Simplicity · Solutions











MODU M Series Conveyor

Thermoplastic Chain with Aluminium Frame Conveyor System

		Page
1.	Application Photos AP	AP-1 - AP-10
2.	Technical Reference <i>TR</i>	TR-1 - TR-20
3.	Conveyor System MS2	MS2-1 - MS2-13
4.	Conveyor System MM3	MM3-1 - MM3-13
5.	Conveyor System ML2	ML2-1 - ML2-12
6.	Conveyor System MX2	MX2-1 – MX2-10
7.	Conveyor System MT2	MT2-1 – MT2-6
8.	Conveyor System MR2	MR2-1 - MR2-6
9.	Conveyor System MF2	MF2-1 – MF2-6
10.	Conveyor Guide MG	MG-1 - MG-9
11.	Structural System MB	MB-1 - MB-11
12.	Conveyor Accessories MA	MA-1 - MA-6

MODU D Series Conveyor

Thermoplastic Chain with Stainless Steel Frame Conveyor System

		Page
1.	Conveyor System DS2	DS2-1 – DS2-9
2.	Conveyor System DM3	DM3-1 – DM3-15
3.	Conveyor System DL2	DL2-1 – DL2-10
4.	Conveyor System DX2	DX2-1 – DX2-9
5.	Conveyor System DT2	DT2-1 – DT2-5
6.	Conveyor System DR2	DR2-1 – DR2-5
7.	Conveyor System DF2	DF2-1 – DF2-5
8.	Conveyor Guide DG	DG-1 - DG-5
9.	Structural System DB	DB-1 - DB-4
10.	Conveyor Accessories DA	DA-1 - DA-3
		Page
1.	Special Devices SD	SD-1 - SD-5
2.	Special Equipment SE	SE-1 - SE-4
3.	Tools <i>TL</i>	TL-1 - TL-3
4.	Installation Manual <i>IM</i>	IM-1 - IM-15

5. Maintenance Manual **MM**

© Copyright MODU System 2016

The contents of this catalogue are the copyright of MODU System and may not be reproduced without writen permission from the company. Every care has been taken to ensure the accuracy of the information contained in this catalogue but however, no liability can be accepted for any errors or omissions. MODU System reserves the right to make changes at any time.

Patents

Please Econsid PMODIMPELI Essentiative rote tradition particule signal assistance.



МΜ

MM-1 - MM-15



Tea Cereal Metal Cans Paper Cans Confectionery Margarine Snack

- Biscuits Glass Bottles Soft Drinks Ice Cream Sugar Health Drinks Juices
- Potato & Corn Crisp Chocolate Powder Yoghurt Milk Powder Instant Noodles



High-Speed Food Canned Production Line



Bottle Production Line Intergrated with Gripper Conveyor



Cleated Conveyor for Biscuit Packaging



Packing Line for Teabags



Incline Friction Conveyor for Cartons



Puck Handling System for Fruits Sorting Line

Please consult MODU representative for further information and assistance.

МΜ



Personal Product, Pharmaceutical & Chemical Industry

Soap Bars Body Lotions Toothpaste Health Supplements Aerosols Puck Handling Sanitary Napkins Powder & Liquid Detergent Medical Dispensers Eye Care Products Shower Creams Hair Care Products



Shampoo Depucking System



Penicillin Production Line



Bottles Production Lines





AP-2



Simplicity . Solutions





Conveyor for Personal Product

Vertical Gripper Conveyor



Conveyors for Dish Washing Liquid

Electronic & Electrical Industry

Batteries Audios & Videos Mobile Phones Liquid Crystal Displays (LCD) Compact Disks Electronic Components Hard Disks-Substrates Solar Panels



Conveyor Lines for Hard Disc



Conveyor Lines for Part Assembling



Anti-Static Conveyor Chain

Please consult MODU representative for further information and assistance.



Hard Disc Substrate Production Line



Conveyor Line for Multi Electronic Components



Simplicity . Solutions

Automotive & Machined Parts Industry

Air Conditioning Compressors Gears Door Winding Sets Bearings-Hard Disk Casings Oil Filters



Automotive Part Assembly



Conveyor System & Robotic Palletizing



Automotive Oil Filter Line Conveyo Please consult MODU representative for further information and assistance.



Bearing Assembly Line



Conveyor for Machined Part Assembly



Paper Converting

Wrapped Bundles Paper Towel Wrapped Bags Bathroom Tissues



Vertical Diverter & Conveyor System for Tissue Rolls



Conveyor System Facial Tissue in a Box



Paper Converting Lines



Conveyor for Diaper line



Kitchen Towel Line with Quick Adjust Side Guide

Please consult MODU representative for further information and assistance.



Optical Lens Industry

Spectacle Lens Camera Lens Binocular Lens All kind of different type lenses



Friction Chain Decline up to 25°



Tray Distribution



Complete Distribution System



Automatic Optical Tray De-palletizing System

Please consult MODU representative for further information and assistance.



Optical Tray Production Line





Alpine & Storage System

The alpine conveyor system consists of multiple layers of conveyors that are stacked above each other. It is used for buffer processes, storage tower or as an accumulation and incline or decline to or from overhead transport system.



Alpine Conveyor for Puck Storage



Alpine Conveyor for Soft Packs



Stainless Steel Alpine Conveyor for Tin Can



Gripper Elevator / Lowerator & Related Machines



360° Gripper for Empty PET Bottle



Stainless Steel Gripper for Tin Can Handling



Gripper Conveyor System Intergrated with Can Cleaner to Remove Dust and Particles from Can.



Bottle Firmly Grip at Lowerator



S-Flow Gripper Conveyor to Elevate Carton Boxes

Please consult MODU representative for further information and assistance.





Accumulation Conveyor

Accumulation conveyor provides large storage capacity. The accumulator stores products to create mass buffering to accommodate other processes.



Complete Accumulation for Composite Can



Accumulation Conveyor for Bottling Line



Bi-directional Accumulation Table

Please consult MODU representative for further information and assistance.





Stainless Steel Conveyor System



Food Processing Line



Stainless Steel Conveyor System



Packed food processing line



I V Fluids production line



Cooking oil production line



Stainless Steel Conveyor for Wet Environment

Please consult MODU representative for further information and assistance.





Composite Can Handling



Gripper Type Composite Can Cleaner



Complete Accumulator For Composite Can



Upender Simulation

Please consult MODU representative for further information and assistance.





Composite Can Cleaner



Combined Polycord with Upender.



Upender Simulation





Carton Handling



Food Processing Line



Friction Incline Conveyor



Continuous Carton Elevator



Pneumatic Traffic Controller for Merging



Roller Top Conveyor for Carton Accumulation



Gripper Conveyor for Carton Elevation

Please consult MODU representative for further information and assistance.

Units: Dimension (mm)





Technical Reference TR

Please consult MODU representative for further information and assistance.

TR-1



The Basic MODU Conveyor System

Straight Conveyor

MODU System M Series Conveyor System is based on aluminium profiled beam, ranging from 65mm to 609mm width, guiding a plastic chain. This plastic chain travels on low-friction plastic extruded slide rails. The products that are to be conveyed ride directly on the chain, or on pallets depending on application. Guide rails on the sides of the conveyor make sure that the products stay on track. Optional drip trays can be provided under the conveyor track in certain cases where the floor can be kept free from waste fluids.

Drive Units & Idler Ends

There are various types of drive units that are available to move the conveyor chain as mentioned below:

- . End Drive Units pull the chain from one end of the conveyor. The chain returns on the bottom of the conveyor beam, passing through an idler end at the other end.
- Intermediate Drive Units are located at an intermediate point of the conveyor, having an idler end at both ends of the conveyor.
- · Catenary Drive Units are used in applications where chain running on the bottom track is either not desired or not possible. e.g.: closed loop conveyor.
- Combined Drive Units are those that have a drive unit and an idler end together in one unit. This is used in areas where transfer from drive unit of one conveyor to another of the same size is required. The transfer area is provided with either gravity transfer rollers or powered transfer rollers depending on product type and length.
- Suspended Drive Units are used when a number of parallel conveyors are placed together. It is used when space becomes a limitation.
- Horizontal Wheel Bend Drive Units are suitable for endless conveyor without a return chain.

Bends

MODU System provides horizontal and vertical bends to cover many applications

- Horizontal Wheel Bend The bend force is taken by a free wheel which lower and greatly reduces chain pull. The wheel bend is much compact than plain bends. Wheel bend are recommended whenever possible.
- Horizontal Plain Bend For larger radius, horizontal plain bend is used as an alternative.
- Vertical Bend To achieve a change of direction in the vertical direction.

Guides

Guides are provided along the conveyor in order to hold the products in position while in motion. The guide rails keep the products from falling off from both sides of the conveyor, whereas the guide rail brackets hold these guide rails in position.

Support

The various components for conveyor support are as follows:

- Support Feet aluminium, mild steel support feet or foot caps.
- Support Beams aluminium extruded profile in 40x40mm and 80x80mm
- Beam Support Brackets to connect conveyor beam to support beam

Please consult MODU representative for further information and assistance.



Technical Reference TR

Basic System Selection

MODU System provides seven (7) diverse plastic chain conveyor systems. All conveyor systems can be effortlessly assembled with standard tools. To select the right conveyor size for your application, consider the following:

- Product Dimensions A product can have a width which is two to three times the width of the chain, provided the centre of gravity is located at the centre of the product. For this kind of application, extra supporting guide rails will be required and also proper testing is recommended.
- Product Weight The product weight plays an important role in the selection of chain size since each chain has a different value for its maximum traction force. Traction force calculation is required when there are several heavy products are to be conveyed, and the traction force will be increased further if the products are accumulated on the conveyor.
- · Conveyor Functions Available Most of the conveyor functions are available in all the seven (7) conveyor sizes (MS, MM, ML, MX, MT, MR and MF). But there are differences with regard to the chain types, drive unit and idler unit variants.

Floor Space Available - Depending on the available floor space, there will be a requirement for the smallest conveyor possible.

· Compatibility With Other Machines - In certain applications, interfacing and integrating with other automation equipments can be made much easier by using one of the MODU System Conveyor system sizes rather than other sizes.

D Series Conveyor

MODU System's stainless steel conveyor system comprises of distinct DS2, DM3, DL2 and DX2 streamlines assembly and installation time, which allows rapid and relaxed line modifications. MODU stainless steel conveyors can function easily at high speeds without lubrication.

Our Conveyor's modular design comprehends trouble-free line configurations, site installation and maintenance making them cost effective and simple to use.

It is designed to run standard MODU System chain widths 63 mm (MS2), 83 mm (MM3), 140 mm (ML2) and 225 mm (MX2). Just as the aluminium frame conveyors, the stainless steel conveyor offeres multi-flex capability. From drive unit to idler end unit, these conveyors frame are built 100% from stainless steel, in order to meet the most stringent demands of customers.

The D Series conveyors are designed with similar concept as M Series conveyor, they are easy to install & reconfigure, flexible and reliable for your daily operation in production floor.

The four types of stainless steel conveyors available are suitable for a wide range of applications:

- Applications in the food processing industry, where aggressive cleaning agents must be used for hygiene . reasons
- Applications in the pharmaceutical industry, where hygiene is extremely important
- Applications in the cosmetics industry
- Applications in industries where cleanliness and quick and easy cleaning is essential.

Benefit of our new D series

- Minimum dust accumulation thus easy to be clean.
- Low noise level and low power consumption.
- Able to be integrate with other application and device such as sensors and diverters.
- Flexible to install and match with site arrangement layout.

Please consult MODU representative for further information and assistance.



Materials

Acetal Copolymer, POM		
(PolyOxyMethylene) Conveyor Chain		
Acetal Copolymer, POM PERMASTAT (PolyOxyMethylene) Conveyor Chain, Ant	i -static	
Acetal Homopolymer Delrin, Kevlar fiber reinforced Conveyor Chain, Kev	vlar	
Conveyor Chain		
Polypropylene, PP Chain guards		
Wheel cap		
End caps	End caps	
Angle Brackets		
Beam Support Brack	ets	
Conveyor Beam		
Aluminium, extruded & anodised Vertical Bends		
AA 6063-T6 (All Straight Sections) Guide Rail		
AA 6063-T5 (Bend Sections) Guide Rail Distance	Tube	
Support Beam	Support Beam	
Drive/Idler Side Plat	e (ML2)	
Drip Tray		
Polyethylene, PE 500 (HDPE) Vertical Bend (speci	ial case)	
Polyamide injection, PA 6 Pivot for Chain		
Guide Rail Bracket		
Guide Rail Support		
Polyamide, glass fibre reinforced, PA 6 GF30%	e (MS2 & MM3)	
vvneei Bena vvneei	Wheel Bend Wheel	
Drive Sprocket		
Idler Roller (MS2)		
High Density Polyethylene, HDPE		
Guide rail & Machining sprocket (MM3,ML2 & MX2)		
Cast Nylon (MIN3, ML2 & MA2) Chain Return Guide		
Thermoplastic Elastomer		
TPE 60A	op Chain	
T-slot cover		
Inserts for Gripper Cl	hain (Medium)	
TPE 73A Inserts for Gripper Ch	hain (Hard)	
TPE 50A Inserts for Gripper Ch	hain (Soft)	
TPU Inserts for Gripper Pa	ad, Wedge Gripper	
UHMW-PE Slide Rail		
OHMW-PE Slide Rail PVDF Slide Rail		

Please consult MODU representative for further information and assistance.



Resistance to chemicals:

MODU System components are basically can withstand continuos contact with most chemicals. However, it is recommended to avoid: Acids with pH lower than 4 & Bases with pH higher than 9.

The following table specifies the resistance of several materials used in the conveyor on selected chemicals, valid for temperature range up to the maximum of 60°C (150°F) and it is to be considered as guideline only. Furthermore, precautions should be taken when using cleaning agents. If you are in doubt on the materials to withstand your special environment, you should go for chemical test or contact our local dealer.

Material	Acetal resin	Polyamide	Hi-density polyethylene	Elastomer 70A	TPU	Aluminium
	POM	PA	HDPE			AL
Acids:						
Acetic acid	3	4	3	-	-	2
Benzoic acid	3	4	1	-	-	4
Citric acid	3	2	2	-	-	
Chromic acid	4	4	1	-	-	3
Hydrofluoric acid	4	4	1	-	-	4
Hydrochloric acid	4	4	1	-	-	3
Hydro cyanic acid	4	4	2	-	-	1
Nitric Acid	4	4	4	-	-	3
Phosphoric acid	4	4	1	-	-	3
Sulphuric acid	4	4	2	1	1	3
Fartaric acid	3	2	1	-	-	1
Basic compounds:						
Ammonia	1	2	1	-	-	2
Calcium hydroxide	1	2	1	-	-	4
Caustic soda	1	2	1	1	1	3
Potassium hydroxide	1	2	1	-	-	4
otassium nyutoxide	1	2	1			-
Salts: Potassium bicarbonate	2	2	2		_	1
Potassium bicarbonate Potassium permanganate	2	4	2	-	-	1
	2	2	2	-	-	4
Sodium cyanic	2			-	-	
Acid salts		3	1	-	-	-
Basic salts	1	2	1	-	-	-
Veutral salts	1	2	1	-	-	-
Gases:						
Carbon dioxide	3	1	1	-	-	1
Carbon monoxide	2	1	1	-	-	1
Chlorine	2	4	3	-	-	1
Hydrogen sulphide	3	1	2	-	-	1
Sulphur dioxide	2	3	-	-	-	1
Organic compounds &						
solvents	1	1	4	3	3	1
Acetone	1	2	4	3	3	1
Benzene						
Butyl alcohol	2	2	2	-	-	1
Carbon disulphide	1	2	3	-	-	1
Chloroform	1	3	4	-	-	-
Ethyl acetate	1	2	2	-	-	1
Ethyl alcohol	1	2	1	-	-	1
Heptane	2	1	2	-	-	-
Methyl alcohol	1	2	1	-	-	2
Methyl ethyl ketone	1	1	4	4	4	2
Nitrobenzene	2	2	3	-	-	1
Phenol	3	4	2	-	-	1
Others:						
Beer	1	2	2	_	-	1
Fruit juices	1	2	3	_	-	2
Gasoline	1	2	2	_	-	1
Milk	1	1	2	-	-	1
Oil		1	2	-	-	1
				-	-	
Vegetable juices	1	2	3	-	-	2
Vinegar Water	1	2	3	-	-	1
N OTOR	1	2	2	-	-	2

Please consult MODU representative for further information and assistance.

Units: Dimension (mm)

Legend Very good

Good Moderate resistance

Not recommended



Chain tension calculations

Calculating the maximum tension of the chain is important so that the drive unit capacity and tension limit of conveyor chain can be determined before deciding on a conveyor configuration.

Drive unit capacity limit

The required motor output power P depends on

- Traction force F
 - Chain speed v

The following equation applies:

```
P[W] = 1/60 \times F[N] \times v[m/min]
```

The maximum permissible traction force of the various drive units is shown in the following table:

Drive Unit Type		Ma	Maximum Traction Force in Newton (N)				
Drive Onic Type	MS2	MM3	ML2	MX2	MT2	MR2	MF2
Front	600	1000	1300	1300	1600	1600	1600
Combined	600	1000	1300	1300	1600	1600	1600
Intermediate	-	200	-	-	-	-	-
Wheel	-	800	1000	-	-	-	-
Catenary	-	500	-	-	-	-	-
Suspended	500	1000	1300	1300	-	-	-

Chain tension limit









Please consult MODU representative for further information and assistance.



Service factor

The maximum permissible chain tension depends on the number of conveyor starts and stops per hour. The service factor is used to de-rate for high frequency of starts and stops and for high chain speeds. Divide the tension limit obtained from the graphs by the service factor to get the de-rated tension limit. A high service factor can be reduced by providing a soft start/stop function.

Operating conditions	Service factor
Low speed (<15m/min) & max. 1 start/stop an hour	1
Low speed & max. 10 start/stop an hour	1.2
Low speed & max. 20 start/stop an hour	1.4
High speed (>15m/min) maximum 20 start/stop an hour	1.6

8° incline is the maximum a product could convey for plain chain whereas friction top chain could take up to 30°. It is not advisable to operate a conveyor with more than 20 start/stop an hour. If your application must operate this way, please consult our MODU System dealer.

Important

The chain tension calculations are made to ensure that the capacity of the drive unit is sufficient. The calculations do not take into account the increased wear resulting from the higher friction in plain bends.

Chain tension

The tension building up in the chain can be divided into several components: Diagram A, horizontal without accumulation.



Diagram B, incline without accumulation.



Gravity force acting on products and chain in inclines

$$F = L(q_c + q_p)(\mu_r \cos\beta + \sin\beta)$$

Diagram C, with accumulation.



Please consult MODU representative for further information and assistance.

Units: Dimension (mm)



Traction force

The traction force F required to move the chain depends on the following factors:

Conveyor lengthL Product gravity load per meter
Transportq _p
Accumulationq _{pa}
Chain gravity load per mq _c
Friction coefficient
Between chain and slide rail μ_r
Between chain and products μ_p
Bend factor, α° plain bend (hor./vert.)k α
Inclination angleβ

Chains properties:

	MS2	MM3	ML2	MX2	MT2	MR2	MF2
Chain width	63mm	83mm	140mm	220mm	315mm	435mm	585mm
Tensile strength at 20°C (POM)	3000N	5000N	6000N	6000N	7500N	7500N	7500N
Tensile strength at 20°C (PP)	-	2000N	2600N	-	-	-	-
Maximum working tension (POM)	600N	1000N	1300N	1300N	1600N	1600N	1600N
Maximum working tension (PP)	-	600N	800N	-	-	-	-
Working temperature	-10°C to 60°C						
Recommended running speed	3-50 m/min						
Max.conveyor length (depend on layout)	30m						
Minimum turning radius	150mm	160mm	200mm	500mm	900mm	1200mm	1700mm
Link spacing (Pitch)	25.4mm	33.5mm	44.5mm	44.5mm	45mm	45mm	45mm
Chain weight (POM plain chain)	0.75kg/m	1.3kg/m	2.5kg/m	3.4kg/m	3.8kg/m	5.28kg/m	7.08kg/m
Chain weight (PP plain chain)	-	-	-	-	-	-	-
Chain weight (POM friction chain)	0.75kg/m	1.42kg/m	1.91kg/m	3.6kg/m	-	-	-
Chain weight (PP friction chain)	-	-	-	-	-	-	-
Chain weight (gripper chain)	-	1.47-1.87kg/m	-	-	-	-	-

Chain strength and expansion vs. temperature:

Temperature °C	Tensile strength factor	Linear expansion %
-20	1.2	-0.4
0	1.1	-0.2
20	1.0	0
40	0.9	0.2
60	0.8	0.5
80	0.6	0.8
100	0.5	1.0
120	0.3	1.3

Friction Coefficients, between chain and slide rail is 0.15-0.20. The friction coefficients between chain and product is as follows:

	Plain chain	Friction top	Roller top
Steel (dry)	0.15-0.25	0.60-0.70	0.05-0.06
Steel (lubricated)	0.10-0.15	-	-
Glass (dry)	0.15-0.20	0.50-0.60	0.05-0.06
Glass (lubricated)	0.10-0.15	-	-
Aluminium	0.15-0.25	0.60-0.70	0.06-0.07
Acetal resin	0.15-0.25	0.60-0.70	0.05-0.07
Wood & paper	0.15-0.30	0.60-0.70	0.07-0.08

Please consult MODU representative for further information and assistance.





Bend factors, must be considered and calculated at every plain bend. It depends on the angle of the bend in radians and the friction coefficient m between chain and slide rails. In application when the conveyor is dry The bend factor is important to calculate since the frictional force of a plain bend depends not only on weight of then chain and product but also on the actual tension through the bend. The result is an additional pressure force of the chain towards the convevor beam directed toward the centre of the bend. Since the chain tension varies throughout the conveyor, calculation of this additional pressure force is complicated. The highest values are present at the pulling side of the driveunit and virtually zero at the chain inlet. Using bend factor is the easiest way of including added friction in the plain bend for both horizontal and vertical into the calculation. Always use wheel bend unless for exceptional cases. If plain bend is a must, the combined plain bends angle should not more than 180°, unless it is a very short and light application.`` 60° 90° 1.4 1.6

Basic calculation procedures

Bend type (vertical or horizontal plain bend)

and clean the friction coefficient is close to 0.2

MODU chains tension is determined by use of consecutive calculations. A number of elementary cases can be combined to cover most conditions. When calculating the chain tension, the guide can be followed.

30°

1.2

45°

1.3

- Divide the conveyor

Bend factor kg

Divide the conveyor into a number of elementary sections. Start at the end farthest away from the drive unit. Each section should consist of a straight piece of conveyor up to and including the next plain bend (horizontal or vertical).

Wheel bends are considered equivalent to straight sections. This means that a conveyor without plain bends can be treated as one elementary section. Once the sum of the forces are calculated, the sum of forces are then multiplied by bend factor, ka.

If the conveyor contains no plain bends, the whole conveyor can be treated as one straight section with a total length of L from idler end unit to drive unit.



If the tension is too high

If the calculated traction force exceeds the chain capacity or the drive unit capacity, some modification will be necessary.

- Shorten the conveyor In some cases, the layout could be changed so that the conveyor becomes shorter.
- · Divide the conveyor into two separate conveyors with individual drive units.

Please consult MODU representative for further information and assistance.





Example 1: Horizontal conveyor



Horizontal conveyor with two plain bends

The first example is a horizontal conveyor with three straight parts and two plain bends (one 45° and one 60°).

Conveyor data:

Section 2

Without accumulation:

Conveyor Series	MM3
Conveyor speed, v	15 m/min
Start/stops	30 /hour
Total length	15m
Friction coefficient, μ_r	0.2
Friction coefficient, μ_p	0.2
Load due to chain weight, q	12.75 N/m
Load due to product weight	
Transport (q_p): Five 1 item (1kg/m)	45 N/m
Accumulation (q_{pa}): Ten item (1kg/m)	98 N/m

Divide the conveyor

Start by dividing the conveyor into three elementary sections. Then start at the section farthest away from the drive unit "pull" side.

Section 1

Without accumulation:

$F_{1} = \{ F_{0} + L_{1}(q_{c} + q_{p}).\mu_{r} \}.k\alpha_{1}$ $F_{1} = \{ 0 + 4.6 (12.75 + 45) 0.2 \} 1.3$ $F_{1} = 69.06N$	$\begin{split} F_2 &= \{ \ F_1 + L_2(q_c + q_p).\mu_r \}.k\alpha_2 \\ F_2 &= \{ \ 69.06 + 5.5 \ (12.75 + 45 \) \ 0.2 \ \} \ 1.4 \\ F_2 &= 185.62N \end{split}$
With accumulation: $F_1' = \{ F_0 + L_1 [(q_c + q_{pa}). \mu_r + q_{pa} . \mu_p] \}.k\alpha_1$ $F_1' = [0 + 4.6 (12.75 + 98) 0.2 + (98) (0.2)] 1.3$ $F_1' = 249.67N$	With accumulation: $F_{2}' = \{ F_{1} + L_{2} [(q_{c} + q_{pa}). \mu_{r} + q_{pa} . \mu_{p}] \}.k\alpha_{2}$ $F_{2}' = \{ 249.67 + 5.5 [(12.75 + 98) 0.2 + (98) (0.2)] \} 1.4$ $F_{2}' = 671.01N$
Section 3 Without accumulation:	With accumulation:

	with accumulation.
$F_3 = F_2 + L_3(q_c + q_p).\mu_r$	$F_3' = F_2 + L_3[(q_c + q_{pa}). \mu_r + q_{pa} . \mu_p]$
F ₃ = 185.62 + 4.9 (12.75 + 45) 0.2	$F_{3}' = 671.01 + 4.9 (12.75 + 98) 0.2 + (98) (0.2)$]
F ₃ = 242.22N	F ₃ ' = 875.59N

Comparison with rating

The result of the calculations can now be compared with the maximum permissible chain tension.

Tension limit

The maximum chain tension for a 15m MM3 conveyor is 1000 N (diagram 1, page TR6) and for a conveyor speed of 15 m/min is 900 N (diagram 2, page TR6). The lower value, 900 N, is the basic tension limit. With a start/stop frequency of 30 per hour, the service factor is 1.6 (see table on page TR7). Therefore, the basic tension limit must be de-rated to 900/1.6 = 562.5 N.

Summary

a) Without accumulation: F3 = 242.22 N (<562.5 N). This conveyor will operate with a chain tension well below the maximum permissible value.

b) With accumulation on the whole of L3:
F3' = 875.59N (>562.5 N)
This conveyor will not operate as the chain tension is higher than the maximum permissible value.

Please consult MODU representative for further information and assistance.

Units: Dimension (mm)

TR-10



Example 2: Inclined conveyor

Inclined conveyor

The second example is an inclined conveyor with three straight parts and two 60° vertical bends.

Conveyor data: **Conveyor Series**

Start/stops

Total length

Conveyor speed, v

Friction coefficient, μ_{m} Load due to chain weight, q

Load due to product weight

Transport (q): Five 1 item (1kg/m)



Section 1

Gravity forces in the bend are ignored $F_1 = \{ F_0 + L_1(q_c + q_p) | \mu_r \} k\alpha_1$ $F_1 = \{0 + 5 (24.5 + 60) 0.2\} 1.3$

F₁ = 109.85N

Section 2

 $F_{2} = \{F_{1} + L_{2a}(q_{c} + q_{p}) (\mu_{r} \cos\beta + \sin\beta) + L_{2b} (q_{c} + q_{p}) \mu_{r} \} k\alpha_{1}$ $F_2 = \{109.85 + 2.05 (24.5 + 60) (0.2 \times 0.71 + 0.71) + 0.95 (24.5 + 60) 0.2\}$ F₂ = 355.54N

Section 3

 $F_3 = F_2 + [L_3(q_c + q_p).\mu_r]$ $F_3 = 355.54 + [4(24.5 + 60) 0.2]$ $F_3 = 423.14N$

Comparison with rating

The result of the calculations can now be compared with the maximum permissible chain tension.

Tension limit

The maximum chain tension for a 12m ML2 conveyor is 1500 N (diagram 1, page TR6). The maximum chain tension for a conveyor speed of 5 m/min is also 1500 N (diagram 2, page TR6). With a start/stop frequency of 10 per hour the service factor is 1.2 (see table on page TR7). Therefore, the basic tension limit must be de-rated to 1500/1.2 = 1250 N.

Summary

V16.0

Since F3 is calculated to 423.14 N (<1250 N), this conveyor will operate with a chain tension well below the maximum permissible value.

Please consult MODU representative for further information and assistance.

AP

ML2

12m 0.2

5 m/min

10 /hour

24.5 N/m

60 N/m



Static electricity, the standard plastic materials used for convevors have low electrical conductivity. So, static electricity can build up in the conveyor. When a conveyor is running under normal environment (20°C and humidity 60%) without load, the static electricity build up should be around the following figures:

Above the driveunit	1800-2500V
Above the idler end	400-500V
Above the wheel bend	400-500V
Above the straight section	250-350V

Lower static electricity could be achieved by using our anti-static conveyor chain. In general, the static electricity reading can be as low as half or lower than the above readings. Environment humidity will affect the static electricity reading as well, for a guideline, the relative humidity should keep above 40%.

Sound level, normally, noise level is higher during the run-in period and around the area near the drive unit, idler end and bend. Generally, noise level will increase proportionally to the conveyor speed. Typically, the noise level reading in dB (A) 1m from the conveyor should be around the following:

	5 m/min	10 m/min	20 m/min	30 m/min	40 m/min
MS2	≈ 55	≈ 59	≈ 68	≈ 71	≈ 75
MM3	≈ 59	≈ 62	≈ 70	≈ 77	≈ 79
ML2	≈ 61	≈ 65	≈ 72	≈ 76	≈ 78
MX2	≈ 61	≈ 65	≈ 72	≈ 76	≈ 78
MT2	≈ 58	≈ 58	≈ 60	≈ 62	≈ 65
MR2	≈ 58	≈ 58	≈ 60	≈ 62	≈ 65
MF2	≈ 58	≈ 58	≈ 60	≈ 62	≈ 65

Component Guide

Type / Model	MS2	MM3	ML2	MX2	MT2	MR2	MF2
Drive	Front, Combined, Intermediate, Suspended	Front, Combined, Intermediate, Catenary, Wheel Bend, Suspended	Front, Combined, Intermediate, Suspended	Front, Combined	Front	Front	Front
Idler	End	End	End	End	End	End	End
Chain	Plain, Friction, Flock	Plain, Friction, Cleated, Gripper, Flocked	Plain, Friction, Cleated, Flocked	Plain, Friction	Plain	Plain	Plain
Horizontal Wheel Bend							
Radius 150mm	30°, 45°, 90°, 180°	-	-	-	-	-	-
Radius 160mm	-	30°, 45°, 90°, 180°	-	-	-	-	-
Radiuf 200mm	-	-	30°, 45°, 90°, 180°	-	-	-	-
Horizontal Plain Bend							
Radius 500mm	30°, 45°, 60°, 90°	30°, 45°, 60°, 90°	30°, 45°, 60°, 90°	30°, 45°, 60°, 90°	-	-	-
Radius 700mm	30°, 45°, 60°, 90°	30°, 45°, 60°, 90°	30°, 45°, 60°, 90°	30°, 45°, 60°, 90°	-	-	-
Radius 900mm	-	-	-	-	30°, 45°, 60°, 90°	-	-
Radius 1000mm	30°, 45°, 60°, 90°	30°, 45°, 60°, 90°	30°, 45°, 60°, 90°	30°, 45°, 60°, 90°	-	-	-
Radius 1200mm	-	-	-	-	-	30°, 45°, 60°, 90°	-
Radius 1700mm	-	-	-	-	-	-	30°, 45°, 60°, 90°
Vertical Bend							
Radius 300mm	5°, 7°, 15°, 25°, 30°, 45°, 90°	_	-	-	-	-	-
	30,43,50	5°, 7°, 15°, 25°,	-	-	-	-	-
Radius 400mm	-	30°, 45°, 90°	-	-	-	-	-
Radius 500mm	-	-	-	-	5°, 15°, 25°	5°, 15°, 25°	5°, 15°, 25°
			5°, 7°, 15°, 25°,	5°, 7°, 15°, 25°,			
Radius 1000mm	25°, 30°, 45°, 90°	25°, 30°, 45°, 90°	30°, 45°, 90°	30°, 45°, 90°	-	-	-

Please consult MODU representative for further information and assistance.



Motor data - 50 Hz motors

Parameter	Output	Output	Gear	Service	Conveyor Speed (m/min)						
	Speed	Torque	Ratio (i)	Factor	MS2 /	MM3 /	ML2 /	MX2 /	MT2	MR2	MF2
Motor Type	(rpm)	(Nm)	Katio (i)	(sf)	DS2	DS2 DM3 DL2 DL2			IVINZ	IVIFZ	
	33	41	39	1.0		13	.5			15.1	
SEW WA20 DR 63L4	53	30	25	1.3		21	7			24.3	
0.25kW, 3ph, 415VAC	67	26	20	1.4		27	.4			30.7	
0.25 kw, 5pn, 415 vAC	91	21	14	1.5		37	.2			41.7	
	127	16	10	1.6		51	9			58.3	
SEW WA30 DR 63L4	17	62	75	1.2		6	.9			7.8	
0.25kW, 3ph, 415VAC	27	50	48	1.4		11	0			12.4	
SEW WA30 DRS 71S4	71	39	20	1.8		2	9			32.6	
0.35kW, 3ph, 415VAC	96	30	14	2.0		39	.2			44	
0.33800, 301, 4130AC	135	23	10	2.2		55	5.1			61.9	
SEW SA37 DRS 71M4	72	60	19	1.2		29	.4			33	
0.55kW, 3ph, 415VAC	103	45	13	1.1		42	.1		47.2		
0.55 kw, 5pn, 415 vAC	135	35	10	1.4		55	.1			61.9	
SEW S47 DRS 71MA	21	167	67	1		8.	.6			9.7	
0.55kW, 3ph, 415VAC	42	100	32	1.6		17	.2			19.3	
SEW S47 DRS 80S4	99	64	14	1.7		40).4			45.4	
0.75kW, 3ph, 415VAC	131	49	11	2.2		53	.5			60.1	
	35	44	40	0.9		14	.3			16.1	
Motovario NMRV 040 71A4	70	27	20	1.5		28	.6			32.1	
0.25kW, 3ph, 415VAC	93	21	15	1.9		3	8			42.7	
	140	15	10	2.8		57	.2			64.2	
	47	81	30	1.0		19	.2			21.6	
Motovario NMRV 050 80A4	70	59	20	1.2		28	.6			32.1	
0.5kW, 3ph, 415VAC	93	46	15	1.6		3	8			42.7	
	140	32	10	2.2		57	.2			64.2	
Motovario NMRV 050 80B4	70	81	20	0.9		28	.6			32.1	
0.75kW, 3ph, 415VAC	93	63	15	1.2		3	8			42.7	
0.7 5KW, 5pH, 415VAC	140	44	10	1.6		57	.1			64.2	

eg. Code for Ordering Motor :-





Motor Brand

*standard terminal box will be place at 180° from shaft mounting (please see TR-14 for illustration)

Sprocket data

	MS2 / DS2	-	ML2 / DL2	MX2 / DX2	MT2	MR2	MF2
PCD, mm		130.00				146.00	
No. of teeth	16	12	11	11		18	

Please consult MODU representative for further information and assistance.

AP



МΜ

Standard Geared Motor



Please consult MODU representative for further information and assistance.

Units: Dimension (mm)



Track length definition

The following tables list the effective track lengths for various MODU System's components. These should be considered when determining how much conveyor chain is required in a system. The effective track length is the total length of chain required through a bend or drive unit. The value for twoway chain applies when the chain returns on the bottom side.

Front Drive Unit



Effective track length (m)

1	Series	MS2 / DS2	MM3 / DM3	ML2 / DL2	MX2	MT2 / MR2 / MF2
•	2-way chain	0.8	0.82	1.16	1.16	0.82

Combined Drive Unit

Effective track length (m)

Series	MS2 / DS2	MM3 / DM3	ML2 / DL2	MX2	MT2 / MR2 / MF2
2-way chain	1.32	1.63	2.19	2.19	-

Suspended Drive Unit



Effective track length (m)

MS2 / DS2 MM3 / DM3 ML2 / DL2

1.66

Series	MS2 / DS2	MM3 / DM3	ML2 / DL2	MX2	MT2 / MR2 / MF2
2-way chain	0.8	0.82	1.16	-	0.82
,					

MX2

-



2-way chain 1.66

Catenary Drive Unit Effective track length (m)

Series

Intermediate Drive Unit



Effective track length (m)								
Series	MS2 / DS2	MM3 / DM3	ML2 / DL2	MX2	MT2 / MR2 / MF2			
2-way chain	-	1.2	-	-	-			

Idler End Unit

Effective track length (m)

Series	MS2 / DS2	MM3 / DM3	ML2 / DL2	MX2	MT2 / MR2 / MF2
2-way chain	0.8	0.82	1.02	1.02	0.82



Units: Dimension (mm)



Please consult MODU representative for further information and assistance.

Installation of slide rail

It is very important to assemble slide rails correctly to ensure smooth system operation.



Please consult MODU representative for further information and assistance.





TR-17

Removal of convevor chain

- 1. Ensure that the power to the drive motor is disconnected.
- 2. Disengage the motor: there are various methods depending on the type of drive unit:
- 3. Split the chain by removing the steel pin from the pivot. Use chain pin insertion/removal tool.
- 4. Pull out the chain

Fitting the conveyor chain

Run a sample (approx. 0.3 m) of conveyor chain through the installation in the direction of the convevor. Check that the chain moves easily and correctly through the bends and idler ends.

Be careful that the first link of the chain does not damage the slide rails.

Chain: MODU System chains are made of Polyoxymethylene (POM), an engineering thermoplastic with excellent physical properties such as excellent rigidity, high abrasion resistance, low coefficient of friction, high heat resistance and superior finish.

Chain failures such as breakage, surging and high wear may occur if the actual chain pull is higher than the permissible chain limit.

Chain direction: MODU System chains have direction arrows moulded in each chain link. Please ensure all chains are running in the correct direction.

Broken chain: MODU System chain has excellent impact and tensile strength. A broken link is a sign that something is mechanically wrong with conveyor system. It's important to replace broken or damaged links as these will damage the slide rail or the chain guide at the drive unit.

Chain elongation: POM is an elastic material. In addition to the elastic elongation, the chain will exhibit elongation because of material creeping. The magnitude of chain elongation will depend on the chain tension. Chain elongation will accumulate at the bottom of the drive unit. Too much of the chain slack may cause high wear at the drive unit entry point. Chain slack of up to 150mm is acceptable during normal running but any slack longer than that is not advisable. The chain slack might also hit on any part below it and this depend on the drive unit configuration. For this case, the chain slack should be shortened much earlier. In normal case, chain should be shortened after run-in time of 40 hours. The next inspection should be made only after 200 hours of running and subsequently every 1600 hours. More frequent inspections are recommended if the convevor is long and on high load.

Inspection: Visually check the slide rail in horizontal and vertical bends after every 200 hours of operation. The chain can stay in place during the inspection. Replace any worn out slide rail. Remove the chain from the conveyor and inspect the slide rail carefully once every 1500 hours of operation. Check for any worn out slide rail and any other unusual condition and make necessary replacement. Conveyors should be cleaned periodically.

Drive unit: MODU System uses a number of different gear motor brands. Please follow the maintenance recommendation from the manufacturer

Propose Schedule: It is recommended to carry out maintenance every 3rd, 6th and 12th month and subsequently every 6th month depending on the running condition. Following are the recommended actions to be carried out:

Please consult MODU representative for further information and assistance.

Units: Dimension (mm)





MODU Simplicity . Solutions

First 3 months (running): The majority of chain stretch will occur in the first two weeks of continual running. At this time chain accumulation should be inspected and chain shorten if required. Also, majority of dusting will occur. Cleaning of the conveyor system at this time is recommended.

- shorten the chain.
- visual inspection on the running wear of the slide rail, chain, slide rail cap, sprocket, & chain guide.
- checking on any high wear part on the conveyor and rectify it when necessary.
- In paper converting industry or similar applications, clean up any paper accumulation that might block the smooth flow of the conveyor.
- check all gearbox for oil leaks.
- check the system for lose parts (sensors, guide rails, mounts, etc.) and tighten when needed.
- checking all parts joint for support structure, side guide and conveyor for loosen joint, rectify when necessary.

First 6 month:

- shorten the chain, if necessary.
- visual inspection on the running wear of the slide rail, chain, slide rail cap, sprocket, & chain guide.
- checking on any high wear part on the conveyor and rectify it when necessary.
- In paper converting industry or similar applications, clean up any paper accumulation that might block the smooth flow of the conveyor.
- check all gearbox for oil leaks.
- check the system for lose parts (sensors, guide rails, mounts, etc.) and tighten when needed.

First 12 month:

- shorten the chain, if necessary.
- visual inspection on the running wear of the slide rail, chain, slide rail cap, sprocket, & chain guide. .
- checking on any high wear part on the conveyor and rectify it when necessary. •
- In paper converting industry or similar applications, clean up any paper accumulation that might block • the smooth flow of the conveyor.
- check all gearbox for oil leaks.
- check the system for lose parts (sensors, guide rails, mounts, etc.) and tighten when needed.

Safety Considerations

When designing a conveyor system, it is necessary to consider certain aspects to get an operational installation, which is reasonably safe for all people involved in using and maintaining it.

Safequarding: Conveyors by nature presents a number of safety concerns. MODU System strongly recommends that all pinch and shear points as well as other exposed moving parts that can present a hazard to users are guarded. Cleated conveyor chains in particular present a greater risk of pinch and shear points than plain chain. When two or more pieces of equipment are interfaced, special attention must be given to the interfaced area to ensure proper guarding. For overhead conveyor, guards must be provided to ensure no products fall off the conveyor for any reason. The same applies to all incline, decline and vertical conveyors.

Gripper conveyor, elevator or lowerators should be fully covered with poly carbonate to a height of 2.4 metres. MODU System offers these guards as an option.

Please consult MODU representative for further information and assistance.



Part Number Guideline



M: Thermoplastic Chain with Aluminium Structure

Please consult MODU representative for further information and assistance.


Conveyor System MS2



Description

63mm width thermoplastic chain with aluminium frame conveyor system. Also available with stainless steel frame, please refer section DS2.

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

reonniour onuraoter	101100	
Chain Width		63 mm
Chain Pitch		25.4 mm
Chain Weight		0.8 kg/m
Chain Maximum Working Tension		600 N
May Dreduct Maight*	Horizontal Transport	15 kg
Max Product Weight*	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



Please consult MODU representative for further information and assistance.





Simplicity . Solutions

MS2-1

Chains MS2





63 5 Ο



* Other cleated height are available upon request.

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

/ 1000411141411411011	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 : Grey.
- 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

(eq. MS2 CC 3x10P 3p = Every 3rd link to be cleated). **Please consult MODU representative for actual chain weight.

				5
Item Code	Material	Colour	Weight	Supply
MS2 CC 3	POM	White	** kg/roll	3m/roll



Coue	in alei iai	Coloui	weight	Jug
CC 3	POM	White	** kg/roll	3m

Chain Accessories MS2



Stainless Steel Pin Chain Pivot Weight Supply Item Code Item Code Weight Supply MS2 PN M4x37 MS2 PV 10 pcs/pkt 0.01 kg 10 pcs/pkt 0.07 kg



Please consult MODU representative for further information and assistance.





Please consult MODU representative for further information and assistance.



Drive Units MS2 (Continued)

Combined Drive Unit

20



Please consult MODU representative for further information and assistance.



Drive Units MS2 (Continued)

Safety Cover for Direct Drive and Combined Drive (Option)

Short Safety Cover



- Material : Stain	less Steel	
Item Code	Weight	Supply
SC2 139	0.8 kg	2 pcs/set

Intermediate Drive Unit



Weight

13.0 kg

Supply

1 unit

Item Code

SC2 267

267



Effective track length: 1.2m Traction force: 100N - Connecting strip and set screw included. Note:

Normal Safety Cover

- Material : Stainless Steel

Weight

1.4 kg

Supply

2 pcs/set

- Refer TR15 for chain effective track length calculation.

Suspended Drive Unit

Item Code

MS2 DI2 R/L S/M







Item Code	Weight	Supply
MS2 DS2 R/L S/M Without Clutch	14.5 kg	1 unit
MS2 DT2 R/L S/M C With Clutch	15.5 kg	1 unit

Effective track length: 0.8m Traction force: 600N

- Connecting strip and set screw included. Note:

- Refer TR15 for chain effective track length calculation.

Please consult MODU representative for further information and assistance.

MODU

Drive Units MS2 (Continued) Catenary Drive Unit

Basic Catenary Drive





Catenary Drive with Free Roller



Catenary Drive with Driven Roller



Item Code	Weight	Supply
MS2 DC2 R/L S/M Basic drive unit	15.5 kg	1 unit
MS2 DC2 R/L S/M TR With transfer roller	15.7 kg	1 unit
MS2 DC2 R/L S/M DR With driven roller	17.0 kg	1 unit



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

Effective track length: 1.8m

Traction force: 600N

- Connecting strip and set screw included.
- Note:
- For top running chain.
- Refer TR15 for chain effective track length calculation.
- Cleated Chain is not possible to use on this drive.

Please consult MODU representative for further information and assistance.

Units: Dimension (mm)

MS2-6



Drive Units MS2 (Continued)

90° Wheel Bend Drive Unit





180° Wheel Bend Drive Unit





Code	Weight	Supply	Effective track length: 0.63M
DW2 180R150 S/M	7.0 kg	1 unit	Traction force: 100N
			- Connecting strip and set screw included.

-65-

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.

Effective track length: 0.8m
 Connecting strip and set screw included.
 Note:
 Cleated Chain not suitable for Driven Roller & Free Roller.

Please consult MODU representative for further information and assistance.

Units: Dimension (mm)





Conveyor Beam MS2





Accessories MS2





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
MA CS 25x140	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



Please consult MODU representative for further information and assistance.



Horizontal Wheel Bends MS2











Minimum straight section for all wheel bend connection.

Wheel Bend, 30°

Item Code	Weight	Supply
MS2 BW2 30R150	5.6 kg	1 set

Effective track length: 0.24m 1-way (0.48 m 2-way)

Tolerance: ± 2°

- Connecting strip and set screw included.

Wheel Bend, 45°

Item Code	Weight	Supply
MS2 BW2 45R150	5.7 kg	1 set
Effective track length: 0.28m 1-way (0.56m 2-way)		
Tolerance: ± 2°		

- Connecting strip and set screw included.

Wheel Bend, 60°

Item Code	Weight	Supply
MS2 BW2 60R150	5.7 kg	1 set
Effective track length:		
0.31m 1-way (0.62 m 2-way)		

Tolerance: ± 2°

- Connecting strip and set screw included.

Wheel Bend, 90°

Item Code	Weight	Supply
MS2 BW2 90R150	5.8 kg	1 set
Effective track length: 0.4m 1-way (0.8m 2-way)		
Tolerance: ± 2°		

- Connecting strip and set screw included.

Wheel Bend, 180°

Item Code	Weight	Supply
MS2 BW2 180R150	5.9 kg	1 set
Effective track length: 0.63m 1-way (1.26 m 2-way). Tolerance: ± 2° - Connecting strip and set scree	w included	

Please consult MODU representative for further information and assistance.





Horizontal Plain Bends MS2

Plain bends comes with options for optimum usage -Plain bend basic Unit.

-Plain bend with inner slide rail Type A (SA), Material = PE. -Plain bend with inner slide rail Type B (SB), Material = Nylon.



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: ± 2° & Radius: ± 10mm - Connecting strip and set screw included.



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: ± 2° & Radius: ± 10mm - Connecting strip and set screw included.



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: ± 2° & Radius: ± 10mm - Connecting strip and set screw included.



Please consult MODU representative for further information and assistance.

MODI





Basic Inner slide rail Type A

Inner slide rail Type B

Horizontal Plain Bend, 30°

Without Inner Slide Rail

Item Code	R	Weight	Supply
MS2 BP2 30R500	500 mm	1.8 kg	1 set
MS2 BP2 30R700	700 mm	2.1 kg	1 set
MS2 BP2 30R1000	1000 mm	2.4 kg	1 set

With Inner Slide Rail

What miller on de Han			
Item Code	R	Weight	Supply
MS2 BP2 30R500 SA	500 mm	2.0 kg	1 set
MS2 BP2 30R700 SA	700 mm	2.4 kg	1 set
MS2 BP2 30R1000 SA	1000 mm	2.9 kg	1 set

Horizontal Plain Bend, 45°

Without Inner Slide Rail

Item Code	R	Weight	Supply
MS2 BP2 45R500	500 mm	2.1 kg	1 set
MS2 BP2 45R700	700 mm	2.4 kg	1 set
MS2 BP2 45R1000	1000 mm	2.8 kg	1 set

With Inner Slide Rail

Item Code	R	Weight	Supply
MS2 BP2 45R500 SA	500 mm	2.5 kg	1 set
MS2 BP2 45R700 SA	700 mm	2.9 kg	1 set
MS2 BP2 45R1000 SA	1000 mm	3.3 kg	1 set

Horizontal Plain Bend, 60°

Without Inner Slide Rail

Item Code	R	Weight	Supply
MS2 BP2 60R500	500 mm	2.4 kg	1 set
MS2 BP2 60R700	700 mm	2.8 kg	1 set
MS2 BP2 60R1000	1000 mm	3.4 kg	1 set

With Inner Slide Rail

Item Code	R	Weight	Supply
MS2 BP2 60R500 SA	500 mm	2.7 kg	1 set
MS2 BP2 60R700 SA	700 mm	3.1 kg	1 set
MS2 BP2 60R1000 SA	1000 mm	3.9 kg	1 set

Horizontal Plain Bend, 90°

Without Inner Slide Rail

Item Code	R	Weight	Supply
MS2 BP2 90R500	500 mm	2.9 kg	1 set
MS2 BP2 90R700	700 mm	3.6 kg	1 set
MS2 BP2 90R1000	1000 mm	4.5 kg	1 set

With Inner Slide Rail

Item Code	R	Weight	Supply
MS2 BP2 90R500 SA	500 mm	3.3 kg	1 set
MS2 BP2 90R700 SA	700 mm	4.5 kg	1 set
MS2 BP2 90R1000 SA	1000 mm	5.2 kg	1 set

* Please refer MODU representative for Inner Slide Rail Type B

Vertical Bends MS2













Vertical Bend, 5°

Item Code	Weight	Supply
MS2 BV2 5R300	1.0 kg	1 set
Effective track le	ngth:	

R300: 0.19m 1-way (0.38m 2-way) Tolerance: ± 2° & Radius: ± 10mm

- Connecting strip and set screw included.

Vertical Bend, 7°

Item Code	Weight	Supply
MS2 BV2 7R300	1.0 kg	1 set
Effective track ler R300: 0.20m 1- Tolerance: ± 2° &	way (0.40m 2	
- Connecting strip	and set scre	w included

Vertical Bend, 15°

Item Code	Weight	Supply		
MS2 BV2 15R300	1.0 kg	1 set		
Effective track length: R300: 0.24m 1-way (0.48m 2-way) Tolerance: ± 2° & Radius: ± 10mm				
 Connecting strip 	and set scr	ew included		

Vertical Bend, 25°

Item Code	R	А	В	Weight	Supply
MS2 BV2 25R300	300 mm	62 mm	279 mm	1.1 kg	1 set
MS2 BV2 25R1000	1000 mm	128 mm	575 mm	2.0 kg	1 set
Effective track len R300: 0.29m 1 R1000: 0.60m 1 Tolerance: ± 2° &	-way (0.58m) -way (1.20m)	2-way)			

- Connecting strip and set screw included.

Vertical Bend, 30°

	.,					
Item Code	R	A	В	Weight	Supply	
MS2 BV2 30R300	300 mm	80 mm	299 mm	1.3 kg	1 set	
MS2 BV2 30R1000	1000 mm	174 mm	649 mm	2.5 kg	1 set	
R300: 0.32m 1 R1000: 0.68m 1 Tolerance: ± 2° &	MS2 BV2 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: ± 2° & Radius: ± 10mm - Connecting strip and set screw included. - <t< td=""></t<>					

Vertical Bend, 45°

Item	Code	R	Α	В	Weight	Supply
MS2	BV2 45R300	300 mm	145 mm	349 mm	1.3 kg	1 set
MS2	BV2 45R1000	1000 mm	350 mm	844 mm	2.3 kg	1 set
70	R1000: 0.9 Tolerance: :	0m 1-way (0. 5m 1-way (1. ± 2° & Radius ig strip and se	90m 2-way) s: ± 10mm)		

Please consult MODU representative for further information and assistance.

Units: Dimension (mm)

MODU Simplicity . Solutions

MS2-11

Vertical Bends MS2 (Continued)



Vertical Bend, 90°

Item Code	R	А	Weight	Supply
MS2 BV2 90R300	300 mm	380 mm	1.7 kg	1 set
MS2 BV2 90R1000	1000 mm	1080 mm	4.0 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: ± 2° & Radius: ± 10mm

- Connecting strip and set screw included.

Notes:

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

Beam Section For Chain Installation





Please consult MODU representative for further information and assistance.



Diagonal Beam



- A combination drive and idler unit used for smooth transfering of unstable products between conveyors.
- All available standard drives fit this unit.
 Please indicate the drive unit type when placing an order. Refer to page MS2-3 for drive unit order guidelines.

Item Code	Weight	Supply
MS2 DXD2	12.9 kg	1 set

- Drive and idler not included.
- Connecting strip and set screw included.



AP

Please consult MODU representative for further information and assistance.



Conveyor System MM3



Description

83mm width thermoplastic chain with aluminium frame conveyor system. Also available with stainless steel frame, please refer section DM3.

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		83 mm
Chain Pitch		33.5 mm
Chain Weight		1.3 kg/m
Max Tension	With Wheel Bend	800 N
iviax Tension	Without Wheel Bend	1000 N
Max Product Weight*	Horizontal Transport	15 kg
	Vertical Transport	10 kg
Total Load*		250 Kg
Working Temperature*		-10°C to 60°c
Max Conveyor Length*		30m
Max Speed*		50 m/min
Drive Unit Capacity		1000 N
Item Width*		20-200 mm



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

Please consult MODU representative for further information and assistance.

Units: Dimension (mm)



Chains MM3













* Other cleated height are available upon request.

Plain Chain

- Suitable for conveyor configuration with incline/decline up to 5°.
- Accumulation possible.
- Available in polish surface for this type of chain.



Item Code	Material	Colour	Weight	Supply
MM3 CP 5	POM	White	6.5 kg/roll	5m/roll
MM3 CP 5A	Anti-Static	Black	6.5 kg/roll	5m/roll
MM3 CP 5K	POM-Kevlar	Yellow	8.0 kg/roll	5m/roll

Insert Friction Chain

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



Item Code	Material	Colour	Weight	Supply
MM3 CF 5	POM	White	7.5 kg/roll	5m/roll
MM3 CF 5A	Anti-Static	Black	7.5 kg/roll	5m/roll
MM3 CF 5K	POM-Kevlar	Yellow	9.5 kg/roll	5m/roll

Molded Friction Chain

- Suitable for convevor configuration with
- incline/decline up to 25°.
- Friction material : TPE (grey).
- Accumulation not possible.
- PP chain working material tension = 500N



Item Code	Material	Colour	Weight	Supply
MM3 CF 5P	PP	White	7.8 kg/roll	5m/roll

Flocked Chain

- Suitable for scratch sensitive material.
- Flock colour : Grey.
- Accumulation possible for light product only.

Mat

- PP chain material working tension = 500N. - Sticker type only.

-		1		
laterial	Colour	Weight	Supply	
POM	White	7.0 kg/roll	5m/roll	1

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. MM3 CC 3x15P 3p = Every 3rd link to be cleated).
- **Please consult MODU representataive for actual Chain weight.

Item Code	Material	Colour	Weight	Supply
MM3 CC 3x15P	POM	White	** kg/roll	3m/roll
MM3 CC 3x15A	Anti-Static	Black	** kg/roll	3m/roll
MM3 CC 3x15K	POM-Kevlar	Yellow	** kg/roll	3m/roll

Please consult MODU representative for further information and assistance.





rllr		
Ju	Item Code	Mat
	MM3 CF 5P	P

Item Code

MM3 CL 5

MM3 Chains (continued)



* Non-standard height are available upon request.



Roller Cleated Chain

- 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 (eq. MM3 CR 3P 3p = Every 3rd link to be cleated).
- **Please consult MODU representative for actual Chain weight.

Item Code	Material	Colour	Weight	Supply
MM3 CR 3P	POM	White	** kg/roll	3m/roll

Finger Gripper Chain

- Suitable to be use for transfering product with a gripping method.
- Accumulation not possible.
- Not suitable to use with Combined Drive.



Item Code	Material	Colour	Weight	Supply
MM3 CG 3F	POM	White	5.0 kg/roll	3m/roll
MM3 CG 3FA	Anti-Static	Black	5.0 kg/roll	3m/roll
MM3 CG 3FK	POM-Kevlar	Yellow	6.0 kg/roll	3m/roll





Gripper Box	Max product weight
Soft Type – 50A Shore Hardness	up to 2 kg
Medium Type - 60A Shore Hardness	up to 5 kg
Hard Type – 73A Shore Hardness	up to 10 kg







Box Gripper Chain

- Suitable to be use for transfering product
- with a gripping method.

Soft - 50A

- Accumulation not possible.
- Not suitable to use with Combined Drive.



	and the
Weight	Supply

Item Code	Material	Colour	Weight	Supply
MM3 CG 3BS	POM	White	7.7 kg/roll	3m/roll
MM3 CG 3BSA	Anti-Static	Black	7.7 kg/roll	3m/roll
MM3 CG 3BSK	POM-Kevlar	Yellow	8.7 kg/roll	3m/roll
Medium - 60A				
Item Code	Material	Colour	Weight	Supply
MM3 CG 3BM	POM	White	7.7 kg/roll	3m/roll

MM3 CG 3BM	POM	White	7.7 kg/roll	3m/roll
MM3 CG 3BMA	Anti-Static	Black	7.7 kg/roll	3m/roll
MM3 CG 3BMK	POM-Kevlar	Yellow	8.7 kg/roll	3m/roll
Hard - 73A				
Item Code	Material	Colour	Weight	Supply
Item Code MM3 CG 3BH	Material POM	Colour White	Weight 7.7 kg/roll	Supply 3m/roll

Wedge Gripper Chain

- Suitable to be use for transfering product with a gripping method.
- Accumulation not possible.
- Not suitable to use with Combined Drive.



Item Code	Material	Colour	Weight	Supply
MM3 CG 3W	POM	White	5.0 kg/roll	3m/roll
MM3 CG 3WA	Anti-Static	Black	5.0 kg/roll	3m/roll
MM3 CG 3WK	POM-Kevlar	Yellow	8.7 kg/roll	3m/roll

Please consult MODU representative for further information and assistance.

Units: Dimension (mm)



MM3 Chains (continued)



Silicone Pad Gripper Chain

- Suitable to be use for transfering product with a gripping method.
- Accumulation not possible.
- Not suitable to use with Combined Drive.



Item Code	Material	Colour	Weight	Supply
MM3 CG 3SG	POM	White	5.4 kg/roll	3m/roll
MM3 CG 3SGA	Anti-Static	Black	5.4 kg/roll	3m/roll
MM3 CG 3SGK	POM-Kevlar	Yellow	9.4 kg/roll	3m/roll

Chain Top Replacement MM3

Friction Pad



- Friction pad used for Gen 3 chain.				
Item Code	Material	Colour	Weight	Supply
MM3 FP 83	TPE	Grey	0.01 kg/roll	10 pcs/pkt

Wedge Gripper

MM3 GP 83W





al	Colour	Weight	Supply	Indicato
ĺ	Grey	0.2 kg	10 pcs/pkt	

Silicone Pad Gripper

TPU



Friction gripper pad used for Gen 3 chain

0000000

Finger Gripper Pad

i notion gripper pau deca fer e enam					
Item Code	Material	Colour	Weight	Supply	
MM3 GP 83F	TPU	Grey	0.09 kg	10 pcs/pkt	

Gripper Box





II Medium T III Hard

Item Code	Material	Hardness	Colour	Weight	Supply
MM3 GP BS	TPE	Soft - 50A	Grey	0.2 kg	10 pcs/pkt
MM3 GP BM	TPE	Med - 60A	Grey	0.2 kg	10 pcs/pkt
MM3 GP BH	TPE	Hard - 73A	Grey	0.2 kg	10 pcs/pkt

Attachment For Chain Tool

Chain Accessories MM3

Stainless Steel Pin





211		
Item Code	Weight	Supply
MM3 PV	0.02 kg	10 pcs/pkt

Lubricant For Chain



Chain Pin Insertion Tool



Please consult MODU representative for further information and assistance.



Simplicity. Solutions



Please consult MODU representative for further information and assistance.

Units: Dimension (mm)



MM3-5



- Cleated Chain is not possible to use on this drive.

Please consult MODU representative for further information and assistance.

MM3-6



Simplicity . Solutions

Drive Units MM3 (Continued)

Safety Cover for Direct Drive and Combined Drive

Short Safety Cover

- Material : Stai	inless Steel	
Have Oada	14/01/04/04	0

- Material . Otalilie	55 01001	
Item Code	Weight	Supply
SC2 139	0.8 kg	2 pcs/set

Support Bracket for Drive Unit



Intermediate Drive Unit





Effective track length: 1.2m

Effective track length: 0.82m

- Connecting strip and set screw included.

Traction force: 1000N

* Suitable for Direct Drive Unit

Traction force: 200N

- Connecting strip and set screw included.

Normal Safety Cover

- Material : Stainless Steel

Weight

1.4 kg

Supply 2 pcs/set

267

Item Code

SC2 267

- Note:
- Refer TR15 for chain effective track length calculation.

Suspended Drive Unit





Item Code	Weight	Supply
MM3 DS2 R/L S/M Without Clutch	7.6 kg	1 unit
MM3 DT2 R/L S/M C With Clutch	8.9 kg	1 unit

Note: - Refer TR15 for chain effective track length calculation.







Drive Units MM3 (Continued) Catenary Drive Unit







Catenary Drive with Free Roller





-14

53

Catenary Drive with Driven Roller





Item CodeWeightSupplyMM3 DC R/L S/M18.9 kg1 unitBasic drive unit18.9 kg1 unitMM3 DC2 R/L S/M TR19.1 kg1 unitWith free roller20.6 kg1 unitWith driven roller20.6 kg1 unit

Effective track length: 1.66m

Traction force: 500N

- Connecting strip and set screw included.
- Note:
- For top running chain.
- Refer TR15 for chain effective track length calculation.
- Cleated Chain is not possible to use on this drive.

Please consult MODU representative for further information and assistance.





Drive Units MM3 (Continued)



180° Wheel Bend Drive Unit



Idler End

6

Basic Idler End With Driven Roller -80-321 -85 Idler End with Free Roller -80--334--85--18 Basic unit • - **-**Idler End with Driven Roller *(Right) -80 -14 With Free Roller - Driven Roller speed is approximately 10% higher than conveyor speed. Item Code Weight Supply MM3 IE2 320 2.6 kg 1 unit Basic drive unit MM3 IE 320 TR Effective track length: 0.82m 1 unit 2.8 kg With free roller - Connecting strip and set screw included. MM3 IE2 320 DR Note: 4.1 kg 1 unit With driven roller - Cleated Chain not suitable for Driven Roller & Free Roller

Please consult MODU representative for further information and assistance.





MODU Simplicity . Solutions

Effective track length: 0.82m

- Connecting strip and set screw included.

Traction force: 200N



Conveyor Beam MM3





Item Code	Weight	Supply
MM3 CB 3	7.6 kg	3 m

Accessories MM3





Slide Rail

onde Man				
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
MA CS 25x140	1.5 kg	10 pcs/pkt
- 4 ncs M8 set sr	0	





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: Alumini	um	

Slide Rail CutterItem CodeWeightSupplyMA SC0.5 kg1 pc		Rivet CrimpingItem CodeWeightSupplyMA RC0.13 kg1 pc
Slide Rail Mounting ToolItem CodeWeightSupplyMS2 SRA0.4 kg1 pc	0.10	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)

MM3-10



Gripper Elevator / Lowerator Components

Gripper Drive Unit



Item Code	Weight	Supply
MM3 DG2 R/L S/M	5.4 kg	1 Unit

- Effective track length: 0.82m
- Connecting strip and set screw included.

Gripper Idler End



Item Code	Weight	Supply
MM3 IG 400	6.2 kg	1 Unit

Effective track length: 0.82m

- Connecting strip and set screw included.

- Comes with self tensioning unit.

Gripper Adjustment Unit



-120-	<u>.</u>
	220 / 270

Item Code	Product Size		Weight	Supply
nem code	Width	Height	Weigin	Suppry
MA2 AU 550x220	50-300	90-200	9.0 kg	1 unit
MA2 AU 550x270	50-300	90-300	9.5 kg	1 unit
MA2 AU 960x220	100-700	90-200	13.0 kg	1 unit
MA2 AU 960x270	100-700	90-300	13.5 kg	1 unit

Improved

- Lighter, more rigid and easier to rotate.









Please consult MODU representative for further information and assistance.



Gripper Adjustment Unit with Gear





	1
and the	

Item Code	FIUUU	CI 3126	Weight	Supply
nem code	Width	Height	weight	Suppiy
MA2 AU 550x220 BG	50-300	90-200	9.0 kg	1 unit
MA2 AU 550x270 BG	50-300	90-300	9.5 kg	1 unit
MA2 AU 960x220 BG	100-700	90-200	13.0 kg	1 unit
MA2 AU 960x270 BG	100-700	90-300	13.5 kg	1 unit

Improved

- Lighter, more rigid and easier to rotate.

- Attach with Gear Adjustment unit.





30	lockwise Counter Clockw	vise
Item Code	Weight	Supply
MA BG L- R	0.94 kg	1 Unit





Please consult MODU representative for further information and assistance.







Connecting Rod for Gear Unit





Item Code	Weight	Supply
MA BG 3x25	0.86 kg	1 pc

Counter Support Plate



Gripper Adjustment Wheel



Please consult MODU representative for further information and assistance.

Units: Dimension (mm)

MM3-13



Gripper S-Flow type (Configuration)

S-Flow Gripper



Please consult MODU representative for further information and assistance.



Horizontal Wheel Bends MM3













Wheel Bend, 30°

Item Code	Weight	Supply
MM3 BW 30R160	6.0 kg	1 set

Effective track length:

0.24m 1-way (0.48 m 2-way)

Tolerance: ± 2°

- Connecting strip and set screw included.

Wheel Bend, 45°

Item Code	Weight	Supply
MM3 BW 45R160	6.0 kg	1 set
Effective track length: 0.28m 1-way (0.56m 2-way) Tolerance: ± 2°		

- Connecting strip and set screw included.

Wheel Bend, 60°

Item Code	Weight	Supply
MM3 BW 60R160	6.1 kg	1 set
Effective track length: 0.33m 1-way (0.66 m 2-way) Tolerance: ± 2° - Connecting strip and set screw	included.	

Wheel Bend, 90°

Item Code	Weight	Supply
MM3 BW 90R160	6.1 kg	1 set
Effective track length: 0.41m 1-way (0.82m 2-way) Tolerance: ± 2° - Connecting strip and set screw	included.	

Wheel Bend, 180°

Item Code	Weight	Supply
MM3 BW 180R150	6.2 kg	1 set
Effective track length: 0.66m 1-way (1.32 m 2-way). Tolerance: ± 2° • Connecting strip and set screw	included.	

Please consult MODU representative for further information and assistance.



Horizontal Plain Bends MM3

Plain bends comes with options for optimum usage -Plain bend basic Unit.

-Plain bend with inner slide rail Type A (SA), Material = PE. -Plain bend with inner slide rail Type B (SB), Material = Nylon.



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: ± 2° & Radius: ± 10mm - Connecting strip and set screw included.



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: ± 2° & Radius: ± 10mm - Connecting strip and set screw included.



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: ± 2° & Radius: ± 10mm - Connecting strip and set screw included.



- Connecting strip and set screw included.

Please consult MODU representative for further information and assistance.



Horizontal Plain Bend, 30°

Without Inner Slide Rail

Item Code	R	Weight	Supply
MM3 BP 30R500	500 mm	2.3 kg	1 set
MM3 BP 30R700	700 mm	2.6 kg	1 set
MM3 BP 30R1000	1000 mm	2.9 kg	1 set
With Inner Slide Rail			
Item Code	R	Weight	Supply
MM3 BP 30R500 SA	500 mm	2.6 kg	1 set
MM3 BP 30R700 SA	700 mm	3.1 kg	1 set
MM3 BP 30R1000 SA	1000 mm	3.4 kg	1 set

Horizontal Plain Bend, 45°

Without Inner Slide Rail

Item Code	R	Weight	Supply
MM3 BP 45R500	500 mm	2.6 kg	1 set
MM3 BP 45R700	700 mm	3.0 kg	1 set
MM3 BP 45R1000	1000 mm	3.3 kg	1 set

With Inner Slide Rail

Item Code	R	Weight	Supply
MM3 BP 45R500 SA	500 mm	2.9 kg	1 set
MM3 BP 45R700 SA	700 mm	3.4 kg	1 set
MM3 BP 45R1000 SA	1000 mm	3.8 kg	1 set

Horizontal Plain Bend, 60°

Without Inner Slide Rail

Item Code	R	Weight	Supply
MM3 BP 60R500	500 mm	2.9 kg	1 set
MM3 BP 60R700	700 mm	3.5 kg	1 set
MM3 BP 60R1000	1000 mm	4.2 kg	1 set

With Inner Slide Rail

Item Code	R	Weight	Supply
MM3 BP 60R500 SA	500 mm	3.3 kg	1 set
MM3 BP 60R700 SA	700 mm	4.0 kg	1 set
MM3 BP 60R1000 SA	1000 mm	4.7 kg	1 set

Horizontal Plain Bend, 90°

Without Inner Slide Rail

Item Code	R	Weight	Supply
MM3 BP 90R500	500 mm	3.6 kg	1 set
MM3 BP 90R700	700 mm	4.4 kg	1 set
MM3 BP 90R1000	1000 mm	5.6 kg	1 set

With Inner Slide Rail

Item Code	R	Weight	Supply
MM3 BP 90R500 SA/SB	500 mm	4.1 kg	1 set
MM3 BP 90R700 SA/SB	700 mm	4.9 kg	1 set
MM3 BP 90R1000 SA	1000 mm	6.2 kg	1 set

* Please refer MODU representative for Inner Slide Rail Type B.

Units: Dimension (mm)

MM3-16



Vertical Bends MM3











Item Code	Weight	Supply
MM3 BV 5R400	1.0 kg	1 set

Effective track length:

R400: 0.19m 1-way (0.38m 2-way) Tolerance: ± 2° & Radius: ± 10mm

- Connecting strip and set screw included.

Vertical Bend, 7°

Item Code	Weight	Supply
MM3 BV 7R400	1.1 kg	1 set

Effective track length: R400: 0.20m 1-way (0.40m 2-way) Tolerance: ± 2° & Radius: ± 10mm - Connecting strip and set screw included.

Vertical Bend, 15°

Item Code	Weight	Supply
MM3 BV 15R400	1.2 kg	1 set

Effective track length: R400: 0.26m 1-way (0.52m 2-way) Tolerance: ± 2° & Radius: ± 10mm - Connecting strip and set screw included.

Vertical Bend. 25°

1 set
1 set

0.33m 1-way (0.66m 2-way) R400:

R1000: 0.60m 1-way (1.20m 2-way)

Tolerance: ± 2° & Radius: ± 10mm

- Connecting strip and set screw included.

Vertical Bend, 30°

Item Code	R	А	В	Weight	Supply
MM3 BV 30R400	400 mm	80 mm	299 mm	1.6 kg	1 set
MM3 BV 30R1000	1000 mm	174 mm	649 mm	2.2 kg	1 set
Effective track leng R400: 0.37m 1- R1000: 0.68m 1- Tolerance: ± 2° & - Connecting strip	way (0.74m 2- way (1.36m 2- Radius: ± 10m	way) m			



Vertical Bend, 45°

Item Code	R	А	В	Weight	Supply
MM3 BV 45R400	400 mm	174 mm	419 mm	1.7 kg	1 set
MM3 BV 45R1000	1000 mm	350 mm	844 mm	3.0 kg	1 set
Effective track leng R300: 0.47m 1-w R1000: 0.95m 1-w Tolerance: ± 2° & F - Connecting strip	ay (0.94m 2-w ay (1.90m 2-w Radius: ± 10m	m m			

Please consult MODU representative for further information and assistance.



Vertical Bends MM3 (Continued)



Vertical Bend, 90°

Item Code	R	Α	Weight	Supply
MM3 BV 90R400	400 mm	480 mm	2.5 kg	1 set
MM3 BV 90R1000	1000 mm	1180 mm	5.0 kg	1 set
Effective track leng R400: 0.63m 1-w R1000: 1.73m 1-w Tolerance: ± 2° & I - Connecting strip	ay (1.26m 2-w ay (3.46m 2-w Radius: ± 10m	ray) m		

Notes :

- Non-Standard Vertical Bend also available in PE and Stainless Steel with minimum radius of 400mm.

Beam Section For Chain Installation





Supply

1 set



MM3 CIS 160 1.7 kg

- Connecting strip and set screw included.

Please consult MODU representative for further information and assistance.

Weight

Units: Dimension (mm)

Item Code



Diagonal Beam



- A combination drive and idler unit used for smooth transfering of unstable products between conveyors.
- All available standard drives fit this unit. Please indicate the drive unit type when placing an order. Refer to page MM3-5 for drive unit order guidelines.

Item Code	Weight	Supply
MM3 DXD	14.8 kg	1 set

- Drive and Idler not included.
- Connecting strip and set screw included.



Wrap Beam



- Wrap drive is used for sommth power transfer on top runing chain conveyors. An excellent product for multi drive alpine system.
- All available standard drives fit this unit. Please indicate the drive unit type when placing an order. Refer to page MM3-5 for drive unit order guidelines.

Item Code	Weight	Supply
MM3 DXW	16.2 kg	1 set
Drive and Idler ne	tipoludod	

- Drive and Idler not included.
- Connecting strip and set screw included.





AP

Ř

MF2 MR2 MT2 MX2 ML2 MM3 MS2

Β

BΒ

AΜ

DF2 DR2 DT2 DX2 DL2 DM3 DS2

ß

08

PA

S

SE

럳

ΣI

МΜ

Conveyor System ML2



Description

140mm width thermoplastic chain with aluminium frame conveyor system. Also available with stainless steel frame, please refer section DL2.

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		140 mm
Chain Pitch		44.5 mm
Chain Weight		2.46 kg/m
Max Tension	With Wheel Bend	1000 N
	Without Wheel Bend	1300 N
Max Product Weight*	Horizontal Transport	25 kg
	Vertical Transport	15 kg
Total Load*		400 Kg
Working Temperature*		-10°C to 60°c
Max Conveyor Length*		30m
Max Speed*		50 m/min
Drive Unit Capacity		1300 N
ltem Width*		25-320 mm

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

Please consult MODU representative for further information and assistance.





ML2-1

Chains ML2







Plain Chain

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



Item Code	Material	Colour	Weight	Supply
ML2 CP 5	POM	White	13.0 kg/roll	5m/roll
ML2 CP 5A	Anti-Static	Black	13.0 kg/roll	5m/roll
ML2 CP 5K	POM-Kevlar	Yellow	15.6 kg/roll	5m/roll

Insert Friction Chain

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



Item Code	Material	Colour	Weight	Supply
ML2 CF 5	POM	White	15.0 kg/roll	5m/roll
ML2 CF 5A	Anti-Static	Black	15.0 kg/roll	5m/roll
ML2 CF 5K	POM-Kevlar	Yellow	17.0 kg/roll	5m/roll

Roller Cleated Chain

- 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. ML2 CC 3 3p = Every 3rd link to be cleated).
- **Please consult MODU for actual Chain weight.

Item Code	Material	Colour	Weight	Supply
ML2 CR 3	POM	White	** kg/roll	3m/roll
ML2 CR 3A	Anti-Static	Black	** kg/roll	3m/roll
ML2 CR 3K	POM-Kevlar	Yellow	** kg/roll	3m/roll

Flocked Chain

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

Item Code	Material	Colour	Weight	Supply
ML2 CL 5	POM	White	12.5 kg/roll	5m/roll

Safety Chain

- Suitable for conveyor configuration with incline/decline up to $5^{\circ}.$
- Accumulation possible.



Item Code	Material	Colour	Weight	Supply
ML2 CP 5S	POM	White	12.4 kg/roll	5m/roll

Please consult MODU representative for further information and assistance.

Units: Dimension (mm)

ML2-2

40






Chains ML2 (Continued)



Safety Friction Chain

- Suitable for conveyor configuration with incline/decline up to 25°.
- Friction material : TPE (grey).
- Accumulation not possible.
- PP chain material working tension is less

than POM, please refer to technical reference.

Item Code	Material	Colour	Weight	Supply
ML2 CF 5S	PP	White	12.4 kg/roll	5m/roll

Chains Top Replacement ML2



Insert Friction Pad



Item Code	Material	Colour	Weight	Supply
ML2 FP	TPE	Grey	0.01 kg/roll	10 pcs/pkt

Chain Accessories ML2

Lubricant	For Cha	in	Stainless S	Steel Pi	n	Chain Piv	ot	
	licone-based	lubricant,						
Item Code	Weight	Supply	Item Code	Weight	Supply	Item Code	Weight	Supply
MA SL	0.35 kg	1 pc	ML2 PN M4x73	0.07 kg	10 pcs/pkt	ML2 PV	0.07 kg	10 pcs/pkt
MA SL	0.35 kg	1 pc	ML2 PN M4x73	0.07 kg	10 pcs/pkt	ML2 PV	0.07 kg	10 pcs/pk

Chain Pin Insertion Tool



Chain pin insertion tool shown without attachment & specific drive pin

	Chai		Chain attachm	nain attachment & driv	
Item Code	Weight	Supply	Item Code	Weigh	
TR CP 1	1.2 kg	1 pc	ML2 AC	0.3 k	
		,	-		

Attachment For Chain Tool



	n a unve pi	
tem Code	Weight	Supply
ML2 AC	0.3 kg	1 set

Please consult MODU representative for further information and assistance.





Please consult MODU representative for further information and assistance.

Units: Dimension (mm)

ML2-4



Drive Units ML2 (Continued) Combined Drive Unit With Driven Roller Basic unit With Free Roller Basic Combined Drive 170 368 Comes without Safety Cover 410 Combined Drive with Free Roller 119 11 368 Comes without Safety Cover 410 Combined Drive with Driven Roller 419 44 żc - Driven Roller speed is approximately 10% higher than conveyor speed. * Comes without Safety Cover 410 Effective track length: 2.19m Item Code Weight Supply Traction force: 1300N ML2 DT R/L S/M - Connecting strip and set screw included. 12.0 kg 1 unit Basic drive unit Note : ML2 DT R/L S/M TR - Safety Cover comes as an option. 12.2 kg 1 unit With free roller - Recommended maximum chain elongation is 328mm from ML2 DT R/L S/M DR top conveyor to chain slack. 13.8 ka 1 unit With driven roller - Refer TR15 for chain effective track length calculation. - Cleated Chain is not possible to use on this drive.

MF2 MR2 MT2 MX2 ML2 MM3 MS2 Β MΒ MΑ DF2 DR2 DT2 DX2 DL2 DM3 DS2 b 80 PA S SE 럳 Σ МΜ

A

Ĕ

Please consult MODU representative for further information and assistance.



MODU Simplicity . Solutions

Drive Units ML2 (Continued)

Safety Cover for Front Drive and Combined Drive



- Material : Stainless Steel

Item Code	Weight	Supply
SC2 268	1.8 kg	2 pcs/set

Intermediate Drive Unit



Item Code	Weight	Supply
ML2 DI R/L S/M	14.0 kg	1 unit





Effective track length: 1.49m Traction force: 300N - Connecting strip and set screw included. Note: - Refer T

Suspended Drive Unit







Item Code	Weight	Supply
ML2 DS R/L S/M Without Clutch	14.0 kg	1 unit
ML2 DS R/L S/M C With Clutch and roller chain	16.8 kg	1 unit

Effective track length: 1.16m Traction force: 1300N - Connecting strip and set screw included.

- Note:
- Refer TR15 for chain effective track length calculation.

Please consult MODU representative for further information and assistance.

Units: Dimension (mm)





Simplicity . Solutions

Idler End

Basic Idler End



Idler End with Free Roller





Idler End with Driven Roller *(Right)



57-		-	-145-	-	<u></u> ⊢17
53]

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

Item Code	Weight	Supply
ML2 IE 400 Basic drive unit	4.1 kg	1 unit
ML2 IE 400 TR With free roller	4.4 kg	1 unit
ML2 IE 400 DR With driven roller	5.9 kg	1 unit

Basic unit With Free Roller

Effective track length: 1.02m

- Connecting strip and set screw included.

Notes:

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

With Driven Roller

Please consult MODU representative for further information and assistance.



Conveyor Beam ML2





Item Code	Weight	Supply
ML2 CB 3	12.9 kg	3 m

Accessories ML2

Slide Rail

Item Code	Material	Colour	Weight	Supply
MA2 SR 25	HDPE	Pure White	2.8 kg/roll	25m/roll
MA2 SR 25A	Anti-Static	Grey	2.8 kg/roll	25m/roll
MA2 SR 25U	UHMW-PE	Semi-Transparent White	3.5 kg/roll	25m/roll



Connecting Strip

Item Code	Weight	Supply
MA CS 25x140	1.5 kg	10 pcs/pkt



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



Screw

Item Code	Weight	Supply
MA RS 6.5	0.02 kg	50 pcs/pkt



Slide Rail Cutter

Item Code	Weight	Supply
MA SC	0.5 kg	1 pc



Slide Rail Mounting Tool

Item Code	Weight	Supply
MX2 SRA	0.4 kg	1 pc

Please consult MODU representative for further information and assistance.



Horizontal Wheel Bends ML2











Wheel Bend, 30°

Item Code	Weight	Supply
ML2 BW 30R200	6.8 kg	1 set

Effective track length: 0.6m 1-way (1.2m 2-way)

Tolerance: ± 2°

- Connecting strip and screw included.

Wheel Bend, 45°

Item Code	Weight	Sup
ML2 BW 45R200	6.9 kg	1 s
Effective track length: 0.66m 1-way (1.32m 2-way)		

nlv

Tolerance: ± 2°

- Connecting strip and screw included.

Wheel Bend, 60°

Item Code	Weight	Supply
ML2 BW 60R200	7.0 kg	1 set
Effective track length: 0.71m 1-way (1.42m 2-way) Tolerance: ± 2° - Connecting strip and screw included.		

Wheel Bend, 90°

Item Code	Weight	Supply
ML2 BW 90R200	7.2 kg	1 set
Effective track length: 0.81m 1-way (1.62m 2-way) Tolerance: ± 2° - Connecting strip and screw included.		

Wheel Bend, 180°

Weight	Supply
6.2 kg	1 set

Please consult MODU representative for further information and assistance.

Units: Dimension (mm)



ML2-9

Horizontal Plain Bends ML2

Plain bends comes with options for optimum usage -Plain bend basic Unit.

-Plain bend with inner slide rail Type A (SA). Material = PE. -Plain bend with inner slide rail Type B (SB). Material = Nylon.



Effective track length: R500: 0.42m 1-way (0.84m 2-way) R700: 0.53m 1-way (1.06m 2-way) R1000: 0.68m 1-way (1.36m 2-way). Tolerance: ± 2° & Radius: ± 10mm - Connecting strip and set screw included.



Effective track length: R500: 0.55m 1-way (1.10m 2-way) R700: 0.71m 1-way (1.42m 2-way) R1000: 0.95m 1-way (1.90m 2-way) Tolerance: ± 2° & Radius: ± 10mm - Connecting strip and set screw included.



Effective track length: R500: 0.68m 1-way (1.36m 2-way) R700: 0.73m 1-way (1.46m 2-way) R1000: 1.21m 1-way (2.42m 2-way) Tolerance: ± 2° & Radius: ± 10mm - Connecting strip and set screw included.



- Connecting strip and set screw included.

Please consult MODU representative for further information and assistance.



Type B (SB)



Horizontal Plain Bend, 30°

Without Inner Slide Rail

Item Code	R	Weight	Supply
ML2 BP 30R500	500 mm	2.8 kg	1 set
ML2 BP 30R700	700 mm	3.3 kg	1 set
ML2 BP 30R1000	1000 mm	3.6 kg	1 set

With Inner Slide Rail

Item Code	R	Weight	Supply
ML2 BP 30R500 SA	500 mm	3.2 kg	1 set
ML2 BP 30R700 SA	700 mm	3.8 kg	1 set
ML2 BP 30R1000 SA	1000 mm	4.1 kg	1 set

Horizontal Plain Bend, 45°

Without Inner Slide Rail

Item Code	R	Weight	Supply
ML2 BP 45R500	500 mm	3.4 kg	1 set
ML2 BP 45R700	700 mm	4.1 kg	1 set
ML2 BP 45R1000	1000 mm	5.1 kg	1 set

With Inner Slide Rail

Item Code	R	Weight	Supply
ML2 BP 45R500 SA	500 mm	3.7 kg	1 set
ML2 BP 45R700 SA	700 mm	4.8 kg	1 set
ML2 BP 45R1000 SA	1000 mm	5.8 kg	1 set

Horizontal Plain Bend, 60°

Without Inner Slide Rail

Item Code	R	Weight	Supply
ML2 BP 60R500	500 mm	3.9 kg	1 set
ML2 BP 60R700	700 mm	4.1 kg	1 set
ML2 BP 60R1000	1000 mm	6.2 kg	1 set

With Inner Slide Rail

Item Code	R	Weight	Supply
ML2 BP 60R500 SA	500 mm	4.3 kg	1 set
ML2 BP 60R700 SA	700 mm	4.7 kg	1 set
ML2 BP 60R1000 SA	1000 mm	6.9 kg	1 set

Horizontal Plain Bend, 90°

Without Inner Slide Rail

Item Code	R	Weight	Supply
ML2 BP 90R500	500 mm	5.1 kg	1 set
ML2 BP 90R700	700 mm	6.4 kg	1 set
ML2 BP 90R1000	1000 mm	8.4 kg	1 set

With Inner Slide Rail

Item Code	R	Weight	Supply
ML2 BP 90R500 SA	500 mm	5.8 kg	1 set
ML2 BP 90R700 SA	700 mm	7.2 kg	1 set
ML2 B2 90R1000 SA	1000 mm	9.3 kg	1 set

* Please refer to MODU representative for Inner Slide Rail Type B.



Vertical Bends ML2











Vertical Bend, 5°

Item Code	Weight	Supply		
ML2 BV 5R1000	1.6 kg	1 set		
Effective track length:				
R1000: 0.25m 1-way (0.5m 2-way)				
Tolerance: ± 2° & Radius: ± 10mm				
- Connecting strip and set screw included.				

Vertical Bend, 7°

Item Code	Weight	Supply
ML2 BV 7R1000	1.8 kg	1 set
Effective track leng R1000: 0.28m 1- Tolerance: ± 2° &	way (0.56m 2-\	
- Connecting strip and set screw included.		

Vertical Bend, 15°

Item Code	Weight	Supply		
ML2 BV 15R1000	2.4 kg	1 set		
Effective track length: R1000: 0.42m 1-way (0.84m 2-way)				
Tolerance: $\pm 2^{\circ}$ & Radius: ± 10 mm				

- Connecting strip and set screw included.

Vertical Bend, 25°

Item Code	Weight	Supply
ML2 BV 25R1000	3.2 kg	1 set

Effective track length: R1000: 0.60m 1-way (1.20m 2-way)

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

- Connecting strip and set screw included.

Vertical Bend, 30°

Item Code	Weight	Supply	
ML2 BV 30R1000	3.5 kg	1 set	
Effective track length: R1000: 0.68m 1-way (1.36m 2-way)			
Tolerance: ± 2° & Radius: ± 10mm			
O			

- Connecting strip and set screw included.



Vertical Bend, 45°

Item Code	Weight	Supply
ML2 BV 45R1000	4.5 kg	1 set
Effective track leng R1000: 0.95m 1-w Tolerance: ± 2° & I - Connecting strip	ay (1.90m 2-w Radius: ± 10m	m

Please consult MODU representative for further information and assistance.

Units: Dimension (mm)



Simplicity . Solutions



Notes:

- Non-Standard Vertical Bend only available in PE and Stainless Steel.

Beam Section For Chain Installation Type A





Diagonal Beam



Item Code	Weight	Supply
ML2 DXD	26.3 kg	1 set

- Drive and idler not included.
- Connecting strip and set screw included.
 A combination drive and idler unit used for smooth transfering of unstable products between conveyors.
- All available standard drives fit this unit. Please indicate the drive unit type when placing an order. Refer to page ML2-4 for drive unit order guidelines.



Please consult MODU representative for further information and assistance.





Conveyor System MX2



Description

220mm width thermoplastic chain with aluminium frame conveyor system. Also available with stainless steel frame, please refer section DX2.

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

	220 mm
	44.5 mm
	3.40 kg/m
With Wheel Bend	1000 N
Without Wheel Bend	1300 N
Horizontal Transport	25 kg
Vertical Transport	15 kg
	400 Kg
	-10°C to 60°c
	30m
	50 m/min
	1300 N
	70-500 mm
	Without Wheel Bend Horizontal Transport



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

Please consult MODU representative for further information and assistance.





Chains MX2





Plain Chain

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

		and the second s			
Item Code	Material	Colour	Weight	Supply	
MX2 CP 5	POM	White	17.2 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
MX2 CF 5	POM	White	18.2 kg/roll	5m/roll

Cleated Chain - Machined PE Cleated

- Required for vertical or steeply inclined / declined conveyor.
- Accumulation not possible.

indicate while ordering.

- Not suitable to be use with Combined and Catenary Drive. - Pitch between cleat must be







- (eg. MX2 CC 3 4P = Every 4th link to be cleated).
- **Please consult MODU representative for actual Chain weight.

Item Code	Material	Colour	Weight	Supply
MX2 CC 3	POM	White	** kg/roll	5m/roll

Roller Cleated Chain

- Required for vertical or steeply inclined / declined conveyor.
- Accumulation not possible.
- Not suitable to be use with
- Combined and Catenary Drive. - Pitch between cleat must be indicate while ordering.



e



Materia

POM

		Colour I	Veight S	Supply
MX2 CR 3	POM	White *	* kg/roll	5m/roll

Roller Top Chain

- Accumulation possible.
- Low back force.





Please consult MODU representative for further information and assistance.

Units: Dimension (mm)

MX2-2



Simplicity . Solutions

Item Code

MX2 TR 3

Chain Accessories MX2

Lubrican	t For Chai	in	Stainless	Steel Pi	n	Chain Pive	ot	
	ilicone-based I 20ml	ubricant,						
Item Code	Weight	Supply	Item Code	Weight	Supply	Item Code	Weight	Supply
MA SL	0.35 kg	1 pc	ML2 PN M4x73	0.07 kg	10 pcs/pkt	ML2 PV	0.07 kg	10 pcs/pkt

AP

Please consult MODU representative for further information and assistance.





Please consult MODU representative for further information and assistance.

Units: Dimension (mm)

MX2-4



Simplicity . Solutions

Drive Units MX2 (Continued)



Please consult MODU representative for further information and assistance.



MX2-5

Drive Units MX2 (Continued) Safety Cover for Front Drive and Combined Drive



- Material : Stainless Steel					
Item Code	Weight	Supply			
SC 268	1.8 kg	2 pcs/set			

Idler End

•

•

MX2 IE 320 TR

With transfer roller MX2 IE 320 DR

With driven roller



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

Please consult MODU representative for further information and assistance.

8.6 kg

10.4 kg

1 unit

1 unit



Conveyor Beam MX2





Accessories MX2







Item Code	Material	
MA2 SR 25	HDPE	
MA2 SR 25A	Anti-Static	

Slide Rail

Item Code	Material	Colour	Weight	Supply
MA2 SR 25	HDPE	Pure White	2.8 kg/roll	25m/roll
MA2 SR 25A	Anti-Static	Grey	2.8 kg/roll	25m/roll
MA2 SR 25U	UHMW-PE	Semi-Transparent White	3.5 kg/roll	25m/roll

Connecting Strip					
Item Code	Weight	Supply			
MA CS 25x140	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		

Supply

50 pcs/pkt

8	1210			-
		36	e fi	2
10	2	92		a
			6	1

-	7
	-/

Slide	Rail	Cutter	

Screw Item Code

MA RS 6.5

Item Code	Weight	Supply
MA SC	0.5 kg	1 pc

Weight

0.02 kg



Slide Rail Mounting Tool				
Item Code	Weight	Supply		
MX2 SRA	0.4 kg	1 pc		

Please consult MODU representative for further information and assistance.





Horizontal Plain Bends MX2

Plain bends comes with options for optimum usage

-Plain bend basic Unit.

-Plain bend with inner slide rail Type A (SA), Material = PE. [-Plain bend with inner slide rail Type B (SB). Material = Nylon.



Effective track length: R500: 0.42m 1-way (0.84m 2-way) R700: 0.53m 1-way (1.06m 2-way) R1000: 0.68m 1-way (1.36m 2-way). - Connecting strip and set screw included.



Effective track length: R= R500: 0.55m 1-way (1.10m 2-way) R700: 0.71m 1-way (1.42m 2-way) R1000: 0.95m 1-way (1.90m 2-way) - Connecting strip and set screw included.







Inner slide rail Type B

Type B (SB)

Horizontal Plain Bend, 30°

Without Inner Slide Rail

Item Code	R	Weight	Supply
MX2 BP 30R500	500 mm	3.8 kg	1 set
MX2 BP 30R700	700 mm	4.5 kg	1 set
MX2 BP 30R1000	1000 mm	5.5 kg	1 set

With Inner Slide Rail

Item Code	R	Weight	Supply
MX2 BP 30R500 SA	500 mm	4.3 kg	1 set
MX2 BP 30R700 SA	700 mm	5.0 kg	1 set
MX2 BP 30R1000 SA	1000 mm	6.3 kg	1 set

Horizontal Plain Bend, 45°

Without Inner Slide Rail

Item Code	R	Weight	Supply
MX2 BP 45R500	500 mm	4.6 kg	1 set
MX2 BP 45R700	700 mm	5.6 kg	1 set
MX2 BP 45R1000	1000 mm	7.2 kg	1 set

With Inner Slide Rail

Item Code	R	Weight	Supply
MX2 BP 45R500 SA	500 mm	5.1 kg	1 set
MX2 BP 45R700 SA	700 mm	6.1 kg	1 set
MX2 BP 45R1000 SA	1000 mm	8.0 kg	1 set

Horizontal Plain Bend, 60°

Without Inner Slide Rail

Item Code	R	Weight	Supply
MX2 BP 60R500	500 mm	5.4 kg	1 set
MX2 BP 60R700	700 mm	5.8 kg	1 set
MX2 BP 60R1000	1000 mm	8.8 kg	1 set

With Inner Slide Rail

Item Code	R	Weight	Supply
MX2 BP 60R500 SA	500 mm	5.9 kg	1 set
MX2 BP 60R700 SA	700 mm	6.3 kg	1 set
MX2 BP 60R1000 SA	1000 mm	9.5 kg	1 set

Horizontal Plain Bend, 90°

Without Inner Slide Rail

Item Code	R	Weight	Supply
MX2 BP 90R500	500 mm	7.2 kg	1 set
MX2 BP 90R700	700 mm	9.2 kg	1 set
MX2 BP 90R1000	1000 mm	12.2 kg	1 set

With Inner Slide Rail

Item Code	R	Weight	Supply
MX2 BP 90R500 SA	500 mm	7.7 kg	1 set
MX2 BP 90R700 SA	700 mm	9.7 kg	1 set
MX2 BP 90R1000 SA	1000 mm	12.8 kg	1 set

Tolerance: ± 2° & Radius: ± 10mm

* Please refer MODU representative for Inner Slide Rail Type B.

Please consult MODU representative for further information and assistance.





Vertical Bends MX2









Vertical Bend, 5°

Item Code	Weight	Supply
MX2 BV 5R1000	2.1 kg	1 set
	0	

Effective track length:

R1000: 0.25m 1-way (0.5m 2-way) Tolerance: ± 2° & Radius: ± 10mm

- Connecting strip and set screw included.

Vertical Bend, 7°

Item Code	Weight	Supply
MX2 BV 7R1000	2.3 kg	1 set
Effective track ler	ngth:	
R1000: 0.28m 1	-way (0.56m 2	2-way)

Tolerance: ± 2° & Radius: ± 10mm

- Connecting strip and set screw included.

Vertical Bend, 15°

ly	Supply	Weight	Item Code
t	1 set	3.2 kg	MX2 BV 15R1000
	1 set	•	MX2 BV 15R1000 Effective track ler

R1000: 0.42m 1-way (0.84m 2-way) Tolerance: ± 2° & Radius: ± 10mm - Connecting strip and set screw included.

Vertical Bend, 25°

Item Code	Weight	Supply
MX2 BV 25R1000	4.3 kg	1 set

Effective track length: R1000: 0.60m 1-way (1.20m 2-way) Tolerance: ± 2° & Radius: ± 10mm - Connecting strip and set screw included.

174 R1000 70

Vertical Bend, 30°

Item Code	Weight	Supply
MX2 BV 30R1000	5.6 kg	1 set

Effective track length: R1000: 0.68m 1-way (1.36m 2-way) Tolerance: ± 2° & Radius: ± 10mm - Connecting strip and set screw included.



Vertical Bend, 45°

Item Code	Weight	Supply
MX2 BV 45R1000	6.6 kg	1 set

Effective track length: R1000: 0.95m 1-way (1.90m 2-way) Tolerance: ± 2° & Radius: ± 10mm - Connecting strip and set screw included.

Please consult MODU representative for further information and assistance.



Notes:

- Non-Standard Vertical Bend only available in PE and Stainless Steel.

Beam Section For Chain Installation



Please consult MODU representative for further information and assistance.



Conveyor System MT2



Description

315 mm width thermoplastic belt with aluminium frame conveyor system

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

	1	
Chain Width		315 mm
Chain Pitch		45 mm
Chain Weight		3.80 kg/m
Chain Maximum	With Bend	1500N
Working Tension	Without Bend	1600N
Max Product Weight*		30 kg
Total Load*		300 Kg
Working Temperature*		-10°C to 60°c
Max Conveyor Length*		30m
Max Speed*		50 m/min
Drive Unit Capacity		1600 N
Item Width*		<500 mm



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

* Maximum total off 90° bends in one conveyor.

Please consult MODU representative for further information and assistance.



Chains MT2

Plastic Belt





- Suitable for conveyor configuration with

incline/decline up to 5° .

- Accumulation possible.

Item Code	Material	Colour	Weight	Supply
MT2 CP 5	POM	White	19.0 kg/roll	5m/roll

Plastic Cleated Belt







Side Guard L-R







- 15

*** Please consult MODU representative for actual plastic cleated belt configuration.

Chain Accessories MT2 Lubricant For Chain Chain Pin **Belt Lock** Item Code Weight Supply Item Code Weight Supply Item Code Supply Weight 0.35 kg MA SL MT2 PC 0.12 kg 10 pcs/pkt 1 pc MT2 BL 0.07 kg 10 pcs/pkt Silicone-based lubricant, 400ml Please consult MODU representative for further information and assistance. Units: Dimension (mm)

MT2-2







eq. Code for Basic unit; MT2 DT R M50 => Combined drive unit, motor on right side for Motovario NMRV 050 geared motor.

Front Drive Unit



Item Code	Weight	Supply
MT2 DD R/L S/M	9.4 kg	1 unit

Effective track length: 0.8m

Traction force: 1600N

- Connecting strip and set screw included.

Note:

- Refer TR15 for chain effective track length calculation.



Idler End



Item Code	Weight	Supply
MT2 IE 320	8.3 kg	1 unit

Effective track length: 0.8m

- Connecting strip and set screw included.

Note:

- Refer TR15 for chain effective track length calculation.



Please consult MODU representative for further information and assistance.



Conveyor Beam MT2



Accessories MT2





Slide Rail



Item Code	Material	Colour	Weight	Supply
MA2 SR 25	HDPE	Pure White	2.8 kg/roll	25m/roll
MA2 SR 25A	Anti-Static	Grey	2.8 kg/roll	25m/roll
MA2 SR 25U	UHMW-PE	Semi-Transparent White	3.5 kg/roll	25m/roll





16.4

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





Item Code	Weight	Supply
MA CS 20x140	1.5 kg	10 pcs/pkt
MA CS 25x140	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



Screw Item Code Weight Supply MA RS 6.5 0.02 kg 50 pcs/pkt



Rivet		
Item Code	Weight	Supply
MA RR 3	0.02 kg	50 pcs/pkt
Material: Brass Nie	ckel plated ((3mm)



Ninde Rall.	Δςςρπημι	Slide Rail Assembling Tool			
Item Code	Weight	Supply			
MT2 SRA	0.4 kg	1 pc			



Sli	de	Rail	Cutter
	_		

Item Code	Weight	Supply
MA SC	0.5 kg	1 pc

Please consult MODU representative for further information and assistance.



Horizontal Plain Bends MT2



Horizontal Plain Bend, 30°

Item Code	R	Weight	Supply
MT2 BP 30R900	900 mm	7.2 kg	1 set
Effective treat length;			

Effective track length: R900: 0.87m 1-way (1.74m 2-way)

Tolerance: ± 2° & Radius: ± 10mm

- Connecting strip and set screw included.



Horizontal Plain Bend, 45°

Item Code	R	Weight	Supply
MT2 BP 45R900	900 mm	8.3 kg	1 set
Effective track length: R900: 1.11m 1-way (2.22m 2-wa	av)		
Tolerance: ± 2° & Radius: ± 10m			

- Connecting strip and set screw included.



Horizontal Plain Bend, 60°

Item Code	R	Weight	Supply
MT2 BP 60R900	900 mm	10.2 kg	1 set
Effective track length: R900: 1.35m 1-way (2.70m 2-w Tolerance: ± 2° & Radius: ± 10m - Connecting strip and set screw	m		



Horizontal Plain Bend, 90°

Item Code	R	Weight	Supply
MT2 BP 90R900	900 mm	14.2 kg	1 set
Effective track length: R900: 1.81m 1-way (3.62m 2-w Tolerance: ± 2° & Radius: ± 10m - Connecting strip and set screw	m		

Please consult MODU representative for further information and assistance.





Vertical Bends MT2







Chain Installation Section



Item Code	Weight	Supply
MT2 CIS 300	4.9 kg	1 Unit

- Connecting strip and set screw included.

Vertical Bend, 5°

Item Code	Weight	Supply
MT2 BV 5R500	5.6 kg	1 set

Effective track length:

R500: 0.44m 1-way (0.88m 2-way)

Tolerance: ± 2° & Radius: ± 10mm

- Connecting strip and set screw included.

Vertical Bend, 15°

Item Code	Weight	Supply
MT2 BV 15R500	6.2 kg	1 set
Effective track leng R500: 0.53m 1-w Tolerance: ± 2° & l - Connecting strip	ay (1.06m 2 Radius: ± 10	mm

Vertical Bend, 25°

Item Code	Weight	Supply
MT2 BV 25R500	6.8 kg	1 set

Effective track length: R500: 0.62m 1-way (1.24m 2-way) Tolerance: ± 2° & Radius: ± 10mm - Connecting strip and set screw included.



Please consult MODU representative for further information and assistance.





Description

435mm width thermoplastic chain with aluminium frame conveyor system

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		438 mm
Chain Pitch		45 mm
Chain Weight		5.28 kg/m
Chain Maximum	With Bend	1500N
Working Tension	Without Bend	1600N
Max Product Weight*		30 kg
Total Load*		300 Kg
Working Temperature*		-10°C to 60°c
Max Conveyor Length*		30m
Max Speed*		50 m/min
Drive Unit Capacity		1600 N
Item Width*		<600 mm







Please consult MODU representative for further information and assistance.



Silicone-based lubricant, 400ml Please consult MODU representative for further information and assistance.

Units: Dimension (mm)

MR2-2





eq. Code for Basic unit; MR2 DT R M50 => Combined drive unit, motor on right side for Motovario NMRV 050 geared motor.

Front Drive Unit



Idler End



Item Code	Weight	Supply
MR2 IE 320	9.8 kg	1 unit

Effective track length: 0.8m

- Connecting strip and set screw included.

Note:

- Refer TR15 for chain effective track length calculation.



Units: Dimension (mm)



Please consult MODU representative for further information and assistance.

Conveyor Beam MR2





Accessories MR2









Slide Rail

Item Code	Material	Colour	Weight	Supply
MA2 SR 25	HDPE	Pure White	2.8 kg/roll	25m/roll
MA2 SR 25A	Anti-Static	Grey	2.8 kg/roll	25m/roll
MA2 SR 25U	UHMW-PE	Semi-Transparent White	3.5 kg/roll	25m/roll

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
MA CS 20x140	1.5 kg	10 pcs/pkt
MA CS 25x140	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



 Screw

 Item Code
 Weight
 Supply

 MA RS 6.5
 0.02 kg
 50 pcs/pkt



Rivet		
Item Code	Weight	Supply
MA RR 3	0.02 kg	50 pcs/pkt
Material: Brass Nic	0	



Slide Rail Assembling Tool			
Slide Rail Assembling Tool			
Item Code	Weight	Supply	
MT2 SRA	0.4 kg	1 pc	



Slide Rail Cutter

X	Item Code	Weight	Supply
Ľ	MA SC	0.5 kg	1 pc

Please consult MODU representative for further information and assistance.



Horizontal Plain Bends MR2



Horizontal Plain Bend, 30°

Item Code	R	Weight	Supply
MR2 BP 30R1200	1200 mm	8.9 kg	1 set
Effective track length:			
R1200: 1.03m 1-way (2.06m 2-)	vav)		

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

- Connecting strip and set screw included.

Horizontal Plain Bend, 45°

Item Code	R	Weight	Supply
MR2 BP 45R1200	1200 mm	10.5 kg	1 set
Effective track length: R1200: 1.35m 1-way (2.70m 2- Tolerance: ± 2° & Radius: ± 10mi - Connecting strip and set screw	m		



Horizontal Plain Bend, 60°

	-		
Item Code	R	Weight	Sup
MR2 BP 60R1200	1200 mm	13.2 kg	1 :
Effective track length: R1200: 1.66m 1-way (3.32m 2- Tolerance: ± 2° & Radius: ± 10m - Connecting strip and set screw	m		



Horizontal Plain Bend, 90°

Item Code	R	Weight	Supply
MR2 BP 90R1200	1200 mm	13.2 kg	1 set
Effective track length: R500: 2.29m 1-way (4.58m 2-w Tolerance: ± 2° & Radius: ± 10m - Connecting strip and set screw	m		

AP Ř MR2 MT2 MX2 ML2 MM3 MS2 MF2 Β MB MΑ DF2 DR2 DT2 DX2 DL2 DM3 DS2 b 08 PA S ß ᄇ Σ МΜ

opl

set

Please consult MODU representative for further information and assistance.

MODU

Simplicity . Solutions

Vertical Bends MR2







Vertical Bend, 5°

Item Code	Weight	Supply
MR2 BV 5R500	5.6 kg	1 set

Effective track length:

R500: 0.44m 1-way (0.88m 2-way)

Tolerance: ± 2° & Radius: ± 10mm

- Connecting strip and set screw included.

Vertical Bend, 15°

Item Code	Weight	Supply		
MR2 BV 15R500	6.5 kg	1 set		
Effective track length:				
R500: 0.53m 1-way (1.06m 2-way)				
Tolerance: ± 2° &	Radius: ± 10	mm		

- Connecting strip and set screw included.

Vertical Bend, 25°

Item Code	Weight	Supply
MR2 BV 25R500	7.1 kg	1 set
Effective track leng R500: 0.62m 1-w Tolerance: ± 2° & I - Connecting strip	ay (1.24m 2 Radius: ± 10	mm

Chain Installation Section



Item Code	Weight	Supply
MR2 CIS 300	5.3 kg	1 Unit

- Connecting strip and set screw included.



Please consult MODU representative for further information and assistance.



Conveyor System MF2



Description

585 mm width thermoplastic chain with aluminium frame conveyor system.

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		585 mm
Chain Pitch		45 mm
Chain Weight		7.07 kg/m
Chain Maximum	With Bend	1500N
Working Tension	Without Bend	1600N
Max Product Weight*		30 kg
Total Load*		300 Kg
Working Temperature*		-10°C to 60°c
Max Conveyor Length*		30m
Max Speed*		50 m/min
Drive Unit Capacity		1600 N
Item Width*		<700 mm



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

Please consult MODU representative for further information and assistance.







Chains MF2 Plastic Belt



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

- Accumulation possible.

Item Code	Material	Colour	Weight	Supply
MF2 CP 5	POM	White	35.4 kg	5m/roll



Plastic Cleated Belt









Side Guard L-R





** Please consult MODU representative for actual plastic cleated belt configuration.

Chain Accessories MF2

Lubricant For Chain





Belt Lock



Item Code	Weight	Supply
MT2 BL	0.07 kg	10 pcs/pkt

Silicone-based lubricant, 400ml Please consult MODU representative for further information and assistance.






eg. Code for Basic unit; MF2 DT R M50 => Combined drive unit, motor on right side for Motovario NMRV 050 geared motor.

Front Drive Unit



Idler End

Effective track length: 0.8m

- Connecting strip and set screw included.

- Refer TR15 for chain effective track length calculation.





AP

Ĕ

Please consult MODU representative for further information and assistance.

Units: Dimension (mm)



Simplicity . Solutions

MF2-3

Note:

Conveyor Beam MF2







Accessories MR2



Slide Rail

Item Code	Material	Colour	Weight	Supply
MA2 SR 25	HDPE	Pure White	2.8 kg/roll	25m/roll
MA2 SR 25A	Anti-Static	Grey	2.8 kg/roll	25m/roll
MA2 SR 25U	UHMW-PE	Semi-Transparent White	3.5 kg/roll	25m/roll

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
MA CS 20x140	1.5 kg	10 pcs/pkt
MA CS 25x140	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



ScrewItem CodeWeightSupplyMA RS 6.50.02 kg50 pcs/pkt



Rivet		
Item Code	Weight	Supply
MA RR 3	0.02 kg	50 pcs/pkt
Material: Brass Nie	ckel plated	(3mm)



Slide Rail Assembling Tool			
Item Code	Weight	Supply	
MT2 SRA	0.4 kg	1 pc	



Slide Rail Cutter

X	Item Code	Weight	Supply
10	MA SC	0.5 kg	1 pc

Please consult MODU representative for further information and assistance.



Horizontal Plain Bends MF2



Horizontal Plain Bend, 30°

Item Code	R	Weight	Supply
MF2 BP 30R1700	1700 mm	11.5 kg	1 set
Effective track length: R1700: 1.29m 1-way (2.58m 2-1 Tolerance: ± 2° & Radius: ± 10mi - Connecting strip and set screw	m		



70----200 R1700

Horizontal Plain Bend, 45°

Item Code	R	Weight	Supply
MF2 BP 45R1700	1700 mm	15.2 kg	1 set
Effective track length: R1700: 1.74m 1-way (3.48m 2- Tolerance: ± 2° & Radius: ± 10m - Connecting strip and set screw	m		

Horizontal Plain Bend, 60°

Item Code	R	Weight	Supply
MF2 BP 60R1700	1700 mm	19.0 kg	1 set
Effective track length: R1700: 2.18m 1-way (4.36m 2-way) Tolerance: ± 2° & Radius: ± 10mm - Connecting strip and set screw included.			



Horizontal Plain Bend, 90°

Item Code	R	Weight	Supply	B
MF2 BP 90R1700	1700 mm	25.1 kg	1 set	
				DB
Effective track length:				_
<i>R1700:</i> 3.1m 1-way (6.2m 2-wa Tolerance: ± 2° & Radius: ± 10m				A
- Connecting strip and set screw				
				SD
				S
				ш
				SE
				F
↑ 200				_
70				ΣI
Ť				_
and assistance.		Units: Dimens	ion (mm)	ΜМ
			· /	~

Please consult MODU representative for further information and assistance.

MODU





Vertical Bends MF2







Vertical Bend, 5°

Item Code	Weight	Supply		
MF2 BV 5R500	6.9 kg	1 set		
Effective track length: R500: 0.44m 1-way (0.88m 2-way) Tolerance: ± 2° & Radius: ± 10mm				
- Connecting strip	and set scre	w included.		

Vertical Bend, 15°

Item Code	Weight	Supply
MF2 BV 15R500	7.3 kg	1 set
Effective track leng R500: 0.53m 1-w Tolerance: ± 2° & I - Connecting strip	vay (1.06m 2 Radius: ± 10	mm

Vertical Bend, 25°

Item Code	Weight	Supply
MF2 BV 25R500	8.0 kg	1 set
Effective track leng R500: 0.62m 1-w Tolerance: ± 2° & - Connecting strip	vay (1.24m 2 Radius: ± 10	mm

Chain Installation Section



Item Code	Weight	Supply
MF2 CIS 300	5.9 kg	1 Unit

- Connecting strip and set screw included.



Please consult MODU representative for further information and assistance.



Conveyor Guide MG



AP

Please consult MODU representative for further information and assistance.

Units: Dimension (mm)



Simplicity . Solutions



Guide Configuration MG Guide Assembly - Type 1 (G1 &G1K)



Guide Assembly - Type 2 (G2)





Please consult MOD 12 the sent ative for further in the inter and a MFassistances

Supply:

- Items are supplied individually.
- Features:
- Height & width adjustable by single dome nut or knob.
- Adjustment every 10mm on one side and other side continuous adjustment.

Option:

- PE Guide rail cover (MG RC 25x23 or MG RC 25x33)

Series	Width Ad		Item Code	Description
	Min	Max		
MS2	70	170	MS G1	M10 dome nut
IVISZ	70	170	MS G1K	With knob
ММЗ	90	190	MM G1	M10 dome nut
IVIIVIS	90	190	MM G1K	With knob
ML2	150	250	ML G1	M10 dome nut
IVILZ	150	250	ML G1K	With knob
MX2	230	330	MX G1	M10 dome nut
IVI AZ	230	330	MX G1K	With knob
MT2	364	464	MT2 G1	M10 dome nut
IVI I Z	364	464	MT2 G1K	With knob
MR2	485	585	MR2 G1	M10 dome nut
IVITZ	485	585	MR2 G1K	With knob
MF2	630	730	MF2 G1	M10 dome nut
IVIF2	630	730	MF2 G1K	With knob

Supply:

- Items are supplied individually.
- Features:
- Height and width adjustable
- Distance tube standard width:
- 100, 150 & 200mm
- Other size, please specify

Series	Item Code	
MS2	MG G2	
MM3	MM G2	
ML2	ML G2	1
MX2	MX G2	1
MT2	MT2 G2	2
MR2	MR2 G2	A H
MF2	MF2 G2	4



- Items are supplied individually.

Features:

- Height & width adjustable by single dome nut or knob.
- Adjustment every 10mm on one side and other side continuous adjustment.

Option:

- PE Guide rail cover (MG RC 25x23 or MG RC 25x33)

Series	Width Adju	Width Adjustment		Description	
Series	Min	Мах	Item Code	Description	
MS2	25	125	MS G3	M10 dome nut	
IVI3Z	25	125	MS G3K	With knob	
ммз	45	145	MM G3	M10 dome nut	
IVIIVIS	45	145	MM G3K	With knob	
ML2	100	200	ML G3	M10 dome nut	
IVILZ	100	200	ML G3K	With knob	
MX2	185	285	MX G3	M10 dome nut	
IVIAZ	185	285	MX G3K	With knob	
MT2	319	419	MT2 G3	M10 dome nut	
	319	419	MT2 G3K	With knob	
MR2	440	540	MR2 G3	M10 dome nut	
IVITZ	440	540	MR2 G3K	With knob	
McFassis	585	685	MF2 G3.	_M10 dome nut	
MUTAISSIS	lance	685	ME2 Car	s: Dimension (mm)	



Guide Configuration MG (continued) Guide Assembly - Type 4 (G4)





Guide Assembly - Type 6 (G6)



Please consult MODU representative for further information and assistance.



Simplicity . Solutions

Supply:

- Items are supplied individually.

Features:

- Height and width adjustable
- Distance tube standard width:
 - 100, 150 & 200mm
 - Other size, please specify

Series	Item Code	
MS2	MS G4	
MM3	MM G4	4
ML2	ML G4	134 12 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
MX2	MX G4	
MT2	MT2 G4	
MR2	MR2 G4	
MF2	MF2 G4	

Supply:

- Items are supplied individually.

Features:

- Height & width adjustable by single dome nut or knob.
- Adjustment every 10mm on one side and other side continuous adjustment.

Option:

- PE Guide rail cover (MG RC 25x23 or MG RC 25x33)

Series	Width Adjustment	ustment	Item Code	Description
Series	Min	Мах	nem code	Description
MS2	25	125	MS G5	M10 dome nut
10132	25	125	MS G5K	With knob
MM3	45	145	MM G5	M10 dome nut
IVIIVI3	45	145	MM G5K	With knob
ML2	100	200	ML G5	M10 dome nut
IVILZ	100	200	ML G5K	With knob
MX2	185	285	MX G5	M10 dome nut
IVIAZ	185	285	MX G5K	With knob
MT2	319	419	MT2 G5	M10 dome nut
IVI I Z	319	419	MT2 G5K	With knob
MR2	440	540	MR2 G5	M10 dome nut
IVIR2	440	540	MR2 G5K	With knob
MF2	585	685	MF2 G5	M10 dome nut
IVIF2	585	685	MF2 G5K	With knob



MG MF2 MR2 MT2 MX2 ML2 MM3 MS2 MΒ MA DF2 DR2 DT2 DX2 DL2 DM3 DS2 bQ **DB** DA SD SE ᄇ ΣI МΜ

AP

Ř

V16.0

MF2 MF2 G6

Supply:

Features:

Series

MS2

MM3

ML2

MX2

MT2

MR2

- 100, 150 & 200mm

Item Code

MS G6

MM G6

MI G6

MX G6

MT2 G6

MR2 G6

Guide Configuration MG (continued)

Guide Assembly - Type 7 (G7)

Supply:

- Items are supplied individually. Option:

- PE Guide rail cover (MG RC 25x23 or MG RC 25x33)



Series	Width Maximum	Item Code		
MS2	137.5	MS G7		
MM3	157.5	MM G7		
ML2	216.5	ML G7		
MX2	296.5	MX G7		
MT2	431.5	MT2 G7		
MR2	552.5	MR2 G7		
MF2	697.5	MF2 G7		





Supply:

- Items are supplied individually.

Features:

- Height & width adjustable by single dome nut or knob.
- Adjustment every 10mm on one side and other side continuous adjustment.

Option:

- PE Guide rail cover (MG RC 25x23 or MG RC 25x33)

Series	Width Adjustment		Item Code	Description	
Series	Min	Мах	nem Code	Description	
ML2	230	330	ML G8	M10 dome nut	
IVILZ	230	330	ML G8K	With knob	
MX2	310	410	MX G8	M10 dome nut	
	310	410	MX G8K	With knob	
MTO	364	464	MT2 G8	M10 dome nut	
MT2	364	464	MT2 G8K	With knob	
MR2	485	585	MR2 G8	M10 dome nut	
IVITAL	485	585	MR2 G8K	With knob	
	630	730	MF2 G8	M10 dome nut	
MF2	630	730	MF2 G8K	With knob	

Guide Assembly - Type 9 (G9 & G9K)



Supply:

- Items are supplied individually.

Features:

- Height & width adjustable by single dome nut or knob.
- Adjustment every 10mm on one side and other side continuous adjustment.

Option:

- PE Guide rail cover (MG RC 25x23 or MG RC 25x33)

MG BR 100 MG BB 50 Guide rail	oracket Series	Width Adju	ıstment	Item Code	Description
MG BS 40G Guide rail Guide rail Guide rail	Jacker Series	Min	Мах	nem coue	Description
Spacer Bollom Guide	ML2	175	275	ML G9	M10 dome nut
	IVILZ	175	275	ML G9K	With knob
	MX2	255	355	MX G9	M10 dome nut
Ray france By has all	IVIAZ	255	355	MX G9K	With knob
frazin and frazing and frazing	MT2	359	459	MT2 G9	M10 dome nut
The second of th	IVI I Z	359	459	MT2 G9K	With knob
2-10-10-2-10-2	MR2	510	610	MR2 G9	M10 dome nut
	IVIR2	510	610	MR2 G9K	With knob
M10 dome nut with Ki	ND NTO	655	755	MF2 G9	M10 dome nut
	1011 2	655	755	MF2 G9K	With knob
Please consult MODU representative for further informati	on and assista	nce.		Units: D	imension (mm)





Guide Configuration MG (continued) Guide Assembly - Type 10 (G10 & G10K)



Guide Assembly - Type 11 (G11)



Guide Assembly - Type 12 (G12)



Supply:

- Items are supplied individually.

Features:

Height & width adjustable by single dome nut or knob.
 Adjustment every 10mm on one side and other side continuous adjustment.

Option:

- PE Guide rail cover (MG RC 25x23 or MG RC 25x33)

Series	Width Adjı	ıstment	Item Code	Description	
Series	Min	Мах	nem coue	Description	
ML2	175	275	ML G10	M10 dome nut	
IVILZ	175	275	ML G10K	With knob	
	255	355	MX G10	M10 dome nut	
MX2	255	355	MX G10K	With knob	
MT2	389	489	MT2 G10	M10 dome nut	
	389	489	MT2 G10K	With knob	
MR2	510	610	MR2 G10	M10 dome nut	
IVIRZ	510	610	MR2 G10K	With knob	
MF2	655	755	MF2 G10	M10 dome nut	
IVIF2	655	755	MF2 G10K	With knob	



Supply:

- Items are supplied individually.

Features:

- Width adjustable by single knob

Series	Width Maximum	Item Code
MS2	55	MS G11
MM3	75	MM G11
ML2	135	ML G11
MX2	215	MX G11
MT2	349	MT2 G11
MR2	470	MR2 G11
MF2	615	MF2 G11



Supply:

- Items are supplied individually.

Features:

- Width adjustable by single knob

Series	Width Maximum	Item Code
MS2	60	MS G12
MM3	80	MM G12
ML2	140	ML G12
MX2	220	MX G12
MT2	354	MT2 G12
MR2	475	MR2 G12
MF2	620	MF2 G12

Please consult MODU representative for further information and assistance.



AP



Simplicity . Solutions

Guide Rail Brackets MG Guide Rail Bracket

Guide Rail Bracket



Guide Rail Bracket



- Screws included

Item Code	D1 (mm)	S1 (mm)	D2 (mm)	S2 (mm)	Weight	Supply
MG BB2 12x12	12	10	12	10	0.06 kg	10 pcs/pkt
MG BB2 18x18	18	15	18	15	0.06 kg	10 pcs/pkt
MG BB2 18x20	18	15	20	16	0.05 kg	10 pcs/pkt
MG BB2 20x20	20	16	20	16	0.05 kg	10 pcs/pkt

Please consult MODU representative for further information and assistance.

Units: Dimension (mm)





MODU Simplicity . Solutions



Units: Dimension (mm)



Simplicity . Solutions

MG-7







- Used with rectangular guide rail (MG RR 3x20)

Item Code	Weight	Supply
MG RC 25x23	1.4 kg	25 m



- Used with rectangular guide rail (MG RR 3x20)

Item Code	Weight	Supply
MG RC 25x33	1.5 kg	25 m



Item Code	Weight	Supply
MG BK 20	0.01 kg	1 pc

Please consult MODU representative for further information and assistance.





MODI

Simplicity . Solutions

End Caps MG End Cap, Ø18mm	End Cap, Ø20mm
- For MG RR 3x18	
Item CodeWeightSupplyMG EC 180.04 kg50 pcs/pkt	Item CodeWeightSupplyMG EC 200.06 kg50 pcs/pkt

End Cap, 20mm



Guide Rail MG

Rectangular Guide Rail





Item Code	Weight	Supply
MG RR 3x20 Aluminium Guide Rail	1.2 kg	3 m
MG RR 3x20P PE Guide Rail	1.0 kg	3 m

Stainless Steel Guide Rail



Please consult MODU representative for further information and assistance.

$\langle \rangle \rangle$



Guide Rail Tube



- Standard length L = 100, 150 or 200mm - Non standard length to be specified.

Item Code	Weight	Supply
MG RR 3x18	1.2 kg	3 m
MG RR 100x18	0.4 kg	10 pcs/pkt
MG RR 150x18	0.5 kg	10 pcs/pkt
MG RR 200x18	0.7 kg	10 pcs/pkt
MG RR Lx18		10 pcs/pkt





Conveyor Structural System MB



Units: Dimension (mm)



Please consult MODU representative for further information and assistance.

Simplicity . Solutions





Structural Assembly - Type 2 (B2)



Structural Assembly - Type 2A (B2A)



Structural Assembly - Type 3 (B3)



Please consult MODU representative for further information and assistance.

Units: Dimension (mm)



Simplicity . Solutions

Conveyor Support Design MB Structural Assembly - Type 4 (B4)	Structural Assembly - Type 5 (B5)
<image/>	MA BS 100 Support Bracket MB CP 80T Connecting Plate MB FF 80 Structural Beam Structural Beam MB FF 80 Foot Junctural Beam Structural Beam MB FF 80 Foot Junctural Beam Structural Beam MB FF 80 Foot Junctural Beam Structural Beam MB FF 80 Structural Beam Structural Beam MB FF 80 Structural Beam Structural Beam Structural Beam Structural Beam Structural Beam Connecting Plate Legith of beam, L = Conveyor height - 225 - Items are supplied individually. Structural BS 100A MS B5 MA BS 100A MK B5 MA BS 100A MK 2 B5 MA BS 100A MK 2 B5 MA BS 100A MF 2 B5
<section-header></section-header>	<image/> <image/>



Simplicity . Solutions

MB-3



Units: Dimension (mm)



Simplicity . Solutions



Units: Dimension (mm)



Simplicity . Solutions

МΜ

Brackets & Accessories MB

Inner Bracket, 90°



Inner Bracket, 90° Double set screw





- Material : Mild Steel, Zinc Plated. - Set screw include
- Item Code Weight Supply

38

		- appij
MB BI 8L - D	0.3 kg	10 pcs/pkt

Inner Bracket, 90° Cross





- Material : Mild Steel, Zinc Plated.

- Set screw include

Item Code	Weight	Supply
MB BI 8L -X	0.3 kg	10 pcs/pkt

Application Assembly



- Items can be use with 80x80, 40x80, 40x40 and 20x40 beam.

Please consult MODU representative for further information and assistance.

38





Connecting Strip



Please consult MODU representative for further information and assistance.







Foot Caps MB Adjusting Foot Cap, M12





Item Code	Weight	Supply
MB FF 12x100 Mild Steel, Zinc Plated	0.15 kg	1 pc
MB FF 12x150 Mild Steel, Zinc Plated	0.18 kg	1 pc
MB FF 12x100S Stainless Steel	0.13 kg	1 pc
MB FF 12x150S Stainless Steel	0.16 kg	1 pc

Adjusting Foot Cap, M16



Item Code	Weight	Supply
MB FH 16x100 Mild Steel, Zinc Plated	0.25 kg	1 pc
MB FH 16x100S Stainless Steel	0.25 kg	1 pc

Adjusting Foot Cap, M16





Item Code	Weight	Supply
MB FF 16x100 Mild Steel, Zinc Plated	0.3 kg	1 pc
MB FF 16x150 Mild Steel, Zinc Plated	0.4 kg	1 pc
MB FF 16x100S Stainless Steel	0.26 kg	1 pc
MB FF 16x150S Stainless Steel	0.3 kg	1 pc

Adjusting Foot Cap, M16





Item Code	Weight	Supply
MB FP 16x100 Plastic Base, Mild Steel, Zinc Plated Stud	0.4 kg	1 pc
MB FP 16x150 Plastic Base, Mild Steel, Zinc Plated Stud	0.4 kg	1 pc
MB FP 16x100S Plastic Base, Mild Steel, Zinc Plated Stud	0.4 kg	1 pc
MB FP 16x150S Plastic Base, Mild Steel, Zinc Plated Stud	0.4 kg	1 pc

Please consult MODU representative for further information and assistance.

MODU

MB-9

МΜ

Support Bracket MB

Support Bracket for 40x80 Beam





- Material: Aluminum
- Used with adjusting foot cap
- Ø12mm for M12 foot thread adjusting foot cap - Ø16mm for M16 foot thread adjusting foot cap

2.0000000000000000000000000000000000000		a a a jao an ig	1
Item Code	Weight	Supply	
MB FB 40x80x12	0.3 kg	1 pc	
MB FB 40x80x16	0.3 kg	1 pc	

Support Foot MB

Foot 40x40mm





Height adjustment range: ± 50

Material: Mild Steel, Powder Coated

Item Code	Weight	Supply
MB FF 40	1.2 kg	1 pc

Foot 80x80mm



Please consult MODU representative for further information and assistance.

Support Bracket for 80x80 Beam





Material: Aluminium

- Used with adjusting foot cap

- Ø12mm for M12 foot thread adjusting foot cap
- Ø16mm for M16 foot thread adjusting foot cap

Item Code	Weight	Supply
MB FB 80x80x12	0.6 kg	1 pc
MB FB 80x80x16	0.6 kg	1 pc

Foot 40x80mm





Height adjustment range: ± 50

Material: Mild Steel, Powder Coated

Item Code	Weight	Supply
MB FF 40x80	2.0 kg	1 pc

Foot 80x80mm





Height adjustment range: ± 30 Material: Cast Aluminium, Powder Coated

Item Code	Weight	Supply
MB FF 80A	2.0 kg	1 pc











0.18 kg

1 pc



MB-11



MODU Simplicity . Solutions

Connecting Plates MB (Continued)



Connecting Plate T



- Material : Mild Steel, Zinc Plated.

Item Code

MB CP 80T

- T-joint for 80x80mm Structural Beam

Weight

0.7 kg

Supply

1 pc



Connecting Plate T



Please consult MODU representative for further information and assistance.



Conveyor Accessories MA

Please consult MODU representative for further information and assistance.

Units: Dimension (mm)



Simplicity . Solutions



Fasteners MA

Cap Screw, M6 & M8



Item Code	Description	Weight	Supply
MA BC M6x16	M6x 16mm	0.6 kg	100 pcs/pkt
MA BC M6x20	M6x 16mm	1.2 kg	100 pcs/pkt
MA BC M8x16	M6x 16mm	1.2 kg	100 pcs/pkt
MA BC M8x20	M6x 16mm	1.3 kg	100 pcs/pkt

Lock Nut, M6, M8 & M10



Item Code	Weight	Supply
MA NL 6	0.5 kg	200 pcs/pkt
MA NL 8	1.0 kg	200 pcs/pkt
MA NL 10	0.6 kg	200 pcs/pkt

Square Nut, M6 & M8



Thickness: 5mm

Item Code	Weight	Supply
MANS 6	1.3 kg	100 pcs/pkt
MA NS 8	1.3 kg	100 pcs/pkt

Locking Washer



- Locking washer for friction & gripper pad

Item Code	Weight	Supply
MA WL 5	0.01 kg	50 pcs/pkt

Hex Head Bolt, M6, M8 & M10





Item Code	Description	Weight	Supply
MA BH M6x16	M6x 16mm	0.6 kg	100 pcs/pkt
MA BH M6x20	M6x 20mm	0.8 kg	100 pcs/pkt
MA BH M8x12	M8x 12mm	1.2 kg	100 pcs/pkt
MA BH M8x16	M8x 16mm	1.2 kg	100 pcs/pkt
MA BH M8x20	M8x 20mm	1.3 kg	100 pcs/pkt
MA BH M8x25	M8x 25mm	1.3 kg	100 pcs/pkt
MA BH M10x20	M10x 20mm	2.2 kg	100 pcs/pkt
MA BH M10x25	M10x 25mm	2.3 kg	100 pcs/pkt

Countersunk Screw



Item Code	Weight	Supply
MA SC M8x16	0.7 kg	100 pcs/pkt
MA SC M8x20	0.8 kg	100 pcs/pkt

Button Head Bolt





Item Code	Description	Weight	Supply
MA BB M6x16	M6x 16mm	1.0 kg	100 pcs/pkt
MA BB M6x20	M6x 20mm	1.1 kg	100 pcs/pkt

Floor Anchor Bolt



machior		moladoa	
Item Coo	le	Weight	Sup

item Code	vveignt	Supply
MA BF M10	2.5 kg	50 pcs/pkt

Please consult MODU representative for further information and assistance.



Fasteners MA	
Rivet	Screw
Material: Brass Nickel plated (3mm)	No. of the second se
Item Code Weight Supply MA RR 3 0.02 kg 50 pcs/pkt	Item CodeWeightSupplyMA RS 6.50.02 kg50 pcs/pkt
Flat Washer, M6, M8 & M10	Set Screw
000	DUS
Zinc plated Weight Supply MA WF 6 0.25 kg 200 pcs/pkt MA WF 8 0.48 kg 200 pcs/pkt MA WF 10 0.80 kg 200 pcs/pkt	- Length, L=40mm <u>Item Code Weight Supply</u> MA SS M8x40 1.0 kg 100 pcs/pkt
T-Bolt <u>Item Code Weight Supply</u> MA BT 20 0.7kg 50 pcs/pkt	
Sensor Brackets MA	
Ø12mm Proximity Sensor	Ø18mm Proximity Sensor
- Guide rail mount sensor bracket <u>Item Code</u> <u>Weight</u> <u>Supply</u> MA BA 12 0.03 kg 1 set	- Guide rail mount sensor bracket <u>Item Code Weight Supply</u> MA BA 18 0.025 kg 1 set
Please consult MODU representative for further information	and assistance



Chain Top Replacements MA

MM3 Friction Pad

S:	



- Friction pad used fo	r gen 3 chair	1
Item Code	Weight	Supply
MM3 FP 83	0.01 kg	10 pcs/pkt

MM3 Gripper Box

ML2 Friction Pad



Item Code	Description	Weight	Supply
MM3 GP 83BS	Soft - 50A	0.20 kg	100 pcs/pkt
MM3 GP 83BM	Medium - 60A	0.20 kg	100 pcs/pkt
MM3 GP 83BH	Hard - 73A	0.25 kg	100 pcs/pkt

MM3 Finger Gripper Pad





- Finger gripper pad used for gen 3 chain

Item Code	Weight	Supply
MM3 GP 83F	0.09 kg	10 pcs/pkt

MM3 Wedge Gripper



Silicone Pad Gripper



Chain Accessories MA

Item Code

MS2 PV

MS2 Stainless Steel Pin



MM3 Chain Pivot

MS2 Chain Pivot

Item Code	Weight	Supply
MM3 PV	0.02 kg	10 pcs/pkt

ML2 / MX2 Chain Pivot

				-	
ly	Supply	Weight	Item Code		
/pkt	10 pcs/p	0.07 kg	ML2 PV		
ÿ	10 pcs	0.07 Kg	ML2 PV		

MM3 Stainless Steel Pin



ML2 / MX2 Stainless Steel Pin

Item Code	Weight	Supply
ML2 PN M8x73	0.28 kg	10 pcs/pkt

Please consult MODU representative for further information and assistance.



Accessories MA

Slide Rail

	14	
-		
		9
C		



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

Slide Rail



- For ML2, MX2, MT2, MR2 & MF2 Series

Item Code	Material	Colour	Weight	Supply
MA2 SR 25	HDPE	Pure White	2.8 kg/roll	25m/roll
MA2 SR 25A	Anti-Static	Grey	2.8 kg/roll	25m/roll
MA2 SR 25U	UHMW-PE	Semi-Transparent White	3.5 kg/roll	25m/roll

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

AP

MG MF2 MR2 MT2 MX2 ML2 MM3 MS2 TR

MΒ

DF2 DR2 DT2 DX2 DL2 DM3 DS2 MA

ß

DB

DA

SD

ß

F

ΣI

МΜ



Accessories MA



Return Chain Guide MA

ML2 Return Chain Guide



MX2 Return Chain Guide



Please consult MODU representative for further information and assistance.







MODU



МΜ

MT2 / MR2 & MF2 Drive Sprocket



Lubricant

Lubricant For Chain



Silicone-based lubricant, 400ml

Item Code	Weight	Supply
MA SL	0.35 kg	1 pc

Please consult MODU representative for further information and assistance.





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
ltem Width*		15-140 mm

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

Please consult MODU representative for further information and assistance.



Simplicity . Solutions

DS2-1

Chains DS2





0

63.5

63.5

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 : Grey.
- 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.

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

Attachment For Chain Tool

Chain Accessories DS2

* Other cleated height are available upon request.

Lubricant For Chain		Stainless Steel Pin			Chain Pivot			
- Sector Se	Silicone-based lub	oricant,					Ţ	
Item Code	Weight	Supply	Item Code	Weight	Supply	Item Code	Weight	Supply
MA SL	0.35 kg	1 pc	MS2 PN M4x37	0.07 kg	10 pcs/pkt	MS2 PV	0.01 kg	10 pcs/pkt
						1		

Chain Pin Insertion Tool



Please consult MODU representative for further information and assistance.



Simplicity . Solutions






A



DS2-3

Drive Units DS2 (Continued)

Safety Cover for Front Drive Short Safety Cover



- Material : Stainle	ss Steel	
Item Code	Weight	Supply
SC 139	0.8 kg	2 pcs/set

Idler End

Basic Idler End



Idler End with Free Roller





Idler End with Driven Roller *(Right)



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

Normal Safety Cover



- Material : Stainless Steel			
Item Code	Weight	Supply	
SC 267	1.4 kg	2 pcs/set	



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

Effective track length: 0.8m

- Connecting strip and set screw included.

Note:

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

Please consult MODU representative for further information and assistance.



Conveyor Beam DS2



Item Code	Weight	Supply
DS2 CB 2.4	6.2 kg	2.4 m

Accessories DS2





Slide	Rail

onde Man				
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



Item Code	Weight	Supply	
MA CS 25x140	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

eight Supply
02 kg 50 pcs/pkt



Please consult MODU representative for further information and assistance.





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: ± 2°

- 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: ± 2° - Connecting strip and screw inc	luded.	

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: ± 2°

- 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: ± 2°

- 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: ± 2°

- Connecting strip and screw included.

Please consult MODU representative for further information and assistance.



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: <i>R500</i> : 0.66m 1-way (1.32m 2-w <i>R700</i> : 0.77m 1-way (1.54m 2-w <i>R1000</i> : 0.92m 1-way (1.84m 2-w Tolerance: ± 2° & Radius: ± 10m - Connecting strip and screw incl	ay) ay). m		



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: <i>R500</i> : 0.79m 1-way (1.58m 2-w <i>R700</i> : 0.95m 1-way (1.90m 2-w <i>R1000</i> : 1.12m 1-way (2.40m 2-w Tolerance: ± 2° & Radius: ± 10m - Connecting strip and screw incl	ray) ray) m		

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-w R700: 1.13m 1-way (2.26m 2-w R1000: 1.45m 1-way (2.90m 2-w Tolerance: ± 2° & Radius: ± 10m - Connecting strip and screw incl	ay) ay) m		



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
R500: 1.19m 1-way (2.3	0 =		
<i>R700:</i> 1.50m 1-way (3.0 <i>R1000:</i> 1.97m 1-way (3.9 Tolerance: ± 2° & Radius: - Connecting strip and scr	4m 2-way) ± 10mm		
<i>R1000:</i> 1.97m 1-way (3.9 Tolerance: ± 2° & Radius:	4m 2-way) ± 10mm		
<i>R1000:</i> 1.97m 1-way (3.9 Tolerance: ± 2° & Radius:	4m 2-way) ± 10mm		

Please consult MODU representative for further information and assistance.



200



Simplicity . Solutions

Vertical Bends DS2













Vertical Bend, 5°

Item Code	Weight	Supply
DS2 BV 5R300	0.6 kg	1 set
Effective track len	gth:	

R300: 0.19m 1-way (0.38m 2-way) Tolerance: \pm 2° & Radius: \pm 10mm

- Connecting strip and screw included.

Vertical Bend, 7°

	Supply
0.6 kg	1 set
th:	
ıy (0.40m 2-v	vay)
	0.6 kg ih: iy (0.40m 2-v

Tolerance: ± 2° & Radius: ± 10mm

- 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: ± 2° & Radius: ± 10mm - Connecting strip and screw included.

Vertical Bend, 25°

Item Code	R	Α	В	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: ± 10 mm

- Connecting strip and screw included.

Vertical Bend, 30°

Item Code	R	А	В	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: ± 2° & Radius: ± 10mm

- Connecting strip and screw included.

- Connecting strip and screw included.

Vertical Bend, 45°

Item Code	R	А	В	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: ± 2° & Radius: ± 10mm

- Connecting strip and screw included.

Please consult MODU representative for further information and assistance.



Vertical Bends DS2 (Continued)



Vertical Bend, 90°

Item Code	R	В	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: ± 2° & Radius: ± 10mm

- Connecting strip and screw included.

Note:

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

AP

Ř

Please consult MODU representative for further information and assistance.



Conveyor System DM3



Description

83mm width thermoplastic chain with stainless steel frame conveyor system. Also available with aluminium frame, please refer section MM3.

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		83 mm
Chain Pitch		33.5 mm
Chain Weight		1.3 kg/m
Max Tension	With Wheel Bend	800 N
	Without Wheel Bend	1000 N
May Draduct Maight*	Horizontal Transport	15 kg
Max Product Weight*	Vertical Transport	10 kg
Total Load*		250 Kg
Working Temperature*		-10°C to 60°c
Max Conveyor Length*		30m
Max Speed*		50 m/min
Drive Unit Capacity		1000 N
Item Width*		20-200 mm

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

Please consult MODU representative for further information and assistance.





V16.0



Chains MM3











* Other cleated height are available upon request.

Plain Chain

- Suitable for conveyor configuration with incline/decline up to 5°.
- Accumulation possible.
- Available in polish surface for this type of chain.



Item Code	Material	Colour	Weight	Supply
MM3 CP 5	POM	White	6.5 kg/roll	5m/roll
MM3 CP 5A	Anti-Static	Black	6.5 kg/roll	5m/roll
MM3 CP 5K	POM-Kevlar	Yellow	8.0 kg/roll	5m/roll

Insert Friction Chain

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



Item Code	Material	Colour	Weight	Supply
MM3 CF 5	POM	White	7.5 kg/roll	5m/roll
MM3 CF 5A	Anti-Static	Black	7.5 kg/roll	5m/roll
MM3 CF 5K	POM-Kevlar	Yellow	9.5 kg/roll	5m/roll

Molded Friction Chain

- Suitable for conveyor configuration with
- incline/decline up to 25°.
- Friction material : TPE (grey).
- Accumulation not possible.
- PP chain working material tension = 500N.



Item Code	Material	Colour	Weight	Supply
MM3 CF 5P	PP	White	7.8 kg/roll	5m/roll

Flocked Chain

- Suitable for scratch sensitive material.
- Flock colour : Grey.
- Accumulation possible for light product only.
- PP chain material working tension = 500N.
- Sticker type only.

Item Code	Material	Colour	Weight	Supply
MM3 CL 5	POM	White	7.0 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. MM3 CC 3x15P 3p = Every 3rd link to be cleated).
- **Please consult MODU representataive for actual Chain weight.

Item Code	Material	Colour	Weight	Supply
MM3 CC 3x15P	POM	White	** kg/roll	3m/roll
MM3 CC 3x15A	Anti-Static	Black	** kg/roll	3m/roll
MM3 CC 3x15K	POM-Kevlar	Yellow	** kg/roll	3m/roll

Please consult MODU representative for further information and assistance.





MM3 Chains (continued)



* Non-standard height are available upon request.



Roller Cleated Chain

- 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 (eq. MM3 CR 3P 3p = Every 3rd link to be cleated).
- **Please consult MODU representative for actual Chain weight.

Item Code	Material	Colour	Weight	Supply
MM3 CR 3P	POM	White	** kg/roll	3m/roll

Finger Gripper Chain

- Suitable to be use for transfering product with a gripping method.
- Accumulation not possible.
- Not suitable to use with Combined Drive.



Item Code	Material	Colour	Weight	Supply
MM3 CG 3F	POM	White	5.0 kg/roll	3m/roll
MM3 CG 3FA	Anti-Static	Black	5.0 kg/roll	3m/roll
MM3 CG 3FK	POM-Kevlar	Yellow	6.0 kg/roll	3m/roll





Gripper Box	Max product weight
Soft Type – 50A Shore Hardness	up to 2 kg
Medium Type - 60A Shore Hardness	up to 5 kg
Hard Type – 73A Shore Hardness	up to 10 kg









- Suitable to be use for transfering product
- with a gripping method. - Accumulation not possible.
- Not suitable to use with Combined Drive.



pply	
n/roll	
n/roll	
n/roll	
pply	
n/roll	
n/roll	
n/roll	
_	

Soft - 50A	100	2		
Item Code	Material	Colour	Weight	Supp
MM3 CG 3BS	POM	White	7.7 kg/roll	3m/rc
MM3 CG 3BSA	Anti-Static	Black	7.7 kg/roll	3m/ro
MM3 CG 3BSK	POM-Kevlar	Yellow	8.7 kg/roll	3m/rc
Medium - 60A				
Item Code	Material	Colour	Weight	Supp

item Coae	Material	Colour	weight	Suppiy
MM3 CG 3BM	POM	White	7.7 kg/roll	3m/roll
MM3 CG 3BMA	Anti-Static	Black	7.7 kg/roll	3m/roll
MM3 CG 3BMK	POM-Kevlar	Yellow	8.7 kg/roll	3m/roll
Hard - 73A				
Item Code	Material	Colour	Weight	O
		Coroan	reight	Supply
MM3 CG 3BH	POM	White	7.7 kg/roll	3m/roll
MM3 CG 3BH MM3 CG 3BHA	POM Anti-Static			

Wedge Gripper Chain

- Suitable to be use for transfering product with a gripping method.
- Accumulation not possible.
- Not suitable to use with Combined Drive.



Item Code	Material	Colour	Weight	Supply
MM3 CG 3W	POM	White	5.0 kg/roll	3m/roll
MM3 CG 3WA	Anti-Static	Black	5.0 kg/roll	3m/roll
MM3 CG 3WK	POM-Kevlar	Yellow	8.7 kg/roll	3m/roll

Please consult MODU representative for further information and assistance.

Units: Dimension (mm)



Simplicity . Solutions

Chain Top Replacement DM3	Gripper Box
Friction Pad	Indicator: I Soft I Medium II Hard
- Friction pad used for gen 3 chain.	- Box material : TPE (Grey).
Item Code Material Colour Weight Supply MM3 FP 83 TPE Grey 0.01 kg/roll 10 pcs/pkt	Item Code Material Hardness Colour Weight Supply MM3 GP 83BS TPE Soft - 50A Grey 0.2 kg 10 pcs/pk MM3 GP 83BM TPE Med - 60A Grey 0.2 kg 10 pcs/pk MM3 GP 83BH TPE Herd - 73A Grey 0.2 kg 10 pcs/pk
Wedge Gripper	Finger Gripper Pad
Item Code Material Colour Weight Supply MM3 GP 83W TPU Grey 0.2 kg/roll 10 pcs/pkt	Item Code Material Colour Weight Supply MM3 GP 83F TPU Grey 0.09 kg/roll 10 pcs/pl

Chain Accessories DM3

tainless St	eel Pin		Chain P	ivot		Lubrican	nt For Cha	ain
						Silic 400	cone-based lui ml	oricant,
Item Code	Weight	Supply	Item Code	Weight	Supply	Item Code	Weight	Supply

Chain Pin Insertion Tool



Please consult MODU representative for further information and assistance.

Units: Dimension (mm)

Attachment For Chain Tool





AP R MF2 MR2 MT2 MX2 ML2 MM3 MS2 υ Σ MΒ MΑ DS2 DM3 DX2 DL2 DT2 DR2 DF2 g 80 AD ß S 님 Σ МΜ





DM3-6



Simplicity . Solutions

Drive Units DM3 (Continued)

Safety Cover for Front Drive and Combined Drive

Short Safety Cover



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

Intermediate Drive Unit



Item Code	Weight	Supply
DM3 DI R/L S/M	13.0 kg	1 unit



Normal Safety Cover

- Material : Stainless Steel

Weight

1.4 kg

267

Item Code

SC 267

314



Supply

2 pcs/set

Effective track length: 1.2m

Traction force: 200N

- Connecting strip and screw included.

Note:

101

- Refer TR15 for chain effective track length calculation.

Please consult MODU representative for further information and assistance.





Simplicity . Solutions

Drive Units DM3 (Continued) Catenary Drive Unit

Basic Catenary Drive





Catenary Drive with Free Roller





Catenary Drive with Driven Roller



Item Code	Weight	Supply
DM3 DC R/L S/M	19.5 kg	1 unit
DM3 DC R/L S/M TR With free roller	19.7 kg	1 unit
DM3 DC R/L S/M DR With driven roller	21.2 kg	1 unit



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

Effective track length: 1.66m

Traction force: 500N

- Connecting strip and screw included.
- Note:
- For top running chain.
- Refer TR15 for chain effective track length calculation.
- Cleated Chain is not possible to use on this drive.

Please consult MODU representative for further information and assistance.

Units: Dimension (mm)



Drive Units DM3 (Continued)

90° Wheel Bend Drive Unit



Effective track length: 0.41m Traction force: 200N - Connecting strip and screw included.

Item Code	Weight	Supply
DM3 DW 90R160 S/M	8.0 kg	1 unit

180° Wheel Bend Drive Unit



- Connecting strip and screw included.

Idler End











Idler End with Driven Roller *(Right)



54-	 -14
153	

Item Code	Weight	Supply
DM3 IE 320	3.2 kg	1 unit
DM3 IE 320 TR With free roller	3.6 kg	1 unit
DM3 IE2 320 DR With driven roller	5.9 kg	1 unit



8.5 kg

1 unit

With Free Roller

- Driven Roller speed is approximately 10% higher than conveyor speed.
- Effective track length: 0.82m
- Connecting strip and screw included.
- Note:
- Cleated Chain not suitable for Driven Roller & Free Roller

Please consult MODU representative for further information and assistance.

AP





Simplicity . Solutions

Conveyor Beam DM3





Accessories DM3





Slide Rail

onac nun				
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



Item Code	Weight	Supply			
MA CS 25x140	1.5 kg	10 pcs/pkt			
- 4 pcs M8 set screw included					



Rivets

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



Please consult MODU representative for further information and assistance.



Gripper Elevator / Lowerator Components

Gripper Drive Unit



Item Code	Weight	Supply
DM3 DG R/L S/M	6.0 kg	1 unit

Effective track length: 0.82m

- Connecting strip and screw included.

Gripper Idler End



Item Code	Weight	Supply
DM3 IG 400	6.2 kg	1 unit

Effective track length: 0.82m

- Connecting strip and screw included.

- Comes with self tensioning unit.





AP

Please consult MODU representative for further information and assistance.

Units: Dimension (mm)



Horizontal Wheel Bends DM3











Wheel Bend, 30°

Item Code	Weight	Supply
DM3 BW 30R160	3.6 kg	1 set
Effective track length: 0.24m 1-way (0.48 m 2-way) Tolerance: ± 2° - Connecting strip and screw incl	uded.	

Wheel Bend, 45°

Item Code	Weight	Supply
DM3 BW 45R160	4.0 kg	1 set
Effective track length: 0.28m 1-way (0.56m 2-way) Tolerance: ± 2° - Connecting strip and screw incl	uded.	

Wheel Bend, 60°

Item Code	Weight	Supply
DM3 BW 60R160	4.1 kg	1 set
Effective track length: 0.33m 1-way (0.66 m 2-way)		

Tolerance: ± 2°

- Connecting strip and screw included.

Wheel Bend, 90°

Item Code	Weight	Supply
DM3 BW 90R160	4.2 kg	1 set
Effective track length: 0.41m 1-way (0.82m 2-way) Tolerance: ± 2° - Connecting strip and screw incl	uded.	

Wheel Bend, 180°

Item Code	Weight	Supply
DM3 BW 180R160	4.4 kg	1 set
Effective track length: 0.66m 1-way (1.32 m 2-way). Tolerance: ± 2° - Connecting strip and screw incl	uded.	

Please consult MODU representative for further information and assistance.

Units: Dimension (mm)

Minimum straight section for all wheel bend connection.



Horizontal Plain Bends DM3









Horizontal Plain Bend, 30°

Item Code	R	Weight	Supply
DM3 BP 30R500	500 mm	2.5 kg	1 set
DM3 BP 30R700	700 mm	2.9 kg	1 set
DM3 BP 30R1000	1000 mm	3.5 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: ± 2° & Radius: ± 10mm

- Connecting strip and screw included.

Horizontal Plain Bend, 45°

Item Code	R	Weight	Supply		
DM3 BP 45R500	500 mm	3.0 kg	1 set		
DM3 BP 45R700	700 mm	3.0 kg	1 set		
DM3 BP 45R1000					
Effective track length: R500: 0.79m 1-way (1.58m 2-w R700: 0.95m 1-way (1.90m 2-w R1000: 1.12m 1-way (2.40m 2-w Tolerance: ± 2° & Radius: ± 10mi - Connecting strip and screw incl	ray) ray) m				

Horizontal Plain Bend, 60°

Item Code	R	Weight	Supply
DM3 BP 60R500	500 mm	3.5 kg	1 set
DM3 BP 60R700	700 mm	4.2 kg	1 set
DM3 BP 60R1000	1000 mm	5.4 kg	1 set
Effective track length: <i>R500</i> : 0.92m 1-way (1.84m 2-w <i>R700</i> : 1.13m 1-way (2.26m 2-w <i>R1000</i> : 1.45m 1-way (2.90m 2-w Tolerance: ± 2° & Radius: ± 10m - Connecting strip and screw incl	ay) ay) m		

Horizontal Plain Bend, 90°

Item Code	R	Weight	Supply
DM3 BP 90R500	500 mm	4.5 kg	1 set
DM3 BP 90R700	700 mm	5.6 kg	1 set
DM3 BP 90R1000	1000 mm	7.3 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: ± 2° & Radius: ± 10mm

- Connecting strip and screw included.

Please consult MODU representative for further information and assistance.





Vertical Bends DM3













Vertical Bend, 5°

Item Code	Weight	Supply
DM3 BV 5R400	0.8 kg	1 set

Effective track length: R400: 0.19m 1-way (0.38m 2-way) Tolerance: ± 2° & Radius: ± 10mm - Connecting strip and screw included.

Vertical Bend, 7°

Item Code	Weight	Supply
DM3 BV 7R400	0.8 kg	1 set
Effective track leng R400: 0.20m 1-w Tolerance: ± 2° &	/ay (0.40m 2-w	
- Connecting strip		

Vertical Bend, 15°

Item Code	Weight	Supply
DM3 BV 15R400	1.0 kg	1 set
Effective track leng R400: 0.26m 1-w Tolerance: ± 2° & - Connecting strip	vay (0.52m 2-w Radius: ± 10m	m

Vertical Bend, 25°

Item Code	R	А	В	Weight	Supply
DM3 BV 25R400	400 mm	71 mm	322 mm	1.3 kg	1 set
DM3 BV 25R1000	1000 mm	128 mm	575 mm	2.3 kg	1 set

Effective track length:

R400: 0.33m 1-way (0.66m 2-way)

R1000: 0.60m 1-way (1.20m 2-way)

Tolerance: ± 2° & Radius: ± 10mm

- Connecting strip and screw included.

Vertical Bend, 30°

Item Code	R	A	В	Weight	Supply
DM3 BV 30R400	400 mm	80 mm	299 mm	1.6 kg	1 set
DM3 BV 30R1000	1000 mm	174 mm	649 mm	3.3 kg	1 set

Effective track length:

R400: 0.37m 1-way (0.74m 2-way)

R1000: 0.68m 1-way (1.36m 2-way)

Tolerance: ± 2° & Radius: ± 10mm

- Connecting strip and screw included.

Vertical Bend, 45°

Item Code	R	А	В	Weight	Supply
DM3 BV 45R400	400 mm	174 mm	419 mm	1.8 kg	1 set
DM3 BV 45R1000	1000 mm	350 mm	844 mm	3.5 kg	1 set

Effective track length:

R300: 0.47m 1-way (0.94m 2-way)

R1000: 0.95m 1-way (1.90m 2-way)

Tolerance: ± 2° & Radius: ± 10mm

- Connecting strip and screw included.

Please consult MODU representative for further information and assistance.





Vertical Bends DM3 (Continued)



Vertical Bend, 90°

Item Code	R		В	N	'eight	Supply
DM3 BV 90R400	400 mm	48	0 mm	3	8.0 kg	1 set
DM3 BV 90R1000	1000 mm	118	80 mm	6	6.4 kg	1 set
Effective track leng R400: 0.63m 1-w R1000: 1.73m 1-w Tolerance: ± 2° & - Connecting strip	vay (1.26m 2 vay (3.46m 2 Radius: ± 10	-way) mm				

* Non-Standard Vertical Bend also available on PE and Stainless Steel with minimun radius 400mm.

AP

Please consult MODU representative for further information and assistance.



Conveyor System DL2



Description

140mm width thermoplastic chain with stainless steel frame. Also available with aluminium frame conveyor system, please refer section ML2.

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		140 mm
Chain Pitch		44.5 mm
Chain Weight		2.46 kg/m
Max Tension	With Wheel Bend	1000 N
	Without Wheel Bend	1300 N
Max Product Weight*	Horizontal Transport	25 kg
wax Product weight	Vertical Transport	15 kg
Total Load*		400 Kg
Working Temperature*		-10°C to 60°c
Max Conveyor Length*		30m
Max Speed*		50 m/min
Drive Unit Capacity		1300 N
Item Width*		25-320 mm

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

Please consult MODU representative for further information and assistance.





DL2-1

Chains ML2







Plain Chain

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

- Accumulation possible.



Item Code	Material	Colour	Weight	Supply
ML2 CP 5	POM	White	13.0 kg/roll	5m/roll
ML2 CP 5A	Anti-Static	Black	13.0 kg/roll	5m/roll
ML2 CP 5K	POM-Kevlar	Yellow	15.6 kg/roll	5m/roll

Insert Friction Chain

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



Item Code	Material	Colour	Weight	Supply
ML2 CF 5	POM	White	15.0 kg/roll	5m/roll
ML2 CF 5A	Anti-Static	Black	15.0 kg/roll	5m/roll
ML2 CF 5K	POM-Kevlar	Yellow	17.0 kg/roll	5m/roll

Roller Cleated Chain

- 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. ML2 CC 3 3p = Every 3rd link to be cleated).
- **Please consult MODU for actual Chain weight.

Item Code	Material	Colour	Weight	Supply
ML2 CR 3	POM	White	** kg/roll	3m/roll
ML2 CR 3A	Anti-Static	Black	** kg/roll	3m/roll
ML2 CR 3K	POM-Kevlar	Yellow	** kg/roll	3m/roll

Flocked Chain

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

Item Code	Material	Colour	Weight	Supply
ML2 CL 5	POM	White	12.5 kg/roll	5m/roll



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



Item Code	Material	Colour	Weight	Supply
ML2 CP 5S	POM	White	12.4 kg/roll	5m/roll

Please consult MODU representative for further information and assistance.

Units: Dimension (mm)

DL2-2

40







Chains ML2 (Continued)



Safety Friction Chain

- Suitable for conveyor configuration with incline/decline up to 25°.
- Friction material : TPE (grey).
- Accumulation not possible.
- PP chain material working tension is less

than POM, please refer to technical reference.

Item Code	Material	Colour	Weight	Supply
ML2 CF 5S	PP	White	12.4 kg/roll	5m/roll

Chains Top Replacement ML2



Insert Friction Pad



Item Code	Material	Colour	Weight	Supply
ML2 FP	TPE	Grey	0.01 kg/roll	10 pcs/pkt

Chain Accessories ML2

Lubricant	For Cha	in	Stainless S	Steel Pi	n	Chain Piv	rot	
	icone-based Oml	ubricant,						
Item Code	Weight	Supply	Item Code	Weight	Supply	Item Code	Weight	Supply
MA SL	0.35 kg	1 pc	ML2 PN M4x73	0.07 kg	10 pcs/pkt	ML2 PV	0.07 kg	10 pcs/pkt
			,					

Chain Pin Insertion Tool



Chain pin insertion tool shown without attachment & specific drive pin

			Chain attachr	nent & dr
Item Code	Weight	Supply	Item Code	Wei
TR CP 1	1.2 kg	1 pc	ML2 AC	0.3
,			2	

Attachment For Chain Tool



anan attaciment & unve pin				
tem Code	Weight	Supply		
VIL2 AC	0.3 kg	1 set		

Please consult MODU representative for further information and assistance.





Please consult MODU representative for further information and assistance.

DL2-4



Simplicity. Solutions

Drive Units DL2 (Continued)

Safety Cover for Front Drive



- Material : Stainless Steel

Item Code	Weight	Supply
SC 268	1.8 kg	2 pcs/set

Idler End

Basic Idler End



Idler End with Free Roller







Item Code	Weight	Supply
DL2 IE 400	6.7 kg	1 unit
DL2 IE 400 TR With free roller	7.0 kg	1 unit
DL2 IE 400 DR With driven roller	8.5 kg	1 unit



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

Effective track length: 1.02m

- Connecting strip and set screw included.
- Note:
- Cleated Chain not suitable for Driven Roller & Free Roller.

Please consult MODU representative for further information and assistance.

145

24

Units: Dimension (mm)



DL2-5

Conveyor Beam DL2



Accessories ML2

Slide Rail

Item Code	Material	Colour	Weight	Supply
MA2 SR 25	HDPE	Pure White	2.8 kg/roll	25m/roll
MA2 SR 25A	Anti-Static	Grey	2.8 kg/roll	25m/roll
MA2 SR 25U	UHMW-PE	Semi-Transparent White	3.5 kg/roll	25m/roll



Connecting Strip

Weight	Supply
1.5 kg	10 pcs/pkt



Blind Rivet

Item Code	Weight	Supply			
DA RB 3.2x9	0.02 kg	100 pcs/pkt			
Material: Stainless Steel					



Slide Rail Cutter

Item Code	Weight	Supply
MA SC	0.5 kg	1 pc



Slide Rail Mounting Tool

Item Code	Weight	Supply
MX2 SRA	0.4 kg	1 pc

Please consult MODU representative for further information and assistance.





Horizontal Wheel Bends DL2











Wheel Bend, 30°

Item Code	Weight	Supply
DL2 BW 30R200	6.0 kg	1 set
Effective track length: 0.6m 1-way (1.2m 2-way) Tolerance: ± 2° - Connecting strip and screw included.		

Wheel Bend, 45°

Item Code	Weight	Supply
DL2 BW 45R200	6.1 kg	1 set
Effective track length: 0.66m 1-way (1.32m 2-way)		
Tolerance: ± 2° - Connecting strip and screw included.		

Wheel Bend, 60°

Item Code	Weight	Supply
DL2 BW 60R200	6.6 kg	1 set
Effective track length: 0.71m 1-way (1.42m 2-way) Tolerance: ± 2° - Connecting strip and screw included.		

Wheel Bend, 90°

Item Code	Weight	Supply
DL2 BW 90R200	7.0 kg	1 set
Effective track length: 0.81m 1-way (1.62m 2-way) Tolerance: ± 2° - Connecting strip and screw included.		

Wheel Bend, 180°

Weight	Supply
8.4 kg	1 set

Please consult MODU representative for further information and assistance.

Units: Dimension (mm)



Simplicity . Solutions

DL2-7

Horizontal Plain Bends DL2



Horizontal Plain Bend, 30°

Item Code	R	Weight	Supply
DL2 BP 30R500	500 mm	2.2 kg	1 set
DL2 BP 30R700	700 mm	2.8 kg	1 set
DL2 BP 30R1000	1000 mm	3.6 kg	1 set

Effective track length:

R500: 0.42m 1-way (0.84m 2-way) *R700:* 0.53m 1-way (1.06m 2-way)

R1000: 0.68m 1-way (1.00m 2-way) *R1000:* 0.68m 1-way (1.36m 2-way).

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

- Connecting strip and screw included.

Horizontal Plain Bend, 45°

Item Code	R	Weight	Supply
DL2 BP 45R500	500 mm	2.9 kg	1 set
DL2 BP 45R700	700 mm	3.7 kg	1 set
DL2 BP 45R1000	1000 mm	4.9 kg	1 set

Effective track length:

R500: 0.55m 1-way (1.10m 2-way)

R700: 0.71m 1-way (1.42m 2-way)

R1000: 0.95m 1-way (1.90m 2-way)

Tolerance: ± 2° & Radius: ± 10mm

- Connecting strip and screw included.



Horizontal Plain Bend, 60°

Item Code	R	Weight	Supply
DL2 BP 60R500	500 mm	3.6 kg	1 set
DL2 BP 60R700	700 mm	4.6 kg	1 set
DL2 BP 60R1000	1000 mm	6.1 kg	1 set

Effective track length: R500: 0.68m 1-way (1.36m 2-way)

R700: 0.73m 1-way (1.46m 2-way) *R1000:* 1.21m 1-way (2.42m 2-way)

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

- Connecting strip and screw included.



Horizontal Plain Bend, 90°

Item Code	R	Weight	Supply
DL2 BP 90R500	500 mm	4.9 kg	1 set
DL2 BP 90R700	700 mm	6.5 kg	1 set
DL2 BP 90R1000	1000 mm	8.8 kg	1 set

Effective track length:

R500: 0.95m 1-way (1.90m 2-way) R700: 1.26m 1-way (2.52m 2-way) R1000: 1.73m 1-way (3.26m 2-way) Tolerance: ± 2° & Radius: ± 10mm

- Connecting strip and screw included.

Please consult MODU representative for further information and assistance.



Vertical Bends DL2













Vertical Bend, 5°

Item Code	Weight	Supply
DL2 BV 5R1000	1.3 kg	1 set
Effective track leng R1000: 0.25m 1- Tolerance: ± 2° & - Connecting strip	way (0.5m 2-w Radius: ± 10m	m

Vertical Bend, 7°

Item Code	Weight	Supply		
DL2 BV 7R1000	1.5 kg	1 set		
Effective track length:				
R1000: 0.28m 1-way (0.56m 2-way)				
Tolerance: ± 2° & Radius: ± 10mm				
- Connecting strip and screw included.				

Vertical Bend, 15°

Item Code	Weight	Supply
DL2 BV 15R1000	2.2 kg	1 set
Effective track leng R1000: 0.42m 1- Tolerance: ± 2° & - Connecting strip	way (0.84m 2-v Radius: ± 10mi	m

Vertical Bend, 25°

Item Code	Weight	Supply			
DL2 BV 25R1000	3.1 kg	1 set			
Effective track length:					
R1000: 0.60m 1-way (1.20m 2-way)					
Talanana () 08 8 Dadius (10mm					

Tolerance: ± 2° & Radius: ± 10mm - Connecting strip and screw included.

Vertical Bend, 30°

Item Code	Weight	Supply		
DL2 BV 30R1000 3.5 kg 1 set				
Effective track leng R1000: 0.68m 1-v Tolerance: ± 2° & F - Connecting strip	, way (1.36m 2-v Radius: ± 10m	m		

Vertical Bend, 45°

Item Code	Weight	Supply
nem coue	Weight	Suppry
DL2 BV 45R1000	4.8 kg	1 set
Effective track len R1000: 0.95m 1-w Tolerance: ± 2° & - Connecting strip	vay (1.90m 2-w Radius: ± 10mi	m

MF2 MR2 MT2 MX2 ML2 MM3 MS2 ß BΒ MΑ DF2 DR2 DT2 DX2 DL2 DM3 DS2 ÿ 80 AD ß ß F Σ МΜ

AP

R

Please consult MODU representative for further information and assistance.

Units: Dimension (mm)

MODU Simplicity . Solutions

DL2-9



* Non-Standard Vertical Bend only available on PE and Stainless Steel.

Please consult MODU representative for further information and assistance.



Conveyor System DX2



Description

220mm width thermoplastic chain with stainless steel frame conveyor system. Also available with aluminium frame , please refer section MX2.

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		220 mm
Chain Pitch		44.5 mm
Chain Weight		3.40 kg/m
	With Wheel Bend	1000 N
Max Tension	Without Wheel Bend	1300 N
Mary Due doubt M/stalet	Horizontal Transport	25 kg
Max Product Weight	Vertical Transport	15 kg
Total Load		400 Kg
Working Temperature		-10°C to 60°c
Max Conveyor Length		30m
Max Speed		50 m/min
Drive Unit Capacity		1300 N
ltem Width		70-500 mm



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

Please consult MODU representative for further information and assistance.



Chains DX2





Plain Chain

Item MX2

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

n Code	Material	Colour	Weight	Supply	
2 CP 5	POM	White	17.2 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
MX2 CF 5	POM	White	18.2 kg/roll	5m/roll

Cleated Chain - Machined PE Cleated

- Required for vertical or steeply inclined / declined conveyor.
- Accumulation not possible.

indicate while ordering.

- Not suitable to be use with Combined and Catenary Drive. - Pitch between cleat must be





Supply

5m/roll







(eg. MX2 CC 3 4P = Every 4th link to be cleated). **Please consult MODU representative for actual Chain weight.

Roller Cleated Chain

- Required for vertical or steeply inclined / declined conveyor.
- Accumulation not possible.
- Not suitable to be use with Combined and Catenary Drive.
- Pitch between cleat must be indicate while ordering.



(eg. MX2 RC 3 4P = Every 4th link to be cleated). **Please consult MODU representative for actual Chain weight.

Item Code	Material	Colour	Weight	Supply
MX2 CR 3	POM	White	** kg/roll	5m/roll

Roller Top Chain

- Accumulation possible.
- Low back force.



Item Code	Material	Colour	Weight	Supply
MX2 TR 3	POM	White	22.0 kg/roll	5m/roll

Please consult MODU representative for further information and assistance.

Units: Dimension (mm)

DX2-2



Simplicity. Solutions


Chain Accessories DX2

Lubricant For Chain

	Silice 400r	one-based nl	lubricant,
Item Code		Weight	Supply

Stainless Steel Pin

Weight

0.07 kg

Supply

10 pcs/pkt

Item Code

ML2 PN M4x73





Item Code	Weight	Supply
ML2 PV	0.07 kg	10 pcs/pkt

Please consult MODU representative for further information and assistance.

DX2-3



Simplicity . Solutions



DX2-4



Drive Units DX2 (Continued)

Safety Cover for Front Drive



- Material : Stainless Steel

Item Code	Weight	Supply
SC 268	1.8 kg	2 pcs/set

Idler End

Basic Idler End



Idler End with Free Roller





24



<i>Item Code</i> DX2 IE 400	Weight 8.4 kg	Supply 1 unit
DX2 IE 400 TR With free roller	8.6 kg	1 unit
DX2 IE 400 DR With driven roller	10.4 kg	1 unit

With Driven Roller Basic unit With Free Roller

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

Effective track length: 1.02m

- Connecting strip and screw included.

Notes:

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

Please consult MODU representative for further information and assistance.





Conveyor Beam DX2



Item Code	Weight	Supply
DX2 CB 2.4	19.2 kg	2.4 m

Accessories DX2













Item Code	Weight	Supply
MA SC	0.5 kg	1 pc





Slide Rail

Item Code	Material	Colour	Weight	Supply
MA2 SR 25	HDPE	Pure White	2.8 kg/roll	25m/roll
MA2 SR 25A	Anti-Static	Grey	2.8 kg/roll	25m/roll
MA2 SR 25U	UHMW-PE	Semi-Transparent White	3.5 kg/roll	25m/roll

Connecting Strip

Weight	Supply
3.0 kg	10 pcs/pkt

- 8 pcs M8 Screw included.

Connecting Strip

Item Code	Weight	Supply	
MA CS 25x140	1.5 kg	10 pcs/pkt	
4 pcs M8 set scrow included			

4 pcs M8 set screw included.

Blind Rivet

Item Code	Weight	Supply	
DA RB 3.2x9	0.2 kg	10 pcs/pkt	
Material: Stainless Steel			

Please consult MODU representative for further information and assistance.





Horizontal Plain Bends DX2









Horizontal Plain Bend. 30°

Item Code	R	Weight	Supply
DX2 BP 30R500	500 mm	5.8 kg	1 set
DX2 BP 30R700	700 mm	6.5 kg	1 set
DX2 BP 30R1000	1000 mm	8.0 kg	1 set
Effective track length:			

R500: 0.42m 1-way (0.84m 2-way) R700: 0.53m 1-way (1.06m 2-way) R1000: 0.68m 1-way (1.36m 2-way).

Tolerance: ± 2° & Radius: ± 10mm

- Connecting strip and screw included.

Horizontal Plain Bend, 45°

Item Code	R	Weight	Supply
DX2 BP 45R500	500 mm	7.0 kg	1 set
DX2 BP 45R700	700 mm	8.5 kg	1 set
DX2 BP 45R1000	1000 mm	10.0 kg	1 set

Effective track length:

R500: 0.55m 1-way (1.10m 2-way) R700: 0.71m 1-way (1.42m 2-way) R1000: 0.95m 1-way (1.90m 2-way) Tolerance: ± 2° & Radius: ± 10mm

- Connecting strip and screw included.

Horizontal Plain Bend, 60°

Item Code	R	Weight	Supply
DX2 BP 60R500	500 mm	8.0 kg	1 set
DX2 BP 60R700	700 mm	9.5 kg	1 set
DX2 BP 60R1000	1000 mm	12.0 kg	1 set

Effective track length:

R500: 0.68m 1-way (1.36m 2-way) R700: 0.73m 1-way (1.46m 2-way) R1000: 1.21m 1-way (2.42m 2-way)

Tolerance: ± 2° & Radius: ± 10mm

- Connecting strip and screw included.

Horizontal Plain Bend, 90°

Item Code	R	Weight	Supply
DX2 BP 90R500	500 mm	10.5 kg	1 set
DX2 BP 90R700	700 mm	13.0 kg	1 set
DX2 BP 90R1000	1000 mm	14.0 kg	1 set

Effective track length:

R500: 0.95m 1-way (1.90m 2-way) R700: 1.26m 1-way (2.52m 2-way) R1000: 1.73m 1-way (3.26m 2-way) Tolerance: ± 2° & Radius: ± 10mm

- Connecting strip and screw included.

Please consult MODU representative for further information and assistance.





DX2-7

Vertical Bends DX2













Vertical Bend, 5°

Item Code	Weight	Supply
DX2 BV 5R1000	4.0 kg	1 set

Effective track length: R1000: 0.25m 1-way (0.5m 2-way) Tolerance: ± 2° & Radius: ± 10mm

- Connecting strip and screw included.

Vertical Bend, 7°

Item Code	Weight	Supply
DX2 BV 7R1000	4.5 kg	1 set

Effective track length: R1000: 0.28m 1-way (0.56m 2-way) Tolerance: ± 2° & Radius: ± 10mm - Connecting strip and screw included.

Vertical Bend, 15°

Item Code	Weight	Supply
DX2 BV 15R1000	5.5 kg	1 set

Effective track length: R1000: 0.42m 1-way (0.84m 2-way) Tolerance: ± 2° & Radius: ± 10mm - Connecting strip and screw included.

Vertical Bend, 25°

Item Code	Weight	Supply
DX2 BV 25R1000	7.3 kg	1 set

Effective track length: R1000: 0.60m 1-way (1.20m 2-way) Tolerance: ± 2° & Radius: ± 10mm

- Connecting strip and screw included.

Vertical Bend, 30°

Supply
1 set

Effective track length: R1000: 0.68m 1-way (1.36m 2-way) Tolerance: \pm 2° & Radius: \pm 10mm

- Connecting strip and screw included.

Vertical Bend, 45°

Item Code	Weight	Supply
DX2 BV 45R1000	10.0 kg	1 set
Effective track leng R1000: 0.95m 1-w Tolerance: ± 2° & - Connecting strip	vay (1.90m 2-w Radius: ± 10mi	n

Please consult MODU representative for further information and assistance.



Vertical Bends DX2 (Continued)



Note:

- Non-Standard Vertical Bend only available on PE and Stainless Steel.

AP

Please consult MODU representative for further information and assistance.





Simplicity . Solutions

Conveyor System DT2



Description

315 mm width thermoplastic belt with aluminium frame conveyor system

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		315 mm
		315 mm
Chain Pitch		45 mm
Chain Weight		3.80 kg/m
Chain Maximum	With Bend	1500N
Working Tension	Without Bend	1600N
Max Product Weight*		30 kg
Total Load*		300 Kg
Working Temperature*		-10°C to 60°c
Max Conveyor Length*		30m
Max Speed*		50 m/min
Drive Unit Capacity		1600 N
Item Width*		<500 mm



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

* Maximum total off 90° bends in one conveyor.

Please consult MODU representative for further information and assistance.

DT2-1



Chains MT2

Plastic Belt





- Suitable for conveyor configuration with

incline/decline up to 5°.

- Accumulation possible.

Item Code N	laterial (Colour	Weight	Supply
MT2 CP 5	POM	White	19.0 kg/roll	5m/roll

Plastic Cleated Belt









Side Guard L-R







*** Please consult MODU representative for actual plastic cleated belt configuration.







eg. Code for Basic unit; DT2 DT R M50 => Combined drive unit, motor on right side for Motovario NMRV 050 geared motor.

Front Drive Unit



- Connecting strip and set screw included.

Effective track length: 0.8m

- Connecting strip and set screw included.

Note:

- Refer TR15 for chain effective track length calculation.



Idler End

Note:



- Refer TR15 for chain effective track length calculation.







DT2-3

Conveyor Beam DT2





Item Code	Weight	Supply
DT2 CB 3	18.5 kg	3 m

Accessories DT2



Slide Rail

Slide Rail Itom Codo

Item Code	Material	Colour	Weight	Supply
MA2 SR 25	HDPE	Pure White	2.8 kg/roll	25m/roll
MA2 SR 25A	Anti-Static	Grey	2.8 kg/roll	25m/roll
MA2 SR 25U	UHMW-PE	Semi-Transparent White	3.5 kg/roll	25m/roll





HDPE	Pure White	1.2 kg/roll	25m/roll
Anti-Static	Grey	1.2 kg/roll	25m/roll
UHMW-PE	Semi-Transparent White	2.7 kg/roll	25m/roll
PVDF	Natural white	2.7 kg/roll	25m/roll
	Anti-Static UHMW-PE	Anti-Static Grey UHMW-PE Semi-Transparent White	Anti-Static Grey 1.2 kg/roll UHMW-PE Semi-Transparent White 2.7 kg/roll





Connect	ing Strip
---------	-----------

Item Code	Weight	Supply
MA CS 20x140	1.5 kg	10 pcs/pkt
MA CS 25x140	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



Screw Item Code Weight Supply MA RS 6.5 0.02 kg 50 pcs/pkt



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

Mainh



Slide Rail Assembling Tool			
Item Code	Weight	Supply	
MT2 SRA	0.4 kg	1 pc	



Slide	Rail	Cutter

5	Item Code	Weight	Supply
Q	MA SC	0.5 kg	1 pc

Please consult MODU representative for further information and assistance.



Chain Installation Section



Item Code	Weight	Supply
MT2 CIS 300	4.9 kg	1 Unit

- Connecting strip and set screw included.



AP

Please consult MODU representative for further information and assistance.



Ř MF2 MR2 MT2 MX2 ML2 MM3 MS2 Β MΒ MΑ DF2 DR2 DT2 DX2 DL2 DM3 DS2 ß BB DA S ß É Δ

AP

Conveyor System DR2



435mm width thermoplastic chain with stainless steel frame conveyor system

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		438 mm
Chain Pitch		45 mm
Chain Weight		5.28 kg/m
Chain Maximum	With Bend	1500N
Working Tension	Without Bend	1600N
Max Product Weight*		30 kg
Total Load*		300 Kg
Working Temperature*		-10°C to 60°c
Max Conveyor Length*		30m
Max Speed*		50 m/min
Drive Unit Capacity		1600 N
Item Width*		<600 mm

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



Units: Dimension (mm)



Please consult MODU representative for further information and assistance.

МΜ

V16.0



Silicone-based lubricant, 400ml Please consult MODU representative for further information and assistance.

Units: Dimension (mm)

DR2-2





eq. Code for Basic unit; DR2 DT R M50 => Combined drive unit, motor on right side for Motovario NMRV 050 geared motor.

Front Drive Unit



Idler End



Effective track length: 0.8m

- Connecting strip and set screw included.

Note:

- Refer TR15 for chain effective track length calculation.



Please consult MODU representative for further information and assistance.

Units: Dimension (mm)



DR2-3

Conveyor Beam DR2



Item Code	Weight	Supply
DR2 CB 3	20.4 kg	3 m

Accessories DR2









Item Code	Material	Colour	Weight	Supply
MA2 SR 25	HDPE	Pure White	2.8 kg/roll	25m/roll
MA2 SR 25A	Anti-Static	Grey	2.8 kg/roll	25m/roll
MA2 SR 25U	UHMW-PE	Semi-Transparent White	3.5 kg/roll	25m/roll

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

nem Code	weight	Suppry
MA CS 20x140	1.5 kg	10 pcs/pkt
MA CS 25x140	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



Screw		
Item Code	Weight	Supply
MA RS 6.5	0.02 kg	50 pcs/pkt



Rivet		
Item Code	Weight	Supply
MA RR 3	0.02 kg	50 pcs/pkt
Material: Brass Ni	ckel plated ((3mm)



Slide Rail Assembling Tool				
Item Code	Weight	Supply		



|--|

	Item Code	Weight	Supply
0	MA SC	0.5 kg	1 pc

Please consult MODU representative for further information	n and assistance.
--	-------------------





Chain Installation Section



Item Code	Weight	Supply
DR2 CIS 300	5.3 kg	1 Unit

- Connecting strip and set screw included.



Please consult MODU representative for further information and assistance.

DR2-5



Simplicity . Solutions

V16.0

Conveyor System DF2



Description

585 mm width thermoplastic chain with stainless steel frame conveyor system.

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		585 mm
Chain Pitch		45 mm
Chain Weight		7.07 kg/m
Chain Maximum	With Bend	1500N
Working Tension	Without Bend	1600N
Max Product Weight*		30 kg
Total Load*		300 Kg
Working Temperature*		-10°C to 60°c
Max Conveyor Length*		30m
Max Speed*		50 m/min
Drive Unit Capacity		1600 N
Item Width*		<700 mm



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



Units: Dimension (mm)



Please consult MODU representative for further information and assistance.

Chains MF2 Plastic Belt



Colour

White

Weight

35.4 kg

Supply

5m/roll

15

Plastic	Cleated	Relt

- Accumulation possible.

Item Code

MF2 CP 5



Material

POM





Side Guard L-R





** Please consult MODU representative for actual plastic cleated belt configuration.

Chain Accessories MF2

Lubricant For Chain





Belt Lock



Item Code	Weight	Supply
MT2 BL	0.07 kg	10 pcs/pkt

Silicone-based lubricant, 400ml Please consult MODU representative for further information and assistance.







eg. Code for Basic unit; DF2 DT R M50 => Combined drive unit, motor on right side for Motovario NMRV 050 geared motor.

Front Drive Unit



- Refer TR15 for chain effective track length calculation.

Idler End



Effective track length: 0.8m

- Connecting strip and set screw included.

Note:

- Refer TR15 for chain effective track length calculation.



Please consult MODU representative for further information and assistance.

Units: Dimension (mm)

DF2-3



Conveyor Beam DF2



Item Code	Weight	Supply
MF2 CB 3	21.0 kg	3 m

Accessories DR2







Slide Rail

Item Code	Material	Colour	Weight	Supply
MA2 SR 25	HDPE	Pure White	2.8 kg/roll	25m/roll
MA2 SR 25A	Anti-Static	Grey	2.8 kg/roll	25m/roll
MA2 SR 25U	UHMW-PE	Semi-Transparent White	3.5 kg/roll	25m/roll

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 S MA CS 20x140 15 kg 10

nem couc	reight	Cappiy
MA CS 20x140	1.5 kg	10 pcs/pkt
MA CS 25x140	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



Screw		
Item Code	Weight	Supply
MA RS 6.5	0.02 kg	50 pcs/pkt



Rivet		
Item Code	Weight	Supply
MA RR 3	0.02 kg	50 pcs/pkt
Material: Brass Nic	ckel plated ((3mm)



Slide Rail Assembling Tool		
.		
Item Code	Weight	Supply



Slide Rail Cutter

X	Item Code	Weight	Supply
10	MA SC	0.5 kg	1 pc

Please consult MODU representative for further information and assistance.





Chain Installation Section



Please consult MODU representative for further information and assistance.

DF2-5



Stainless Steel Conveyor Guide DG



Units: Dimension (mm)





Please consult MODU representative for further information and assistance.

V16.0



Stainless Steel Conveyor Guide DG

Guide Assembly - Type 1



Guide Assembly - Type 2



Guide Rail Accessories Guide Rail Support



- Single clamp for 12mm diameter shaft.



 Item Code
 Weight
 Supply

 MG BR 12
 0.1 kg
 1 pc

Guide Rail Connector



Please consult MODU representative for further information and assistance.

Units: Dimension (mm)

Supply:

Supply:

Features:

Series

DS2

DM3

DL2

DX2

- Items are supplied individually.

- Features:
- Width adjustable by single knob

- Items are supplied individually.

- Width adjustable by single knob

Width

Maximum

60

80

140

220

Series	Width Maximum	Item Code
DS2	60	DS G1
DM3	80	DM G1
DL2	140	DL G1
DX2	220	DX G1





Guide Rail Support

Item Code

DS G2

DM G2

DL G2

DX G2

Item Code	Weight	Supply
MG BR 2x68	0.2 kg	1 pc

Stainless Steel Guide Rail



DG-2



Simplicity . Solutions



 Item Code
 Weight
 Supply

 DG BS 13 A/B/C
 0.04 kg
 1 pc

Please consult MODU representative for further information and assistance.

Units: Dimension (mm)

AP

Ř



Simplicity . Solutions

DG-3

Stainless Steel Structure System DB



Please consult MODU representative for further information and assistance.

Units: Dimension (mm)



Simplicity . Solutions

DB-1

Stainless Steel Sructural System DB DB 1



Unipod

Material:

- Foot plate in stainless steel AISI 303.
- Beam support bracket in stainless steel AISI 303.
- Ornamental pipe in stainless steel AISI 303.

Supply:

- Items are supplied individually.

DB 2



Bipod

Material:

- Foot cap in stainless steel AISI 303.
- Two-point foot in Polyamide,
- glass fibre reinforced, PA 6 GF30%. - Beam support bracket in stainless
- steel AISI 303.
- Ornamental pipe in stainless steel AISI 303.

Supply:

- Items are supplied individually.

DB 3



Tripod

Material:

- Foot cap in stainless steel AISI 303.
- Three-point foot in Polyamide,
 - glass fibre reinforced, PA 6 GF30%.
- Beam support bracket in stainless steel AISI 303.
- Ornamental pipe in stainless steel AISI 303.

Supply:

- Items are supplied individually.

Please consult MODU representative for further information and assistance.





Please consult MODU representative for further information and assistance.



Simplicity . Solutions

AP

Ľ

MF2 MR2 MT2 MX2 ML2 MM3 MS2

ΩM

MΒ

MΑ

DF2 DR2 DT2 DX2 DL2 DM3 DS2

bQ

DB

ΔA

ß

S

륃

Σ

МΜ



Polyamide Foot, 2-point



Bore Diameter: 63.5mm

Item Code	Weight	Supply
DB FB	2.4 kg	1 pc

Adjusting Foot Cap, M16



Item Code	Weight	Supply
MB FP 16x100S Stainless Steel	0.4 kg	1 pc
MB FP 16x150S Stainless Steel	0.4 kg	1 pc

Polyamide Foot, 3-point



Bore Diameter: 63.5mm

Item Code	Weight	Supply
DB FT	3.6 kg	1 pc

Support Head



Item Code	Weight	Supply
DB HS	0.3 kg	1 pc

Please consult MODU representative for further information and assistance.



Stainless Steel Conveyor Accessories DA

Please consult MODU representative for further information and assistance.

Units: Dimension (mm)



Simplicity . Solutions

Fasteners

Cap Screw, M6 & M8



Material: Stainless Steel

Item Code	Description	Weight	Supply
DA BC M6x16	M6x16mm	0.6 kg	100 pcs/pkt
DA BC M8x16	Anti-Static	1.2 kg	100 pcs/pkt
DA BC M8x 20	POM-Kevlar	1.3 kg	100 pcs/pkt

Lock Nut, M6, M8 & M10





Material: Stainless Steel

Item Code	Weight	Supply
DA NL 6	0.5 kg	200 pcs/pkt
DA NL 8	1.0 kg	200 pcs/pkt
DA NL 10	0.6 kg	50 pcs/pkt

Locking Washer



- Locking washer for friction & gripper pad

Item Code	Weight	Supply
MA WL 5	0.01 kg	50 pcs/pkt

Floor Anchor Bolt



- M10 Drop in Floor Anchor Bolt

Material: Stainless Steel			
Item Code	Weight	Supply	
DA BF M10	2.5 kg	50 pcs/pkt	

Hex Head Bolt, M6, M8 & M10





Material: Stainless Steel

Item Code	Description	Weight	Supply
DA BH M6x 16	M6x16mm	0.6 kg	100 pcs/pkt
DA BH M6x 20	M6x 20mm	0.8 kg	100 pcs/pkt
DA BH M8x 16	M8x 16mm	1.2 kg	100 pcs/pkt
DA BH M8x 20	M8x 20mm	1.3 kg	100 pcs/pkt
DA BH M8x 25	M8x 25mm	1.3 kg	100 pcs/pkt
DA BH M8x 40	M8x 40mm	1.6 kg	100 pcs/pkt
DA BH M10x 20	M10x 20mm	2.2 kg	100 pcs/pkt

Countersunk Screw



Material: Stainless Steel

Item Code	Weight	Supply
DA SC M8x 16	0.7 kg	100 pcs/pkt
DA SC M8x 20	0.8 kg	100 pcs/pkt

Button Head Bolt





Material: Stainless Steel

Item Code	Description	Weight	Supply
DA BB M6x 10	M6x10mm	1.0 kg	100 pcs/pkt
DA BB M6x 12	M6x 12mm	1.1 kg	100 pcs/pkt
DA BB M6x 16	M6x 16mm	1.2 kg	100 pcs/pkt
DA BB M8x 16	M8x 16mm	1.4 kg	100 pcs/pkt
DA BB M8x 20	M8x 20mm	1.6 kg	100 pcs/pkt

Please consult MODU representative for further information and assistance.



Simplicity . Solutions
Fasteners Rivet



Material: Aluminium

Item Code	Weight	Supply
MA RR 3	0.2 kg	50 pcs/pkt

Blind Rivet



Material: Stainless Steel

Item Code	Weight	Supply
DA RB 3.2x9	0.2 kg	100 pcs/pkt

Connecting Strip



Item Code	Weight	Supply
DA CS 5x50.8x115	3.0 kg	10 pcs/pkt

Material: Stainless Steel - 8 pcs M8 Screw included.

Flat Washer, M6, M8 & M10



Material: Stainless Steel

Item Code	Weight	Supply
DA WF 6	0.25 kg	200 pcs/pkt
DA WF 8	0.48 kg	200 pcs/pkt
DA WF 10	0.80 kg	50 pcs/pkt

Connecting Strip



Item Code	Weight	Supply
DA CS 20x140	1.1 kg	10 pcs/pkt



AP

Special Devices SD



Parallel Mechanical Traffic Controller



Automated Side Guide Adjustment



Perpendicular Mechanical Traffic Controller



Centering Device

SD-1



Special Devices SD Perpendicular Mechanical Traffic Controller





180° Configuration



L= Light weight
 M= Medium weight

Item Code	Supply
SD PPTC A180 L L300	1 Unit
SD PPTC A180 M L300	1 Unit

Please specify arm length, angle and type weight when placing an order.

135° L / R Configuration



- L= Light weight

- M= Medium weight

Item Code	Supply
SD PPTC A135-L L L300	1 Unit
SD PPTC A135-R L L300	1 Unit
SD PPTC A135-L M L300	1 Unit
SD PPTC A135-R M L300	1 Unit

Please specify arm length, angle and type weight when placing an order.

90° Configuration



- L= Light weight

- M= Medium weight

Item Code	Supply
SD PPTC A90 L L300	1 Unit
SD PPTC A90 M L300	1 Unit

Please specify arm length, angle and type weight when placing an order.

Customized configuration available upon request. Please consult MODU System representative for further information.

Please spec an order.

90°

Please consult MODU representative for further information and assistance.

Direction of travel



Direction of travel.



Special Devices SD

Parallel Mechanical Traffic Controller



Standard Arm Height: - 100mm , 150mm & 200mm Standard Center Distance: - 245mm , 320mm, 545mm & 850mm Applicable Series: - All MODU series

Part No.

SD PRTC H100/150/200 C245/320/545/850

Example: PRTC H150 C320 (Arm height: 150mm; center distance: 320)



Customized configuration available upon request. Please consult MODU System representative for further information.

Vertical Mechanical Traffic Controller Center Dis ance Arm Height Direction of travel Application: - Product flow control / merging Standard Arm Height: - 100mm , 150mm & 200mm Standard Center Distance: - 65mm, 85mm, 145mm & 225mm Applicable Series: - All MODU series Part No. SD VTC H100/150/200 C65/85/145/225

Example: SD VTC H100 C145 (Arm height: 100mm; Center distance: 145mm)



Customized configuration available upon request. Please consult MODU System representative for further information.

Please consult MODU representative for further information and assistance.

MODI

Units: Dimension (mm)



Simplicity . Solutions

V16.0

Special Devices SD

Centering Device



Application:

- Helps to position products at the center of the conveyor.

Standard Arm Height:

- 100mm , 150mm &200mm

Applicable Series:

- All MODU series

Series	Part No.
MS2	SD MS2 CD H100/150/200
MM3	SD MM3 CD H100/150/200
ML2	SD ML2 CD H100/150/200
MX2	SD MX2 CD H100/150/200

Example: SD MS2 CD H200 (Arm height: 200mm; conveyor series: MS2)



Customized configuration available upon request. Please consult MODU System representative for further information.





Special Devices SD

Automated Side Guide Adjustment

Automated side guide adjustment can be configured with up to five different setting to accommodate different product sizes. The automated adjustment process usually takes less than a minute, and manual adjustment can also be done without affecting the auto configured settings. The Automated side guide system is applicable to the straight and bend sections.



Automated side guide installed at straight section



Automated side guide installed at bend section



Automated side guide installed at bend section



Automated side guide installed at straight section

Notes:

Please consult to MODU representative with product information for other.





Special Equipment SE



Continuous flow carton / case elevator and lowerator



Gripper System

Please consult MODU representative for further information and assistance.





Special Equipment SE Continuous Flow Carton/ Case Elevator and Lowerator



Please specify variable (A), (B), & (C) when placing an order.

MODU System Continuous Flow Elevator / Lowerator is commonly used to convey food and beverage cases, bagged products, trays, and other similar items. It is designed for high speed and large payload capacity. MODU System Continuous Flow Elevators / Lowerator free up floor space in case/carton palletizing lines, warehousing, or in work-in-progress storage applications by transferring products to an overhead conveyor section. This machine is idle to create aisleways, clearance for forklifts, transfer product between floors and etc.

Specifications:

Power:	230VAC or 415VAC, 3-Phase
Compressed Air:	5bar
Payload:	4.5kg - 30kg
Min Infeed Height:	550mm
Outfeed Height:	2400mm or variable
Throughput:	up to 20 cases/min
	(depend on product & application)



Please consult MODU representative for further information and assistance.

Units: Dimension (mm)



Special Equipment SE

Features

- Available in multiple heights, capacities and payload sizes.
- Continuous-flow elevating-no reciprocating action.
- Easy maintenance access panels.
- Universal mounts for any type of infeed and discharge conveyor.
- aluminum frame and also available in stainless steel.
- Comprehensive guarding.
- Powered infeed and discharge rollers.

Order Guideline

- Standard infeed height: 750 & 900mm
- Standard outfeed height: 2400 & 3000mm
- Standard lifting capacity: 20 cases/min
- Maximum product size: 400x400x400 mm

Part No.	Specification	
Fall NO.	Infeed Height	Outfeed Height
SE CFC 7524	750	2400
SE CFC 7530	750	3000
SE CFC 9024	900	2400
SE CFC 9030	900	3000

Customized configuration available upon request. Please consult MODU System representative for further information.







ММ



SE-3

Special Equipment SE



C-Flow

Simple Gripper Upender

Gripper Upender

S-Flow

Features

- Save floor space and conveyor length
- Maximize space utilization by creating cooling buffer at ceiling level.
- □ Easy integrate with other application such as blower, filling, packaging lines
- □ Flexible and lightweight easy to install and match with site arrangement layout.
- □ High capacity vertical transport
- Quick change over time by incorporating adjustable crank system and digital adjustment readout.
- Smooth handling of products.

Basic Functions

- 1. Product Elevation
- 2. Product De-Puck
- 3. Product Reverting
- 4. Creating Passage Way
- 5. Inverter Air Rinser
- 6. Change Orientation



Please consult MODU representative for further information and assistance.







XODU Simplicity . Solutions



Tools TL

Please consult MODU representative for further information and assistance.

TL-1



Tools TL Chain Pin Insertion Tool



Chain pin insertion tool shown without attachment & specific drive pin

Part No.	Supply
TR CP 1	1 pc

Attachment for chains tools







Supply

1 pc

For 63mm Chain Part No.

MS2 AC



For 140mm Chain		
Part No.	Supply	
ML2 AC	1 pc	

Sliderail Assembly Tools



For MS2 & DS2 Conveyor		
Part No.	Supply	
MS2 SRA	1 pc	



 For MM3 & DM3 Conveyor

 Part No.
 Supply

 MM3 SRA
 1 pc



For ML2, DL2, MX2 & DX2 Conveyor
Part No. Supply
MX2 SRA 1 pc

Please consult MODU representative for further information and assistance.









Simplicity . Solutions

TL-3

Installation Manual IM

Please consult MODU representative for further information and assistance.

IM-1



INTRODUCTION

The main purpose of this manual is to help self-building for end user, with basic experience, to assemble a MODU conveyor system.

Every chapter includes detailed instruction and some photos showing how to assemble the different part. Most photos in this manual include parts from MM3 conveyor system, but all instructions are applicable to MS2, ML2, and MX2 conveyor system unless otherwise specified or noted.

Document Division

The document is divided into the following four (4) main parts:

- Installation site preparations
- Tools and fasteners
- Assembly
- Start-up and testing.

Installation Site Preparation

Initial Assembly Planning

Technically working planning is required:

- Fully understand and studying the assembly drawing.
- Ensure the necessary tools are required.
- Ensure all the parts and materials well prepared through parts list.
- Enough space for conveyor installation is important.
- Ensure the floor is even and so the foot can be properly attached on the floor.

Assembly Checklist

- Cut all beams into desired length.
- Connect all feet and structural beams.
- Mount conveyor beam support brackets.
- Mount slide rail onto the conveyor beam
- Assemble conveyor beams and mount them onto the support structure.
- Mount drive and idler unit at the end of the conveyor.
- Check any obstruction of the conveyor with a short piece of chain.
- Assemble and mount necessary chain into the conveyor.
- Mount guide rail and other accessories required onto the conveyor.
- Read the final preparations at the end of this manual.



Tools and Fasteners

General tools

To assemble a Modu conveyor, you may need most of the tools listed on the following page. Not all are essential, but they will make your work easier and efficient.

Hand Tools

- Wrench
- Slide rail cutter
- Set of metric Allen keys
- Counter sunk bit
- Measuring Tape
- Chain inserting / Removing Tools
- Drill fixtures for slide rail
- Riveting Tool
- Files
- M8 Ratcheting Socket wrench
- Screw driver
- Pliers
- · Knife (cutting off plastic screw head or burr of slide rail)
- · Soft head hammer
- · Clamping tools (for chain installation and dismantling)
- Level

sier and efficient.

Power Tools

- Hand drill
- Drill bit (of fixing slide rail)

Fastener

 Standard Fasteners
 M8 = Washer, Counter sunk, Cap screw, Nut, Lock Nut.
 M6 = Washer, Counter sunk, Cap screw, Nut, Lock Nut.



Connecting Strip

Use for joining end to end of conveyor beams. Use Allen key and set screws attaching the connecting strip to the beam.



Square Nut
 Slotted into T-slot of MODU
 conveyor and support beam.



• T-bolt

Use when attaching support brackets, guide rails and dip tray to the conveyor beam.





Please consult MODU representative for further information and assistance.

Assembly

The basic MODU conveyor structure consists of four (4) component groups:

- · Conveyor beams, Drive Units, Idler Units and Bends
- Conveyor Guide
- Structure System
- Conveyor Accessories

Cutting MODU Beam

If you have ordered 3m beams, they will need to be cut into suitable lengths before assembly. Study your drawing to determine the beam lengths required before cutting.

Saw requirements

The mitter saw used for aluminum profile cutting at a high speed for nice and clean cuts. The saw should have the ability of cutting the largest profile in one single cutting action.

• Working site

You should use a special area for cutting beams in order to keep the assembly area clean.

• Quality of cut

If burrs are evident, they must be removed prior to assembly. Make sure the cut is straight for proper assembly. All safety precautions issued by the cutting saw manufacturer should be followed at all times.

Safety

All safety precautions issued by the cutting saw manufacturer should be followed at all times.



Foot and Support Structure Installation

The first step in the assembly process is to assemble the support structure, which consists of feet, support beams and beam support brackets. Most conveyor support designs are based on vertical support beams, combined, if necessary, with horizontal support beams. There are also a number of different feet and beam support brackets, so check which ones are suitable to use in your application.

Foot Installation



Insert hex head screws and washers into the holes on the side of the foot.

Use the screws to fasten foot connecting strips or square nut to the inner side of the foot



Slide the connecting strips or square nuts into the structural beam T-slots.



Raise the beam from

Step 4



Tighten the screws using a wrench.



the bottom of the foot approximately 30mm, to allow for height adjustment later in the assembly.

Foot Cap Installation





Thread the holes using 6mm tap. Attached the support bracket to the beam by inserting 4 socket head cap screws into the holes on the support bracket. Tighten the screws using an Allen key.

Step 2



Screw the foot cap onto the support bracket.

Step 3



Tighten the nut using the wrench.

Please consult MODU representative for further information and assistance.



Structural Beam Installation

Complete conveyor beam are mounted by the structural beam. There are various type of support bracket and they all serve the same purpose. The support bracket are connected to the structural beams in different ways.

Angle Bracket Installation



Insert the required number of square nuts into the structural beam T-slot. Mount the angle bracket using screws and washers.

Step 2



Mount the angle bracket to the transverse beam in the same manner. Tighten all screws.

Connecting Plate Installation





Insert the required number of square nuts into the structural beam T-Slot.

Step 2



Mount the connecting plate using screws and washer.

Mounting Conveyor Beam Support Bracket

Step 1



Attached screws, square nuts and washers to the support bracket before mounting. Slide the square nuts of one support bracket into the support beam T-slots. Tighten the screws. Make sure that the support bracket is aligned with the beam.

Step 2



Insert the square nuts of the second support bracket into the support beam T-slots. Slide the bracket down so that it does not protrude above the support beam.

Step 3



Use a soft hammer or mallet to mount an end cap on to the support beam.

Step 4



Mount the first support bracket to the conveyor beam. Pull the second bracket up and insert the T-bolts into the conveyor beam T-slot. Tighten the nuts.

Please consult MODU representative for further information and assistance.



Conveyor Beam Installation

The next step is to connect conveyor beams consist straight section, drive units, idler units and bends to each other.

Connect all conveyor beam according instruction below.



Connect two convevor beam ends by inserting connecting strips into the beam T-slots. Use two connecting strips per beam ioint.



Make sure that the set screws do not prevent the connection strips from sliding into place.



Tighten the set screws using an Allen key.



Assemble the entire conveyor beam structure in same way. if the conveyor beam is too long to mount onto thre support structure in one continues length, asemble shorter lengths and connect them to each other once fastened to the suport beams.

Drive Unit Installation

Step 1



Release the four set screws that are inserted into the drive unit connecting strips. Insert the connecting strips into the T-slot of the beam you want attached to the end drive unit. Make sure that the set screws do not prevent the connecting strips from sliding into place.

Step 2



Tighten the set screws using an Allen key.

Idler End Unit Installation



Insert the idler unit connecting strips into the T- slots of the beam end and tighten it.

Step 2



Tighten the set screws using an Allen key



Slide Rail Installation

The slide rail is attached to the sides of the conveyor beam to reduce chain friction where the chain would otherwise be in direct contact with the beam profile. It is very important that the slide rail is installed properly, so that the chain can run without disruption.

Step 1



Start the slide rail assembly at an idler end unit. Separate the top and bottom flange of the slide rail at the end of rail and press into place.



Make sure the slide rail is proper mounted and snaps onto the beam. Please identify the longer flange of the slide rail must always face inner of the beam.

Step 3



Use the slide rail assembly tool to press the slide rail into place. One end of the tool is to use when slide rail is mounted onto only one side of the beam, and the other end is used when you mount slide rail onto the second side.

Step 4



Do not forget to mount slide rail both underneath and on the upper side of the beam (unless top running chain only).

Joining Slide Rail

Step 1



Cut both slide rail ends in 45° angle. The beginning of the new slide rail section in the direction of travel must be cut back a small angle.

Step 2



Allow a space of approximately 10mm between two slide rail ends.

Step 3



Do not place two slide rail joints opposite each other. Make sure there is a distance of at least 100mm between them to make sure the chain run smoothly (this does not apply to slide rail that begins by an idler end or after drive unit where joints are always parallel).

Please consult MODU representative for further information and assistance.

Units: Dimension (mm)



Wheel Bend Slide Rail Installation

Step 1



Cut the slide rail end in 45° angle.

Step 2



The slide rail must be longer than the conveyor beam itself and there should be a 10mm distance between the slide rail and the wheel of the bend. Make sure that the end of the slide rail is not bent up or down.

Step 3



Cut the slide rail in 45° angle with a short back cut. The slide rail must be longer than the conveyor beam itself and there should be a 2mm distance between the slide rail and the wheel of the bend.

Step 4



In the outer bend, make sure that the slide rail is properly connected to the conveyor beam profile.

Note!

Diagram below shows cross-section of conveyor beam after slide rails are installed for different size of frames.





Try to let the slide rail run in as many continuous lengths as possible, except in circumstances stated below:

- It is recommended to use short slide rail approximately 2m to 3m where chemicals may have an effect on the slide rail composition.
- It is important to cut the slide rail and allow for elongation in high load areas. Cuttings are required in wheel bends, by idler units and where the conveyor will be heavily loaded. especially by drive units. This prevents the slide rail from stretching out and entering into the drive unit, which may lock the chain.
- Never join slide rail in plain bends or vertical bends, since forces are higher on the slide rail in these sections. Instead, place the joint before the bends.
- Avoid joining slide rail on top of conveyor beam joints.

Fixing Slide Rail using Rivet



Drill two holes near the beginning of each slide rail section. Use the drill fixture to ensure clean-cut holes and correct location of the holes. The holes must be at the beginning edge of the joint piece, in the direction of travel, to hole the slide rail in place when the conveyor in use. Use a well-sharpened drill bit.

Notes:

- Example applicable for MS2 and MM3 only. - Using MS SR 25 slide rail.





Use a countersink to deburr and countersink the holes. Also make sure no metal fillings left underneath the slide rail.

Step 3



Insert rivets in the holes. using rivet crimping tools to crimp the rivets.

Step 4



Check that the rivets do not protrude over the surface of slide rail. Check both top and underneath surface of slide rail for protruding metal.

Step 5



Keep a distance of approximately 30mm between rivets and idler unit. This is in case the idler end has to be removed after conveyor system assembly.

Please consult MODU representative for further information and assistance.



Fixing Slide Rail using Screw

Step 1



Drill two holes near the beginning of each slide rail section. Use the drill fixture to ensure clean-cut holes and correct location of the holes. The holes must be at the beginning edge of the joint piece, in the direction of travel, to hole the slide rail in place when the conveyor in use. Use a well-sharpened drill bit.

Notes:

- Example applicable for ML2 and MX2 only. - Using MS2 SR 25 slide rail.

Step 2



Use a countersink to deburr and countersink the holes. Also make sure no metal fillings left underneath the slide rail.

Step 3



Insert screws in the holes, using screw bit and hand drill to tighten the screws.

Step 4



Check that the screws do not protrude over the surface of slide rail. Check both top and underneath surface of slide rail for protruding metal.

Step 5



Keep a distance of approximately 30mm between rivets and idler unit. This is in case the idler end has to be removed after conveyor system assembly.

Joining Chain End



Insert the plastic pivot with the slot facing outward.

Step 2



Insert the steel pin halfway, using a pair of pliers. Always use new steel pins and plastic pivots when joining chain ends.

Step 3



Line the MODU chain tool up with the pin. Slowly depress the trigger until the pin seats.





Check that the chain is flexible in the joint and that the pin does not stick out or go through the other side.

Please consult MODU representative for further information and assistance.



MODU Simplicity . Solutions

IM-11

Taking the chain apart.

- i. Line the chain insertion tool up with the pin.
- ii. Press the trigger until the pin pops out.
- iii. Pull the pin out and chain apart.

Joining Chain End



Insert the chain into the underside of the drive unit. Make sure the chain will be moving in the correct direction, as indicated by the arrow located at the side of all chain links.

Step 2



Feed the chain along the conveyor by pulling it through the idler unit and back to the drive unit.



Joint the chain end.





Stretch the chain and remove links if necessary so that the chain will exhibit some slack at the drive unit. Connect the chain ends.

Length adjustment of the conveyor chain

- a. Adjustment of the conveyor chain is carried out at the drive end of the conveyor.
- b. Remove the chain catenary protection plate.
- c. The conveyor chain should be tensioned within the conveyor system by pulling down the conveyor chain at the chain catenary in the underside of the drive unit. Clamp across the conveyor chain to trap the chain on the beam profile. The clamp should be placed over the edges of the drive unit to reduce the risk of damaging to the aluminium profile.
- d. Remove all slack links from the conveyor chain using chain insertion tool.
- e. Rejoin the conveyor chain using a new steel pin and plastic pivot.
- f. Remove the chain clamp and replace the catenary protection plate.

Conveyor Guide System

Guide rails are used to guide products being conveyed, but also to prevent them from falling off the conveyor.

Guide rails are supported by guide rail brackets attached to the sides of the conveyor beam. Follow the mounting instructions for the type of bracket used in your application.

Brackets should be placed approximately 500 to 1000 mm apart depending on type of product and if accumulation occurs or not. If brackets are spaced at greater distances than 1000 mm, there is a possibility that guide rails will become deformed due to excessive force.

Please consult MODU representative for further information and assistance.



Mounting Guide Rail Bracket (Polyamide)





Insert square nut into T-slot of the beam. Fasten a guide rail bracket using hex head screw and washer.





Attach a guide rail tube and guide rail support to the bracket. Tighten the nut or hand knob.

Step 3



Attached the guide rail to the quide rail support. Tighten the screw.



Spacer can be added to increase side guide width. Use long bolt when mounting the bracket support and distance spacer to the conveyor beam. The length of the bolt is depending on the number of spacer added.

Mounting Guide Rail Bracket (Aluminum Distance Tube)





Insert square nut into T-slot of the beam. Insert set screw to the square nut.

Step 2



Tighten the distance tube to the set screw.

Step 3



Attached the guide rail bracket to the distance tube. Tighten the screw.

Attached the guide rail to the guide rail support. Tighten the screw.

Step 4



The length of the distance tube can be added to increase side guide width.



Connecting Guide Rail





Connecting sleeves are fastened to the guide rail ends with set screws and an Allen key. Make sure you place the connecting sleeves on the outer side of the guide rail.

Mounting Guide Rail Cover



To prevent products from being scratched, a plastic guide rail cover can be snapped onto the inside of the guide rail.

Step 2



Make sure that all cover joints are smooth, so that products do not get caught or damaged. Do not join covers on top of guide rail joints.

Bending Guide Rail

Step 1



Mark the length of the rail to be bent. Leave an approximately 200mm straight section at each end.

Step 2



Place the rail horizontally between the top wheel and the lower wheels. When bending guide rail, you should start bending from the centre of the required radius.

Step 3



Operate the crank to run the rail back and forth while lowering the upper wheel step by step until the desired radius and angle is achieved.

Note!

To calculate the length of guide rail to be bent, use below formula,

 $L = (2\pi x r x \alpha)/360$

Where, L = length of bend, r = radius, α = bend angle

If multiple bends with the same radius are to be made, note the final position of the upper wheel is indicated to make sure correct radius of subsequent rails. It is possible to bend angles up to 180°, minimum radius is 100mm.

Please consult MODU representative for further information and assistance.



Final Preparations

Plug Beam Ends

Ensure that end caps have been fitted to all aluminium profile ends. The beam profiles should be deburred before fixing end caps. It may be necessary to fix the cap into position using a soft-faced hammer.

Anchor feet to the floor

After the assembly of all components it may be necessary to anchor the conveyor support feet to the floor. Use a type of fastener that is right for the kind of floor where the conveyor is installed. Instability of the conveyor during operation may result in a dangerous operating environment or damage the conveyor components.

Other preparations

- Adjust the height of the structural beam if necessary.
- Make sure that the installation is stable and that all screws have been properly tightened.
- Use a plummet and/or water-level to make sure that the construction is not askew.
- Make sure that all electrical equipment and power supply are properly connected.
- Make sure that the conveyor is running in the correct direction before starting the conveyor! Never run the conveyor with tightened slip clutch until you have ensured that the running direction is correct.
- Tighten the slip clutch to a suitable friction.
- Make sure that the transmission cover is attached to the drive unit.
- In pallet installations, make sure that all pneumatic equipment is properly connected. Remember that conveyor chains should always be pulled, not pushed, by the drive unit.

Start-up and Testing

Safety considerations

To eliminate the risk of accidents, it is important to be aware of certain areas of the conveyor where special caution is required, during installation, operation and maintenance. Some areas present a higher danger to personal safety, and because of this various kinds of safety devices need to be installed.

- All pinch and shear points as well as other exposed moving parts that present a hazard to employees at their workstations or their passage ways must be safeguarded.
- Cleated conveyor chains are more susceptible of creating pinch and shear points than plain chain.
- When two or more pieces of equipment are interfaced, special attention must be given to the interfaced area to ensure proper safeguarding.
- For overhead equipment, guards must be provided if products may fall off the equipment for some reason. The same applies to all incline, decline and vertical conveyors.

Safeguarding can be achieved by:

Location	 locate the hazardous area out of reach of the personnel involved.
Guards	 mechanical barriers preventing entry into the hazardous area or protecting
	against falling goods.
Control devices	 machine controls preventing or interrupting hazardous conditions.
Warnings	 instructions, warning labels, or sound or light signals, alerting on hazardous conditions.
	Warnings shall be used when other means of safeguarding will impair
	the function of the installation.

Please consult MODU representative for further information and assistance.





Start-up

Lubrication

The conveyor chain is lubrication free. However, for some specific application where the operating environment is particularly hostile, regular lubrication of the slide rail/conveyor chain will result in lower coefficient of friction, longer life and reduce running cost. Use a silicon-based lubricant.

Wear

The number of wear on a conveyor depends on a number of factors, such as:

- Running time
- Load, contact pressure
- Speed
- Product accumulation
- Sharp or rough products
- Chemicals
- Contamination
- Temperature
- Plain bends

Try to minimize the running time for the conveyor by stopping it when there is no transport. Multiple horizontal and vertical plain bends in a conveyor will often result in increased wear. One reason is that the friction losses are large in plain bends. Also, the contact surface between chain and slide rail is small and the chain pull is acting towards the slide rail in the bends.

Running Period

Two or three days are usually enough as a running period. During this time, the conveyor should be cleaned a couple of times to remove dust.

Remove the chain and clean it with warm water (around 50°C), use soap if necessary. After cleaning, re-install the chain.

After running, wear will minimum, unless particles from product or process reach the conveyor continuously.

Chain Elongation

During the running period, regular checks should be made to the elongation of the conveyor chain. This is especially important if the conveyor is transporting high loads or is of long overall length. Regular inspections of the chain elongation are important. The chain should be shortened after running time of 40 hours.



Maintenance Manual MM

Please consult MODU representative for further information and assistance.

MM-1



General

This maintenance manual allows the users to maintain the conveyor in a proper manner which will ensure the safe maintenance, smooth operation and maximum life span of the system.

Please read and understand this manual before operate or perform maintenance on the system.

Nothing of this documentation may be reproduced in any form without the written permission of the manufacturer.

Safety Precautions

DO NOT ATTEMPT MAINTENANCE ON ANY CONVEYOR WHILE IT IS IN OPERATION.

Before Maintenance

- 1) Maintenance functions can only be performed after all electricity supply is switched off. All motor switches should be switched off and locked in the off position.
- 2) Pneumatic power must be disconnected and any pressure accumulation must be released.
- 3) Never work on a conveyor while it is running, unless maintenance procedure requires operation. When a conveyor must be operating to perform the maintenance; allow only proper trained maintenance personnel to work on the conveyor.
- 4) Remove all remaining product from the conveyor system.
- 5) Staff affected must be informed that maintenance work is being undertaken.

During Maintenance

- Do not wear loose clothing while performing maintenance on operating equipment.
- 2) Be aware of hazardous conditions, such as sharp edges and protruding parts.
- 3) When using hoists, cables or other mechanical equipment to perform maintenance, use care to not damage conveyor components. Miss-aligned parts are dangerous as conveyor is started after maintenance is completed.
- 4) Keep area clean. Clean up lubricants and other materials before starting conveyor.
- 5) Must equip with Personal Protective Equipment (PPE) such as safety glass, safety shoe, safety helmet etc when performing maintenance.



After Maintenance

- Before starting any conveyor after maintenance is completed, walk around the equipment and make certain all safety devices and guards are in place, pick up tools, maintenance equipment and clear any foreign objects from equipment.
- 2) Make certain all personnel are clear of the conveyor and made aware that the conveyor is about to be started.
- 3) Only authorized personnel should be permitted to start any conveyor following maintenance or emergency shut-off.

System Maintenance

Introduction

This manual is designed to provide assistance for your planned maintenance schedule. It may become evident that the suggested maintenance interval can be extended to accommodate your local environmental condition.

Maintenance of the MODU System conveyor systems shall only be done by competent/proper trained personnel who are familiar with MODU System products. If there is any doubt, please consult your MODU System product supplying agent.

Non-MODU System Product

Products or system which are not from MODU System family of products, its maintenance shall be carried out accordance with their respective manufacturer's instructions.

Maintenance Instructions

Introduction

This maintenance manual contains maintenance guide for MODU System standard component as listed in MODU System Product Catalogue. For non MODU System components such as motors, sensors, pneumatic components, control systems etc., the manufacturer maintenance instructions apply. This manual does not include maintenance instruction for equipments which customer has chosen and specified for fitting to the installation.

Recommended Spare Part List

Recommended spare parts list is shown in Appendix A. User of MODU System conveyor system shall keep at least a complete set of recommended spare parts. If there is a demand for spare parts, please contact MODU System or your supplying agent.

Maintenance Schedule and Inspection Guidelines

A suggested maintenance schedule and inspection guidelines are shown in section 4 Maintenance Guides.

Warranty

MODU System conveyors are covered by warranty as agreed within the trading term and / or Order Acknowledgement

Please consult MODU representative for further information and assistance.



Maintenance Guides

Maintenance Schedule

MODU System conveyors are designed to run 24 hours per day, 7 days per week, with minimum maintenance. For non MODU System components such as geared motors, sensors, pneumatic components, control systems etc., the manufacturer maintenance instructions apply.

No	Section	General checks	No of operating hours / time interval
1	Drive Unit	Check sprocket, chain return guide, chain guards and lubrication.	First 50, 250 and 500 hours. Then every 500 hours.
2	Idler End	Check chain guides and chain guards.	Every 1000 hours.
3	Chain	Clean.	Every day.
		Check wear or crack.	Every 2000 hours.
		Check tension.	First 40 and 200 hours.
			Then every 1600 hours.
4	Slide Rails	Check slide rails at horizontal and vertical bends.	Every 200 hours.
		Check and clean slide rails of	Every 1500 hours.
		the conveyor system.	
6	Safety	Check for function as	At least once a year.
	Features	required.	

	a <i>i</i>	
Table below shows MODU	System conveyors	the maintenance schedule.

Troubleshooting Guidelines

In the course of conveyor operation, periodic inspection of the conveyor system is required to prevent of any breakdowns and failures. MODU System conveyors should be inspected while the system is running as well as when it is shut down.


c Cause Correction Damaged or badly fitted slide rail. Inspect and replace as	<u> </u>
Damaged or hadly fitted slide rail Inspect and replace as	-
Conveyor chain is too tight/loose. Tension conveyor cha	in
Jerky correctly.	
running Dirty conveyor. Clean conveyor chain	
rail. Lubricate with sil	licone
based lubricant.	
Worn or damaged bearings in Check/replace drive u	nit.
drive unit.	
Damaged/badly fitted slide rail. Check the free running	
chain, especially in sli	de rail
Noise joints.	
Excessive conveyor speed. Lower speed. Check a	
against recommended	
Incorrect conveyor chain tension. Tension conveyor cha	in
correctly.	
Overloaded conveyor. Remove products from	n conveyor
Motor Charles and test run.	
Check actual conveyo	
on drive	-
unit Gearbox leaking oil. Check output shaft sea	
around motor/gearbox	
Dirty conveyor. Clean the chain and sl	
Overloaded conveyor. Remove products from	n conveyor
and test run.	6.4
Check the free running	g of the
conveyor chain. Check actual conveyo	r load
against recommended	
Abnormal	_
Wear on Ambient temperature too high. Check against recommendation temperature for convert	
chemicals in the environment are Check in MODU Syst	
affecting plastic parts.	
of incompatible chemi	
Damage due to ingress of Clean the system.	icais.
contaminate	
Particles, swarf etc. Remove source of	
contamination.	
Drive unit Friction disc in slip clutch are Check and replace if r	necessary.
is running, worn or contaminated.	J
conveyor Transmission products are not Check and fit.	

Table below shows MODU System troubleshooting guidelines



Simplicity . Solutions

Drive Unit type and Applications.

There are five (5) different types of drive unit, namely Front Drive Unit, Combined Drive Unit, Suspended Drive Unit. Catenary Drive Unit and Intermediate Drive Unit.



Please consult MODU representative for further information and assistance.



MODU Simplicity. Solutions

Inspection of Drive Units

Roller Chain Transmission

The roller chain transmission (Suspended drive) should be check and lubricated after 50, 250 and 500 hours of operation, and then every 500 hours.

If the roller chain transmission are not fitted with a tensioner it should be checked on this occasion. At the same time as the tension is checked, the roller chain must be lubricated.

If the transmissions are fitted with a chain tensioner, lubrication of roller chain should only be carried out at the stated interval. The condition of the chains must be checked at the same time.

Geared Motor

The geared motor should be checked in accordance with the instructions from the relevant supplier.

Guide for the Conveyor Chain.

The purpose of the guide for the conveyor chain is to guide the return chain correctly into the drive unit.

Fully guided drive unit do not have guides. On these, no slack is allowed at the drive unit since the conveyor chain is being controlled all the time. Special attention must be given to chain elongation in conveyor of this configuration. Example of conveyor of this configuration is gripper conveyor.



Please consult MODU representative for further information and assistance.





General Check on Drive Unit

Carry out a general inspection of the drive unit:

- 1. Check particularly that the protective covers for the conveyor chain are complete and firmly in place.
- 2. Replace damaged/worn parts.

Inspection of Conveyor Chains

Friction Chain, Cleated Chain, Flocked Chain, Finger Gripper Chain, Box Gripper Chain and Wedge Chain are special chains should be inspected regularly and any defective dirty links must be replaced and cleaned.



Types of MODU Conveyor Chains

Caution! Only warm water (50°C), with soap if necessary, may be used for cleaning conveyor chain.

Please consult MODU representative for further information and assistance.

Units: Dimension (mm)



Simplicity . Solutions

Checking the Tension of Conveyor Chain

The chain is made of elastic material. The chain eventually stretches as the material creeps. The extent of the stretch depends on the traction force in the chain. The stretch shows itself as slack on the return side of drive unit.

The tension of the chain should be checked after 40 and 200 hours of operation and thereafter every 1600 hours.

In operation there will be some slack in the conveyor chain. How much slack is acceptable depends on the length of the conveyor chain. The most suitable places to check the slack in the chain is at the drive unit

Important!

The chain should be pre-tensioned while the conveyor is stationary, but must never be so tight that there is no slack during operation. There should be no appreciable slack on the chain when the conveyor is stationary. This can, however, vary depending on the total length of the chain. If there is too much slack, there will be excessive wear on the chain guides and the chain. This could be a risk for injury.

If the slack on the conveyor chain is unacceptably high, it must be shortened by splitting the chain and removing necessary number of links.

If the conveyor has a fully guided drive unit with no chain slack take up, the elongation of the chain has to be monitored even more carefully, to ensure a trouble free operation.



The conveyor chain does no need to show any slack when the conveyor chain is stationary.



The conveyor chain must show some slack during operation.

Please consult MODU representative for further information and assistance.





Shortening Conveyor Chain

Instructions

- 1. Make the conveyor chain accessible at some of the overhead positions.
- 2. Remove the steel pin (1) from the pivot (2). Use the pin insertion tool.
- 3. Remove the necessary number of links. (Note: With cleated or plain chains, pay attention to the divisions between links.)
- Join the chain together with a new pivot. (Note: the old pivot should not be re-used. When the chain is divided, a new pivot must always be fitted.)
- 5. Insert the steel pin using the pin insertion tool.
- 6. After inserting the steel pin, check that it is centered and that the chain easily bends in the fitted link.



Chain Joint Components

Inspection of Slide Rails, Beams, Idlers and Bends

Checking Slide Rail

The condition of the slide rails is fundamental to the functioning of the installation. It is therefore essential that these are in good condition.

Checking the Slide Rail with the Conveyor Chain in Place

The slide rail must be checked after every 200 hours' operation. Carry on the checking on a stationary conveyor with the chain in place.

Please consult MODU representative for further information and assistance.



- 1. Check the fastening points on the slide rail.
- 2. Check the joints on the slide rail. Below shows correct configuration of joints.
- 3. Check that there is a gap between the slide rails and that the joints are correctly fitted.
- 4. Check that the joints are not deformed.
- 5. Check that the slide rail has not been broken off.

Replace the slide rail if necessary.



Checking the Slide Rail, Conveyor Chain Removed

At least once a year or after every 2000 hours' operation, the chain should be removed from the beam and the slide rail carefully checked for wear and fastening.

Plain bend should be checked after every 500 hours' operation, since these are subjected to higher loads.

- 1. Carry out the same checks as were carried out during "Checking the Slide Rail with the Conveyor Chain in Place".
- 2. Check the slide rail for wear and tear.

Check in particular the inner slide rail in plain bends, since the stresses here are particularly high.

- 1. Check the slide rails for scratches and notches.
- 2. Replace the slide rail and fasteners if necessary.

Wash the conveyor chain.

Please consult MODU representative for further information and assistance.



Conveyor Beams, Idler Ends and Bends

The conveyor beams themselves do not normally require and regular inspection. Be observant for damage arising from external factors, warping or deformation. Deformation can cause the conveyor chain to jam, resulting in uneven running.

Idler ends and wheel bends do not normally require any special inspection, but they should be checked when the slide rails are inspected.

Large radius plan bends may have inner support rails fitted to the beam. Ensure that these rails (if fitted) are not worn, paying particular attention to the "lead-in" area.

Inspection of Safety Features

Protective and Safety Features

Safety features should be checked at regular intervals.

- 1. Check the chain guard for roller chain or timing belt transmission. This guard must always be in place when the conveyor is running.
- 2. Check the protective cover on the cleated chain conveyor return chain.
- 3. Drive units have a slack protection for the conveyor chain. Check the slack protection plates are in place and that the chain does not slacken enough to hang below the "M" mark on protection plates.
- 4. There may be other types of guard which are specific to your installation and these must also be inspected.



Slack must not hang below "M" mark



Chain guard for roller chain or timing belt

Please consult MODU representative for further information and assistance.



Replacement of Worn Conveyor Chain

Removal of Conveyor Chain

- 1. Ensure that the power to the drive motor is disconnected.
- 2. Disengage the motor; there are various methods depending on the type of drive unit.
- 3. Split the chain by removing the steel pin from the pivot. Use the special tool for insertion or removal (see Shortening Conveyor Chain section).
- 4. Pull out the chain.

Fitting the Conveyor Chain

- 1. Run a sample, approximately 0.3m of conveyor chain through the installation in the direction of the conveyor. Check that the chain moves easily and correctly through the bends and idlers ends. Check at the same time that there is enough space for chain.
- 2. Put the new conveyor chain in place. Check that the chain direction corresponds to the conveyor direction.



Checking of Conveyor Chain Space



Conveyor Chain Direction

Please consult MODU representative for further information and assistance.



Replacement of Worn Slide Rails

Replacing Slide Rails

It is very important the assemble slide rail correctly to ensure smooth system operation.

Follow the illustrated instruction on the following pages carefully. Observe the following points:

- 1. Slide rail cutter single cut pliers are suitable tools for cutting the slide rails.
- 2. Use slide rail mounting tools.
- 3. Use drill fixture.
- 4. Use a high quality drill bit to avoid forming a shoulder, preferably one which is intended for drilling aluminium.



When fitting the slide rails with rivets, applicable for MS2 and MM3 series, the fitting instructions in following pages must be followed.

- The joints on the slide rails must have a distance of 100mm between them. The joints should be laid out as in the picture with gap of approximately 10mm between the rails.
- 2. Joints may not be positioned in bends, or in the transition between two sections of beams.
- 3. The slide rails should normally be approximately 5m long on a straight conveyor beam. In a bend, the maximum length of slide rail should be 3m.
- 4. The joints should be positioned a minimum of 500mm before an idler end unit, drive unit or vertical bend. The slide rail must overlap the recess in the idler end and drive unit.
- 5. The inner slide rail after a wheel bend must be cut so that the cut surface is parallel to the wheel. In front of the wheel bend, the slide rail will normally be cut at 45°.

Note:

Check final slide rails visually, as well as running a section of conveyor chain through the installation.

Another method of installing slide rail is using screw, applicable for ML2 and MX2 series. Please see following pages for fitting instructions.

Please consult MODU representative for further information and assistance.



Slide Rail Fixing Instructions

Fixing Slide Rail to the Conveyor Beam

The beginning of each slide rail section must be fixed to the beam, since the chain will cause the slide rail to be pushed forward. Slide rail which moves into a wheel bend or a drive unit can block the chain completely.

There are two different methods for fixing slide rail to the conveyor beam:

- 1. Using rivets (MA RR 3), this is applicable for MS2 and MM3 series only.
- 2. Using screws (MA RS 6.5), this is applicable for ML2 and MX2 series only.

Method 1 - Using Rivets, Applicable for MS2 & MM3 Series only



Drill through holes on slide rail.



Countersink on slide rail.





Insert rivets in the holes, using rivet crimping tools (MA RC)



Check that the rivets do not protrude over the surface of slide rail. Check both top and underneath surface of slide rail for protruding metal.



Complete fitting slde rail.

AP

Ř





Method 1 - Using Screws, Applicable for ML2 & MX2 Series only



Please consult MODU representative for further information and assistance.



Notes	



Notes	



Votes	



Notes	

_



Our Offices:



United Kingdom Unit 9, The Christy Estate, Ivy Road, Aldershot, Hampshire, GU12 4TX, UK

Hampshire, GU12 4TX, UK Tel : + 44(0)-1252 369 818 Fax : + 44(0)-1252 369 802



Malaysia 7. Jalan Sal

7, Jalan Saham 23/3, 40000, Shah Alam, Selangor, Malaysia Tel : + 60-3-5548 7333 Fax : + 60-3-5548 7222

Email: info@mymodu.com Website: www.mymodu.com

Specification and design are subject to change without prior notice due to continuous quality improvement. The actual color of the product may differ slightly from the picture due to print clarity.



Business office of MODU System Malaysia is certified according to ISO 9001:2008



United States

1715 Endeavor Drive, Williamsburg, VA 23185 USA Tel : + (757) 250 3413 Fax : + (757) 250 3523



Singapore

Block 22, Woodlands Link #04-66 Singapore 738734 Tel : + 65-6257 0811 Fax : + 65-6257 3811



China 上海古湖南新

上海市浦東新區 置業路111號一號樓1樓 Tel:+8613816113703



All product brands are registered trade marks of the respective manufactures.

Agent & Distributors

American Conveyor Group, Inc. 2047 Hwy 96 Burns, Tennessee 37029

(615) 560-4020 (local) (615) 560-4027 (fax) (866) 403-5232 (toll free) sales@acgconveyors.com

