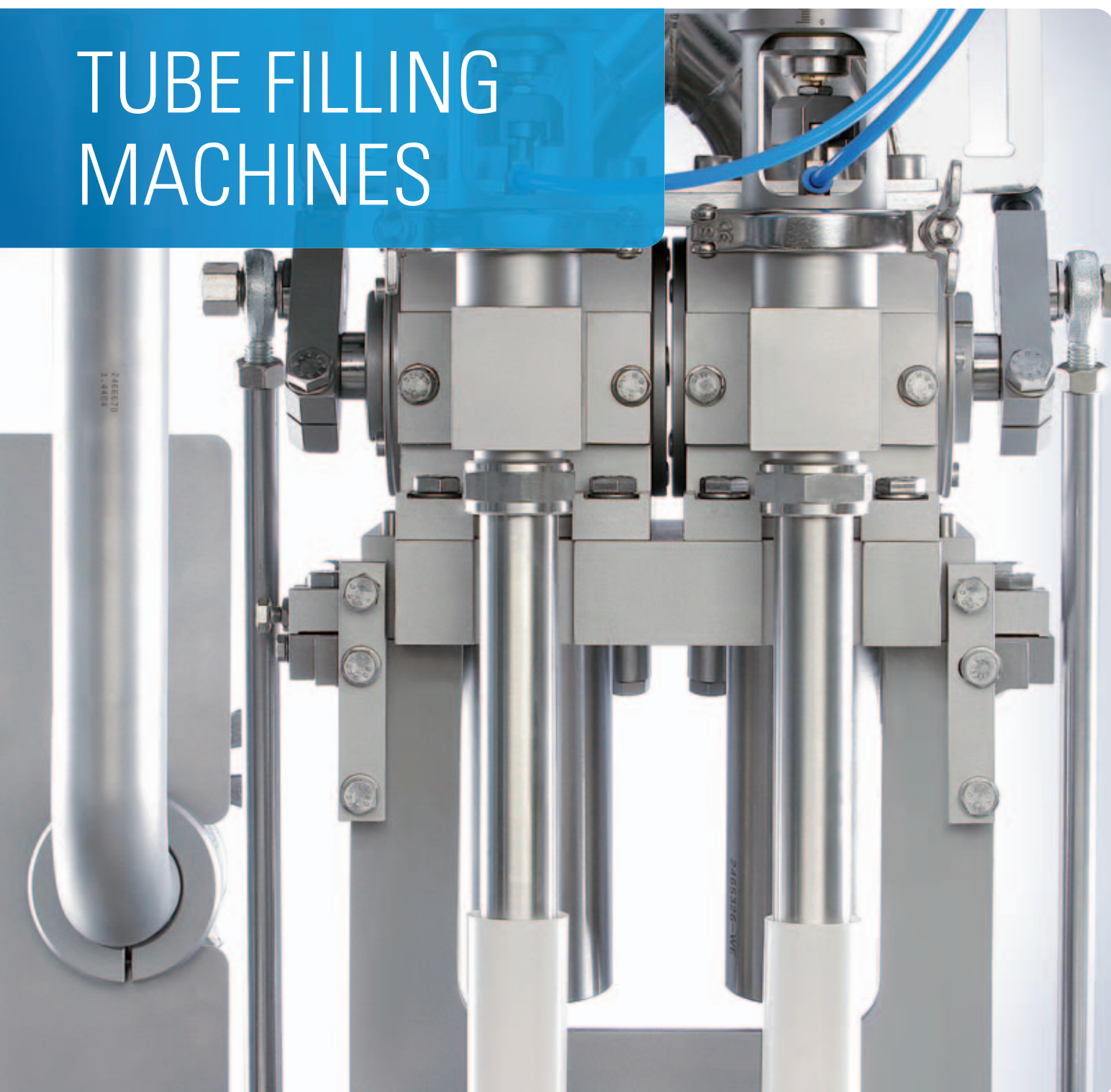


TFS 80-1 | TFS 80-2

TUBE FILLING MACHINES



TUBE FILLING MACHINE TECHNOLOGY – GAINING YOUR CONFIDENCE

With IWK you have a most competent partner at your side for solving complex issues and challenges aiming to the future, with a clear understanding of your market and your demands. As far as the packaging technology is concerned, we offer comprehensive and extensive know-how, competence and experience. Documentation and certification support is available as an option to reduce qualification and validation time.



TFS 80-1

IWK TECHNOLOGY – A GUARANTEE FOR BEING ON THE SAFE SIDE

TFS 80-1 and TFS 80-2 tube filling machines meet with your requirements

Mature technology in detail for lasting top rate performance:

- intelligent controls for optimal process cycles and outstanding process safety
- allowed time for the work processes regardless of the cycle time of the machine
- well tried design to GMP standards, simple operation and optimal accessibility
- compact construction
- lesser and simplified setup operations, best flexibility and reliability
- modular design concepts for diverse tube closing systems and add-on components



TFS 80-2

MATURE TECHNIQUE FOR ENHANCED PRODUCTIVITY

Workstations in detail

Tubes are fed in the machine on a horizontal belt conveyor with an infeed chute at the far end. A multitude of tube sizes within the size range of the machine can be run after an exchange of the respective size parts. Workstations are located in unobstructed open view with best accessibility due to a servo driven two-plane tube conveying system (diagonal track).

A colour touch-screen operating panel with neat grouping of the operating elements shows the packaging parameters and the machine data in fine detail. Operating, maintenance and service support can be offered through a tele module.

In case a different tube closing system is needed, workstations can be changed by simply engaging or disengaging couplings, fast and without tools. All wet parts can be exchanged either en-bloc or individually using fast exchange systems. Machine operation is greatly improved and facilitated due to best views into the machine and unconfined accessibility to all workstations. Smooth machine surfaces make for easy and fast machine cleaning.





Fast exchange of rotary valves in the filling station,
TFS 80-2



Tube feeding by servo driven loading drum,
TFS 80-2



Servo driven transport system for precise positioning,
TFS 80-2

Innovative PLC with machine and control based architecture for:

- electronic settings of motion profiles for dosing piston(s) and rotary valve(s); cups are lifted by servo drives
- automatic adjustment of all electric components for a size change



Wide area enclosure of the
tube conveying system

IWK'S PROFICIENCY – YOUR PROFIT

Flexibility – second to none

Best flexibility is guaranteed by the modular machine design. Workstations can be retrofitted with ease. Tubes are fed in the machine and discharged from the machine in the horizontal plane.



High GMP standards

Smooth surfaces throughout facilitate the cleaning of the machine frame and the modules.



Improved efficiency

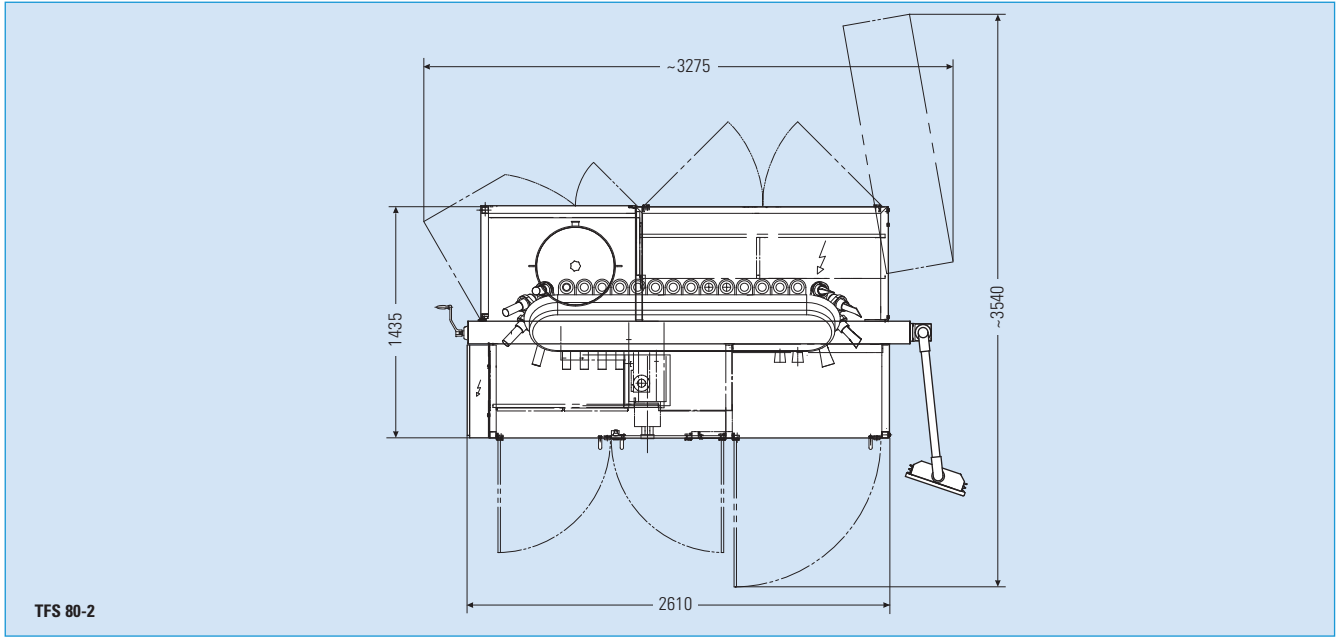
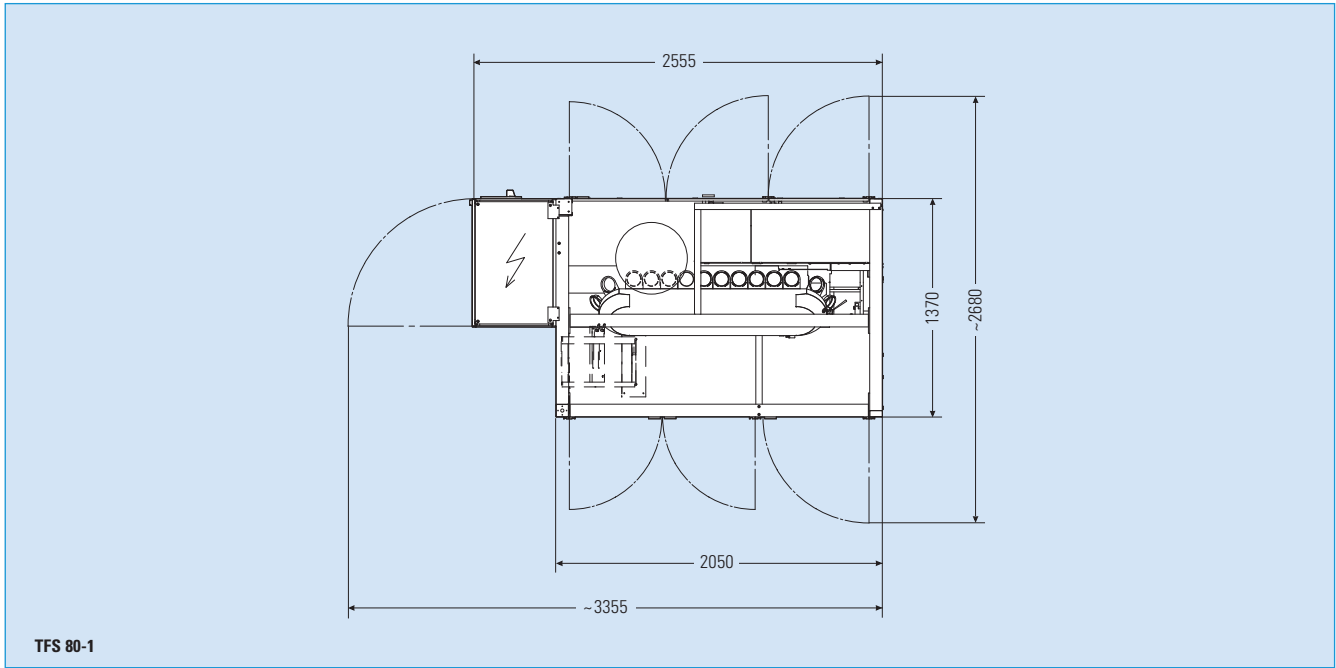
Many mechanical stroke and cam settings have been made obsolete through the consistent use of the servo technology. Motion parameters are automatically set via servo drives in case of product changes. Set-up and idle times are greatly reduced due to fast exchange systems. State of the art bearings with lube depots make for long service intervals keeping maintenance cost at bay.



Operator friendliness

Ergonomic requirements have been met due to the way the workstations have been grouped, through the easily accessible position of the touch-screen operating panel on the machine and the wide-pane transparent machine guarding.

TECHNICAL DATA



Tube filling machine model	TFS 80-1	TFS 80-2	
Tube diameter (mm)	11-60	10-52 (option up to 60)	
Total tube length (mm)	50-285	50-250	
Dosing volume (ml)	1.0-400	1.0-400	
Max. output (tubes/min.)	100	180	
Power rating	3 x 400 V/ 50 Hz	3 x 400 V/ 50 Hz	

Tube filling machine model	TFS 80-4	TFS 80-6	TFS 80-8
Tube diameter (mm)	22-40	22-40	22-28
Total tube length (mm)	85-225	85-225	102-192
Dosing volume (ml)	2,0-200	2,0-200	2,0-100
Max. output (tubes/min.)	340	510	750
Power rating	3 x 400 V/ 50 Hz	3 x 400 V/ 50 Hz	3 x 400 V/ 50 Hz

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