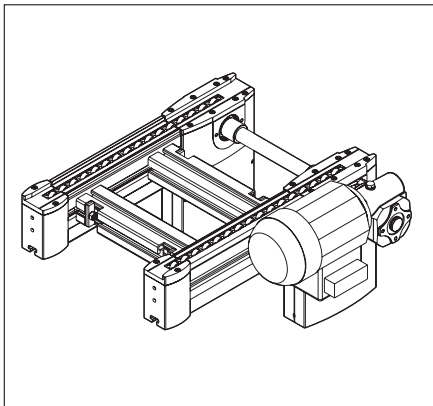


Transverse conveyors

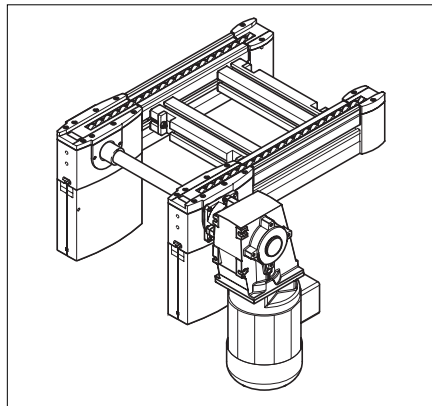
Section 5—Transverse Conveyors

BS4 Transverse conveyors are designed to transfer pallets for short transport distances (e.g. between two rectangular lines) or as cycle-independent work-stations. They are equipped with both a drive and return and steel roller chain. BS4 transverse conveyors are reversible and are available in a standard and heavy duty version.

Various motor electrical options, motor mounting positions, transport speeds, and conveyor section length and width configurations allow you to order transverse conveyors to suit any assembly requirement.



BS4-S/R
Transverse Conveyor
5-2 to 5-3



BS4-S/R-H
Heavy Duty Transverse Conveyor
5-4 to 5-5

Transverse conveyors

Transverse Conveyors

Model BS4-S/R

Roller chain transverse conveyors are used to transfer heavy workpiece pallet payloads between parallel conveyor sections. They are also used to construct cycle-independent workstations and are especially suitable for modular system layouts with short conveyor sections at high loads. The unit itself is modular and comes with its own drive, return, and preinstalled roller chain.

In normal operation, the maximum load capacity for the BS4-S/R is 200kg and 100kg in reverse. The unit uses steel roller chain as the conveying medium and is delivered with a spring chain tensioning device.

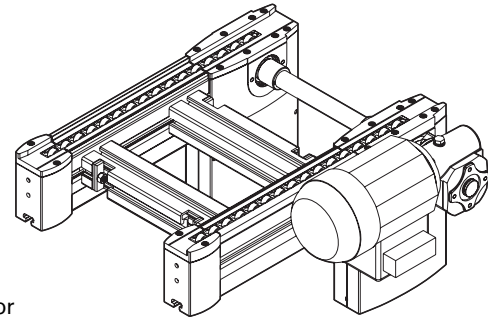
NOTE: When reverse operation is specified, a fixed chain tensioner is used instead of the spring tensioner.

The roller chain transverse conveyor is available in lengths from 400mm to 6000mm in 5mm increments. Specify conveyor width, length, conveyor speed, motor voltage/frequency, motor position, reverse option, and motor orientation when ordering.

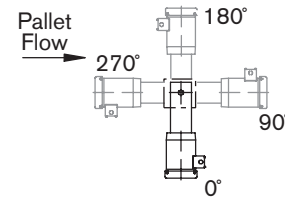
Motor voltage and frequency selections are described in Table 5-1. All motors include CE compliant wiring terminals.

The unit comes fully assembled. **Mounting hardware is not included.** Three different connection kits are available depending on the module the BS4-S is being mounted to.

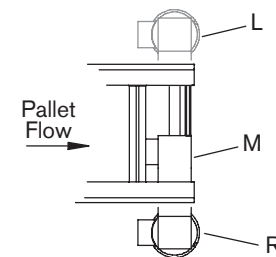
Please contact our applications engineering department for nonstandard length, width, speed, or voltage.



Outboard Mounted Motor Orientation



Motor Position



Ordering Information for BS4-S/R

Specify part number, then select from the options below	Your Choices are:	Part Number 3842 998 097
		Your selection:
Width (B) in mm	443, 643, 843, 1043, 1243	_____ mm
Motor Position	R, M, L	_____
Motor Orientation (outboard mount only)	0°, 90°, 180°, 270°	_____
Reverse Operation	YES with fixed tensioner NO with spring tensioner	_____
Transverse Conveyor length (L) [†]	400mm to 6000mm [†] (in 5 mm increments)	_____ mm
Nominal Conveyor Speed (m/min)*	9, 12, 15, 18	_____ m/mm
Motor Voltage/Frequency	See Table 5-1	_____ V _____ Hz

* Full load conveyor speeds vary depending on motor frequency. See table 5-1

† Transverse conveyors ≥2000mm long must be supported by a leg set. See page 4-8

Ordering Information for BS4-S Connection Kits

Description	Part Number
BS4-S to AS4-S/UM4-S Connection Kit	3842 530 871
BS4-S to ST4-S Connection Kit	3842 530 868
BS4-S to BS4-S Connection Kit	3842 528 192

Transverse conveyors

Technical Data for BS4-S/R

Nominal conveyor speed	= See Table 5-1
Load capacity forward	= 200 kg
Load capacity reverse	= 100 kg
Motor RPM @ 50 Hz	= 1400
Motor RPM @ 60Hz	= 1700
Motor electrical specifications	= See Table 5-1

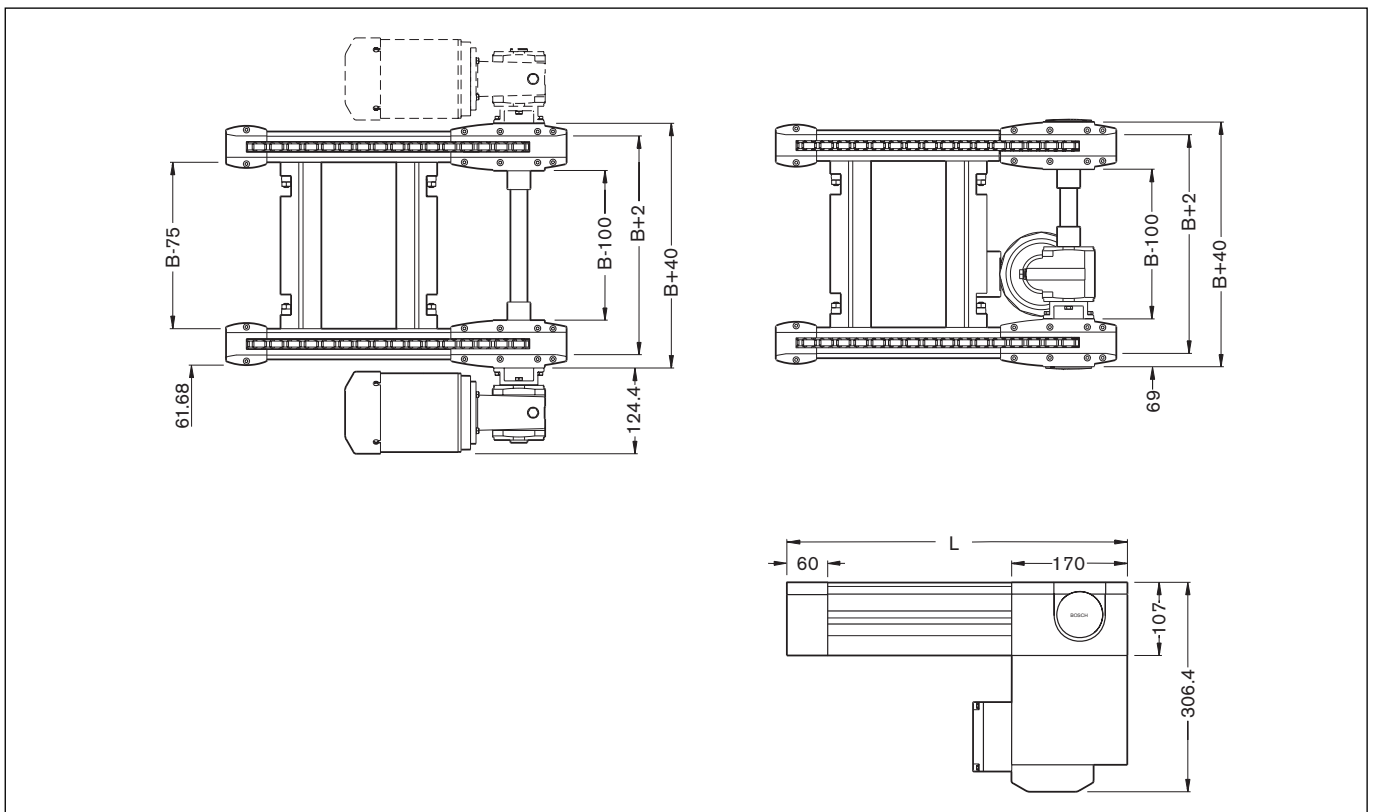
Electrical Data for BS4-S/R

Nom. M/min	Actual Speed			Full Load Amps @					
	50 Hz	60 Hz	HP	208/60	240/60	380/50	415/50	480/60	575/60
9	9.5	8.7	.25	1.6	1.3	0.86	0.72	0.67	0.55
12	11.5	11.6	.25	1.6	1.3	0.86	0.72	0.67	0.55
15	14.3	13.9	.25	1.6	1.3	0.86	0.72	0.67	0.55
18	19.1	17.4	.25	1.6	1.3	0.86	0.72	0.67	0.55

Table 5-1

Note: Electrical Data for reference only. Refer to motor name plate for actual amperage ratings.

Dimensional Data for BS4-S/R



Transverse conveyor width (B) must match pallet length (L_{VT}) or width (B_{VT}), depending on orientation.

Transverse conveyors

Heavy Duty Transverse Conveyors 450

Model BS4-S/R-H

Heavy Duty Roller chain transverse conveyors utilize a gearmotor and are used to transfer heavy workpiece pallet payloads between parallel conveyor sections. They are also used to construct cycle-independent workstations and are especially suitable for modular system layouts with short conveyor sections at high loads. The unit itself is modular and comes with its own drive, return, and preinstalled roller chain.

In normal operation, the maximum load capacity for the BS4-S/R-H is 450kg and 225kg in reverse. The unit uses steel roller chain as the conveying medium and is delivered with a spring chain tensioning device.

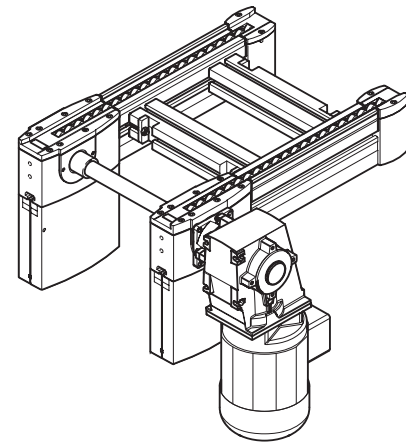
NOTE: When reverse operation is specified, a fixed chain tensioner is used instead of the spring tensioner.

The roller chain transverse conveyor is available in lengths from 400mm to 6000mm in 5mm increments. Specify conveyor width, length, conveyor speed, motor voltage/frequency, motor position, reverse option, and motor orientation when ordering.

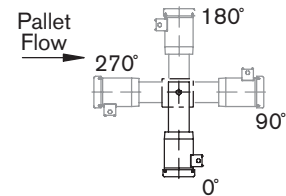
Motor voltage and frequency selections are described in Table 5-2. All gearmotors include CE compliant wiring terminals.

The unit comes fully assembled. **Mounting hardware is not included.** Three different connection kits are available depending on the module the BS4-S is being mounted to.

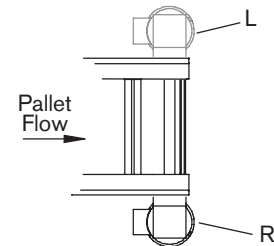
Please contact our applications engineering department for nonstandard length, width, speed, or voltage.



Outboard Mounted Motor Orientation



Motor Position



Ordering Information for BS4-S/R-H

Specify part number, then select from the options below	Your Choices are:	Part Number 3842 999 901
		Your selection:
Width (B) in mm	443, 643, 843, 1043, 1243	_____ mm
Motor Position*	R, L	_____
Motor Orientation	0°, 90°, 180°, 270°	_____
Reverse Operation	YES with fixed tensioner NO with spring tensioner	_____
Transverse Conveyor length (L) †	400mm to 6000mm † (in 5 mm increments)	_____ mm
Nominal Conveyor Speed (m/min)**	9, 12, 15, 18	_____ m/mm
Motor Voltage/Frequency	See Table 5-2	_____ V _____ Hz

* Mid-mounted motor not available with BS4-S/R-H transverse conveyors.
 ** Full load conveyor speeds vary depending on motor frequency. See Table 5-2
 † Transverse conveyors ≥2000mm long must be supported by a leg set. See page 4-8

Ordering Information for BS4-S Connection Kits

Description	Part Number
BS4-S to AS4-S/UM4-S Connection Kit	3842 530 871
BS4-S to ST4-S Connection Kit	3842 530 868
BS4-S to BS4-S Connection Kit	3842 528 192

Transverse conveyors

Technical Data for BS4-S/R-H

Nominal conveyor speed	= See Table 5-2
Load capacity forward	= 450 kg
Load capacity reverse	= 225 kg
Motor RPM @ 50 Hz	= 1380-1410
Motor RPM @ 60Hz	= 1656-1728
Motor electrical specifications	= See Table 5-2

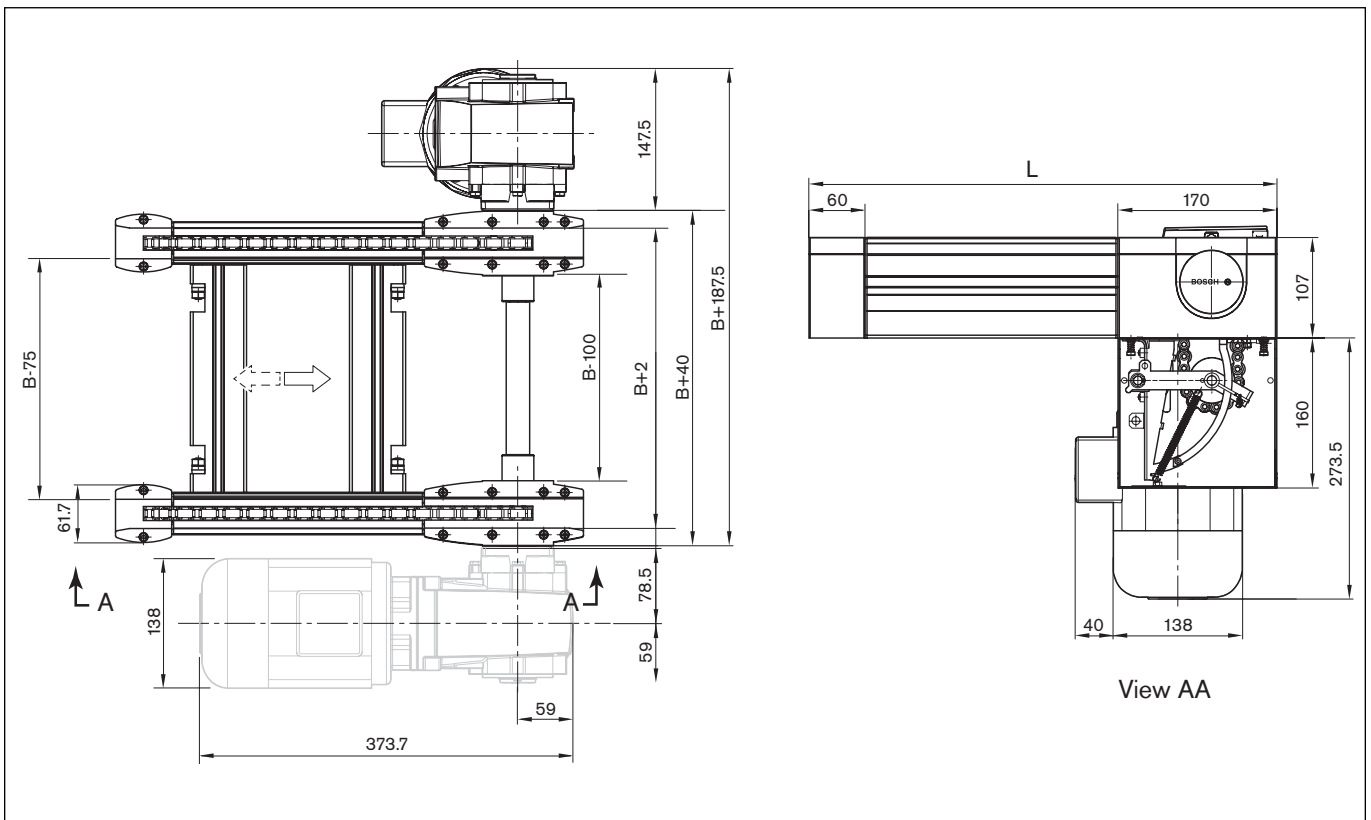
Electrical Data for BS4-S/R-H

Nom. M/min	Actual Speed		Full Load Amps/HP@											
	50 Hz	60 Hz	208/60		240/60		380/60		415/50		480/60		575/60	
			AMPS	HP	AMPS	HP	AMPS	HP	AMPS	HP	AMPS	HP	AMPS	HP
9	9.8	9.1	2.4	1/2	2.4	1/2	1.6	3/4	1.7	3/4	1.2	5/8	1.0	5/8
12	12.3	11.7	2.4	1/2	2.4	1/2	1.6	3/4	1.7	3/4	1.2	5/8	1.0	5/8
15	14.9	14.7	2.4	1/2	2.4	1/2	1.2	1/2	1.2	1/2	1.2	5/8	1.0	5/8
18	18.3	17.9	2.4	1/2	2.4	1/2	1.2	1/2	1.2	1/2	1.2	5/8	1.0	5/8

Table 5-2

Note: Electrical Data for reference only. Refer to motor name plate for actual amperage ratings.

Dimensional Data for BS4-S/R-H



Transverse conveyor width (B) must match pallet length (L_{WT}) or width (B_{WT}), depending on orientation.