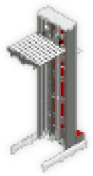
Vertical Conveyor Systems

Introduction

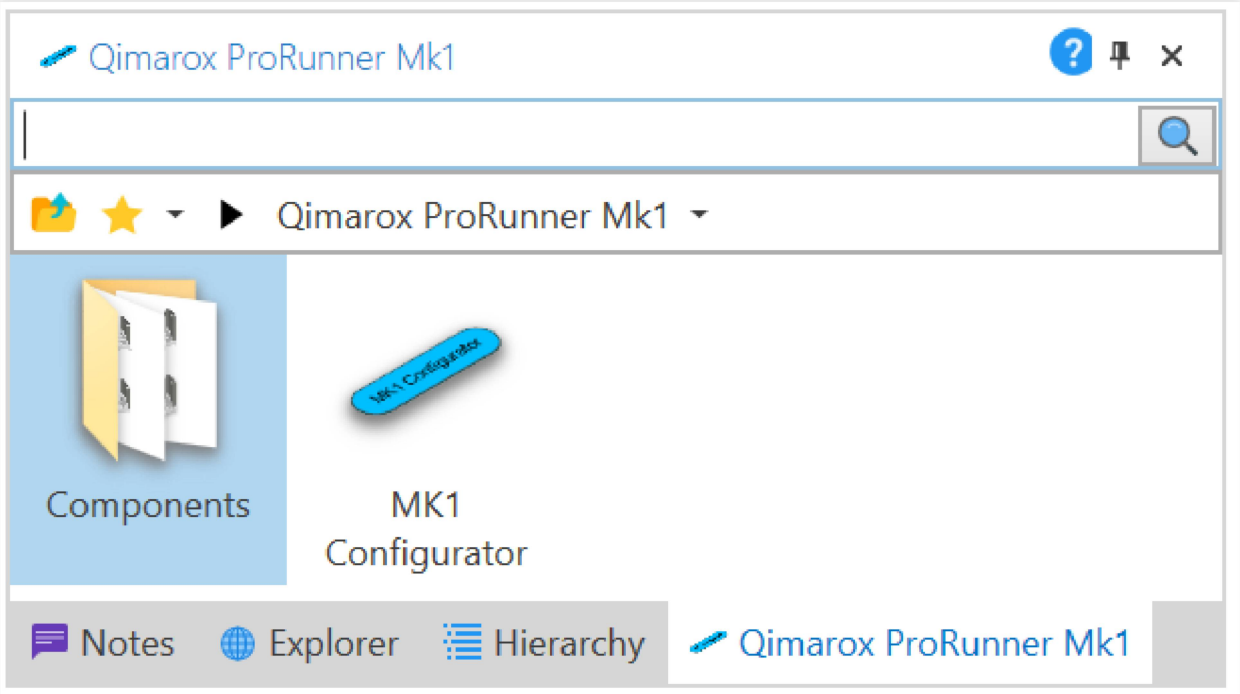
The **Vertical Conveyor Systems** catalog currently comprises:

- Qimarox ProRunner Mk1
- Qimarox ProRunner Mk9
- Qimarox ProRunner Mk10
- Qimarox ProRunner Mk5
- Qimarox ProRunner Mk5 XL

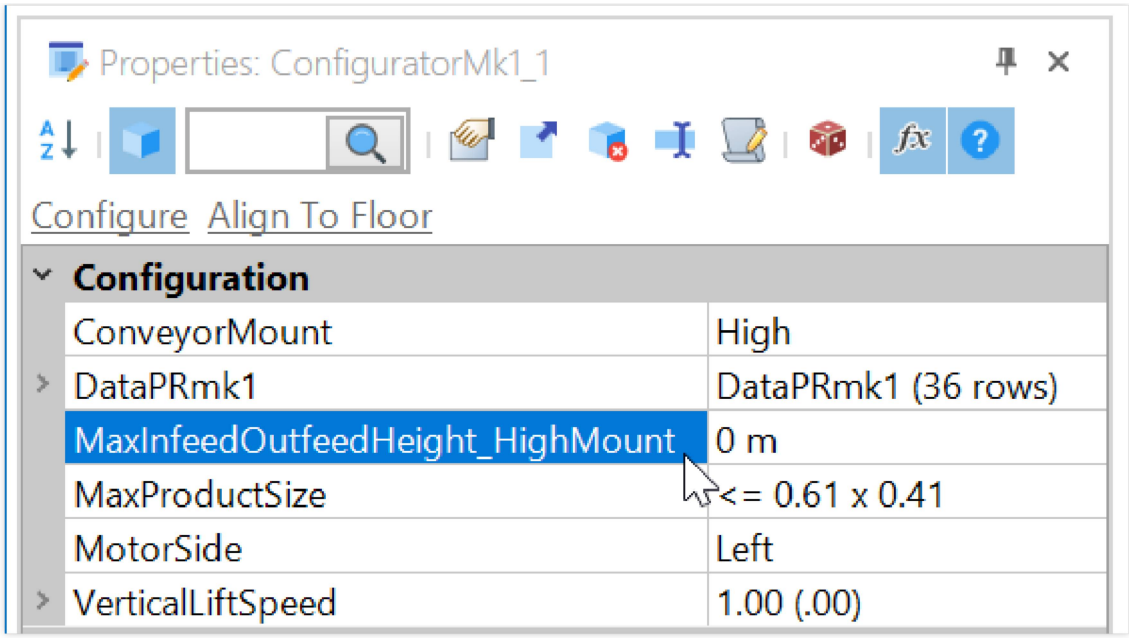


Qimarox ProRunner Mk1

Navigate to the following sub-folder:



...and drag the **MK1 Configurator** into the model, to bring up the following properties:



Here is an explanation of the properties:

Property Name	Value Type	Purpose
ConveyorMount	Enumeration	"High" or "Low". Mount position of Forks.
DataPRmk1	Table	Set of available configurations.
MaxInfeedOutfeedHeight_HighMount	Distance	Applicable when **ConveyorMount** is "High". Highest infeed or outfeed height to be catered for.
MaxInfeedOutfeedHeight_LowMount	Distance	Applicable when **ConveyorMount** is "Low". Highest infeed or outfeed height to be catered for.
MaxProductSize	Enumeration	Choice of four pallet dimensions. Governs size of conveyor lift.
MotorSide	Enumeration	"Left" or "Right". Position of motor on top section.
VerticalLiftSpeed	SpeedProfile	Vertical speed of lift (including Acc & Dec).

Here is a snippet of the first ten configurations:

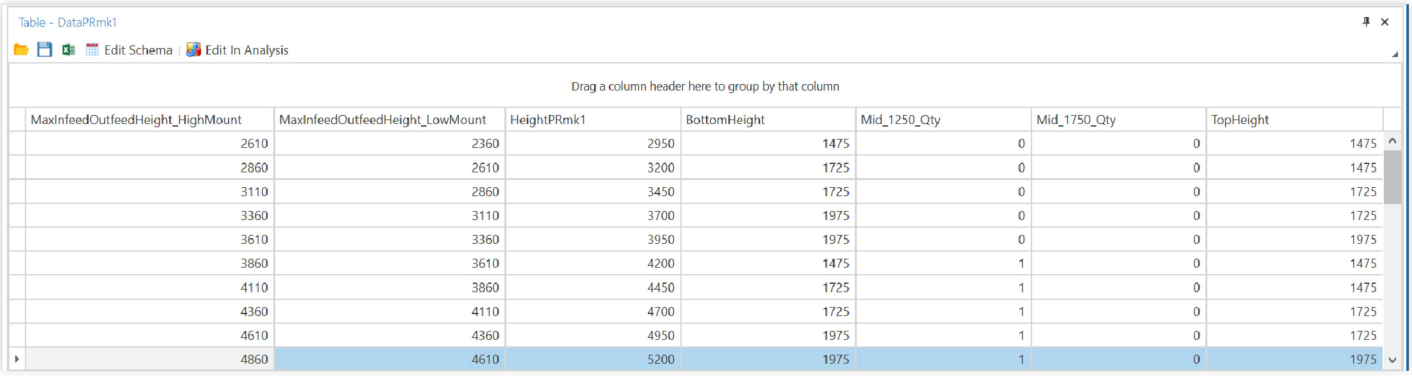


Table - DataPRmk1

Edit Schema | Edit In Analysis

Drag a column header here to group by that column

MaxInfeedOutfeedHeight_HighMount	MaxInfeedOutfeedHeight_LowMount	HeightPRmk1	BottomHeight	Mid_1250_Qty	Mid_1750_Qty	TopHeight
2610	2360	2950	1475	0	0	1475
2860	2610	3200	1725	0	0	1475
3110	2860	3450	1725	0	0	1725
3360	3110	3700	1975	0	0	1725
3610	3360	3950	1975	0	0	1975
3860	3610	4200	1475	1	0	1475
4110	3860	4450	1725	1	0	1475
4360	4110	4700	1725	1	0	1725
4610	4360	4950	1975	1	0	1725
4860	4610	5200	1975	1	0	1975

Note

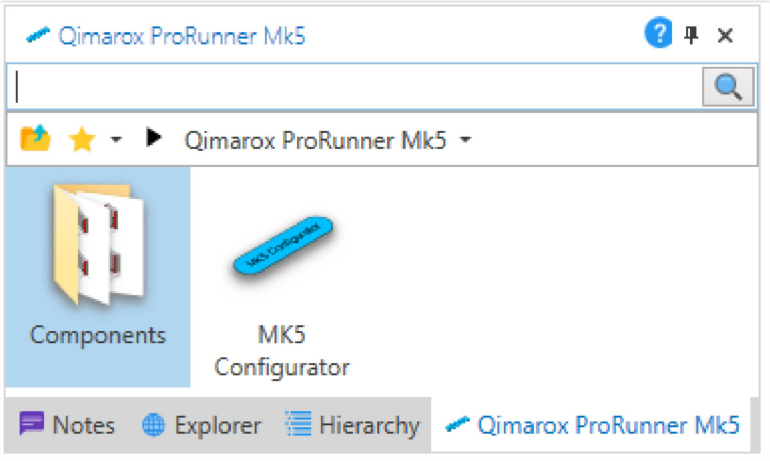
Setting the highest infeed / outfeed height to 0m or 100m, will create the shortest and tallest configuration, respectively.

Tip

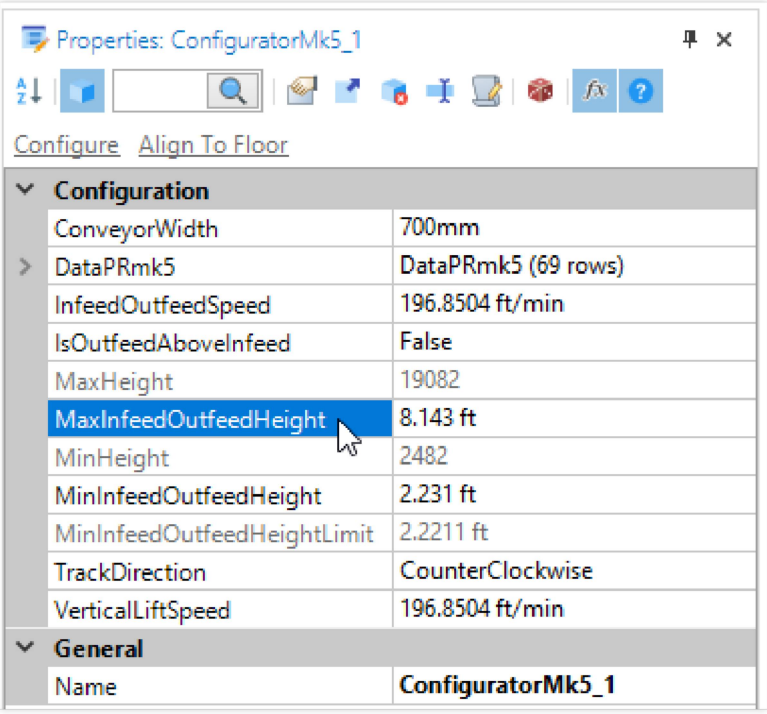
Once you have all your settings finalized, run the **Configure** custom function!

Qimarox ProRunner Mk5

Navigate to the following sub-folder:



...and drag the **MK5 Configurator** into the model, to bring up the following properties:



Here is an explanation of the properties:

Property Name	Value Type	Purpose
ConveyorWidth	Enumeration	"500mm" or "700mm". Width of Load Handlers.
DataPRmk5	Table	Set of available configurations.
InfeedOutfeedSpeed	SpeedProperty	Speed of Load Handlers.
IsOutfeedAboveInfeed	Boolean	This property goes hand-in-hand with the **TrackDirection** property to construct the proper configuration.
MaxHeight	Integer	This is the absolute maximum height (in **mm**) of the overall tower, read in from the table data.
MaxInfeedOutfeedHeight	Distance	Highest infeed or outfeed height to be catered for. Must be set < **MaxHeight**.
MinHeight	DistanceProperty	This is the absolute minimum height (in **mm**) of the overall tower, read in from the table data.
MinInfeedOutfeedHeight	Distance	Lowest infeed or outfeed height to be catered for. Must be set >= **MinInfeedOutfeedHeightLimit**.
MinInfeedOutfeedHeightLimit	Distance	This based on the height of the lowest part of the track loop.
TrackDirection	Enumeration	"Clockwise" or "CounterClockwise". Direction of track loop.
VerticalLiftSpeed	SpeedProfile	Vertical speed of lift (including Acc & Dec).

Here is a snippet of the first ten configurations:

Table - DataPRmk5

Edit Schema | Edit In Analysis

Drag a column header here to group by that column

MaxInfeedOutfeedHeight	HeightPRmk5	BottomHeight	Mid_1250_Qty	Mid_1950_Qty	TopHeight
2482	2950	1475	0	0	1475
2732	3200	1725	0	0	1475
2982	3450	1725	0	0	1725
3232	3700	1975	0	0	1725
3482	3950	1975	0	0	1975
3732	4200	1475	1	0	1475
3982	4450	1725	1	0	1475
4232	4700	1725	1	0	1725
4482	4950	1975	1	0	1725
4732	5200	1975	1	0	1975

Note

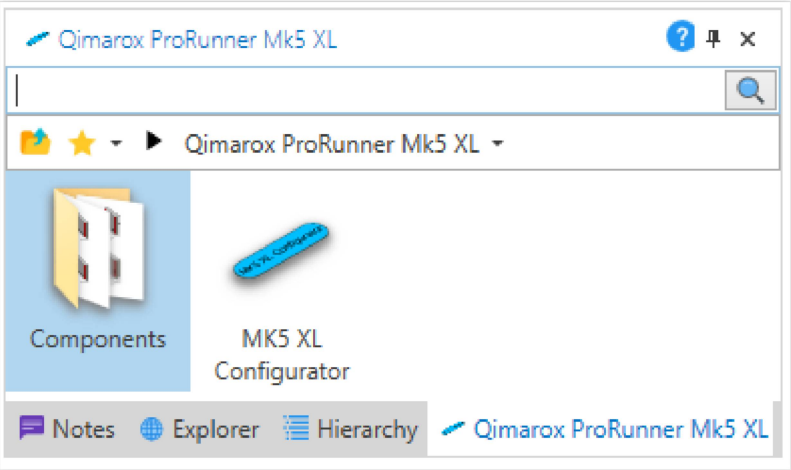
Setting the highest infeed / outfeed height to 0m or 100m, will create the shortest and tallest configuration, respectively.

Tip

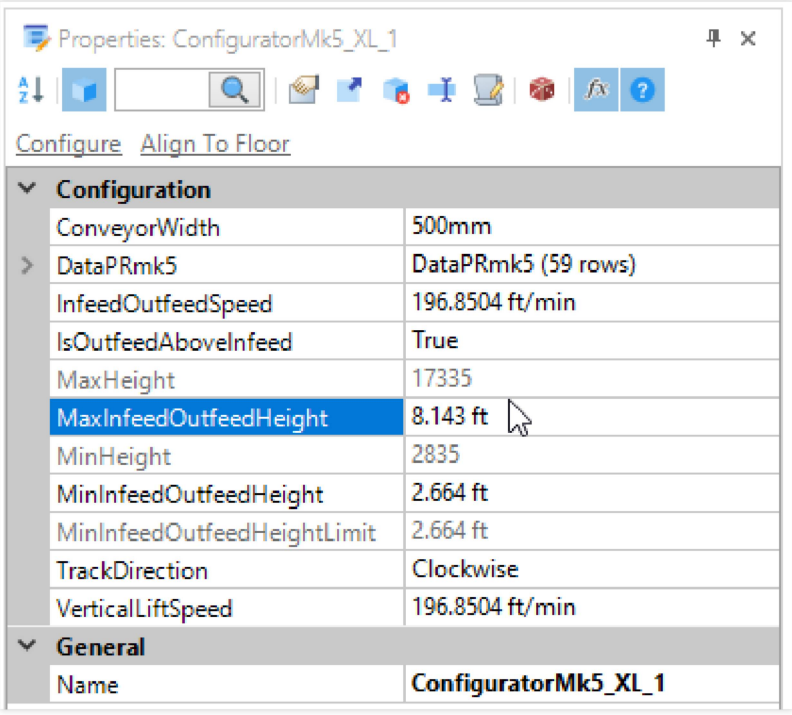
Once you have all your settings finalized, run the **Configure** custom function!

Qimarox ProRunner Mk5 XL

Navigate to the following sub-folder:



...and drag the **MK5 XL Configurator** into the model, to bring up the following properties:



Here is an explanation of the properties:

Property Name	Value Type	Purpose
ConveyorWidth	Enumeration	"500mm" or "700mm". Width of Load Handlers.
DataPRmk5	Table	Set of available configurations.
InfeedOutfeedSpeed	SpeedProperty	Speed of Load Handlers.

Property Name	Value Type	Purpose
IsOutfeedAboveInfeed	Boolean	This property goes hand-in-hand with the **TrackDirection** property to construct the proper configuration.
MaxHeight	Integer	This is the absolute maximum height (in **mm**) of the overall tower, read in from the table data.
MaxInfeedOutfeedHeight	Distance	Highest infeed or outfeed height to be catered for. Must be set < **MaxHeight**.
MinHeight	DistanceProperty	This is the absolute minimum height (in **mm**) of the overall tower, read in from the table data.
MinInfeedOutfeedHeight	Distance	Lowest infeed or outfeed height to be catered for. Must be set >= **MinInfeedOutfeedHeightLimit**.
MinInfeedOutfeedHeightLimit	Distance	This based on the height of the lowest part of the track loop.
TrackDirection	Enumeration	"Clockwise" or "CounterClockwise". Direction of track loop.
VerticalLiftSpeed	SpeedProfile	Vertical speed of lift (including Acc & Dec).

Here is a snippet of the first ten configurations:

Table - DataPRmk5

Edit Schema | Edit In Analysis

Drag a column header here to group by that column

MaxInfeedOutfeedHeight	HeightPRmk5XL	BottomHeight	Mid_750_Qty	Mid_1250_Qty	Mid_1750_Qty	TopHeight
2835	3450	1725	0	0	0	1725
3085	3700	1975	0	0	0	1725
3335	3950	1975	0	0	0	1975
3585	4200	1725	1	0	0	1725
3835	4450	1975	1	0	0	1725
4085	4700	1725	0	1	0	1725
4335	4950	1975	0	1	0	1725
4585	5200	1725	0	0	1	1725
4835	5450	1975	0	0	1	1725
5085	5700	1975	0	0	1	1975

Note

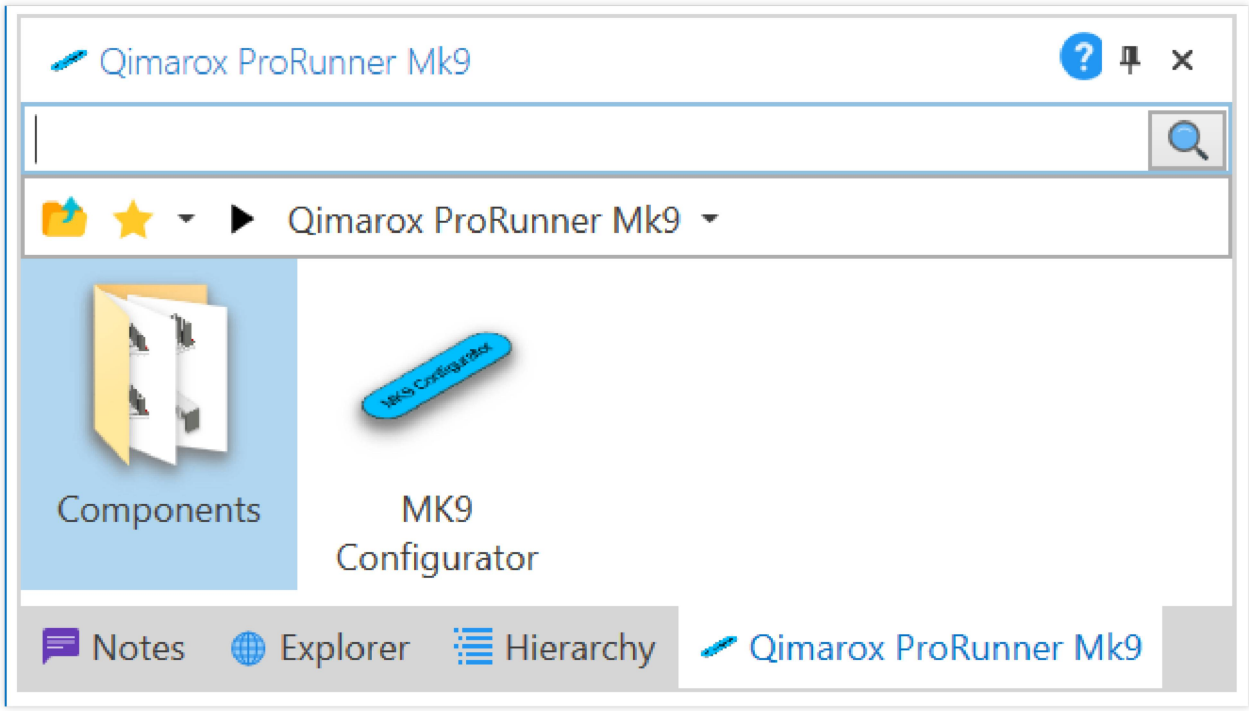
Setting the highest infeed / outfeed height to 0m or 100m, will create the shortest and tallest configuration, respectively.

Tip

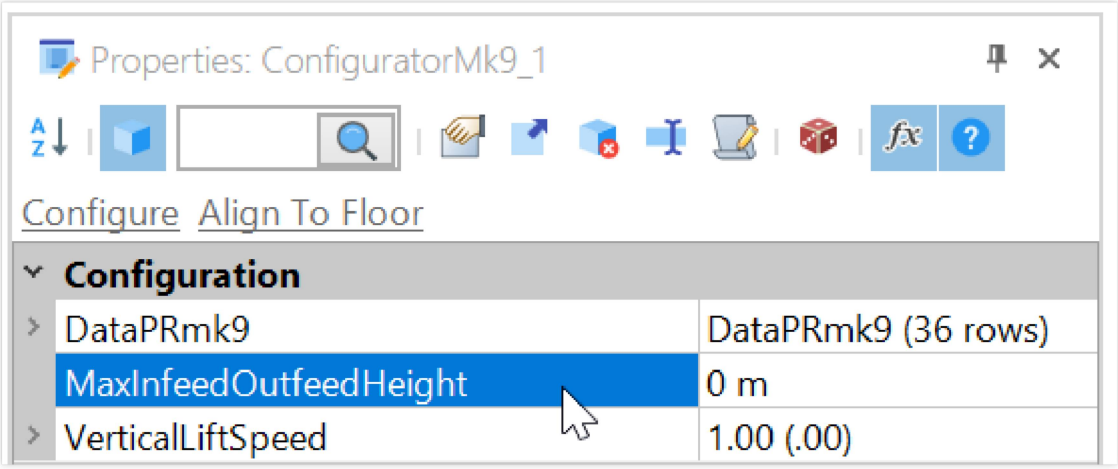
Once you have all your settings finalized, run the **Configure** custom function!

Qimarox ProRunner Mk9

Navigate to the following sub-folder:



...and drag the **MK9 Configurator** into the model, to bring up the following properties:



Here is an explanation of the properties:

Property Name	Value Type	Purpose
DataPRmk9	Table	Set of available configurations.
MaxInfeedOutfeedHeight	Distance	Highest infeed or outfeed height to be catered for.
VerticalLiftSpeed	SpeedProfile	Vertical speed of lift (including Acc & Dec).

Here is a snippet of the first ten configurations:

Table - DataPRmk9

Edit Schema | Edit In Analysis

Drag a column header here to group by that column

MaxInfeedOutfeedHeight	HeightPRmk9	BottomHeight	Mid_1250_Qty	Mid_1750_Qty	TopHeight
2124	2200	1475	0	0	725
2374	2450	1725	0	0	725
2624	2700	1975	0	0	725
2874	2950	1475	0	0	1475
3124	3200	1725	0	0	1475
3374	3450	1725	0	0	1725
3624	3700	1975	0	0	1725
3874	3950	1975	0	0	1975
4124	4200	1475	1	0	1475
4374	4450	1725	1	0	1475

Note

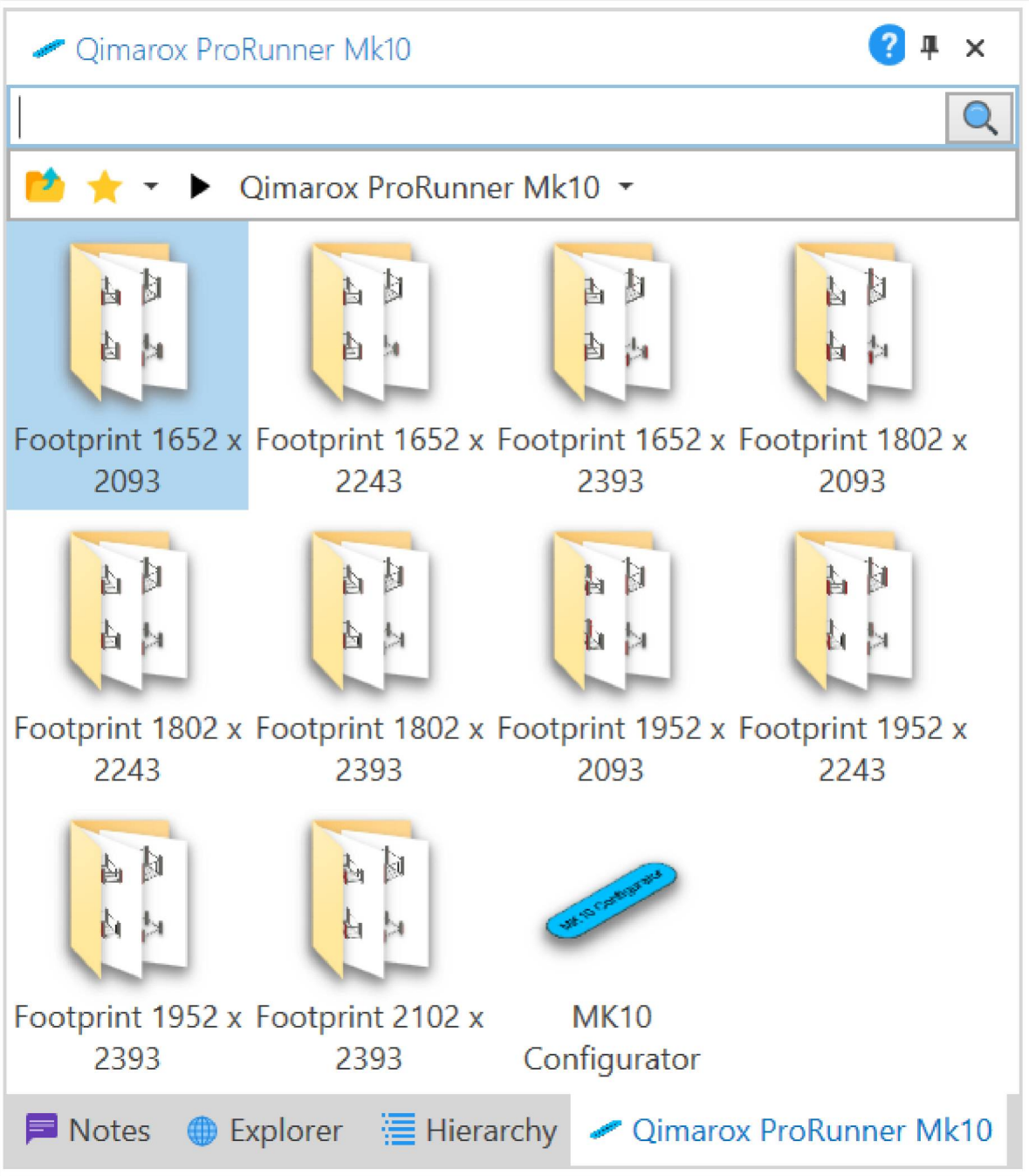
Setting the highest infeed / outfeed height to 0m or 100m, will create the shortest and tallest configuration, respectively.

Tip

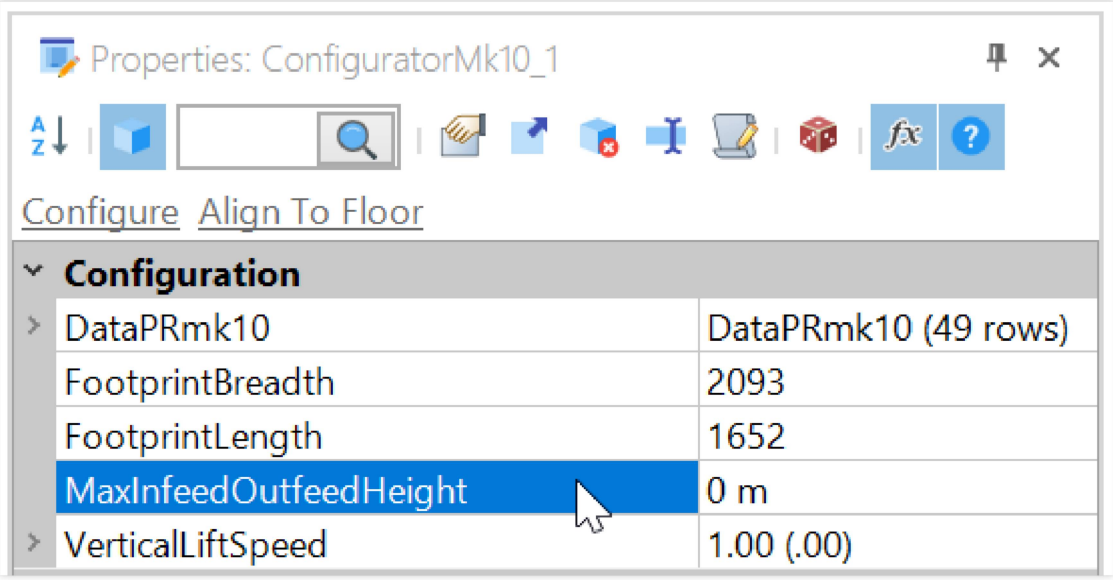
Once you have all your settings finalized, run the **Configure** custom function!

Qimarox ProRunner Mk10

Navigate to the following sub-folder:



...and drag the **MK10 Configurator** into the model, to bring up the following properties:



Here is an explanation of the properties:

Property Name	Value Type	Purpose
DataPRmk10	Table	Set of available configurations.
FootprintBreadth	Enumeration	Units in **mm**. "2093", "2243" or "2393"
FootprintLength	Enumeration	Units in **mm**. "1652", "1802", "1952" or "2102"
MaxInfeedOutfeedHeight	Distance	Highest infeed or outfeed height to be catered for.
VerticalLiftSpeed	SpeedProfile	Vertical speed of lift (including Acc & Dec).

Here is a snippet of the first ten configurations:

Table - DataPRmk10

Edit Schema | Edit In Analysis

Drag a column header here to group by that column

MaxInfeedOutfeedHeight	HeightPRmk10	BottomHeight	Mid_1250_Qty	Mid_1750_Qty	TopHeight
2930	2950	1475	0	0	1475
3180	3200	1475	0	0	1725
3430	3450	1725	0	0	1725
3680	3700	1725	0	0	1975
3930	3950	1975	0	0	1975
4180	4200	1475	1	0	1475
4430	4450	1475	1	0	1725
4680	4700	1725	1	0	1725
4930	4950	1725	1	0	1975
5180	5200	1725	0	1	1725

Note

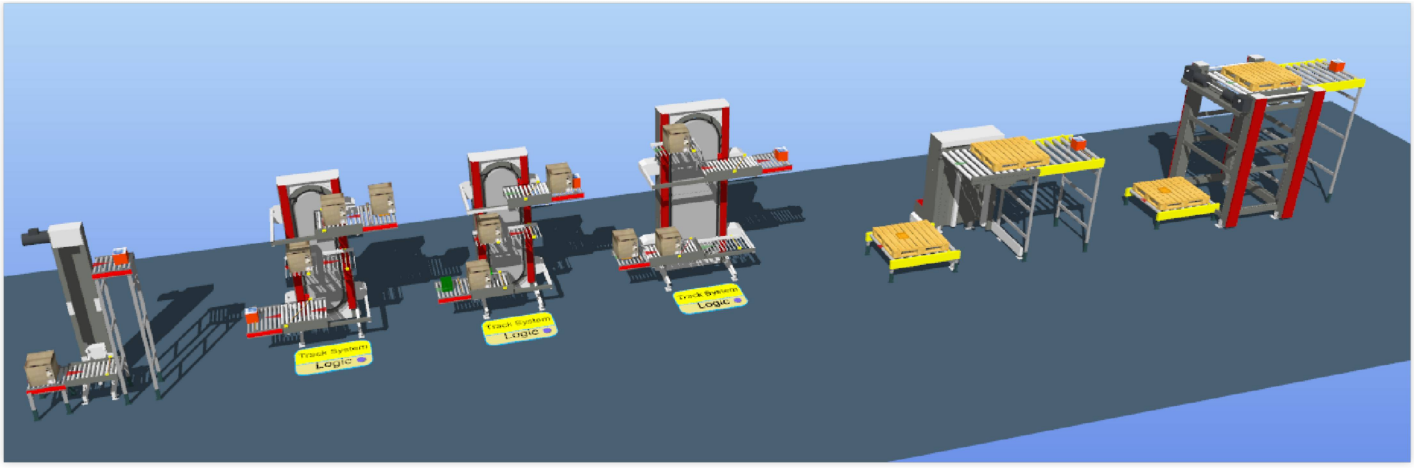
Setting the highest infeed / outfeed height to 0m or 100m, will create the shortest and tallest configuration, respectively.

Tip

Once you have all your settings finalized, run the **Configure** custom function! Example model in next section!

Example Model

Example Model - 20190307



Source Catalog

Source - 20191021