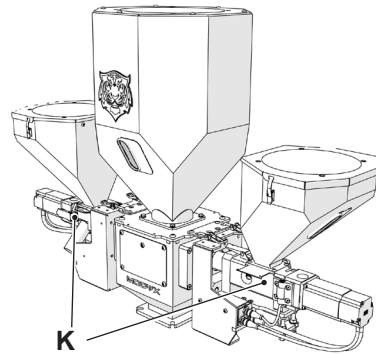
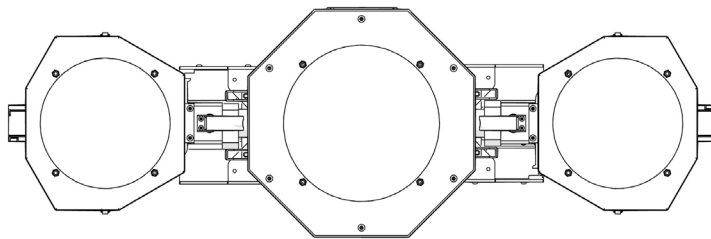
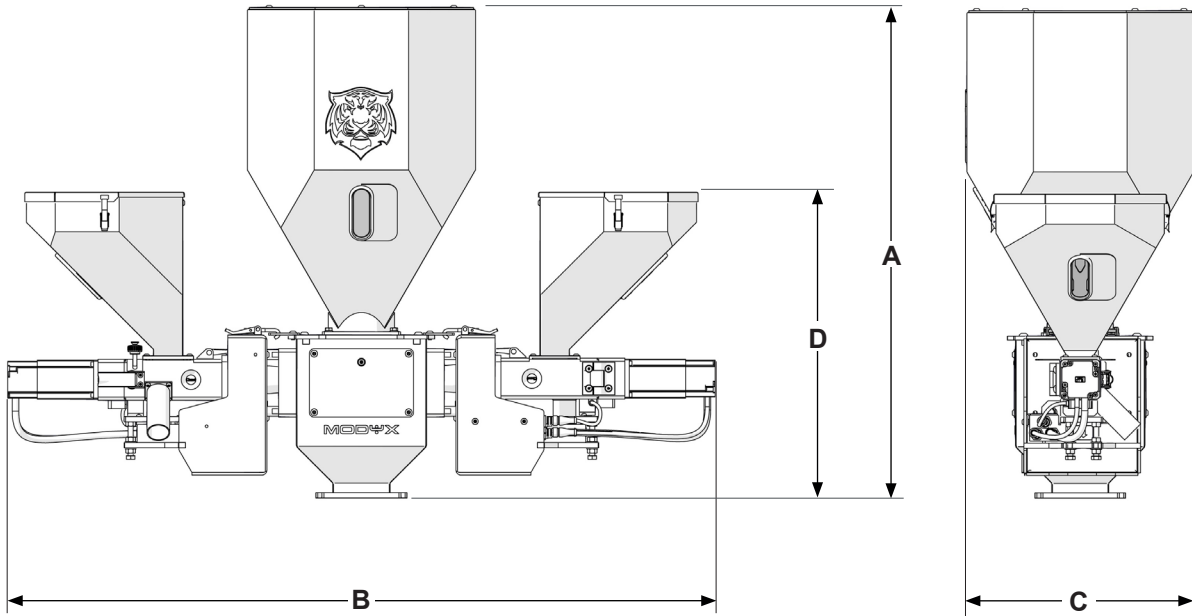
#### LOADING AND TRANSPORT

Modyx provides loader and transport management as an integrated logic function.

#### INDUSTRY 4.0 & IoT

All SYncro machines are ready to be integrated with third party supervisory controls and ERP systems using the latest generation of OPC-UA protocols as standard.

TECHNICAL DATA



Model	A (mm)	B (mm)	C (mm)	D (mm)	Weight (kg)
Modyx	755	1085	350	470	45

Dosing screws (K)							
Diameter x pitch (mm)	8 x 8	10 x 8	15 x 10	15 x 15	20 x 20	25 x 25	30 x 30
Flow rate* @ 450 rpm (kg/h)	9,5	23	50	75	110	220	320
Flow rate* @ 300 rpm (kg/h)	5,3	14,7	38	59	77	142,8	227,7
Flow rate* @ 5 rpm (kg/h)	0,06	0,1	0,6	1	1,3	2,9	3,5

\* Flow rate values are calculated considering the apparent density of the granule = 0,55 kg/dm<sup>3</sup>. They vary according to the grain size of the material.