habasit

HabasitLINK®
Plastic Modular Belts
Accessories

Product liability, application considerations

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⚠ WARNING

Habasit belts and chains are made of various plastics that WILL BURN if exposed to sparks, incendiaries, open flame or excessive heat. NEVER expose plastic belts and chains to a potential source of ignition. Flames resulting from burning plastics may emit TOXIC SMOKE and gasses as well as cause SERIOUS INJURIES and PROPERTY DAMAGE. See the Fire Hazard Data Sheet for additional information.

Protection type of all belts IP 2x (DIN EN 60259 / IEC 529)
Exceptions (IP1x) : F51, F52, F53, F54, SP615, IS615, SP620, IS620, PR620, PR620 SPS, PR 620TTR, PR620 SPS CT, M2586, M3892, M5290, M5293

Contents

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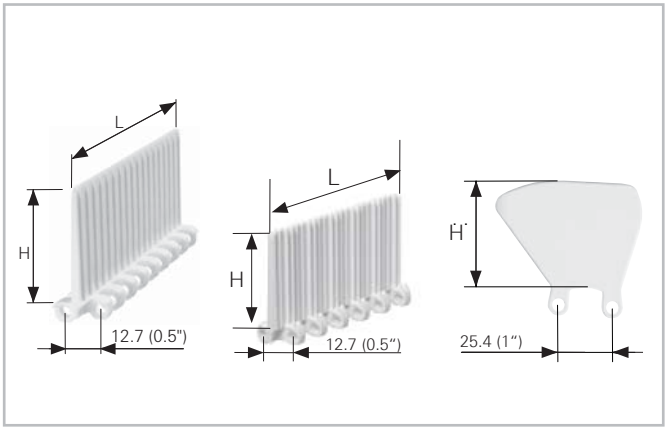
HabasitLINK® accessories – 1/2" pitch belting
Flights and side guards M1200

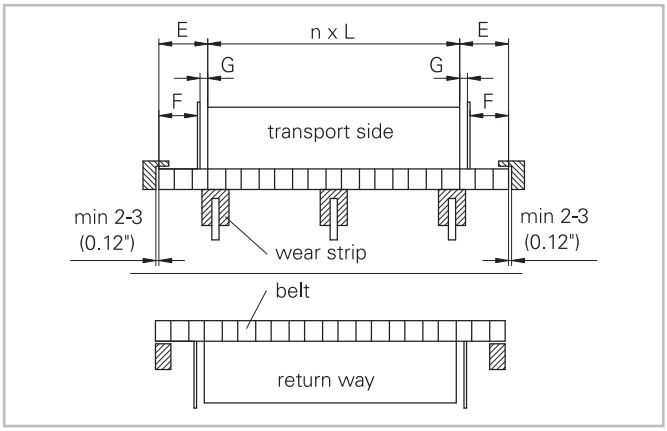
HabasitLINK® modular belts are available with flights to convey products on inclined conveyors. The flight modules are injection-molded one-piece designs that, when assembled, become an integral part of the belt. Flight modules are designed with ribs on one or both sides (no-cling) for improved release of wet or sticky food products and can also be cut to nonstandard heights. The flights fit all series M1200 belts except M1230, side guards fit to M1220 only.

	Flight straight ribs on one side		Flight straight ribs on both sides		Side guards
Code	M1220F05		M1234F05		M1220G05
height H lenght L	H	L	H	L	H
mm *inch*	50 *2*	150 *6*	50 *2*	100 *4*	50 *2*

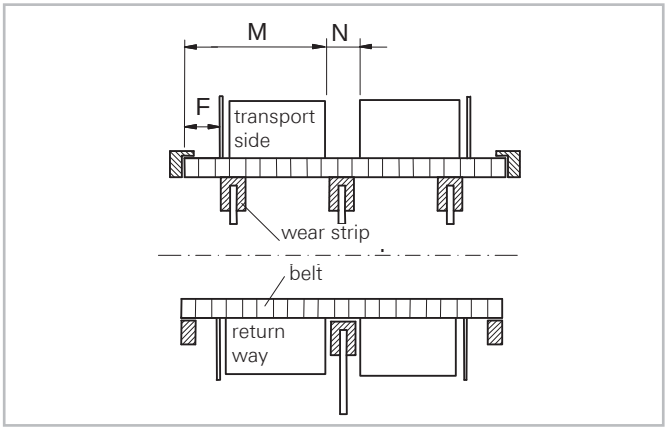


M1220F05 M1234F05 M1220G05

Indents (E)
The flight indent E is the distance between the edge of the belt and the edge of the flight. It is required for adequate support of the belt on its return way and hold-down during back bending applications (elevators).
On short conveyors or with special support structure, the flights may also be applied over the full belt width (E = 0).



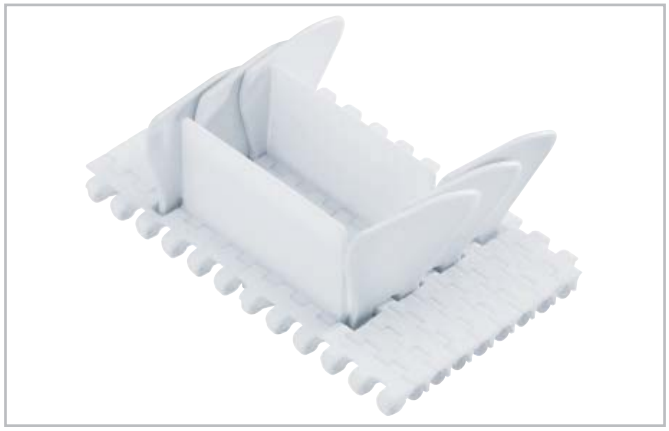
Notch (N)
The notch N is a gap in each row of flights, longitudinally aligned to allow the support of belts wider than 600 mm *(24")* on their return way or in backbending applications. The notch width (N) and the distance (M) from the belt edge is a multiple of the link increment 16.67 mm *(0.66")*. For M1200 series the minimum notch width is 33.3 mm *(1.31")*.



Installation of flights and side guards; indents
The side guards have a pitch of 25.4 mm *(1")*, that is twice the module pitch. Therefore only one link per module needs to be cut for the side guard installation. This special solution provides higher strength. The smallest applicable sprocket size is M12S15 (15 teeth). The distance E_1 between the flight end and the hold-down and support-shoes/wear strips should not be smaller than 5 mm *(0.2")*.

HabasitLINK® accessories – 1/2" pitch belting
Flights and side guards M1200

	Possible flight indents E									
	Flight only		Flight + side guard with gap (G ~8 mm *(0.3")*				Flight + side guard without gap (G ~2 mm *(0.08")*			
	E		**E**		**F**		**E**		**F**	
	mm	*inch*	mm	*inch*	mm	*inch*	mm	*inch*	mm	*inch*
Flight over full belt width	**0**	*0*	–	–	–	–	–	–	–	–
Module cutting necessary	33	*1.3*	–	–	–	–	33	*1.3*	25	*1*
Standard, no module cutting	**50**	*2*	**50**	*2*	33	*1.3*	**50**	*2*	41	*1.6*
Module cutting necessary	66	*2.6*	66	*2.6*	50	*2*	66	*2.6*	58	*2.3*
Module cutting necessary	83	*3.2*	83	*3.2*	66	*2.6*	83	*3.2*	75	*3*
Standard, no module cutting	**100**	*4*	**100**	*4*	83	*3.2*	**100**	*4*	93	*3.7*



M1220G05/F05
Double pitch side guard, fixed every second module row

HabasitLINK® accessories – 1" pitch belting

Flights, side guards and scoops M2500 (straight belts)

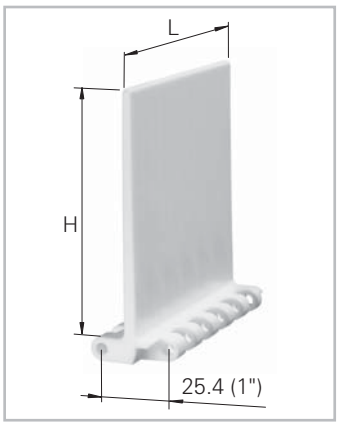
HabasitLINK® modular belts are available with flights to convey products on inclined conveyors. The flight modules are injection-molded one-piece designs that, when assembled, become an integral part of the belt.

Flight modules are available with ribs on one side (no-cling) for improved release of wet or sticky food products and can also be cut to nonstandard heights.

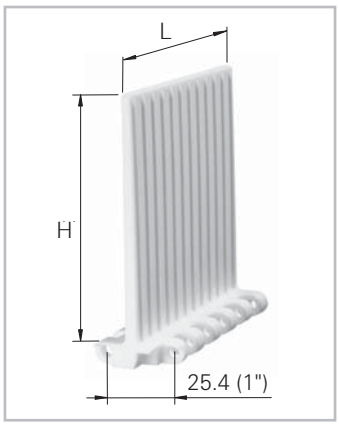
	Flat Top flights straight open hinge (USDA)		Nub Top flights straight open hinge (USDA)		Flat Top flights straight closed hinge		Flat Top flights bent (Scoop) open hinge (USDA)		Flush Grid flight corrugated open hinge (USDA)		Side guards	
Code flight side guard	M2510Fxx*[1]		M2514F05[2]		M2520Fxx*[1]		M2510B07[3]		M2533F07[3] M253JF07[3]		M2520Gxx*	M252RGxx* M252LGxx*
Applicable for belt type	M2510, M2511 M2516		M2510, M2511 M2514		M2520/27 M2533		M2510, M2511 M2516		M2533		All 1" belts except M2531	
	height H	length L	height H	length L	height H	length L	height H	length L	height H	length L	height H	
mm *inch*	25 *1*	100 *4*	75 *3*	100 *4*	25 *1*	100 *4*	–	–	–	–	28[1]	–
mm *inch*	50 *2*	100 *4*	–	–	50 *2*	100 *4*	–	–	–	–	53 *2*	–
mm *inch*	75 *3*	100 *4*	–	–	75 *3*	100 *4*	75 *3*	150 *6*	75 *3*	100 *4*	–	78 *3*
mm *inch*	–	–	–	–	100 *4*	100 *4*	–	–	–	–	–	103 *4*
mm *inch*	–	–	–	–	100 *4*	150 *6*	–	–	–	–	–	–

*Code xx = height of flight: 25 mm = 02 50 mm = 05 75 mm = 07 100 mm = 10

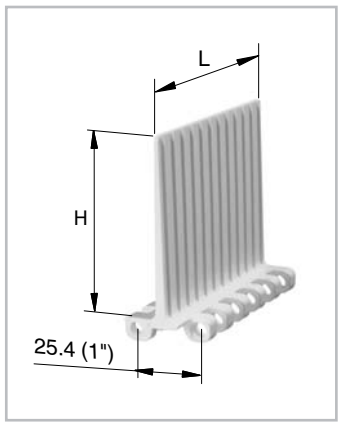
[1] ribs on one side [2] ribs on both sides [3] without ribs



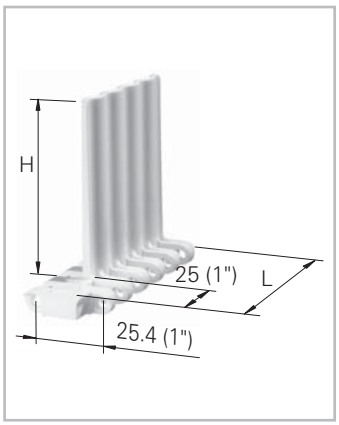
M2520Fxx
smooth side



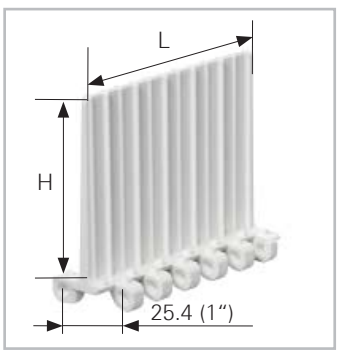
M2520Fxx
"no-cling" side (ribs)



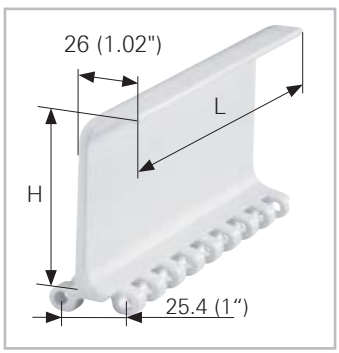
M2510Fxx
open hinge; "no-cling" side



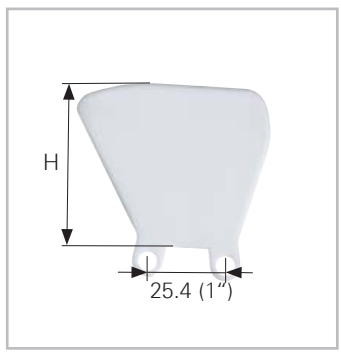
M253JF07, open hinge;
indent flight, corrugated



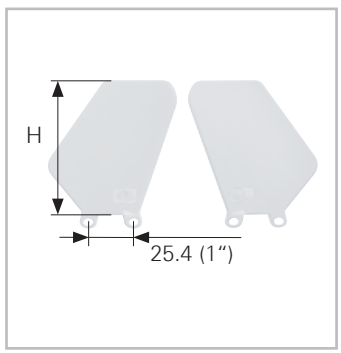
M2514F07



M2510B07, scoop
open hinge



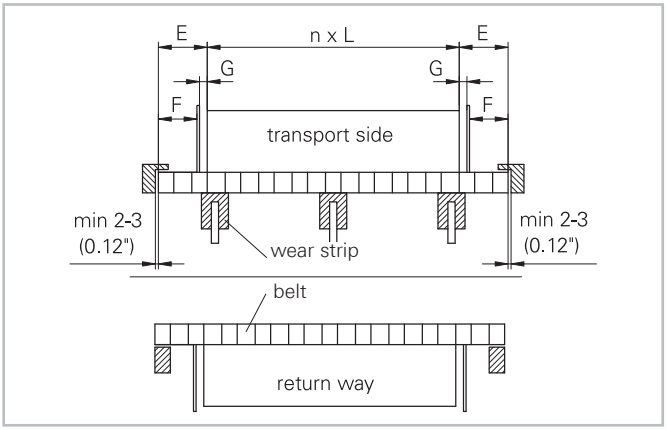
M2520G05



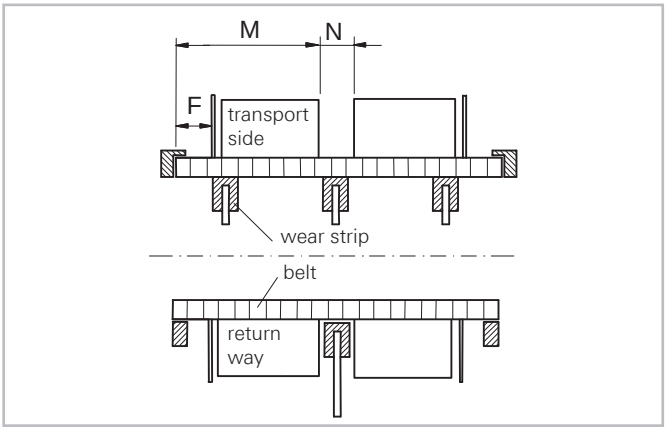
M252RG/FG10

HabasitLINK® accessories – 1" pitch belting
Flights and side guards M2500 (straight belts)

Indents (E)
The flight indent E is the distance between the edge of the belt and the edge of the flight, and F is the distance between belt edge and side guard. It is required for adequate support of the belt on its return way and hold-down during back bending applications (elevators).
On short conveyors or with special support structure, the flights may also be applied over the full belt width (E = 0). For the Flush Grid, flight edge modules with indents are available (fixed indent see illustration).



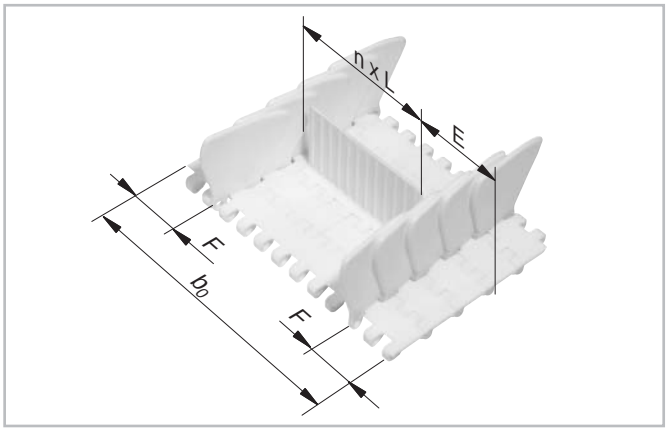
Notch (N)
The notch N is a gap in each row of flights, longitudinally aligned to allow the support of belts wider than 600 mm *(24")* on its return way or in back-bending applications. The notch width (N) and the distance M from the belt edge is a multiple of the link increment 16.67 mm *(0.66").* For M2500 series the minimum notch width is 33.3 mm *(1.31").*



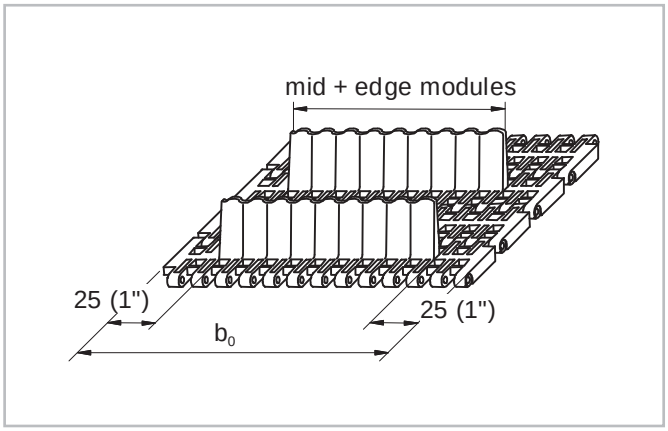
HabasitLINK® accessories – 1" pitch belting
Flights and side guards M2500 (straight belts)

Installation of flights and side guards; indents
(For radius belts please refer to the specific data sheets.)
The side guards are usually installed with a gap (G) between the side guards and the flights. It is also possible to install the side guards with a minimum gap between flight and side guard of approx. 2 mm *(0.08")*. There is a certain risk for rubbing and abrasion between the flights and the side guards. The distance E_1 between the side guards and the hold-down- and support shoes/wear strips should not be smaller than 5 mm *(0.2")*.

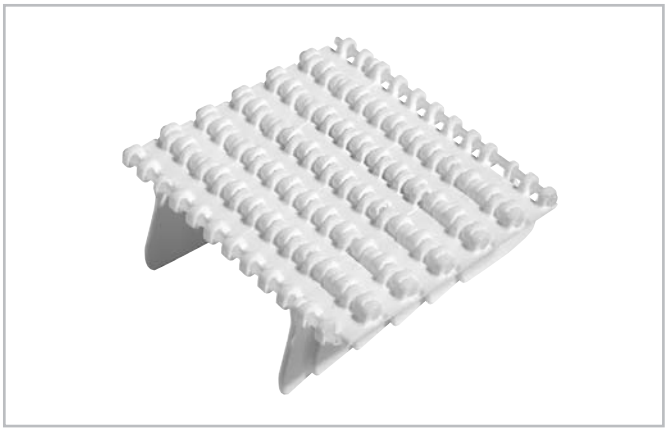
	Possible flight indents E (not for M2533F05 edge flight)									
	Flight only		Flight + side guard with gap (G ~8 mm *(0.3")*				Flight + side guard without gap (G ~2 mm *(0.08")*			
	E		**E**		**F**		**E**		**F**	
	mm	*inch*	mm	*inch*	mm	*inch*	mm	*inch*	mm	*inch*
Flight over full belt width	**0**	*0*	–	–	–	–	–	–	–	–
Module cutting necessary	33	*1.3*	33	*1.3*	16	*0.65*	33	*1.3*	25	*1*
Standard, no module cutting	**50**	*2*	**50**	*2*	33	*1.3*	**50**	*2*	41	*1.6*
Module cutting necessary	66	*2.6*	66	*2.6*	50	*2*	66	*2.6*	58	*2.3*
Module cutting necessary	83	*3.2*	83	*3.2*	66	*2.6*	83	*3.2*	75	*3*
Standard, no module cutting	**100**	*4*	**100**	*4*	83	*3.2*	**100**	*4*	93	*3.7*



M2510 with flights M2510F05 and side guards M2520G05 (top view)



Flush Grid flight M2533F07 + M253JF07



M2510 with flights M2510F05 and side guards M2520G05 (bottom view)

HabasitLINK® accessories – 1" pitch belting
Hold-down devices for M2500 (straight belts)

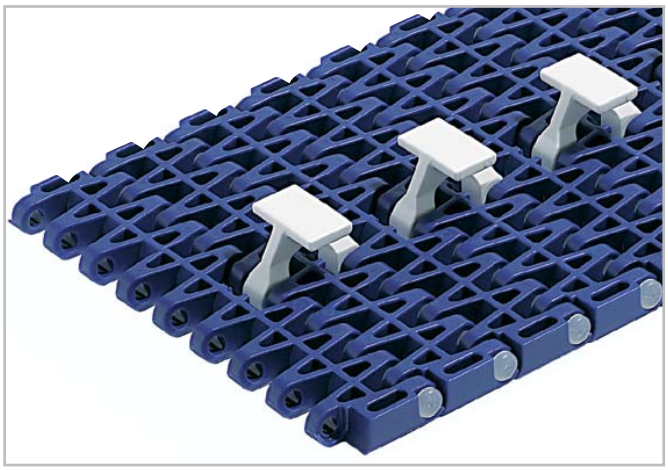
For elevators with back-bending (Z-conveyors) **hold-down devices** are used to keep the belt down when it is changing from horizontal to inclined direction. For wide belts (e.g. > 600 mm *(23.6")* wide), slider shoes on the belt edge are often not sufficient to keep it on the track. In such cases hold-down devices on the bottom side of the belt are used to guide it through the back-bending curve. Further details see design guide.

Compatibility: The hold-down device can be put into M2500 1" HabasitLINK® straight-running modular belt. The modules are inserted into the prepared position, one module every second row.
As long as link increment is (16.6 mm) respected, any position over the belt width is possible.
For a center positioning consider an offset "e" of 4.2 mm. Allow the necessary distance for the sprocket engagement!

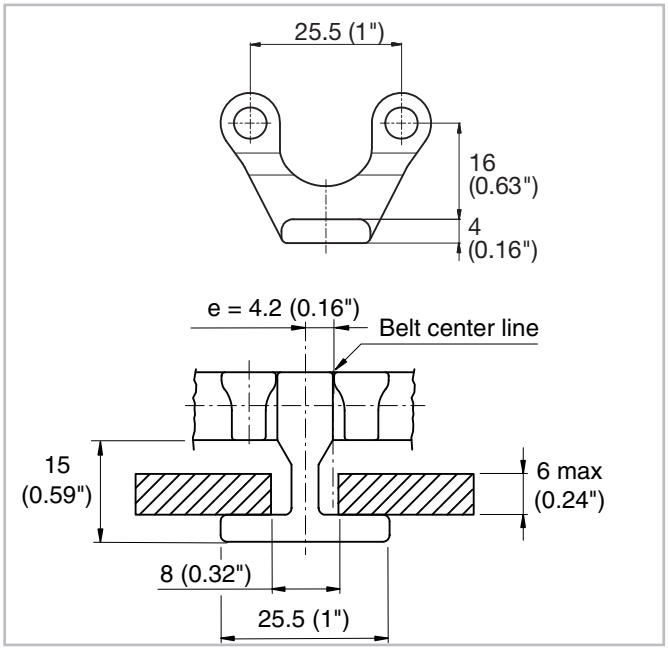
Back bending radius R: min 250 mm *(10")*

Sprockets: minimum size
M25S12 with 40 mm / 1.5" square bore
M25S12 with 30 mm round bore
M25S10 with 1" square bore
M25S10 with 30 mm round bore

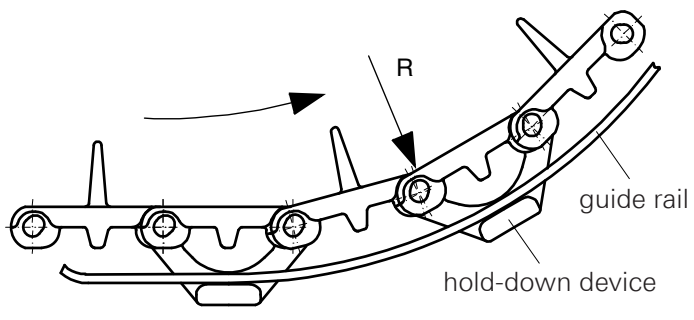
Standard materials: POM white
Other materials on request.



M2533 with M2500V01



Hold-down device M2500V01



It is very important that the guide rail is very smooth, without joining. It is also important that enough clearance is provided to allow the belt to expand or shrink.

HabasitLINK® accessories – 1" pitch belting
Combs for M2531

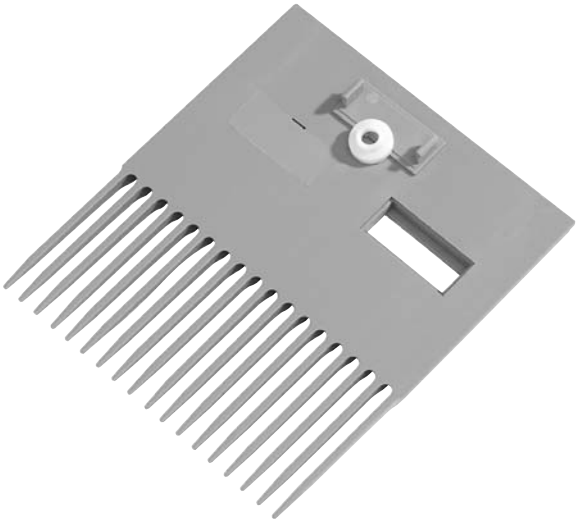
Installation data

Dimensions	mm	*inch*
W	148	*5.8*
W_L	170	*7.5*
X_1	70	*2.75*
X_2	50	*2*
X_3	80 – 90	*3.2 – 3.5*
X_4	80	*3.2*
X_5	70	*2.75*
K	10	*0.4*

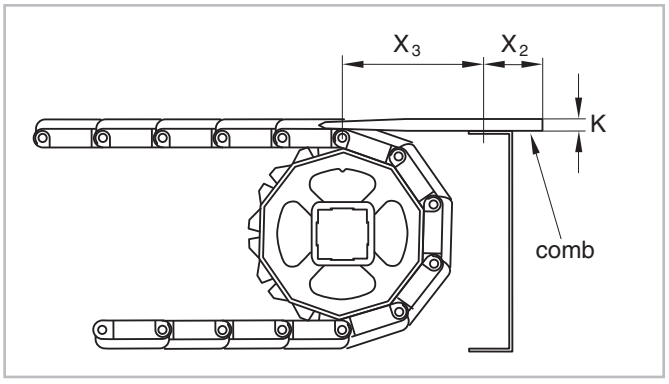
(Finger transfer plates)

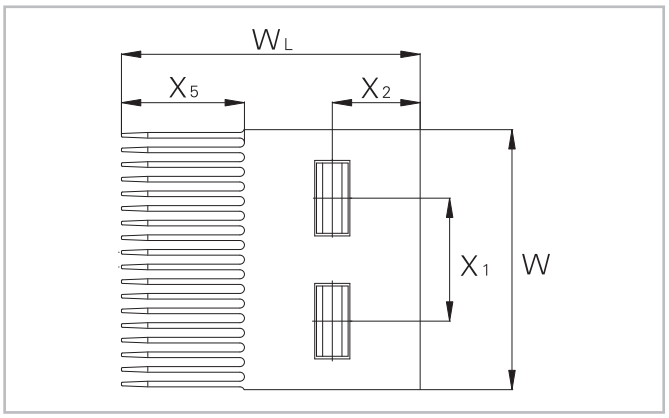
Material		Acetal dry (wet)
Temperature range	°C *°F*	-40 – 90 (-40 – 60) *-40 –195 (-40 –140)*
Color		grey

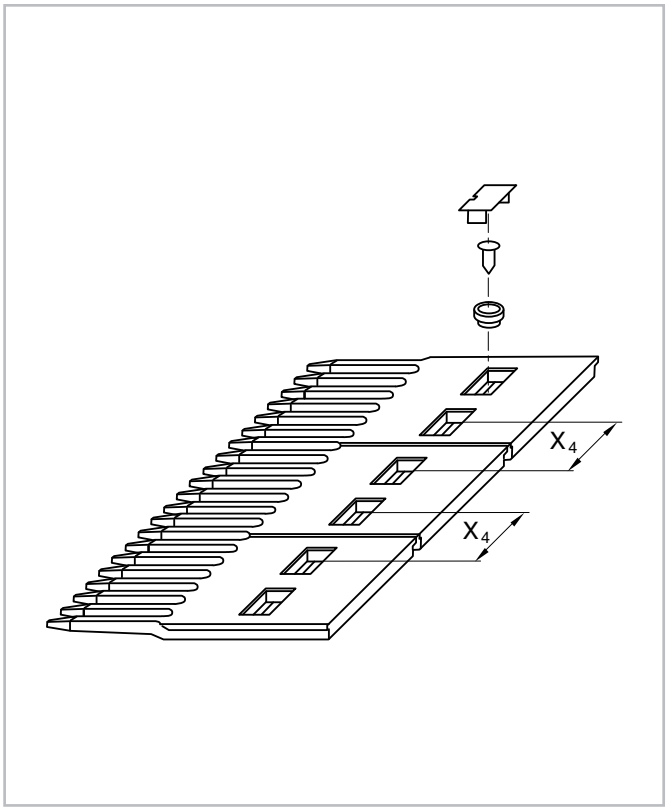
Other materials on request.



M2531C15



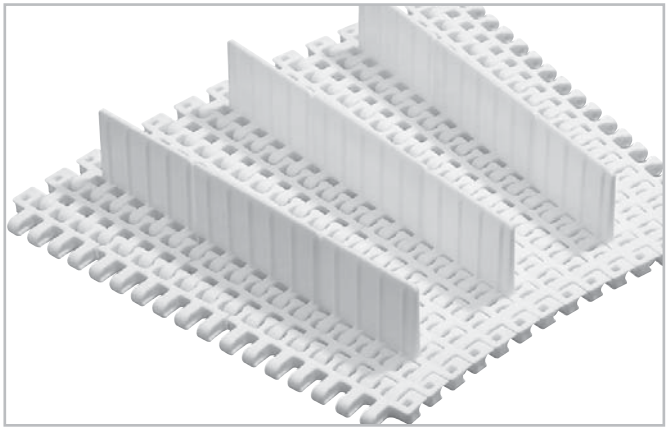




Note

The combs are fixed using a special distance bushing that allows lateral movement. This allows the combs to adapt their position to the lateral displacement of the belt, caused by thermal expansion. For belt widths up to 300 mm *(12")*, the plates can be firmly fixed (2 plates max). The fixation of the comb support should be adjustable to allow fine-tuning.

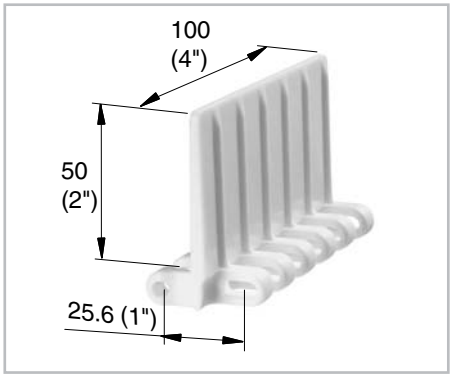
HabasitLINK® accessories – 1" pitch belting
Flights, side guards and lane dividers M2540



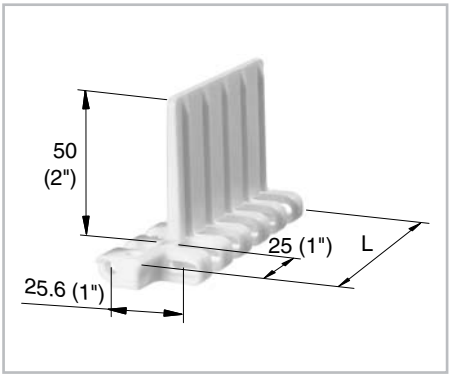
M2540 with middle and edge flights

M2540 with side guards and lane divider

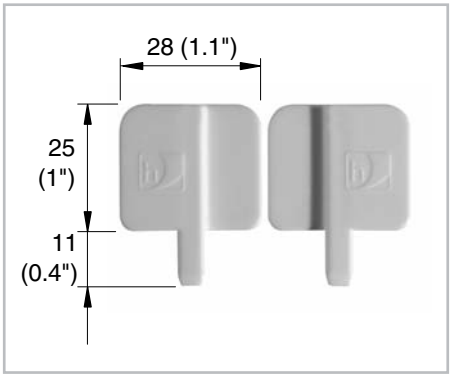
Flights are available in 50 mm *(2")* height, side guards and lane dividers in 25 mm *(1")* height, see illustrations below. Flights are available with ribs on one side for better release of wet or sticky food products (no-cling). They can be cut to specific width and height if required. The collapse factor remains unchanged.



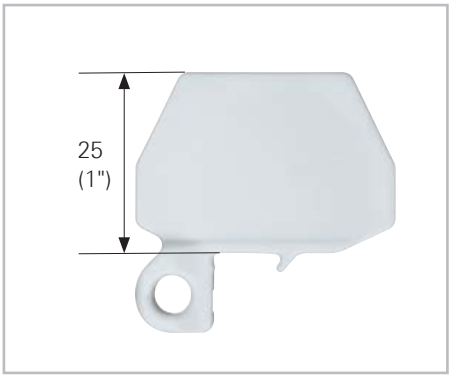
Middle flight
M2540F05



Edge flight
M254RF05 (right side)
M254LF05 (left side)



Clip-on side guards
M254RG02 (right side)
M254LG02 (left side)



Lane divider
M2540W20

Standard range of belt widths b_0 for belts with flights

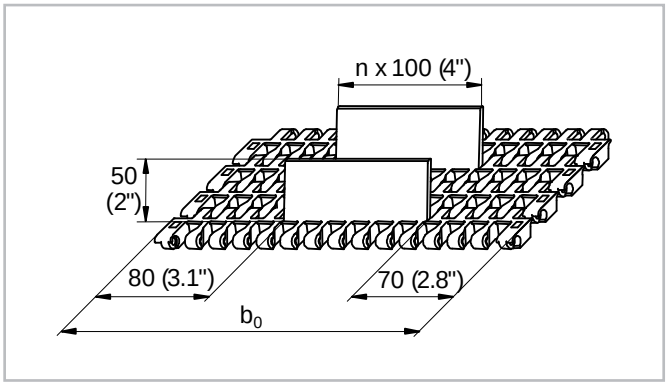
mm	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	etc.
inch (nom.)	*8*	*12*	*16*	*20*	*24*	*28*	*32*	*36*	*40*	*44*	*48*	*52*	*56*	*60*	*etc.*

Real belt widths are in most cases 0.1% to 0.3% smaller.

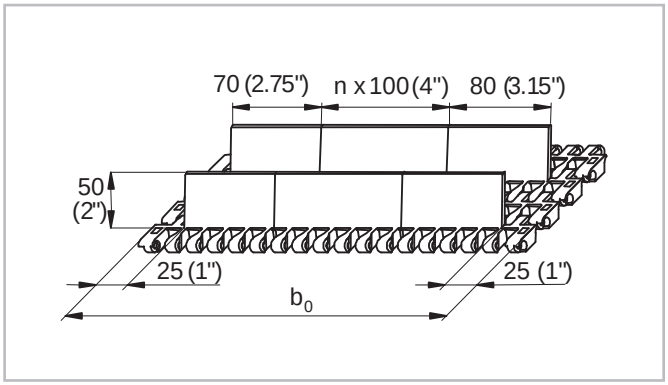
HabasitLINK® accessories – 1" pitch belting

Flights, side guards and lane dividers M2540

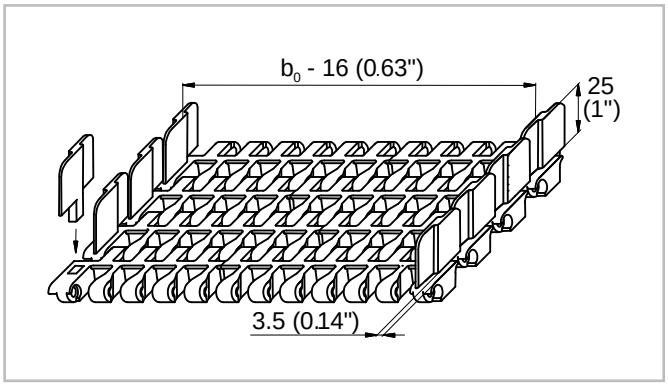
Assembly conceptions for M2540 radius belts, flights and side guards



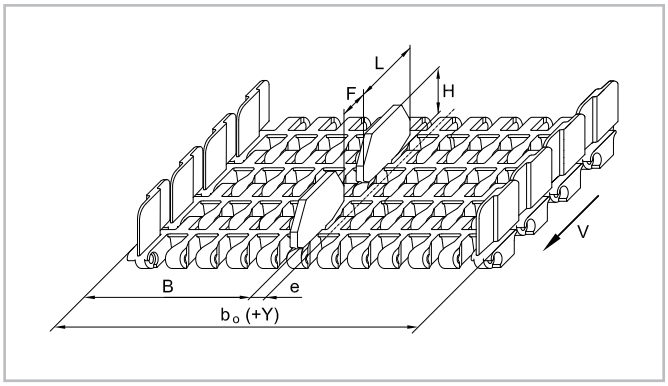
Middle flights only



Middle and edge flights



Side guards only (clip-on version)



Lane divider

Standard indents

The combination of flights and side guards is possible, but not recommended. With side guards hold-down modules must be used. On the return way the belt has to be supported either on the flights or between flights and side guards (gap only 15 mm *(0.6")* wide). Do not support or guide the belt on the hold-down tabs.

Indent	Left belt edge (running direction)	Right belt edge (running direction)
Middle flights only (no indent flights)	70 mm *(2.8")*	70 mm *(2.8")*
Middle flights and indent flights	25 mm *(1")*	25 mm *(1")*
Side guards	3.5 mm *(0.14")*	3.5 mm *(0.14")*

M2540 equipped with lane dividers

Min belt width		Standard width steps		Min edge distance		Offset to belt center		Distance lane divider		Height		Length	
B_0		**Y**		**B**		**e***		**F**		**H**		**L**	
mm	*inch*	mm	*inch*	mm	*inch*	mm	*inch*	mm	*inch*	mm	*inch*	mm	*inch*
400	*15.75*	50	*1.97*	191.7	*7.55*	0 or 8.3	*0 or 0.33*	25	*0.98*	25	*0.98*	36	*1.42*

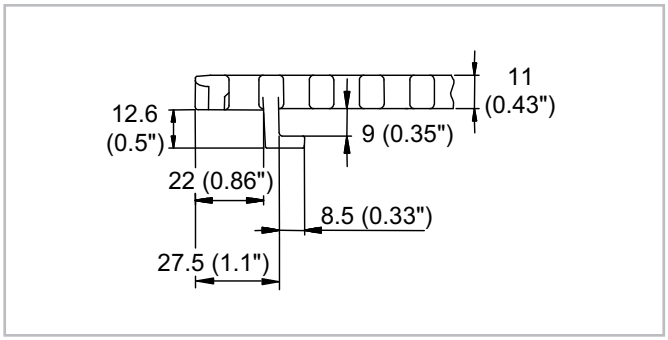
*If belt width b_0 / 16.66 (0.656) is an even number, the offset will be 8.3 mm *(0.33")* to left or right.
If the result is an odd number, there will be no offset for center lane dividers.
Do not place sprockets below lane dividers.
Consider belt travel direction v.

HabasitLINK® accessories – 1" pitch belting

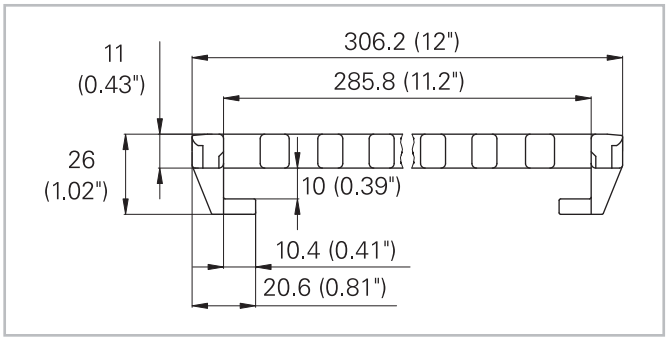
Hold-down tabs for M2540

To avoid the belt flipping over or slipping off the inner guide rail in the curve, hold-down guides are normally used. They are, however, not suitable if the conveyed goods are larger than the belt width or if side transfer over the belt edge is required. For these cases special modules equipped with hold-down tabs (hook modules) are available for both belt edges.

Hold-down edge modules
M2540Hxx* and M2540 MTW
Hold-down tabs are used for all applications where the products must be able to move over the belt edge. The use of hold-down modules is also mandatory when applying side guards.

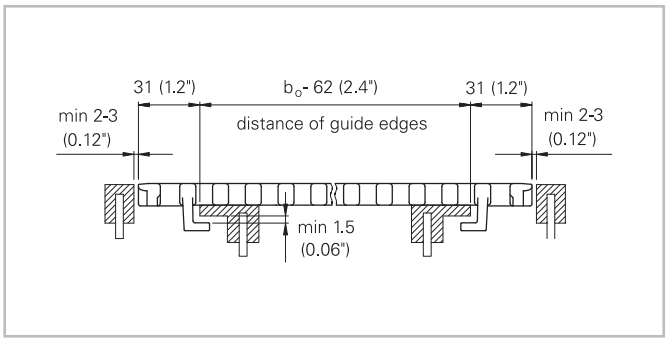


M2540Hxx

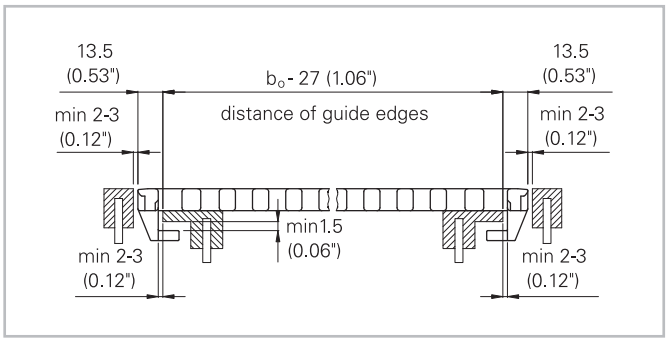


M2540 MTW

Installation
Make sure to keep clearance between guides, sprockets and hold-down tabs. They are meant to act as lift-off safety devices and not as guides! They will, if in contact with the guides, wear off quickly and may increase the tension in the belt.
For these reasons the conveyor needs to be designed with the appropriate accuracy.
Minimum belt width 150 mm *(6")* (2 sprockets) for use of hold-down edge modules and 250 mm for hold-down middle modules.



M2540Hxx



M2540 MTW

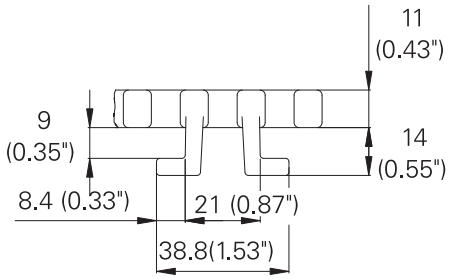
HabasitLINK® accessories – 1" pitch belting

Hold-down device for M2540

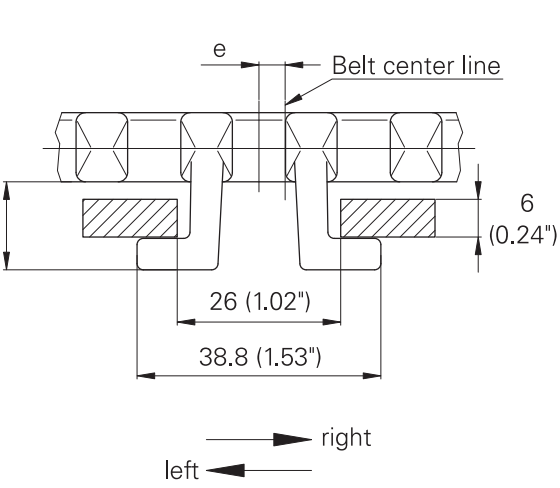
Hold-down middle module (M2540V00)

For elevators with back bending (Z-conveyors) hold-down devices are needed to keep the belt down when it is changing from horizontal to inclined direction. For wide belts (e.g. > 600 mm *(23.5")* wide) slider shoes on the belt edge are often not sufficient to keep it on the track. In such cases hold-down devices on the bottom side of the belt are used every second row to guide it through the back-bending curve. For belt width 300 mm + n * 100 mm the hook is placed in the belt center. For belt width 250 mm + n * 100 mm the hook has an offset of 25 mm left or right to the belt center. Please see table below.

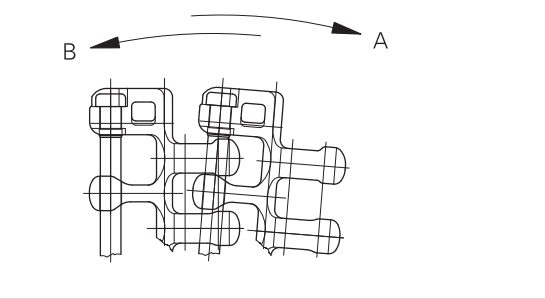
Belt width	Offset e	Running direction A	Running direction B
300	0	–	–
350	25	to the left	to the right
400	0	–	–
450	25	to the left	to the right
500	0	–	–
550	25	to the left	to the right
600	0	–	–
650	25	to the left	to the right
700	0	–	–
750	25	to the left	to the right
800	0	–	–
850	25	to the left	to the right
900	0	–	–



M2540V10



M2540V10



Sprocket sizes

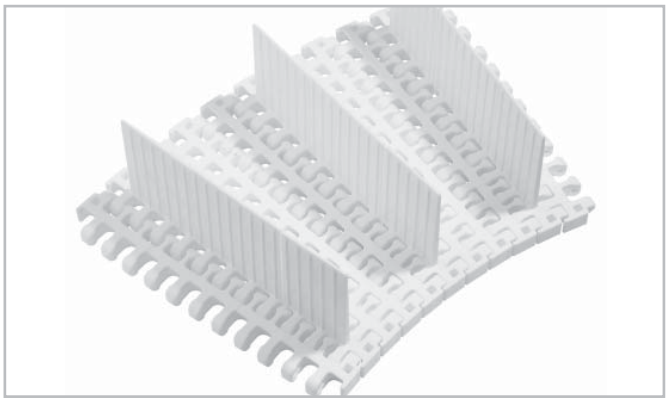
The combination sprocket/shaft size has to be selected in such a way to avoid collision of the hold-down tabs with the shaft. Minimum sprocket sizes: M25S1002Q, M25S1030R, M25S1240Q.

Note

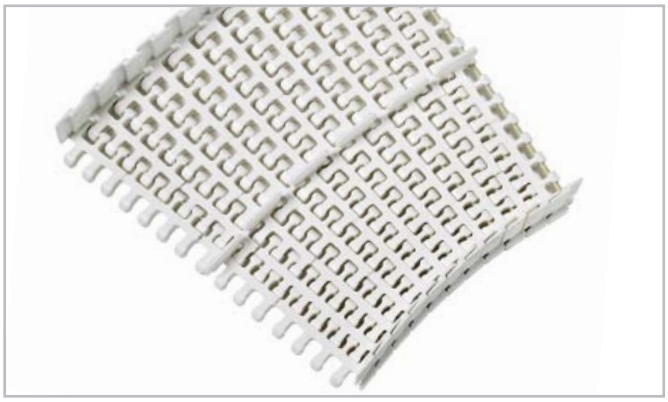
The hold-down device is not recommended to be used for radial guidance. They can be worn away quickly. Also, they should not be used to hang-up the belt on the return path.
Further design indications see Design Guide Radius Belts and Slider Support Systems.

* Available edge module length same as with standard edge module

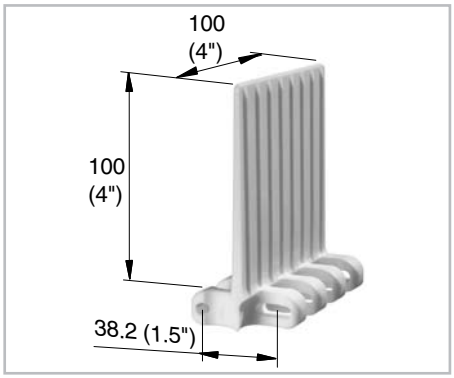
HabasitLINK® accessories – 1-1/2" pitch belting
Flights, side guards and lane dividers M3840



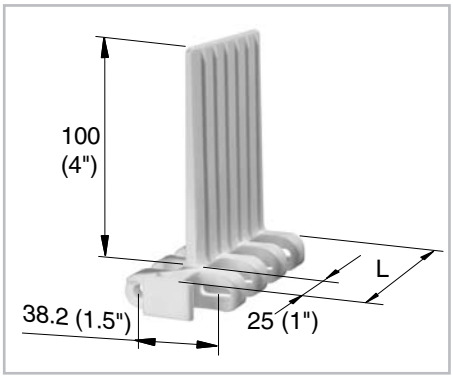
M3840 with flights
Flights are available in 100 mm *(4")* height, clip-on side guards in 50 mm *(2")* height, see illustrations below. Flights are available with ribs on one side for better



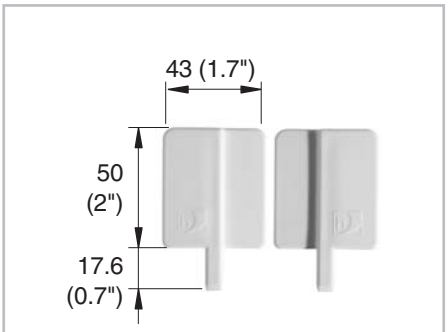
M3840 with side guards and lane dividers
release of wet or sticky food products (no-cling). They can be cut to specific width and height if required. The collapse factor remains unchanged.



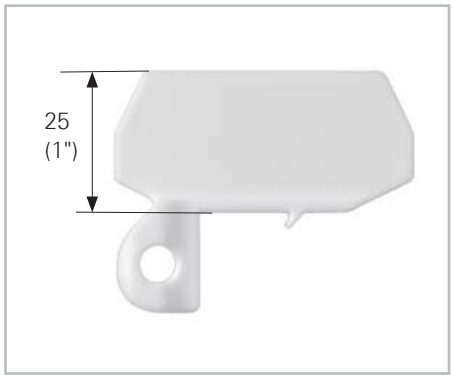
Middle flight
M3840F10



Edge flight
M384RF10 (right side)
M384LF10 (left side)
The total length L of the right and left type add to 200 mm *(8")*



Side guards
M384RG05 (right side)
M384LG05 (left side)
Left and right version can be put on the opposite edge (no functional problems) but they cannot be mixed.



Lane divider
M3840W02

Standard range of belt widths b_0 for belts with flights

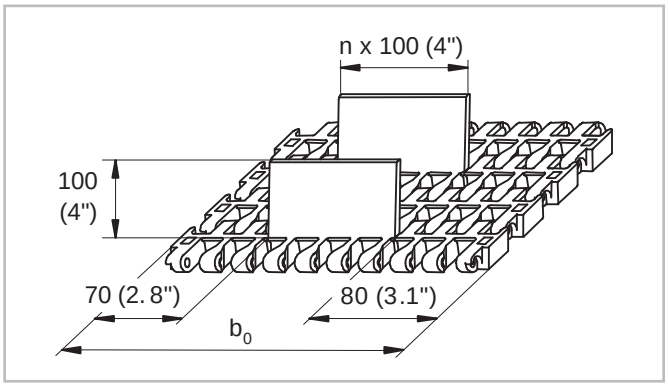
mm	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	etc.
inch (nom.)	*8*	*12*	*16*	*20*	*24*	*28*	*32*	*36*	*40*	*44*	*48*	*52*	*56*	*60*	*etc.*

Real belt widths are in most cases 0.1% to 0.3% smaller.

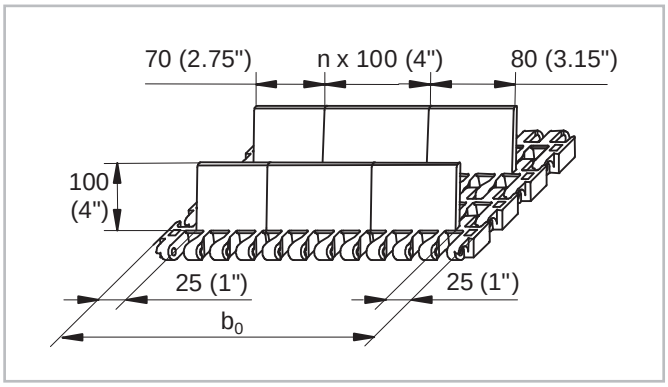
HabasitLINK® accessories – 1-1/2" pitch belting

Flights, side guards and lane dividers M3840

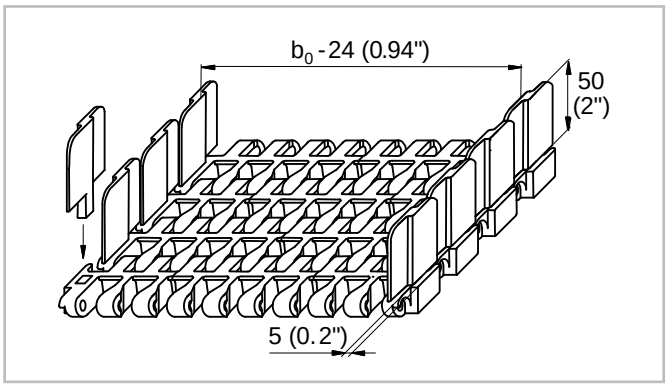
Assembly conceptions for M3840 radius belts, flights and side guards



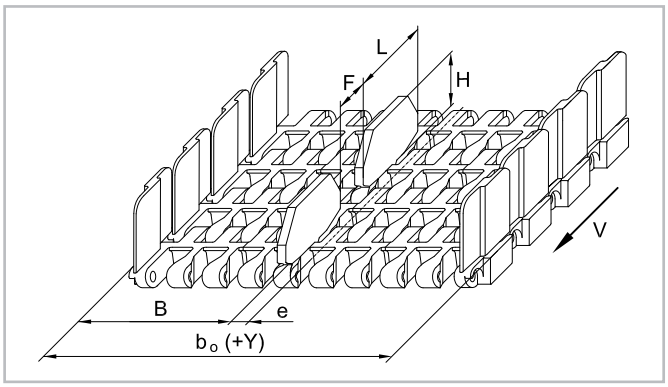
Middle flights only



Middle and edge flights



Side guards only (clip-on version)



Lane divider

Standard indents

The combination of flights and side guards is possible but not recommended. With side guards, hold-down modules must be used. On the return way the belt has to be supported either on the flights or between flights and side guards (gap only 15 mm *(0.6")* wide). Do not support or guide the belt on the hold-down tabs.

Indent	Left belt edge (running direction)	Right belt edge (running direction)
Middle flights only (no indent flights)	70 mm *(2.8")*	70 mm *(2.8")*
Middle flights and indent flights	25 mm *(1")*	25 mm *(1")*
Side guards	3.5 mm *(0.14")*	3.5 mm *(0.14")*

M2544 equipped with lane dividers

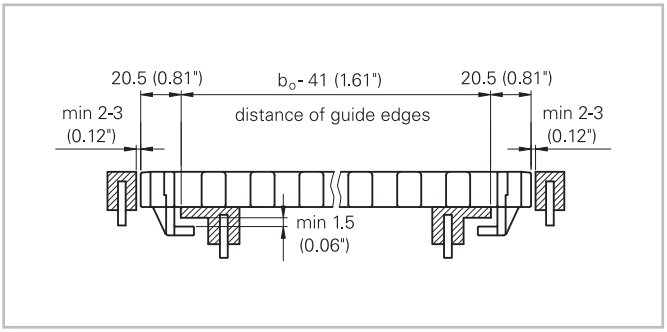
Min belt width		Standard width steps		Min edge distance		Offset to belt center		Distance lane divider		Height		Length	
B_0		**Y**		**B**		**e***		**F**		**H**		**L**	
mm	*inch*	mm	*inch*	mm	*inch*	mm	*inch*	mm	*inch*	mm	*inch*	mm	*inch*
400	*15.75*	50	*1.97*	191.7	*7.55*	0 or 8.3	*0 or 0.33*	16	*0.63*	25	*0.98*	34.8	*1.37*

*If belt width b_0 / 25 (0.98) is an even number, the offset will be 12.5 mm *(0.5")* to left or right.
If the result is an odd number, there will be no offset for center lane dividers.
Do not place sprockets below lane dividers.
Consider belt travel direction v.

HabasitLINK® accessories – 1-1/2" pitch belting

Hold-down tabs for M3840

To avoid the belt flipping over or slipping off the inner guide rail in the curve, hold-down guides are normally used. They are, however, not suitable if the conveyed goods are larger than the belt width or if side transfer over the belt edge is required. For these cases special modules equipped with hold-down tabs (hook modules) are available for both belt edges.

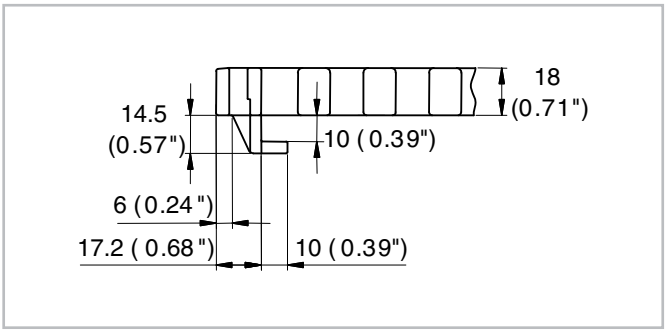


Hold-down modules (M3840H)

Hold-down tabs are used for all applications where the products must be able to move over the belt edge. The use of hold-down modules is also mandatory when applying side guards.

Installation

Make sure to keep clearance between guides and hold-down tabs. They are meant to act as lift-off safety devices and not as guides! They will, if in contact with the guides, wear off quickly and may increase the tension in the belt.
For these reasons the conveyor needs to be designed with the appropriate accuracy.
Minimum belt width 175 mm *(7")* (2 sprockets).



Sprocket sizes

The combination sprocket/shaft size has to be selected in such a way to avoid collision of the hold-down tabs with the shaft. Minimum sprocket sizes: M38S1240Q, M38S1260Q.

Note

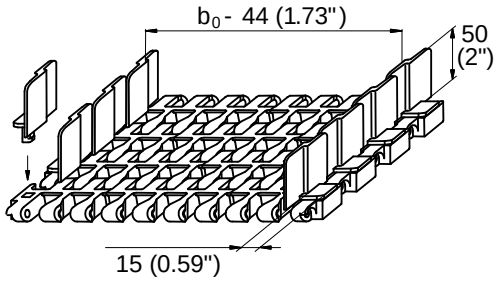
The hold-down tabs are not recommended to be used for radial guidance. They can be worn away too quickly. They should not be used to hang up the belt on its return way.
Further design indications see Design Guide Radius Belts and Slider Support Systems.

HabasitLINK® accessories – 1-1/2" pitch belting

Side guards M3843

Side guards are available in 50 mm height only.

The snap-on side guards for M3843 cannot be used in combination with snap-on hold-down tabs (hooks or side tabs). To avoid the belt in the curve to flip over or slip off the inner guide rail, hold-down guides can be applied.



M3843 with side guards

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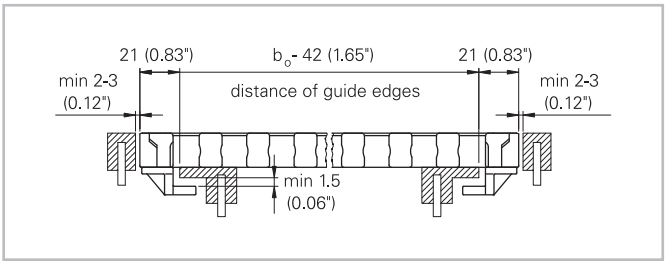
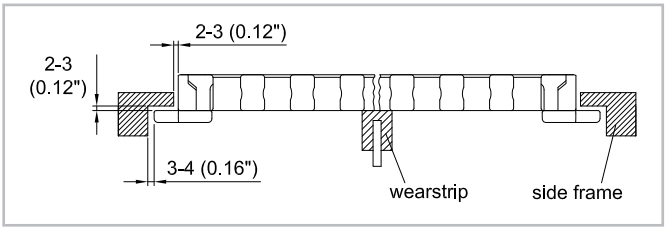
HabasitLINK® accessories – 1-1/2" pitch belting

Hold-down tabs and side tabs for M3843

To avoid the belt flipping over or slipping off the inner guide rail in the curve, hold-down guides are normally used. They are, however, not suitable if the conveyed goods are larger than the belt width or if side transfer over the belt edge is required. For these cases special modules equipped with hold-down tabs (hook modules) or side tabs are available for both belt edges.



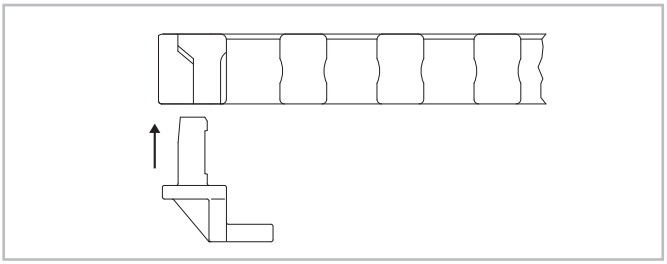


Hold-down modules (M3843H00)

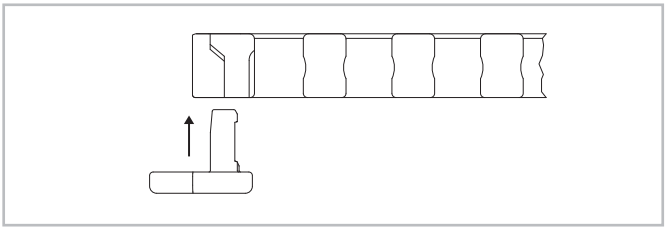
Hold-down tabs are used for all applications where the products must be able to move over the belt edge.

Side tabs (M3843V00)

Side tabs can be used instead of hold-down tabs for all applications where the products must be able to move over the belt edge.



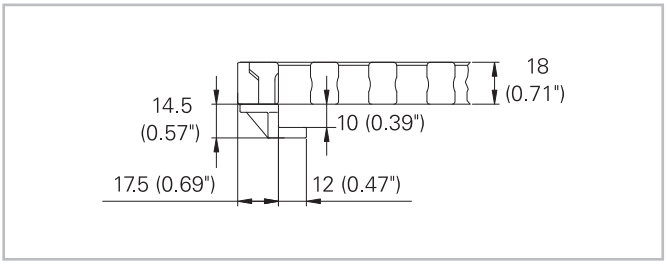
M3843H00



M3843V00

Installation

Both hold-down tabs and side tabs are snapped into the square hole provided at the outermost link of the edge modules. If ordered accordingly, M3843 belts are already furnished with these hold-down tabs when delivered.
When installing on the conveyor frame, make sure to keep clearance between guides and tabs. They are meant to act as lift-off safety devices and not as guides! They will, if in contact with the guides, wear off quickly and may increase the tension in the belt. For these reasons the conveyor needs to be designed with the appropriate accuracy.
Minimum belt width 175 mm *(7")* (2 sprockets).



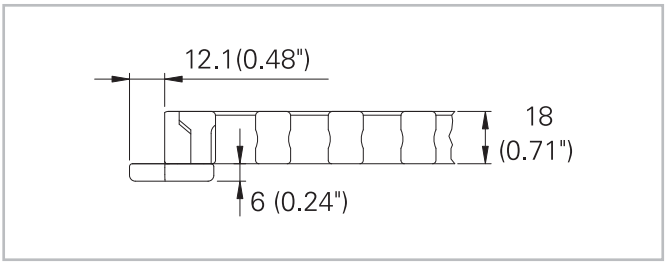
M3843H00

Sprocket sizes

The combination sprocket/shaft size has to be selected in such a way to avoid collision of the hold-down tabs with the shaft. Minimum sprocket sizes: M38S1240Q, M38S1260Q.

Note

The hold-down tabs are not recommended to be used for radial guidance. They can be worn away too quickly. Neither hold-down tabs nor side tabs should be used to hang up the belt on its return way.
Further design indications see Design Guide Radius Belts and Slider Support Systems.



M3843V00

HabasitLINK® accessories – 2" pitch belting
Flights and side guards M5000

HabasitLINK® modular belts are available with flights to convey products on inclined conveyors. The flight modules are injection-molded one-piece designs that when installed, become an integral part of the belt. Flight modules are available with ribs on one side (no-cling) for improved release of wet or sticky food products and can also be cut to nonstandard heights.

Note: All flights have open hinge design (USDA).

Code

25 mm = 02
50/53 mm = 05
75/78 mm = 07
100/103 mm = 10
145/150 mm = 15
[1] ribs on one side
[2] ribs on both sides
[3] without ribs

Flights M5000 (except M5060) with link increment 18.75 mm (0.74"); metric belt widths

	Flights straight		Flights straight		Flights corrugated		Flights bent (Scoop)		Bucket flights		Side guards	
Code flight side guard	M5010Fxx[1] (xx= height)		M5014Fxx[2] M5015Fxx[3] (xx= height)		M5033Fxx[3] (xx= height)		M5010Bxx[3] (xx= height)		M5010Yxx[3] (xx= height)		M5010Gxx M501RGxx (xx= height)	
height H lenght L	H	L	H	L	H	L	H	L	H	L	H	
mm *inch*	25 *1*	150 *6*	– –	– –	– –	– –	– –	– –	– –	– –	– –	– –
mm *inch*	50 *2*	150 *6*	– –	– –	– –	– –	– –	– –	– –	– –	53 *2*	– –
mm *inch*	75 *3*	150 *6*	– –	– –	– –	– –	75 *3*	150 *6*	– –	– –	78 *3*	– –
mm *inch*	100 *4*	150 *6*	100 *4*	150 *6*	100 *4*	150 *6*	100 *4*	150 *6*	100 *4*	150 *6*	103 *4*	– –
mm *inch*	150 *6*	150 *6*	– –	– –	– –	– –	150 *6*	150 *6*	– –	– –	– –	145 *6*
mm *inch*	100 *4*	225 *9*	– –	– –	– –	– –	– –	– –	– –	– –	– –	– –

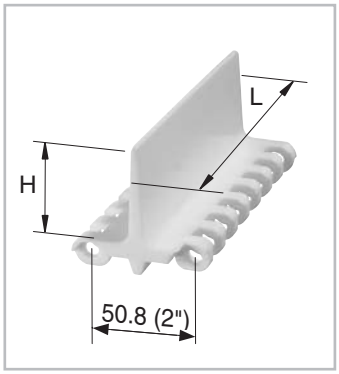
Flights M5060, M5064, M5067 with link increment 25.4 mm (1"); imperial belt widths

	Flights straight		Flights straight with indent			Flights straight with indents on both sides			Flights bent (Scoop)	
Code flight side guard	M5060Fxx[1] (xx= height)		M506RFxx/LFxx[1] (xx=height, L=left side, R= right side)			M506JFxx[3] (xx=height)			M5060Bxx[3] (xx= height)	
height H length L indent E	H	L	H	L	E	H	L	E	H	L
mm *inch*	50.8 *2*	152 *6*	50.8 *2*	152 *6*	31.7 *1.25*	150 *6*	609 *24*	33 *1.3*	– –	– –
mm *inch*	101.6 *4*	152 *6*	101.6 *4*	152 *6*	31.7 *1.25*	– –	– –	– –	101.6 *4*	150 *6*
mm *inch*	152 *6*	152 *6*	– –	– –	– –	– –	– –	– –	– –	– –
mm *inch*	152 *6*	609 *24*	– –	– –	– –	– –	– –	– –	– –	– –

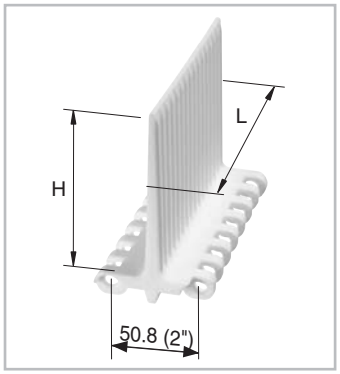
All flight and scoops can be cut to lower height (min 25 mm) for high-impact applications.

HabasitLINK® accessories – 2" pitch belting

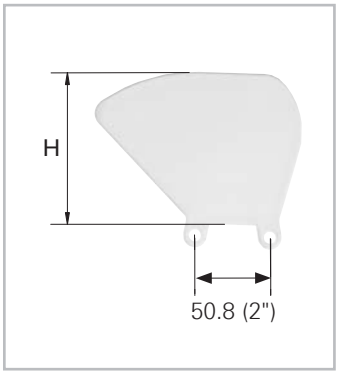
Flights and side guards M5000



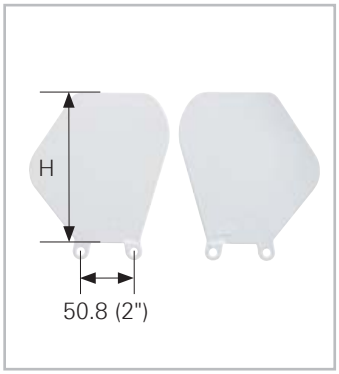
M5010Fxx smooth side



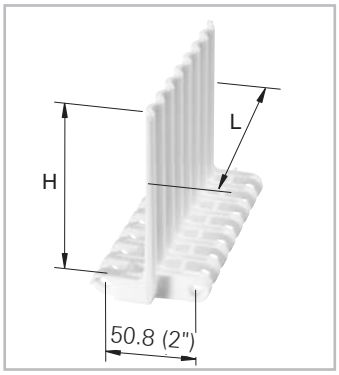
M5010Fxx “no-cling” side



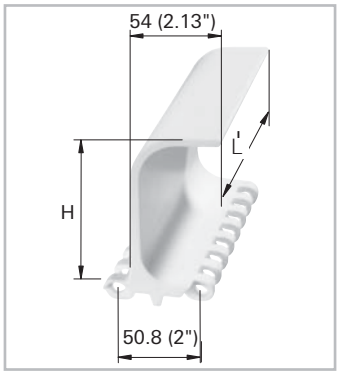
M5010Gxx



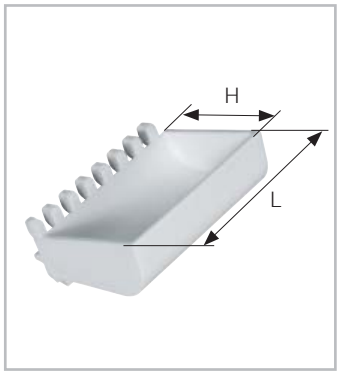
M501RGxx / LG



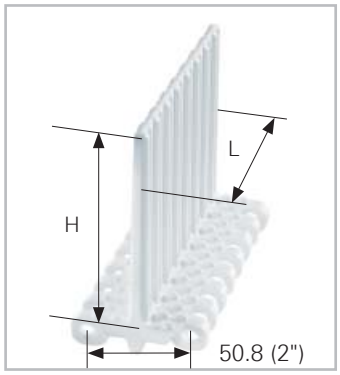
M5033F10



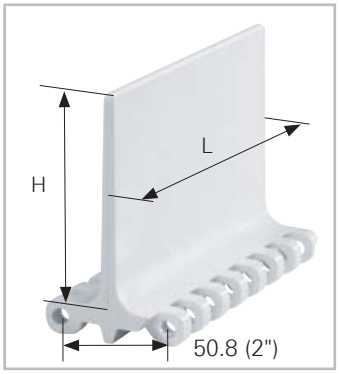
M5010Bxx



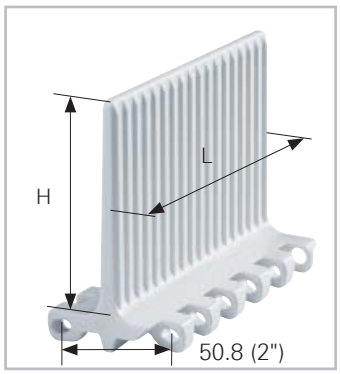
M5010Y10



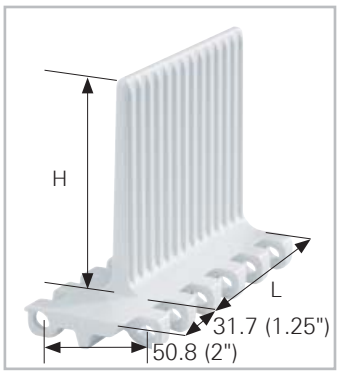
M5014F10



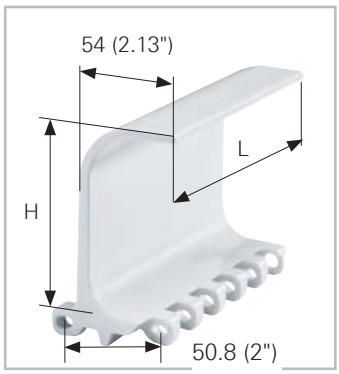
M5015F10



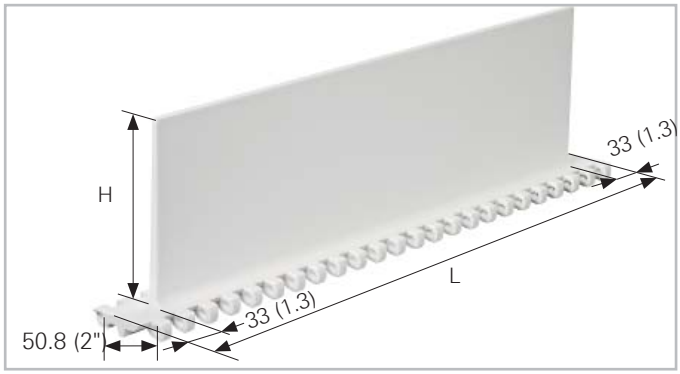
M5060Fxx



M506RFxx indent flight



M5060B10



M506JF15

HabasitLINK® accessories – 2" pitch belting
Flights and side guards M5000

Compatibility of 2" flights and belt types
In general all 2" flights may be used in combination with all 2" belts. For some combinations the nominal tensile strengths of the belt will be reduced to the strength of the flight.

Please see the table below.

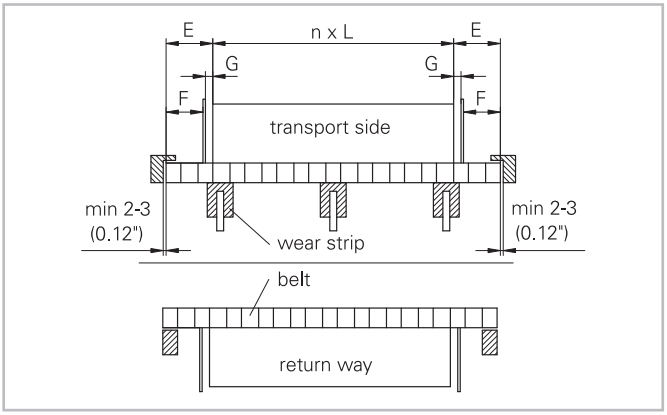
Flights and side guards M5000 Series (except M5060)

	Flight	M5010Fxx, M5010Bxx M5010Yxx, M5014F10			M5033Fxx			M5015Fxx			
	Belt material	PP	POM		PP	POM		PP		POM	
	Rod material	PP/POM	PP	PA	PP/POM	PP/POM	PA	PP	POM	PP	PA
Nominal tensile strength N/m *lb/ft*	M5010 M5011 M5013 M5014	18'000 *1'233*	22'000 *1'507*	30'000 *2'055*	18'000 *1'233*	22'000 *1'507*	30'000 *2'055*	18'000 *1'233*	18'000 *1'233*	22'000 *1'507*	30'000 *2'055*
	M5015							29'000 *1'986*	31'000 *2'123*	31'000 *2'123*	53'000 *3'630*
	M5020 M5023 M5032	18'000 *1'233*	22'000 *1'507*	30'000 *2'055*	26'000 *1'781*	30'000 *2'055*	35'000 *2'397*	29'000 *1'986*	31'000 *2'123*	31'000 *2'123*	53'000 *3'630*
	M5033	18'000 *1'233*						26'000 *1'781*	26'000 *1'781*	30'000 *2'055*	35'000 *2'397*
	M5131 M50xx Roller Top	not applicable									

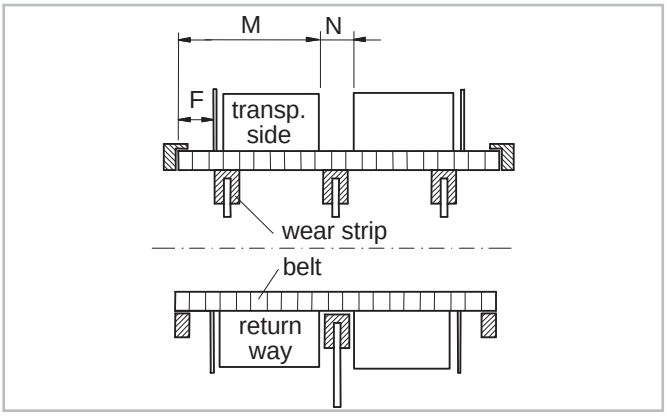
For M5060 belt types only M5060Fxx flight can be used. A combination with other flight series is not possible.

HabasitLINK® accessories – 2" pitch belting
Flights and side guards M5000

Indents (E)
The flight indent E is the distance between the edge of the belt and the edge of the flight, and F is the distance between belt edge and side guard. It is required for adequate support of the belt on its return way and hold-down during back-bending applications (elevators).
On short conveyors or with special support structure, the flights may also be applied over the full belt width (E = 0).



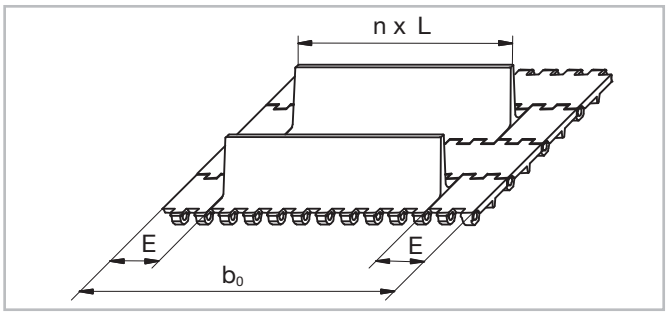
Notch (N)
The notch N is a gap in each row of flights, longitudinally aligned to allow the support of belts wider than 600 mm *(24")* on their return way or in back-bending applications. The notch width (N) and the distance (M) from the belt edge is a multiple of the link increment 18.75 mm *(0.74")*. or 25.4 mm *(1")* for M5060 series. For metric M5000 series the minimum notch width is 37.5 mm (1.48") and for M5060 50.8 mm *(2")*.

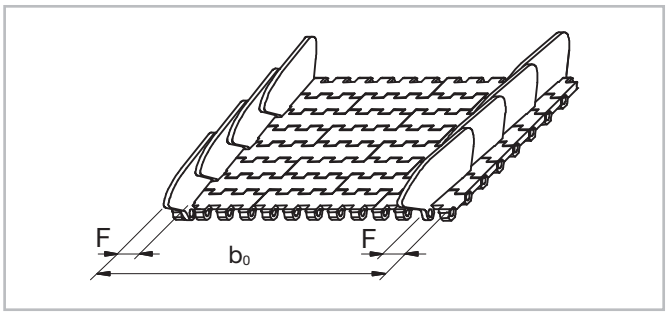


HabasitLINK® accessories – 2" pitch belting
Flights and side guards M5000

Installation of flights and side guards; indents
The side guards are usually installed with a gap (G) between the side guards and the flights. It is also possible to install the side guards with a minimum gap between flight and side guards of approx. 2 mm *(0.08")*. There is a certain risk for rubbing and abrasion between the flights and the side guards. The distance E_1 between the side guards and the hold-down and support shoes/wear strips should not be smaller than 5 mm *(0.2")*.

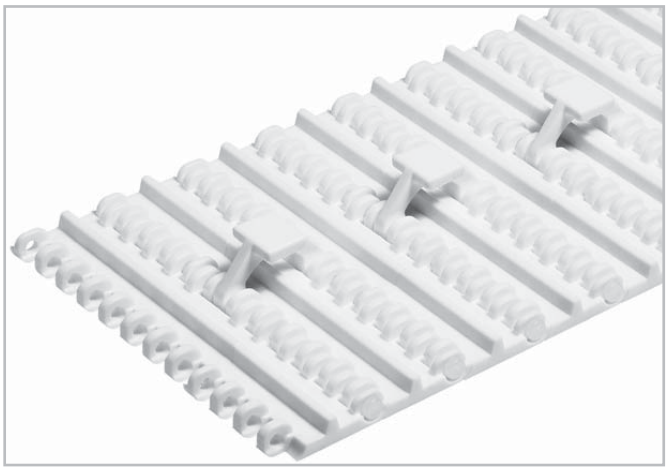
	Possible flight indents E									
	Flight only		Flight + side guard with gap (G ~ 8 mm *(0.31")*)				Flight + side guard without gap (G ~2 mm *(0.08")*)			
	E		E		F		E		F	
M5000 except M5060	mm	*inch*	mm	*inch*	mm	*inch*	mm	*inch*	mm	*inch*
Flight over full belt width	0	*0*	–	–	–	–	–	–	–	–
Module cutting necessary	37.5	*1.47*	37.5	*1.47*	18	*0.47*	37.5	*1.47*	28	*1.1*
Module cutting necessary	56	*2.2*	56	*2.2*	37	*1.47*	56	*2.2*	46	*1.83*
Standard, no module cutting	75	*3*	75	*3*	56	*2.2*	75	*3*	66	*2.6*
Module cutting necessary	112	*4.4*	112	*4.4*	93	*3.7*	112	*4.4*	103	*4.1*
Module cutting necessary	131	*5.2*	131	*5.2*	112	*4.4*	131	*5.2*	122	*4.8*
M5060										
Flight over full belt width	0	*0*	–	–	–	–	–	–	–	–
Module cutting necessary	50.8	*2*	50.8	*2*	34.2	*1.35*	–	–	–	–
Module cutting necessary	76.2	*3*	76.2	*3*	59.6	*2.35*	–	–	–	–
Standard, no module cutting	101.6	*4*	101.6	*4*	85	*3.35*	–	–	–	–
Module cutting necessary	127	*5*	127	*5*	110.4	*4.35*	–	–	–	–
Module cutting necessary	152.4	*6*	152.4	*6*	135.8	*5.35*	–	–	–	–
Flight with molded indent	33	*1.3*	–	–	–	–	–	–	–	–





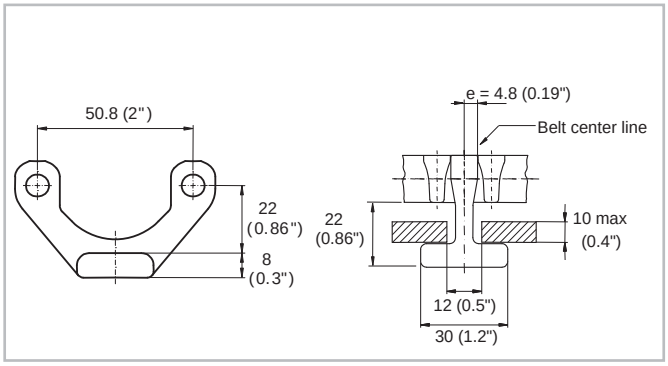
HabasitLINK® accessories – 2" pitch belting
Hold-down device for M5000

For elevators with back-bending (Z-conveyors) **hold-down devices** are used to keep the belt down when it is changing from horizontal to inclined direction. For wide belts (e.g. > 800 mm *(31.5")* wide) slider shoes on the belt edge are often not sufficient to keep it on the track. In such cases hold-down devices on the bottom side of the belt are used to guide it through the back-bending curve.



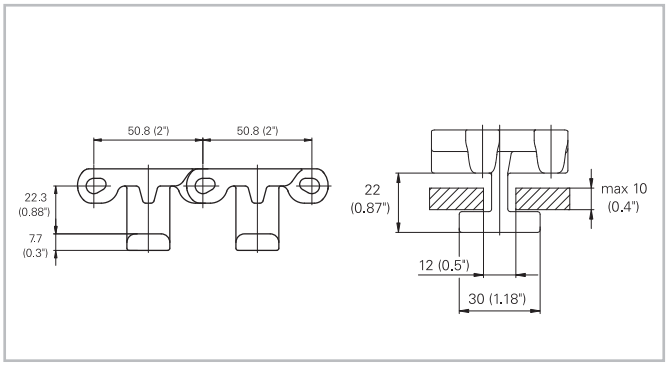
Compatibility: The hold-down device can be put into any M5000 HabasitLINK® modular belt. The modules are inserted into the prepared position, one module every second row. As long as link steps are respected, any position over the belt width is possible.

M5000V01
For a center positioning consider an offset "e" of 4.8 mm. Allow the necessary distance for the sprocket engagement!

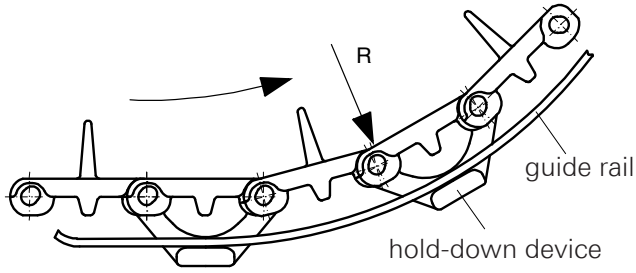


Back-bending radius R: min 250 mm *(10")*
Sprockets: minimum size M50S0840Q (8 teeth) and M50S1060Q (10 teeth)
Standard materials: POM white, other materials possible on request
Compatible belts series: M5010, M5020, M5030

M5060V05
The tab module M5060V05 is designed as 2" mid module to be brick-layed as a regular module. The length of two link indents give stability to the tab. This module cannot be used as edge module.



Back-bending radius R: min 250 mm *(10")*
Sprockets: minimum size 8 teeth (M50S08)
Standard materials: POM white, other materials possible on request
Compatible belts series: only M5060



It is very important that the guide rail is very smooth, without joining. It is also important that enough clearance is provided to allow the belt to expand or shrink.

HabasitLINK® accessories – 2" pitch belting
Combs for M5131

Long-tooth comb M5131C15

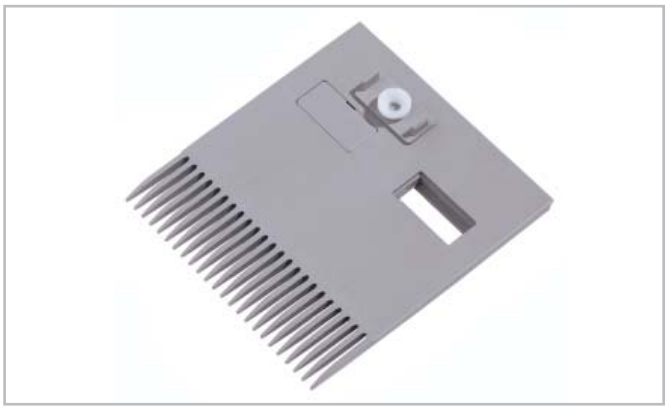
Installation data

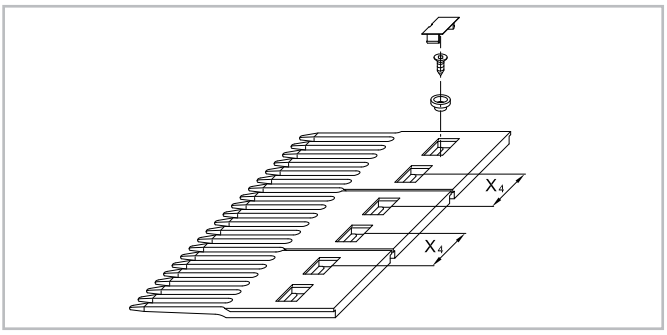
Dimensions	mm	inch
W	151	5.9
W_L	190	7.5
X_1	76	3.0
X_2	50	2.0
X_3	100 – 110	3.9 – 4.3
X_4	76	3.0
X_5	90	3.5
K	12	0.5
Y	$d_p/2+4$	$d_p/2+0.2$

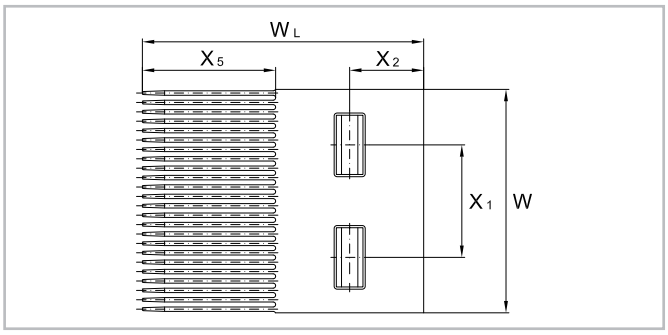
Short-tooth comb M5131C16

Installation data

Dimensions	mm	inch
W	151	5.9
W_L	165	6.5
X_1	76	3.0
X_2	50	2.0
X_3	100	3.9
X_4	76	3.0
X_5	40	1.6
K	12	0.5
Y	$d_p/2+4$	$d_p/2+0.2$



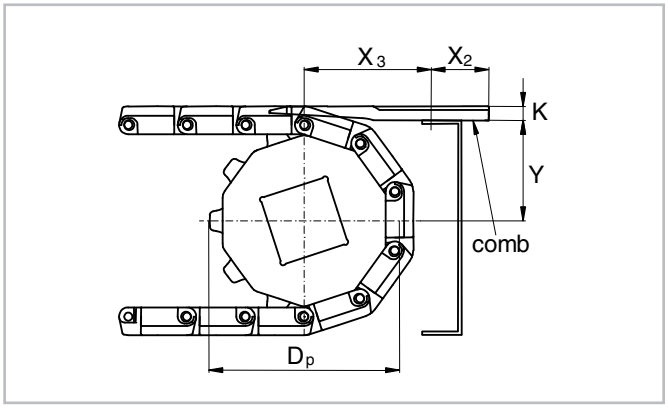




Material data

Material		Acetal dry (wet)
Temperature range	°C *°F*	-40 – 90 (-40 – 60) *-40 –195 (-40 –140)*
Color		grey

Other materials on request.

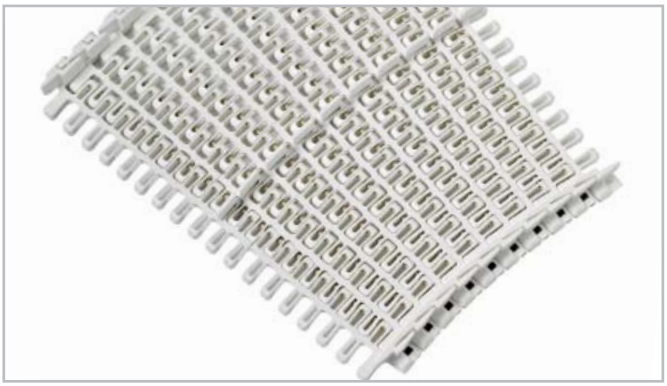


Note

The combs are fixed using a special distance bushing that allows lateral movement. This allows the combs to adapt their position to the lateral displacement of the belt, caused by thermal expansion. For belt widths up to 300 mm *(12")*, the plates can be firmly fixed (2 plates max). The fixation of the comb support should be adjustable to allow fine-tuning.

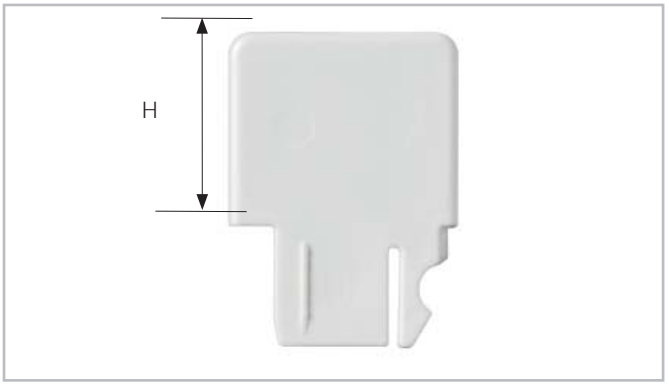
HabasitLINK® accessories – 2" pitch belting
Side guards and lane dividers M5200

Side guards and lane dividers are used to separate products on one belt. Both modules are clip-on versions.



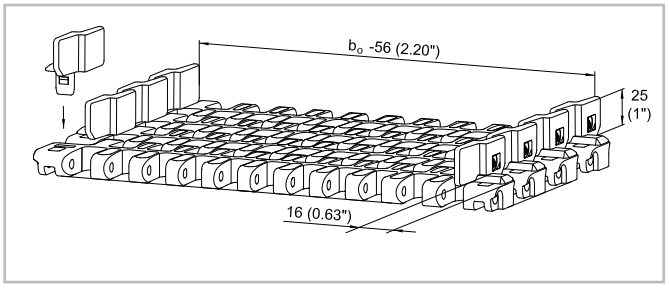
M5290 with side guards and lane dividers

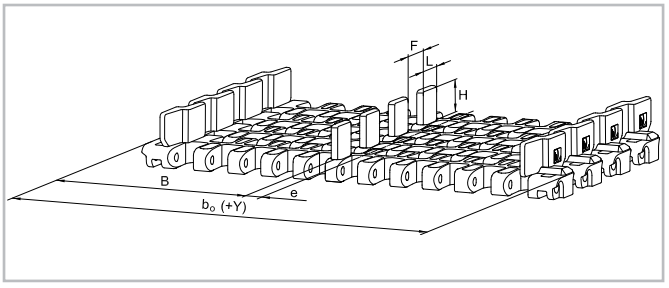
Side guard
M5290G02



Lane divider
M5290W02

Assembly conceptions for M5290/93 radius belts, side guards and lane dividers





M5290/93 equipped with lane dividers

Min. belt width		Standard width steps		Min. edge distance		Offset to belt center		Distance lane divider		Height		Length	
B_0		Y		B		e*		F		H		L	
mm	*inch*	mm	*inch*	mm	*inch*	mm	*inch*	mm	*inch*	mm	*inch*	mm	*inch*
508	*20*	25.4	*1.0*	127	*5.0*	0 or 12.7	*0 or 0.5*	22	*0.87*	25	*0.98*	29	*1.14*

*If belt width b_0 / 25.4 (1) is an even number, the offset will be 12.7 mm *(0.5")* to left or right.
If the result is an odd number, there will be no offset for center lane dividers.
Do not place sprockets below lane dividers.

HabasitLINK® accessories – 2-1/2" pitch belting
Flights M6300

HabasitLINK® modular belts are available with flights to convey products on inclined conveyors. The flight modules are injection-molded one-piece designs that, when installed, become an integral part of the belt. Flight modules for this belt series are available with flat surface only (without ribs).

Code: xx = height of flight:
50 mm = 05
100 mm = 10
150 mm = 15

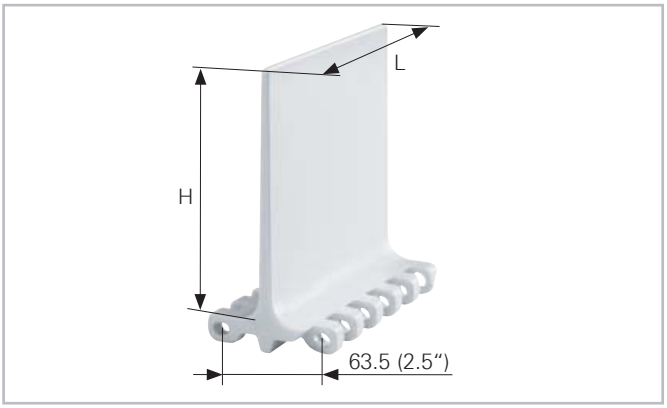
Note: All flights have open hinge design (USDA).

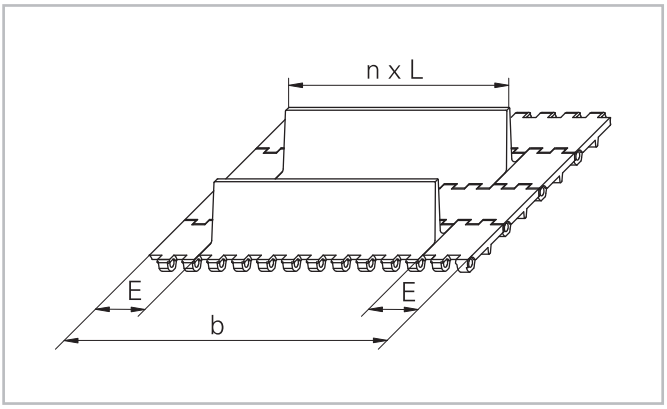
	Flights straight	
Code flight side guard	**M6360Fxx** (xx= height)	
	height H	length L
mm *inch*	50.8 *2*	152 *6*
mm *inch*	101 *4*	101 *4*
mm *inch*	152 *6*	152 *6*

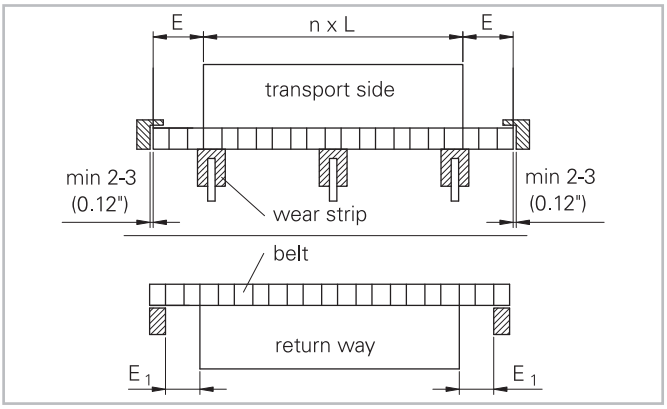
All flights can be cut to lower height (min 25 mm) for high-impact applications.

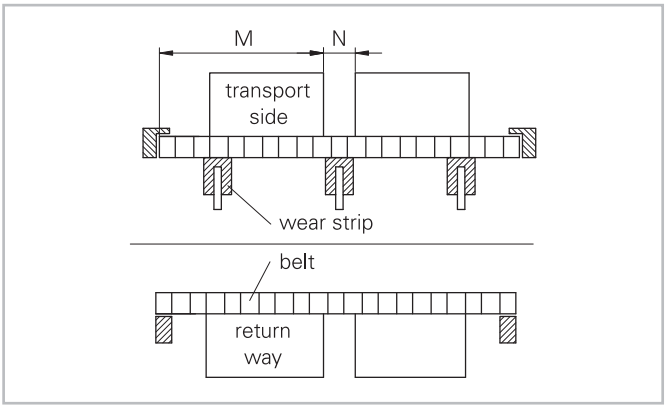
Indents (E)
The flight indent E is the distance between the edge of the belt and the edge of the flight. It is required for adequate support of the belt on its return way and hold-down during back-bending applications (elevators).
On short conveyors or with special support structure, the flights may also be applied over the full belt width (E = 0).
Indents are possible in widths as multiples of 1" (25.4 mm), min 2" (50.8 mm)

Notch (N)
The notch N is a gap in each row of flights, longitudinally aligned to allow the support of belts wider than 600 mm *(24")* on their return way or in back-bending applications. The notch width (N) and the distance (M) from the belt edge is a multiple of the link increment 25.4 mm *(1")*. For M6300 series the minimum notch width is 50.8 mm *(2")*.









HabasitLINK® accessories – 2-1/2“ pitch belting

Skid guard module and stopper module M6400

M6400 skid guard modules have been developed for longitudinal skid conveying applications to avoid move off from 100 mm wide belts.
The admissible tensile strength is limited to 60,000 N/m (*4,111 lbf/ft*).

Skid guard module
M6420XB1

Tire stopper modules are developed to keep car tires on a defined position on a belt. The modules are an integral part of the entire belt.
The admissible tensile strength is limited to 60,000 N/m (*4,111 lbf/ft*).

Stopper module
M6420S04

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