

SPEEDIO

BV7-870Ad

Option for *SPEEDIO* Loading System





SIMPLE & COMPACT

Specialized for loading/unloading workpieces
 Compactly installed on the side of machine
 Controller incorporated in machine's control box

Integrated with the SPEEDIO main unit

The loading system is integrated with the machine, requiring less installation space.



Controller incorporated in SPEEDIO's control box

Incorporation of the controller saves space and reduces wiring connection workload.

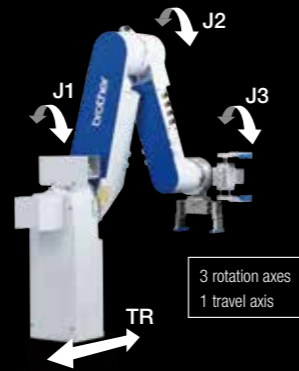
- Wiring connection with NC not necessary
- Signals between NC and BV7 internally connected
- Standard side door



The side door is automatically opened or closed by the travel axis of the loading system.

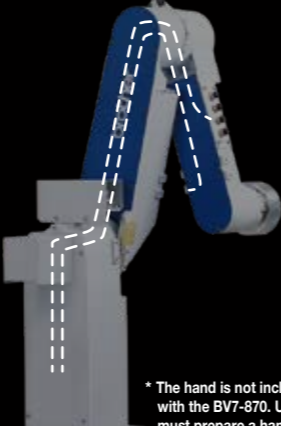
Easy handling with minimum required functions

Easy handling 4-axis vertical articulated type, specialized for loading and unloading workpieces.



Simple piping and wiring

Simple design with both piping and wiring stored in the body. Valves for the hand are standard mounted.

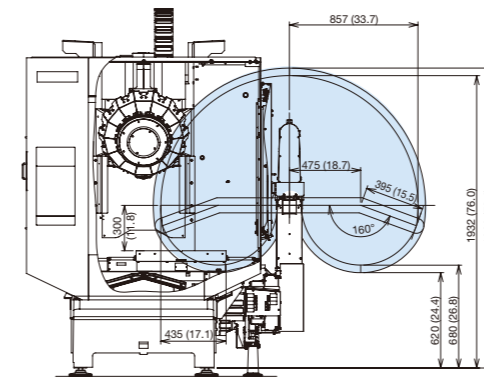


* The hand is not included with the BV7-870. Users must prepare a hand.

S500Xd1



Operation range

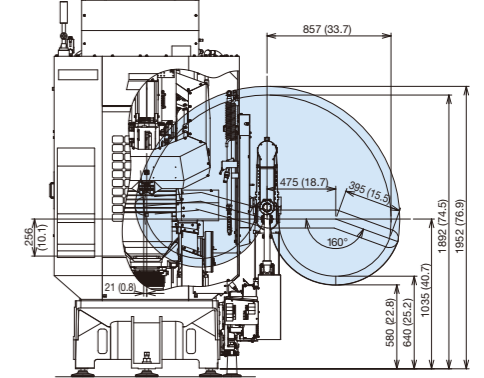


* Figure shows S500Xd1 with right-side loading specifications.

M200Xd1



Operation range



* Figure shows M200Xd1 with right-side loading specifications.

Specifications of loading system main unit

Supported models		S300Xd1/S500Xd1	M200Xd1
Type		Vertical articulated	Vertical articulated
No. of axes		4	4
Loading position		Right side / Left side	Right side / Left side
Arm length	Total	870mm (34inch)	870mm (34inch)
	J1	475mm (18.7inch)	475mm (18.7inch)
	J2	395mm (15.5inch)	395mm (15.5inch)
Operation range	J1	±90°	±90° (75° on machine side)
	J2	±160°	±160°
	J3	±300°	±300°
	TR (side door)	600mm (480mm) [23.6 (18.8) inch]	600mm (550mm) [23.6 (21.7) inch]
Rated transferable weight	Total	7kg (15.4lbs)	7kg (15.4lbs)
	J1	100°/sec	100°/sec
Maximum speed	J2	170°/sec	170°/sec
	J3	300°/sec	300°/sec
	TR (side door)	730mm/sec (*Opened/closed by BV7)	730mm/sec (*Opened/closed by BV7)
Repetitive positioning accuracy		±0.08mm (±0.003inch)	±0.08mm (±0.003inch)
weight		290kg (639lbs) (mounted on S300Xd1) 310kg (683lbs) (mounted on S500Xd1)	280kg (617lbs) (mounted on M200Xd1)

Specifications of control unit

Control axes		4 axes (3 rotation axes + 1 travel axis)
Control method		PTP / Linear interpolation
Program language		Brother BASIC
No. of program that can be registered		128
User interface		Teaching pendant / PC software
Input/output	Special input	Hand open/close sensor, start/stop, reset
	Special output	Hand open/close, start/stop/alarm LEDs
	General-purpose input/output	Optional (EXIO board input 32/output 32)
Linkage with SPEEDIO	Input	Program end, M function signal output, etc.
	Output	External zero point return, M function completion, etc.
	Built-in PLC	Global OM exclusively for loading system
Power supply		Supplied from machine

Options

Teaching pendant

You can perform teaching, check operations, correct positions, etc.



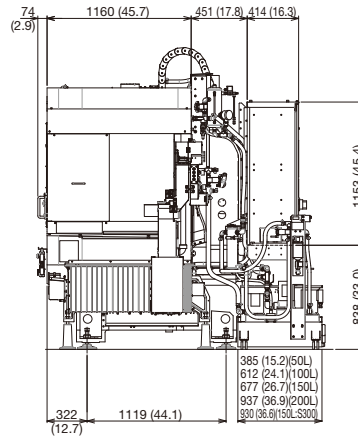
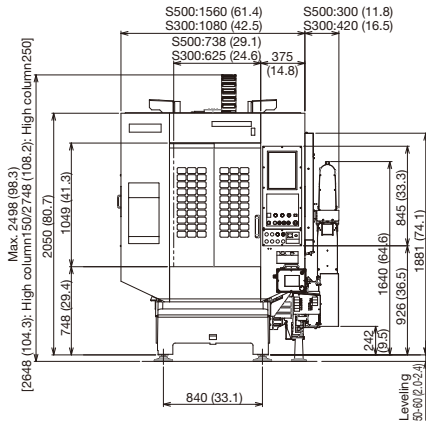
PC software

You can create operation programs and check operations.



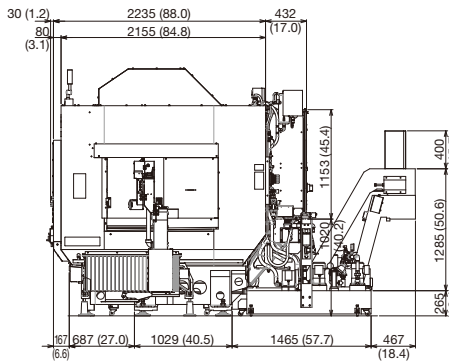
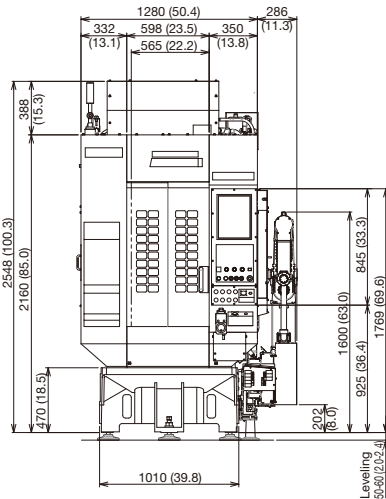
- Loading system override switch
- Loading system EXIO board
- Chip shower for side door
- Automatic grease lubricator piping for loading system (Only when the machine is equipped with optional automatic grease lubricator)
- Loading system FA plate on the back side

S500Xd1



mm (inch)
* Figure shows right-side loading specifications.

M200Xd1



mm (inch)
* Figure shows right-side loading specifications.

Global Service Sites

Local dealers are available to provide services in each region, in addition to the sites below.

Brother Technology Center Chicago

BROTHER INTERNATIONAL CORP.
2200 North Stonington Avenue, Suite 270, Hoffman Estates, IL 60169, U.S.A.
PHONE:(1)224-653-8415 FAX:(1)224-653-8821

Brother Technology Center Frankfurt

BROTHER INTERNATIONALE INDUSTRIEMASCHINEN GmbH
Hochster Str.94, 65835 Liederbach, Germany
PHONE:(49)69-977-6708-0 FAX:(49)69-977-6708-80

Brother Technology Center Bengaluru

BROTHER MACHINERY INDIA PVT LTD.
SB-111-112, 1st Stage, 2nd Cross, Peenya Indl Estate, Bengaluru - 560058 Karnataka, India
PHONE:(91)80-43721645

Brother Technology Center Shanghai

BROTHER MACHINERY (SHANGHAI) LTD.
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Brother Technology Center Chongqing

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Nanjing Office

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PHONE:(86)25-87185503

Brother Technology Center Queretaro

BROTHER INTERNATIONAL DE MEXICO, S.A. DE C.V.
Calle 1 No.310 Int 15, Zona Industrial Jurica, Parque Industrial Jurica, Queretaro, QRO C.P. 76100 México
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317 Pattanakarn Road, Pravet Sub-District, Prave District, Bangkok 10250, Thailand
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Gurugram Service Center

BROTHER MACHINERY INDIA PVT LTD.
CE SERVICED OFFICES PVT. LTD., DLF CYBER HUB, Building No 10, Tower A, Level 1, Phase 3,DLF Cyber City,Gurugram - 122002 Haryana - India
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Figures in brackets () are the country codes.

- Please read the instruction manuals and safety manuals before using Brother products for your own safety. When using oil-based coolant oil or when machining the materials which can cause a fire (ex. Magnesium, resin material), customers are requested to take thoroughgoing safety measures against fire. Depending on the types of cutting material, cutting tools, coolant oil, lubrication oil, it may have an influence on the machine lifecycle. Further questions, please contact our sales representative in charge.
- When exporting this product, be sure to check the end user and their purpose of use from the viewpoint of security trade control.

Specifications may be subject to change without any notice.

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