

BUHRS 4000

Technical Specifications Buhrs 4000-series

| | Buhrs 4000 | Buhrs 4200 | Buhrs 4500 | Buhrs 4700 |
|-----------------------------|--|---|--|--|
| Product dimensions (l x w) | Max. | 420 x 300 mm / 16.5" x 11.8" | 420 x 380 mm / 16.5" x 15" | 320 x 370 mm / 12.6" x 14.5" |
| | Min. | 160 x 100 mm / 6.3" x 3.9" | 180 x 200 mm / 7" x 7.9" | 180 x 200 mm / 7" x 7.9" |
| Product thickness | Max. | 35 mm / 1.4" (60 mm / 2.4" optional) | 35 mm / 1.4" (60 mm / 2.4" optional) | 35 mm / 1.4" (60 mm / 2.4" optional) |
| | Min. | Single sheet (60 - 80 gr/m ²) | Single sheet (60 - 80 gr/m ²) | Single sheet (60 - 80 gr/m ²) |
| Product thickness variation | Poly | 4 mm / 1/8" 20 mm / 6/8" optional | 4 mm / 1/8" 20 / 6/8" mm optional | 4 mm / 1/8" 20 / 6/8" mm optional |
| | Paper | 1 mm | 1 mm | 1 mm |
| Mechanical speed (max.) | 18,000 c/h | 15,000 c/h | 21,000 c/h | 16,500 c/h |
| Approved standards | CE, EMC UL approved | CE, EMC UL approved | CE, EMC UL approved | CE, EMC UL approved |
| Wrapping materials | Poly | 12 - 80 μm (PE, PP, others tested on request) | Not applicable | 12 - 80 μm (PE, PP, others tested on request) |
| | Paper | 45 - 120 gr/m ² With or without window, coated and recycled | Not applicable | Not applicable |
| Power requirements | Supply: 400V +/- 5%, 50/60 Hz, 3ph + 0 + ground | Supply: 400V +/- 5%, 50/60 Hz, 3ph + 0 + ground | Supply: 400V +/- 5%, 50/60 Hz, 3ph + 0 + ground | Supply: 400V +/- 5%, 50/60 Hz, 3ph + 0 + ground |
| | Compressed air: 6 bar | Compressed air: 6 bar | Compressed air: 6 bar | Compressed air: 6 bar |
| | Consumption is depending on the system configuration | Consumption is depending on the system configuration | Consumption is depending on the system configuration | Consumption is depending on the system configuration |

Specifications are subject to change without notice, requirements exceeding above mentioned specifications on request

Buhrs Service

- Telephonic helpdesk
- Preventive & Corrective maintenance
- Spare Parts
- Extension of systems
- Installation and relocation of systems
- Training
- Production support
- Productivity audit
- Remote diagnostics

Buhrs Group

Headquartered in Zaandam - The Netherlands, Buhrs has a network of subsidiaries in the United States of America, China and Japan as well as industry-qualified distributors to provide global coverage. Buhrs' long history goes back for more than 100 years.

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BUHRS 4000 POLY & PAPER WRAPPING SYSTEM



CO-MAILING SYSTEM

The most flexible wrapping and co-mailing platform

Buhrs developed a series of Poly & Paper Wrapping and Co-mailing Systems, the Buhrs 4000-series. The Buhrs 4000-series offers a perfect combination of a low and ergonomic gathering section with mobile feeders, a servo-driven wrapping module in combination with the Buhrs Data Controller (BDC).

With the Buhrs 4000-series it is not necessary to stop the system between two different jobs, which increases productivity enormously! Three main features make this possible. The feeders are being synchronised automatically (AFS) with the gathering chain of the system and will be engaged automatically based on information from the database (BDC). By measuring the length of

the product just before the wrapping section, the Automatic Wrapping Setup function AWS enables the wrapping unit to set itself automatically and adjust the seal position automatically on the fly when necessary. Of course, it is possible to use Polywrapping in combination with BuhrsWrap, which guarantees tightly wrapped products without any overlap.

The Buhrs 4000-series (optional) features include:

- Automatic Feeder Synchronisation (AFS)
- Automatic Wrap Set-up (AWS)
- Buhrs Data Controller (BDC) with a database link
- Mobile Buhrs Feeders for left, right and inline feeding

buhrs®

Automatic Feeder Synchronisation (AFS)

- The size of the documents is detected automatically by sensors mounted in the product guides
- The feeder is synchronised for correct positioning of the document in the gathering chain
- AFS is embedded in the feeder control and operates autonomously without the enclosure dimension information from the customer database

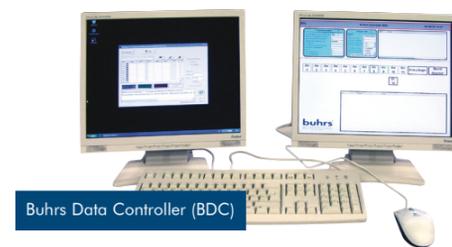
Automatic Wrap Set-up (AWS)

The AWS function automatically sets several machine adjustments and parameters "on the fly" such as:

- The Product Positioning Unit
- Wrapping length
- Seal stroke and separation position

Buhrs Data Controller (BDC)

- The Buhrs Data Controller is a database controller developed specially for the Buhrs Systems and is fully integrated with the Buhrs System Controller
- 17" flat screen TFT monitor (Production and Job view)
- The production database from the customer is processed and all production and machine related information during the production is collected and stored
- VPN Connection via Ethernet
- Management Information System (MIS) and reporting
- The software platform runs under Microsoft Windows XP
- Inkjet and camera systems are available as an option



Buhrs mobile feeders

The mobile Buhrs feeders are designed according to the best ergonomic principles. The mobile feeder can be easily placed in several positions such as left, right and in-line in the gathering section. The feeder position can be changed within one minute.

The systems of the Buhrs 4000-series can be equipped with a dedicated operator panel for each feeder (located above each feeder). On the operator panel information is displayed concerning the actual enclosure and the next enclosure with the location of the pallet containing the enclosure in the warehouse.



Well-known features

The systems in the Buhrs 4000-series are standard equipped with the following well-known features:

- Mobile servo-driven feeders
- Lowered gathering section for easier loading and improved ergonomics
- Safety lug (spring loaded)
- The patented Product Positioning Unit (PPU)
- Touch screen operator panel with information and storable job settings
- On-line diagnostics via VPN connection

Lowered gathering section

Safe and ergonomic systems enable you to improve the confidence of operators, without limiting your system's net output. With the lowered gathering section it is much easier to load the feeders.



Safety lug (spring loaded)



Go-Green: the environmental friendly BuhrsWrap (optional)

BuhrsWrap is made possible by our stretch control principle. In combination with the use of servo-motors, this enables you to control and monitor the unwinding and stretching process of the poly such that the products can be very tightly wrapped without limiting the net output of the system. After the poly has been stretched over the magazine, it resumes

its old shape. Cost savings are realised because no additional energy is required and less quantity of poly is used.



Touch screen panels



Overview

The Buhrs 4000-series consists of the following dedicated solutions:

- Buhrs 4000 Poly & Paper Wrapping System for direct mail, magazines, catalogues etc.
 - Buhrs 4200 Wide-body Poly Wrapping System for newspapers
 - Buhrs 4500 Co-mailing System
 - Buhrs 4700 Poly Wrapping System for retail brochures and other (non-)addressed mail
- Many options are available on the Buhrs 4000-series such as Gimmick feeders, Friction feeders, Buhrs HF4 feeders, autoloaders, stackers and side-streets.

| Buhrs 4000-series features | Your benefits |
|--|--|
| AFS | Automatic synchronisation of feeders with the gathering chain of the system Setting up and engaging feeders while running <ul style="list-style-type: none"> • Reduced set-up times • Feeder optimization |
| AWS * | The wrapping unit sets and adjusts itself automatically <ul style="list-style-type: none"> • Less rejects • Less 'sausages' • Higher net outputs |
| Servo-driven seal mechanism * | Low noise level (normally 75dB, max. 82 dB) High sealing quality Lower maintenance costs because of less parts |
| Motorized adjustments and automatic settings | Short make ready times because of reproducibility |
| Operator-friendly touch screen panels | Short make ready times Short learning curve because of menu control and pictograms Storable job settings (up to 100 jobs) |
| Pneumatic shafts * | Fast changeover of poly reels (less than 60 sec.) Better positioning of reel because of absolute adjustments |
| BuhrsWrap * | Tightly wrapped products without any overlap (certain restrictions apply) |
| Buhrs mobile feeders | Flexible feeder positioning Change of feeder position within one minute Ergonomically designed, loading from 3 sides Optionally: each feeder has an individual operator panel where information is displayed concerning the actual enclosure and the next enclosure incl. the location in the warehouse of the pallet containing the particular enclosure |
| On-line diagnostics | Remote monitoring, diagnostics, trouble/shooting and software upgrades minimising the system's down time and reducing service and maintenance costs to an absolute minimum |

* Not applicable to Buhrs 4500