



## Automatic air ring with outstanding performance

**FIYer<sup>3</sup>**, is the cooling ring designed for maximum cooling capacity, productivity, bubble stability, accurate thickness profile control and film quality. FIYer<sup>3</sup> represents a true evolutionary step of the cooling ring, justifying the ambitious expression 'cubed'.

### PRINCIPLE OF OPERATION

Special internal aerodynamic turbulators (patent pending) make it possible to obtain, simultaneously and for each flow regime envisaged in the use of the ring, a set of conditions such as: optimized cooling air distribution along the circumference of the blower nozzles (exclusive SYNCRO patent); homogeneous filling of the radial channels and regulation devices; maximum efficiency, i.e. limitation of pressure drops to the lowest possible value.



### MAIN FEATURES

#### EASY INSTALLATION

FIYer<sup>3</sup> can easily replace an existing air ring, improving line performance in areas such as flow rate and profile control with an average ROI (return on investment) of 6-9 months.

#### FIBREGLASS CHAMBER

The machine body is natively and fully insulated as it is made of resin and fiber. This ensures high energy efficiency and prevents condensation from forming. The air supply is single-vented tangential. Connecting the ring to the chilled air system is thus simple and the operating space around the machine is improved, facilitating maintenance operations around the head.

#### LIFTING SYSTEM

FIYer<sup>3</sup> is equipped with a lifting unit controlled by the SYNTROL supervision system, allows the memorisation of the product's positioning in the recipe, reducing recipe change times to a minimum. The lifting system is also essential for easy and quick maintenance and cleaning of the extrusion head.

#### EASY ACCESS FOR MAINTENANCE

FIYer<sup>3</sup> is designed for easy maintenance by allowing access to both motors and heating elements without ever having to stop the extrusion line, keeping the ring in 'automatic' mode.

#### MULTI-STAGE STABILISER

A booster stabilizer is available for better bubble stability and higher output.

#### TECH 2.0

Profile adjustment is available in a Tech 2.0 version protected by a specific patent. Temperature control and point-to-point air volume control along 360 degrees of the bubble's circumference are available in alternative or complementary form for maximum flexibility in handling and control capabilities. The combination of the two technologies allows a reduction of up to 75% of the initial profile error.

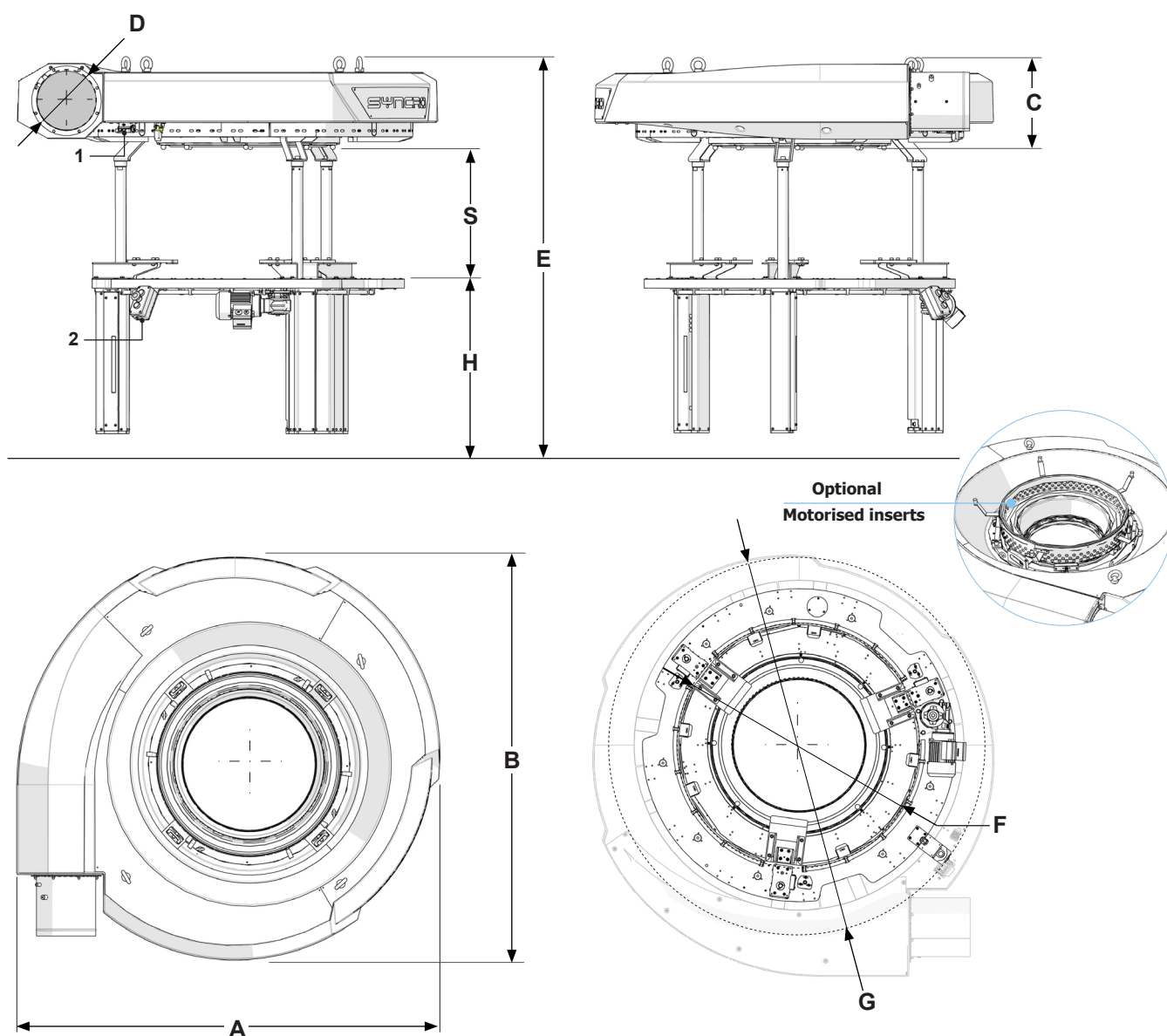
#### LARGE RANGES OF INFLATION RATIOS

FIYer<sup>3</sup> is suitable for both large and small BUR thanks to its flexible design and dedicated inserts.

#### INDUSTRY 5.0 & 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	Die Range (mm)	Control points (n°)	Heater (n°)	A (mm)	B (mm)	C (mm)	Ø D (mm)	E (mm)	Ø F (mm)	Ø G (mm)	H (mm)	S Stroke (mm)	Power (kWh)	Weight (kg)
Y00	30÷80**	18	36*	640	610	200	100	***					12	35
Y0	60÷140**	28	56	1000	1000	250	150	***					20	120
Y1	110÷250	36	72	1500	1500	325	215	1650	725	1250	875	25-450	25	370
Y2	200÷450	48	96	1800	1800	350	250	1675	1000	1560			33	500
Y3	400÷700	64	128	2250	2250	400	300	1725	1200	1760			44	650
Y4	700÷950	88	176	2700	2700	450	350	1775	1410	1920			60	830

All dimensions refer only to the air ring without insert.

\* Available in resistor-only version. \*\* Values to be defined according to customer specifications. \*\*\* Lifting system available in customised version.

Motorised insert option available only for models Y1, Y2, Y3 and Y4; the die range varies compared to versions with standard inserts.

1\_ Air ring power supply; 2\_ Lifting system power supply.