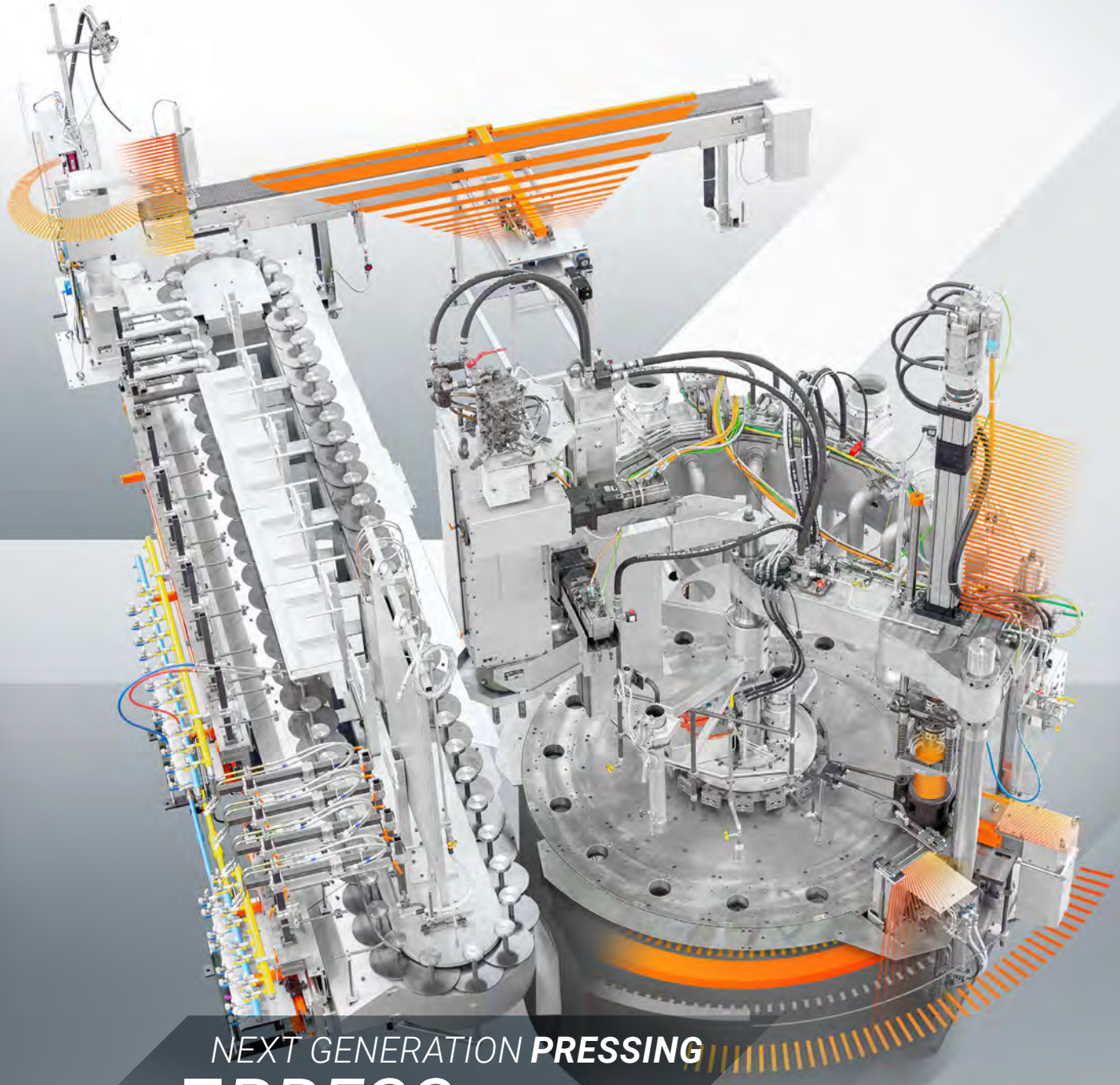
WALTEC



NEXT GENERATION **PRESSING**

EPRESS

AND INDUSTRY-LEADING

PROCESS HANDLING

Made in Germany

WALTEC.DE

POWERED BY ***INDUSTRY-LEADING*** **E***SERVO* ***TECHNOLOGY***

NEXT GENERATION **E***PRESS*

WALTEC is the leading manufacturer of fully automated and electronically controlled glass forming lines and this from feeder up to annealing lehr as well as turn-key projects.

Improving Hot-End forming operations is our key challenge! To achieve this, we create sustainable and innovative process technology, reliable production lines and components delivering

improved resource efficiency,

reduced energy consumption,

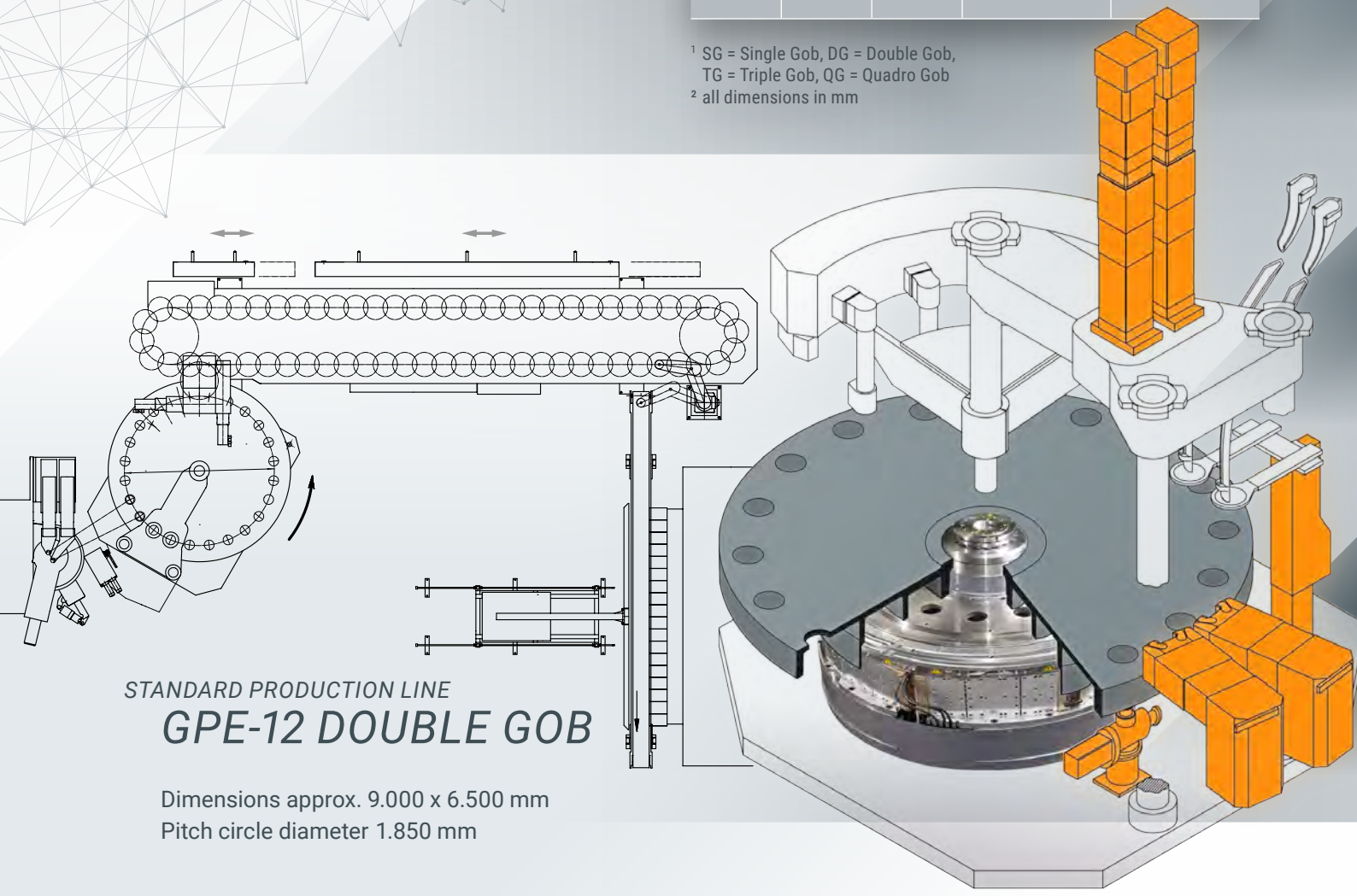
higher outputs and

data-driven process optimization.

All our production lines comply with tomorrow's economical and environmental requirements for sustainable glass manufacturing.

Sections	Gobs[1]	Moulds	Mould center distance[2]	Pitch circle diameter[2]
8	SG	8	822,8	2.150
10	SG	10	571,7	1.850
12	SG	12	478,8	1.850
12	SG	12	556,46	2.150
12	SG	12	608,2	2.350
16	SG	16	360,9	1.850
16	SG	16	458,5	2.350
16	SG	16	565,8	2.900
20	SG	20	289,4	1.850
12	DG	24	241,5 / 478,8	1.850
12	DG	24	280,6 / 561,2	2.150
12	TG	36	160	1.850
12	TG-flex			2.150
12	QG	48	160	2.450

[1] SG = Single Gob, DG = Double Gob, TG = Triple Gob, QG = Quadro Gob
[2] all dimensions in mm



STANDARD PRODUCTION LINE

GPE-12 DOUBLE GOB

Dimensions approx. 9.000 x 6.500 mm
Pitch circle diameter 1.850 mm

IMPROVED ***SUSTAINABILITY*** *–*

SIGNIFICANT ***ENERGY SAVINGS***

WALTEC uses gearless, electric direct drives for innovative glass machines with great success. Since 2010 all tables of our high-performance press machines have been driven with state-of-the-art electric torque direct drives. This torque motor recuperates the energy during deceleration and returns it into the system.

WALTEC's latest generation **E***SERVO* performance components enables the replacement and upgrade of older presses. The conversion from inefficient conventional hydraulics or pneumatics is hereby advanced to an impressive level of significant electrical energy and compressed air savings! At the same time, servo technology improves operator health and safety by reducing oil contamination and residues in the air during operation.

ESERVO PRESSING CYLINDER | ESERVO MAIN CLOSER | ESERVO FUNNEL | ESERVO PRESS SUPPORT | ESERVO PUSHER | ESERVO PUMP | ESERVO DIRECT DRIVE

ESERVO PRESSING CYLINDER

Less energy consumption: Save up to 85%[3] energy costs
Heavy-duty performance: Pressing force up to 20 tons
Lower emissions for greater ***operator health and safety***

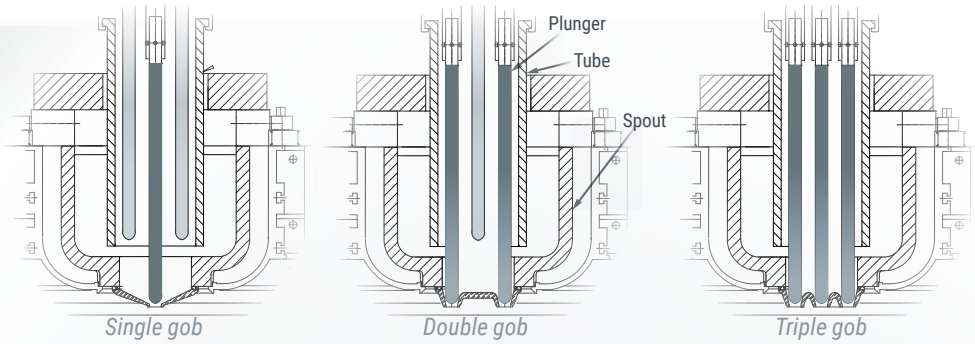
ESERVO MAIN CLOSER

More valuable production time: 10% faster[4]
Less compressed air: Save up to 80 m³/h
Extended mould lifetime: Controlled smooth movement

ESERVO DIRECT DRIVE

High torques: Up to 70.000 Nm
Smooth movement: Without backlash or jolt
Low maintenance and online supervision
Recuperative energy profile

[3] compared to conventional hydraulics
[4] compared to pneumatic main closer



*ALWAYS THE **PERFECT GOB** –*
***FLEXIBLE PRESS** OPERATIONS*

WALTEC´s feeder line-up offers multiple independent feeder mechanisms on one feeder-head for operation in single, double and triple gob. The linear feeder provides complete feeding mechanisms for each orifice ring: In triple gob operation, all three feeders work. In double gob mode, the left and right feeder operate while the middle one is parked at its highest position and the spout is closed. In single gob operation only the middle feeding is active and the two others are on standby at their highest position. The linear servo-feeder for the gob weight control supports small and medium sized production runs with different article weights.

***WTRACK** DATA-DRIVEN **PROCESS OPTIMIZATION** –*
*MONITOR, **ANALYZE & OPTIMIZE***

To better understand, monitor, and optimize the glass forming process, all our lines are powered by **W***TRACK* data software. Smart machine sensors which generate important process data during the forming process are integrated into our machine designs. This data is fed into existing operating platforms and in-house IT configurations.

W*TRACK* supports data analysis, reporting and sharing, making it a powerful tool for the production team to improve the production process.

***AFTER-SALES-SERVICE** AND*
*TECHNICAL **SUPPORT***

WALTEC safeguards spare parts availability and ensures supply reliability through its own network of certified suppliers. A continuous flow of new and innovative components to drive productivity improvements and to upgrade older machine configurations forms the backbone of this service. Once in operation, our service is always by your side in order to help. Increasing output, reducing costs or ensuring continuity of operations and minimal downtimes: Our after-sales team is available 24/7.

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GRIPPER, VACUUM, POSITIONING ACCURACY –

HIGH-SPEED *HANDLING*

Due to our modular design, optimal handling and transfer systems can be planned for all glass articles by a suitable combination based on the **WALTEC**'s standard systems.

TAKE-OUT & TRANSFER ***6-AXIS*** *ROBOT*

The possible applications of modern transfer robots are multifaceted in the glass production. In addition to removing articles from the press, reliable positioning between different production sections is always required.

The 6-axis take-out and transfer robot from **WALTEC** is designed for very heavy articles, whereas the 4-axis SCARA robot is suitable for fast and dependable positioning of medium-weight products.

SUPERIOR ***ENERGY-SAVING*** *ESERVO PUSHER*

The **E***SERVO* pusher from **WALTEC** operates with two servos, each one being independently responsible for either horizontal or vertical movement. Pushing articles into annealing lehr with this innovative technology results in higher product quality due to fewer damages and

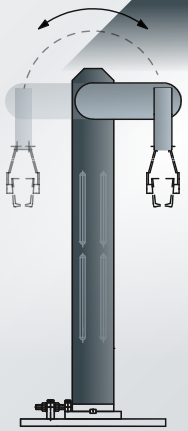
up to 10 m³/h less compressed air, superior repeatability and accuracy, 100% controllable smooth movements and less maintenance.

TRANSFER *ROBOT* ***4-AXIS*** *SCARA*

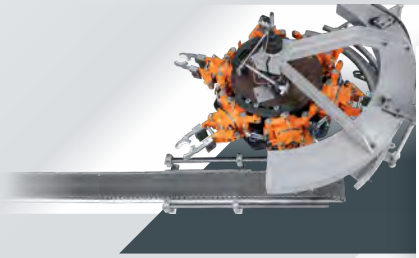
UP TO 240 CYCLES PER MINUTE: ***HVM*** *TAKE-OUT*

The ***HVM*** take-out system is designed for the highest production speeds and maximum flexibility. Two suction heads or gripper arms rotate around a vertical axis. The vertical stroke of the arms is variable in the pick and place position. This eliminates a mechanical adjustment of the pick-up and/or place position on the fire polishing machine for different mould and article heights. The rotating and lifting movements automatically suit to changes in the production speed. In total 3 **E***SERVO* drives are responsible for rotation, pick-up and place position.

ONE DRIVE – ***TWO AXIS*** ***HSE*** *TAKE-OUT*



The ***HSE*** take-out with only one servo-drive for vertical and horizontal movement has been developed for gripper or vacuum take-out.



DISCOVER MORE ***HANDLING*** *SOLUTIONS*

WALTEC.DE/HANDLING

FOR THE GLASS INDUSTRY –

*DRIVEN BY **INNOVATION***

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Savings and other performance values reflect estimates according to our own best knowledge. WALTEC reserves the right to make technical modifications at any point in time and adjust its information accordingly without prior notice.

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