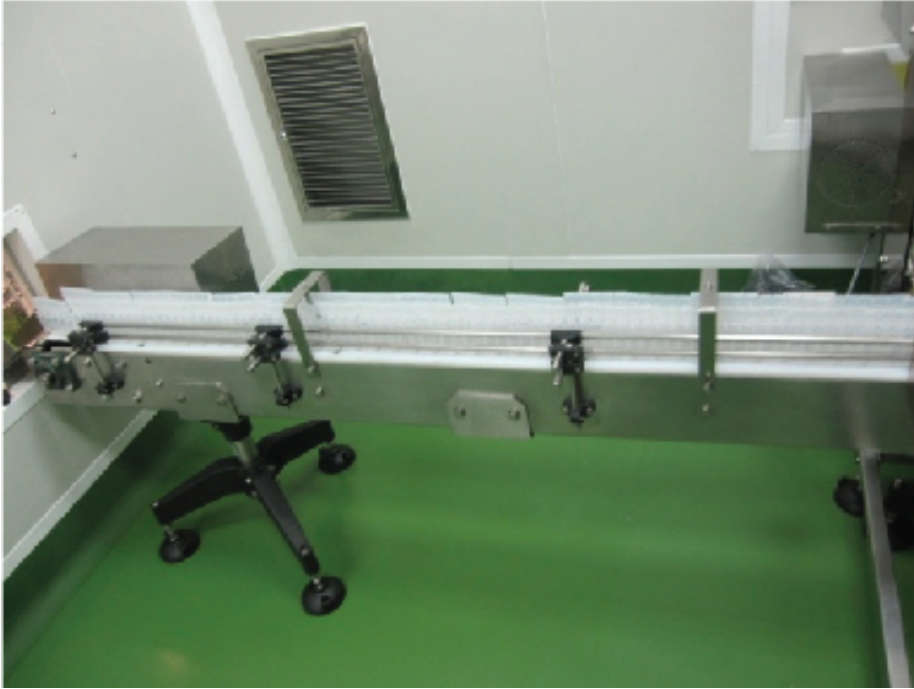


# Conveyor System DS2



## Description

63mm width thermoplastic chain with stainless steel frame conveyor system. Also available with aluminium frame, please refer section MS2.

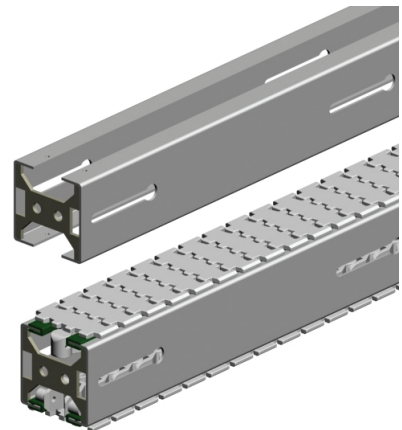
## Examples of application industries

Personal Products, Pharmaceutical & Chemical Industry, Automotive & Machined Parts Industry, Food & Packaging Industry, Electrical & Electronic Industry, Paper Converting Industry and Optical Industry

## Technical characteristics

Chain Width		63 mm
Chain Pitch		25.4 mm
Chain Weight		0.8 kg/m
Chain Maximum Working Tension		600 N
Max Product Weight*	Horizontal Transport	15 kg
	Vertical Transport	10 kg
Total Load*		200 Kg
Working Temperature*		-10°C to 60°C
Max Conveyor Length*		30m
Max Speed*		50 m/min
Drive Unit Capacity		600 N
Item Width*		15-140 mm

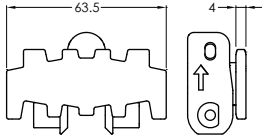
\* Actual limit may vary according to conveyor layout and application.



Please consult MODU representative for further information and assistance.

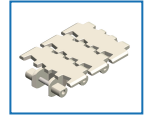
Units: Dimension (mm)

## Chains DS2

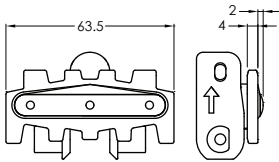


### Plain Chain

- Suitable for conveyor configuration with incline/decline up to 5°.
- Accumulation possible.

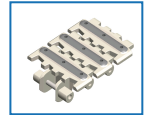


Item Code	Material	Colour	Weight	Supply
MS2 CP 5	POM	White	4.0 kg/roll	5m/roll
MS2 CP 5A	Anti-Static	Black	4.0 kg/roll	5m/roll
MS2 CP 5K	POM-Kevlar	Yellow	6.0 kg/roll	5m/roll

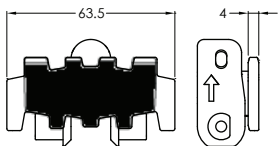


### Friction Chain

- Suitable for conveyor configuration with incline/decline up to 25°.
- Friction material : TPU (grey).
- Accumulation not possible.

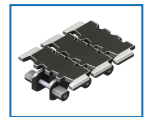


Item Code	Material	Colour	Weight	Supply
MS2 CF 5	POM	White	4.5 kg/roll	5m/roll
MS2 CF 5A	Anti-Static	Black	4.5 kg/roll	5m/roll
MS2 CF 5K	POM-Kevlar	Yellow	6.5 kg/roll	5m/roll

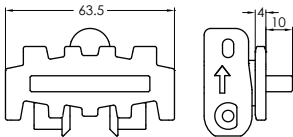


### Flocked Chain

- Suitable for scratch sensitive material.
- Flock colour : Black.
- Accumulation possible for light product only.
- Sticker type only

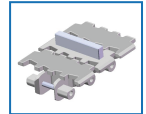


Item Code	Material	Colour	Weight	Supply
MS2 CL 5	POM	White	4.2 kg/roll	5m/roll



### Cleated Chain - Machined PE Cleated

- Required for vertical or steeply inclined / declined conveyor.
- Accumulation not possible.
- Not suitable to be use with Combined and Catenary Drive.
- Please specify pitch between cleat for ordering (eg. MS2 CC 3x10P 3p = Every 3rd link to be cleated).
- \*\*Please consult MODU representative for actual Chain weight.



\* Other cleated height are available upon request.

Item Code	Material	Colour	Weight	Supply
MS2 CC 3	POM	White	** kg/roll	3m/roll

## Chain Accessories DS2

### Lubricant For Chain



Silicone-based lubricant,  
400ml

Item Code	Weight	Supply
MA SL	0.35 kg	1 pc

### Stainless Steel Pin



Item Code	Weight	Supply
MS2 PN M4x37	0.07 kg	10 pcs/pkt

### Chain Pivot



Item Code	Weight	Supply
MS2 PV	0.01 kg	10 pcs/pkt

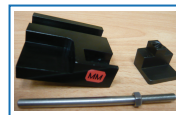
### Chain Pin Insertion Tool



Chain pin insertion tool  
shown without attachment  
& specific drive pin

Item Code	Weight	Supply
TR CP 1	1.2 kg	1 pc

### Attachment For Chain Tool



Chain attachment & drive pin

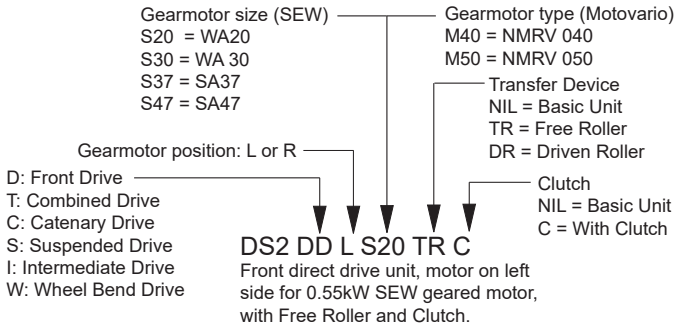
Item Code	Weight	Supply
MS2 AC	0.20 kg	1 set

Please consult MODU representative for further information and assistance.

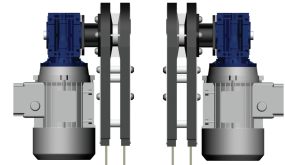
Units: Dimension (mm)

# Drive Units DS2

## Item Code Guideline For Drive Units



## Motor Orientation Guideline



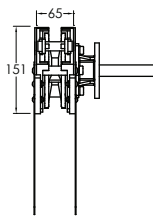
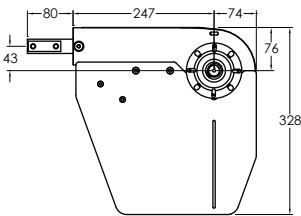
**LEFT**      **RIGHT**

\* Drive comes without gearmotor, Please refer TR-13 for gear motor options.

eg. Code for Basic unit; DS2 DT R M50 => Combined drive unit, motor on right side for Motovario NMRV 050 geared motor.

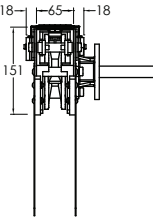
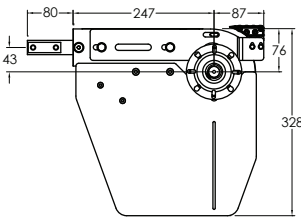
## Front Drive Unit

### Basic Front Drive



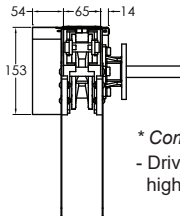
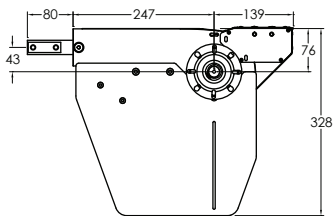
\* Comes without Safety Cover

### Front Drive with Free Roller

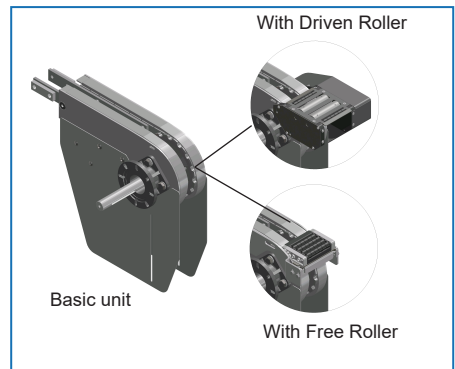


\* Comes without Safety Cover

### Front Drive with Driven Roller



\* Comes without Safety Cover  
 - Driven Roller speed is approximately 10% higher than conveyor speed.



- Effective track length: 0.80m
- Traction force: 600N
- Connecting strip and set screw included.
- Note:
  - Safety Cover comes as an option.
  - Recommended maximum chain elongation is 328mm from top conveyor to chain slack.
  - Refer TR15 for chain effective track length calculation.
  - Cleated Chain is not possible to use on drive with Free Roller or Driven Roller.

Item Code	Weight	Supply
DS2 DD R/L S/M	3.8 kg	1 unit
DS2 DD R/L S/M TR With free roller	4.0 kg	1 unit
DS2 DD R/L S/M DR With driven roller	5.0 kg	1 unit

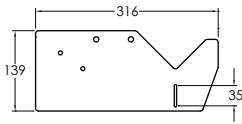
Please consult MODU representative for further information and assistance.

Units: Dimension (mm)

## Drive Units DS2 (Continued)

### Safety Cover for Front Drive

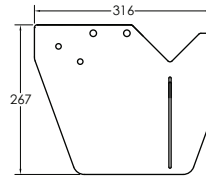
#### Short Safety Cover



- Material : Stainless Steel

Item Code	Weight	Supply
SC 139	0.8 kg	2 pcs/set

#### Normal Safety Cover

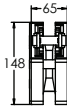
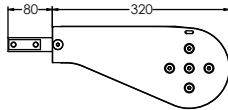


- Material : Stainless Steel

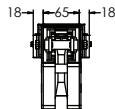
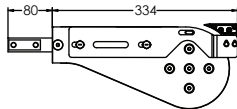
Item Code	Weight	Supply
SC 267	1.4 kg	2 pcs/set

## Idler End

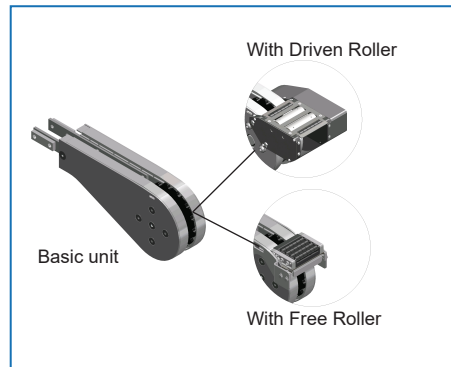
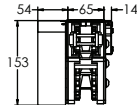
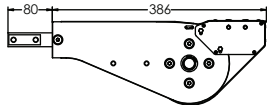
#### Basic Idler End



#### Idler End with Free Roller



#### Idler End with Driven Roller \*(Right)



- Driven Roller speed is approximately 10% higher than conveyor speed.

Item Code	Weight	Supply
DS2 IE 320	3.0 kg	1 unit
DS2 IE 320 TR With free roller	3.4 kg	1 unit
DS2 IE 320 DR With driven roller	4.5 kg	1 unit

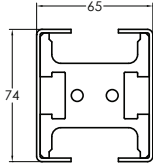
Effective track length: 0.8m

- Connecting strip and set screw included.

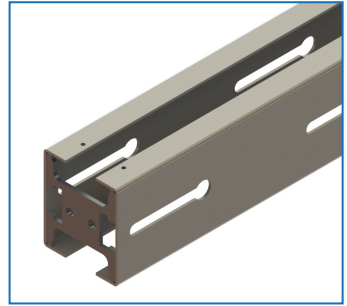
Note:

- Cleated Chain not suitable for Driven Roller & Free Roller.

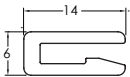
## Conveyor Beam DS2



Item Code	Weight	Supply
DS2 CB 2.4	6.2 kg	2.4 m

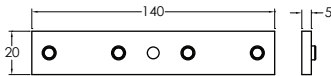


## Accessories DS2



### Slide Rail

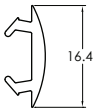
Item Code	Material	Colour	Weight	Supply
MS SR 25	HDPE	Pure White	1.2 kg/roll	25m/roll
MS SR 25A	Anti-Static	Grey	1.2 kg/roll	25m/roll
MS SR 25U	UHMW-PE	Semi-Transparent White	2.7 kg/roll	25m/roll
MS SR 25P	PVDF	Natural White	2.7 kg/roll	25m/roll



### Connecting Strip

Item Code	Weight	Supply
DA CS 20x140	1.5 kg	10 pcs/pkt

- 4 pcs M8 set screw included.



### T-Slot Cover

Item Code	Material	Colour	Weight	Supply
MB SC 25T	TPE	Grey	1.5 kg/roll	25m/roll
MB SC 25P	PVC	Light Grey	1.3 kg/roll	25m/roll



### Rivets

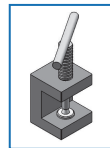
Item Code	Weight	Supply
MA RR 3	0.02 kg	50 pcs/pkt

Material: Aluminium



### Slide Rail Cutter

Item Code	Weight	Supply
MA SC	0.5 kg	1 pc



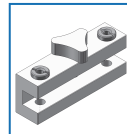
### Rivet Crimping

Item Code	Weight	Supply
MA RC	0.13 kg	1 pc



### Slide Rail Mounting Tool

Item Code	Weight	Supply
MS2 SRA	0.4 kg	1 pc



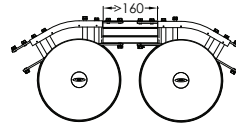
### Slide Rail Drill Fixture

Item Code	Weight	Supply
MA SRF	0.24 kg	1 pc

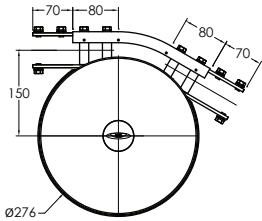
Please consult MODU representative for further information and assistance.

Units: Dimension (mm)

## Horizontal Wheel Bends DS2



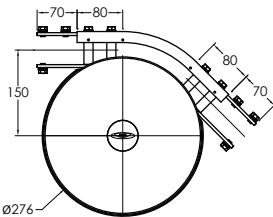
Minimum straight section for all wheel bend connection.



### Wheel Bend, 30°

Item Code	Weight	Supply
DS2 BW 30R150	2.6 kg	1 set

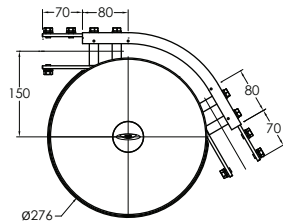
Effective track length:  
0.24m 1-way (0.48 m 2-way)  
Tolerance:  $\pm 2^\circ$   
- Connecting strip and screw included.



### Wheel Bend, 45°

Item Code	Weight	Supply
DS2 BW 45R150	2.7 kg	1 set

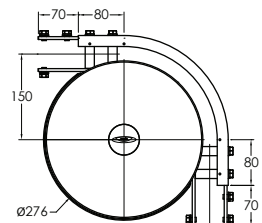
Effective track length:  
0.28m 1-way (0.56m 2-way)  
Tolerance:  $\pm 2^\circ$   
- Connecting strip and screw included.



### Wheel Bend, 60°

Item Code	Weight	Supply
DS2 BW 60R150	2.9 kg	1 set

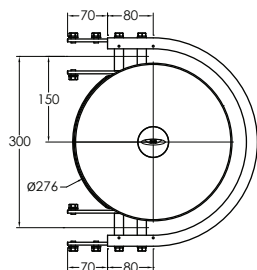
Effective track length:  
0.31m 1-way (0.62 m 2-way)  
Tolerance:  $\pm 2^\circ$   
- Connecting strip and screw included.



### Wheel Bend, 90°

Item Code	Weight	Supply
DS2 BW 90R150	3.1 kg	1 set

Effective track length:  
0.4m 1-way (0.8m 2-way)  
Tolerance:  $\pm 2^\circ$   
- Connecting strip and screw included.



### Wheel Bend, 180°

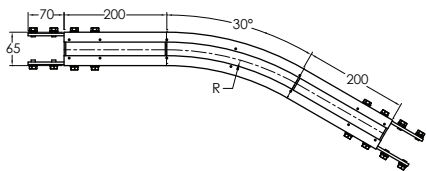
Item Code	Weight	Supply
DS2 BW 180R150	3.4 kg	1 set

Effective track length:  
0.63m 1-way (1.26 m 2-way).  
Tolerance:  $\pm 2^\circ$   
- Connecting strip and screw included.

Please consult MODU representative for further information and assistance.

Units: Dimension (mm)

## Horizontal Plain Bends DS2



### Horizontal Plain Bend, 30°

Item Code	R	Weight	Supply
DS2 BP 30R500	500 mm	2.1 kg	1 set
DS2 BP 30R700	700 mm	2.4 kg	1 set
DS2 BP 30R1000	1000 mm	2.9 kg	1 set

Effective track length:

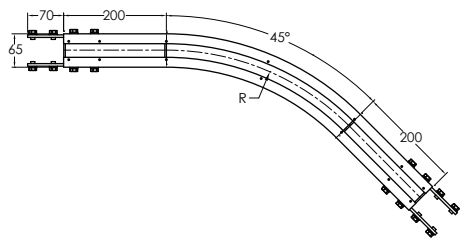
R500: 0.66m 1-way (1.32m 2-way)

R700: 0.77m 1-way (1.54m 2-way)

R1000: 0.92m 1-way (1.84m 2-way)

Tolerance:  $\pm 2^\circ$  & Radius:  $\pm 10$ mm

- Connecting strip and screw included.



### Horizontal Plain Bend, 45°

Item Code	R	Weight	Supply
DS2 BP 45R500	500 mm	2.5 kg	1 set
DS2 BP 45R700	700 mm	3.0 kg	1 set
DS2 BP 45R1000	1000 mm	3.7 kg	1 set

Effective track length:

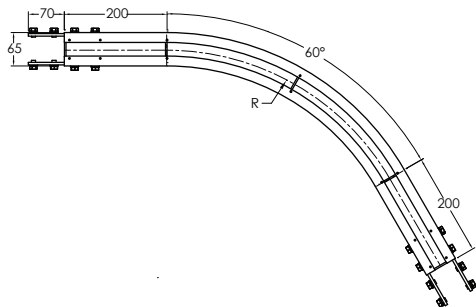
R500: 0.79m 1-way (1.58m 2-way)

R700: 0.95m 1-way (1.90m 2-way)

R1000: 1.12m 1-way (2.40m 2-way)

Tolerance:  $\pm 2^\circ$  & Radius:  $\pm 10$ mm

- Connecting strip and screw included.



### Horizontal Plain Bend, 60°

Item Code	R	Weight	Supply
DS2 BP 60R500	500 mm	2.9 kg	1 set
DS2 BP 60R700	700 mm	3.5 kg	1 set
DS2 BP 60R1000	1000 mm	4.5 kg	1 set

Effective track length:

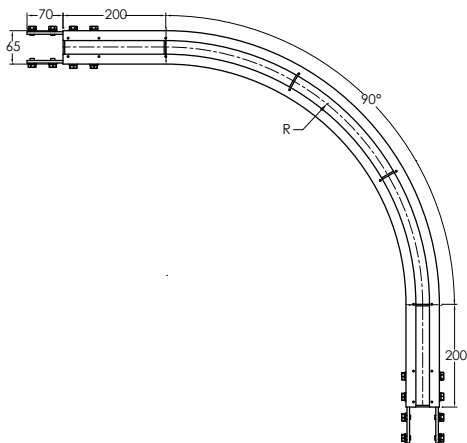
R500: 0.92m 1-way (1.84m 2-way)

R700: 1.13m 1-way (2.26m 2-way)

R1000: 1.45m 1-way (2.90m 2-way)

Tolerance:  $\pm 2^\circ$  & Radius:  $\pm 10$ mm

- Connecting strip and screw included.



### Horizontal Plain Bend, 90°

Item Code	R	Weight	Supply
DS2 BP 90R500	500 mm	3.7 kg	1 set
DS2 BP 90R700	700 mm	4.7 kg	1 set
DS2 BP 90R1000	1000 mm	6.1 kg	1 set

Effective track length:

R500: 1.19m 1-way (2.38m 2-way)

R700: 1.50m 1-way (3.00m 2-way)

R1000: 1.97m 1-way (3.94m 2-way)

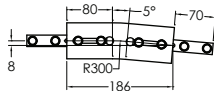
Tolerance:  $\pm 2^\circ$  & Radius:  $\pm 10$ mm

- Connecting strip and screw included.

Please consult MODU representative for further information and assistance.

Units: Dimension (mm)

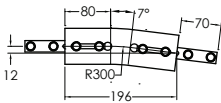
## Vertical Bends DS2



### Vertical Bend, 5°

Item Code	Weight	Supply
DS2 BV 5R300	0.6 kg	1 set

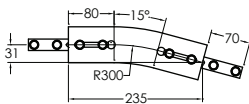
Effective track length:  
 R300: 0.19m 1-way (0.38m 2-way)  
 Tolerance:  $\pm 2^\circ$  & Radius:  $\pm 10$ mm  
 - Connecting strip and screw included.



### Vertical Bend, 7°

Item Code	Weight	Supply
DS2 BV 7R300	0.6 kg	1 set

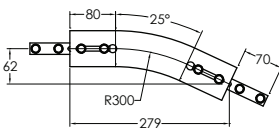
Effective track length:  
 R300: 0.20m 1-way (0.40m 2-way)  
 Tolerance:  $\pm 2^\circ$  & Radius:  $\pm 10$ mm  
 - Connecting strip and screw included.



### Vertical Bend, 15°

Item Code	Weight	Supply
DS2 BV 15R300	0.8 kg	1 set

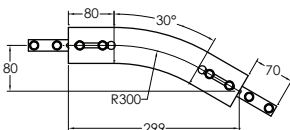
Effective track length:  
 R300: 0.24m 1-way (0.48m 2-way)  
 Tolerance:  $\pm 2^\circ$  & Radius:  $\pm 10$ mm  
 - Connecting strip and screw included.



### Vertical Bend, 25°

Item Code	R	A	B	Weight	Supply
DS2 BV 25R300	300 mm	62 mm	279 mm	0.9 kg	1 set
DS2 BV 25R1000	1000 mm	128 mm	575 mm	1.9 kg	1 set

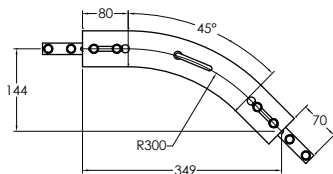
Effective track length:  
 R300: 0.29m 1-way (0.58m 2-way)  
 R1000: 0.60m 1-way (1.20m 2-way)  
 Tolerance:  $\pm 2^\circ$  & Radius:  $\pm 10$ mm  
 - Connecting strip and screw included.



### Vertical Bend, 30°

Item Code	R	A	B	Weight	Supply
DS2 BV 30R300	300 mm	80 mm	299 mm	1.1 kg	1 set
DS2 BV 30R1000	1000 mm	174 mm	649 mm	2.5 kg	1 set

Effective track length:  
 R300: 0.32m 1-way (0.64m 2-way)  
 R1000: 0.68m 1-way (1.36m 2-way)  
 Tolerance:  $\pm 2^\circ$  & Radius:  $\pm 10$ mm  
 - Connecting strip and screw included.



### Vertical Bend, 45°

Item Code	R	A	B	Weight	Supply
DS2 BV 45R300	300 mm	145 mm	349 mm	1.3 kg	1 set
DS2 BV 45R1000	1000 mm	350 mm	844 mm	2.9 kg	1 set

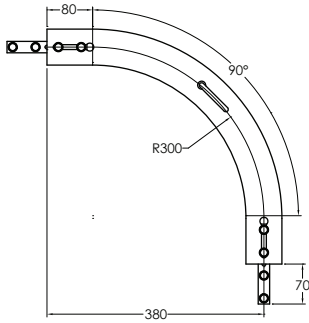
Effective track length:  
 R300: 0.40m 1-way (0.80m 2-way)  
 R1000: 0.95m 1-way (1.90m 2-way)  
 Tolerance:  $\pm 2^\circ$  & Radius:  $\pm 10$ mm  
 - Connecting strip and screw included.

Please consult MODU representative for further information and assistance.

Units: Dimension (mm)



## Vertical Bends DS2 (Continued)



### Vertical Bend, 90°

Item Code	R	B	Weight	Supply
DS2 BV 90R300	300 mm	380 mm	2.0 kg	1 set
DS2 BV 90R1000	1000 mm	1080 mm	5.4 kg	1 set

Effective track length:

R300: 0.63m 1-way (1.26m 2-way)

R1000: 1.73m 1-way (3.46m 2-way)

Tolerance:  $\pm 2^\circ$  & Radius:  $\pm 10\text{mm}$

- Connecting strip and screw included.

Note:

- Non-Standard Vertical Bend also available in PE and Stainless Steel with minimum radius 300mm.

