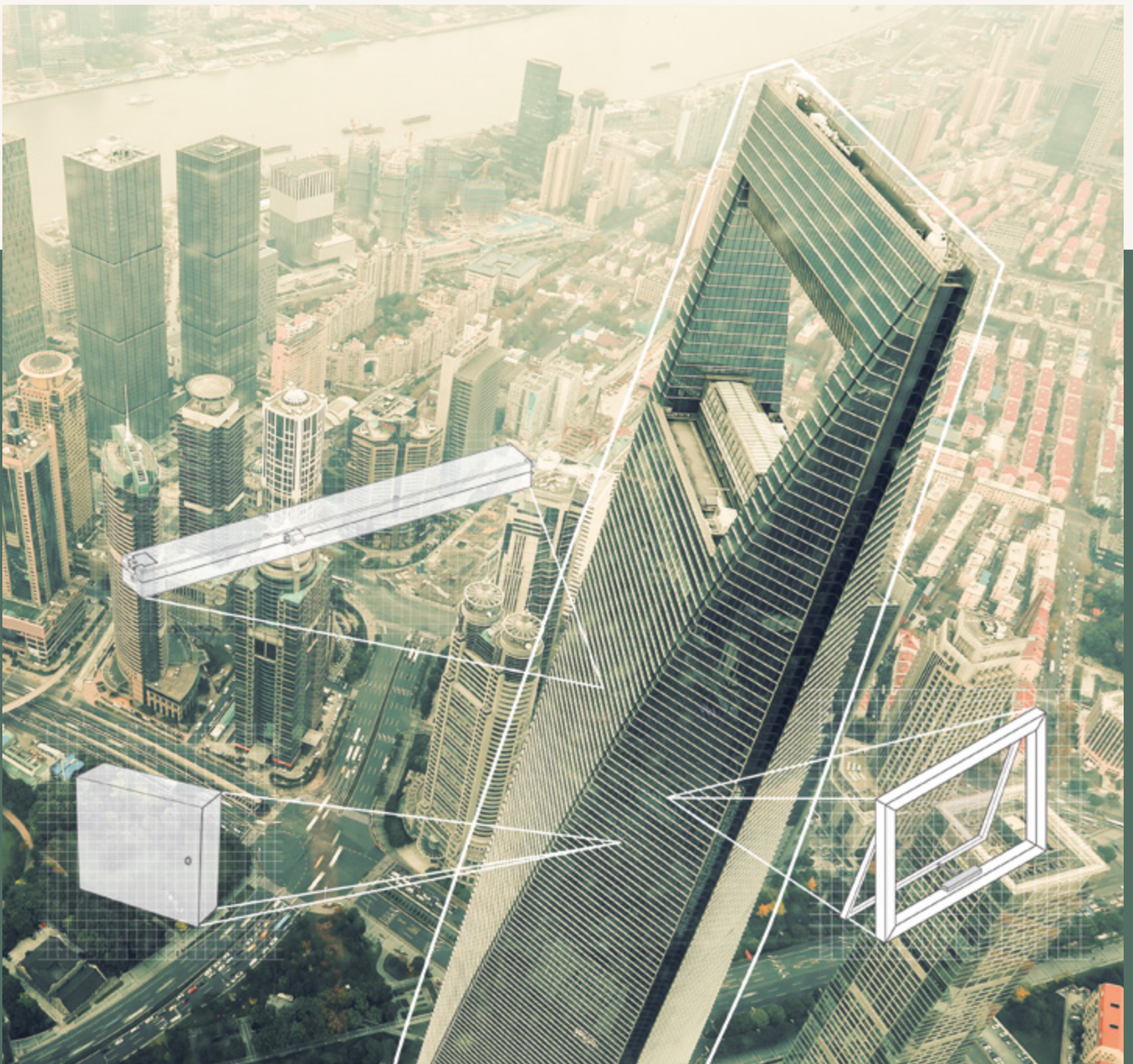


# WindowMaster Actuator & Small Scale Controls Range



**Find the right actuator** →

**Extra Small chains** →

**Small chains** →

**Medium chains** →

**Large chains** →

**Spindles** →

**Louvre** →

**Locking / Espagnolette** →

**Door actuators** →

**Controllers** →

**Intelligent control of windows with MotorLink®** →

**Contact us** →

# Find the right actuator

Our online tool, the Actuator Finder, for quick and easy free area calculations and actuator suggestions. You can also download product data and specification documents through this tool

## Required fields for basic search:

- Vent placement
- Opening orientation
- Dimensions and weight or glass thickness
- Choice of free area calculation

## Advanced settings:

- Mounting conditions (i.e. profile dimensions)
- Opening requirements based on: chain stroke, opening angle or geometric free area
- Other requirements, including forcing/checking a specific actuator type

## Instant Results:

- Quick suggestion of actuator and free area achieved

## Summary document for instant download including:

- Inputted information, window calculations and actuator suggestion
- Links to downloads of tech drawings, BIM objects, product sheet etc

If you would like to confirm your findings or get a quote, please don't hesitate to contact us:

E-mail [info.uk@windowmaster.com](mailto:info.uk@windowmaster.com)

Telephone +44 1536 614070

Choose the units you want to calculate with to get started

Metric  Imperial

**Window placement**

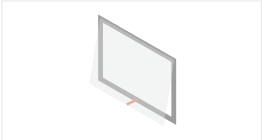
Facade  Roof

**Window type**

**Outward openings** **Inward openings**

Top-hung (Not top projected)  Side-hung  Bottom-hung

**Dimensions and weight**



Casement width

Casement height

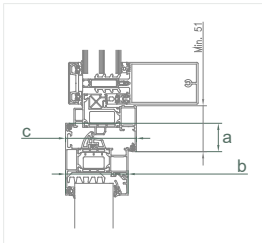
Glass thickness

Casement Weight (approx.)

**Ventilation area**

Hide advanced settings

**Mounting conditions**



a

b

c

**Opening requirements**

Based on chain stroke

Chain stroke

Max. possible stroke

**Other requirements**

Mounting of actuator

Fire test demand

Number of actuators

Forces actuator

Find the tool on our website [www.windowmaster.com](http://www.windowmaster.com)






# Our range of Actuators

					
Features	WMX 813	WMX 814	WMX 803	WMX 804	WMX 823
Description	Extra Small chain		Small chain		
Fitment	Concealed	Surface	Concealed	Surface	Concealed
Colour*	■ Black anodised aluminium E6/EV1	□ RAL 9010 ■ Natural anodized EV1 ■ Black anodized E6/EV1	■ RAL 9006	■ RAL 9005 □ RAL 9010 ■ RAL 9006	■ RAL 9006
Chain stroke	50-1000 mm		50-250 mm		50-500 mm
Pressure force (Depending on chain stroke)	Max. 150 N				Max. 200 N
Tractive force	250 N		200 N		
Locking force	2000 N		3000 N		
Size (Width: depending on chain stroke)	W: 499 / 599 / 699 / 799 mm H: 22 mm D: 33 mm	W: 563 / 663 / 763 / 863 mm H: 25 mm D: 37 mm	W: 342 mm H: 30 mm D: 42 mm	W: 332 mm H: 29 mm D: 42 mm	W: 517 mm H: 30.5 mm D: 42 mm
Cable**	35 mm	5 m	100 mm	1.9 m	100 mm
Voltage	24 VDC				
Current	1 A				
MotorLink® enabled	Yes				
To be ordered separately	Brackets and standard extension cables type WLL.				

\* Additional RAL colours available on request

\*\* Extension cable can be delivered, should the supplied tail length not be sufficient

# Our range of Actuators

					
Features	WMX 826	WMU 836	WMU 831+851+852	WMU 842+86x+88x	WMU 895
Description	Small chain	Medium chain		Large chain	
Fitment	Surface				
Colour*	<input type="checkbox"/> RAL 9010 <input type="checkbox"/> RAL 9006	<input type="checkbox"/> Natural anodized EV1	<input type="checkbox"/> RAL 9006	<input type="checkbox"/> Natural anodized EV1	
Chain stroke	50-500 mm	400, 600, 800 and 1000 mm	400, 500 and 600 mm	300, 500, 600, 750 and 1000 mm	600, 750 and 1000 mm
Pressure force (Depending on chain stroke)	Max. 200 N	Max. 300 N	Max. 300 / 500 N	Max. 400 / 600 / 800 N	Max. 1000 N
Tractive force	200 N	300 N		500 N	
Locking force	3000 N				
Size (Width: depending on chain stroke)	W: 487 mm H: 30.5 mm D: 42 mm	W: 568 / 668 / 768 / 868 mm H: 34 mm D: 47 mm	W: 623 mm H: 42 mm D: 57 mm	W: 545 / 645 / 685 / 765 / 885 mm H: 54 mm D: 80 mm	W: 775 / 855 / 975 mm H: 54 mm D: 80 mm
Cable**	4.9 m	5 m			
Voltage	24 VDC				
Current	1 A		1- 2 A	1-5 A	5 A
MotorLink® enabled	Yes				
To be ordered separately	Brackets and standard extension cables type WLL	Actuator bracket and chain bracket	Actuator bracket, motor bracket and chain bracket	Brackets	

\* Additional RAL colours available on request

\*\* Extension cable can be delivered, should the supplied tail length not be sufficient

# Our range of Actuators

					
Features	WMU 952	WMU 982	WMS 306+309+409	WML 860	WML 870
Description	Large chain		Spindle	Lourve	
Fitment	Surface				
Colour*	■ Natural anodized EV1			■ RAL 9006	
Chain stroke	400 mm	500 and 600 mm	300, 500, 750 and 1000 mm	10-80 mm	
Pressure force	500 N	800 N	600 / 900 N	600 N	800 N
Tractive force	300 N	500 N	600 N		800 N
Locking force	2000 N	3000 N	2800, 2850 or 3000 N	2000 N	
Size (Width: depending on chain stroke)	W: 623 mm H: 42 mm D: 57 mm	W: 813 / 853 mm H: 54 mm D: 80 mm	∅36 mm 306 (W): 623 / 823 / 1073 mm 309 / 409 (W): 675 / 875 / 1125 / 1375 mm	W: 385 mm H: 30.5 mm D: 42 mm	W: 318 mm H: 34 mm D: 29 mm
Cable**	5 m				-
Voltage	230 VAC		24 VDC	19 - 32 VDC	20 - 36 VDC
Current	0.45 A		1 or 1.8 A	1 A	
MotorLink® enabled	No		Yes (only -n versions)	Yes	
To be ordered separately	Brackets			-	Brackets and extension cable WLL 121

\* Additional RAL colours available on request

\*\* Extension cable can be delivered, should the supplied tail length not be sufficient

# Our range of Actuators








Features	WMB 801+802	WMB 811+812	WMB 815+816	WMB 817+818	WMD 820
<b>Description</b>	Locking / Espagnolette				Door actuator
<b>Fitment</b>	Concealed	Surface	Concealed	Surface	
<b>Colour*</b>	■ RAL 7004	■ RAL 9006	■ Black anodized E6/EV1	■ Natural anodized EV1 ■ Black anodized E6/EV1	■ Natural anodized EV1
<b>Chain stroke</b>	36 mm	18 mm			90° / 98°
<b>Pressure force</b>	750 N	500 N	300 N		Max. 300 N
<b>Tractive force</b>	750 N	500 N	300 N		Max. 250 N
<b>Locking force</b>	-	2000 N			
<b>Size</b>	W: 277 mm H: 45 mm D: 42 mm	W: 285 mm H: 30 mm D: 42 mm	W: 285 mm H: 22 mm D: 33 mm	W: 369 mm H: 25 mm D: 36.5 mm	W: 668 mm H: 34 mm D: 76 mm
<b>Cable**</b>	-	100 mm	35 mm	5 m	
<b>Voltage</b>	24 VDC				
<b>Current</b>	1 A				
<b>MotorLink® enabled</b>	No	Yes			
<b>To be ordered separately</b>	Standard extension cables type WLL.		Brackets and standard extension cables type WLL.	-	Brackets

\* Additional RAL colours available on request

\*\* Extension cable can be delivered, should the supplied tail length not be sufficient

# Our range of Controllers

Features					
	<b>WCC 103</b>	<b>WCC 103 A</b>	<b>WCC 106 A</b>	<b>WCC 310 / 320 Standard</b>	<b>WCC 310 / 320 Plus</b>
<b>Description</b>	MotorController with hard wired connection to actuator/s.	MotorController with hard wired connection to actuator/s. Wireless operation with remote control or app "The Fresh Air Control".		MotorController with hard wired connection to actuator/s.	MotorController with e.g. field bus communication.
<b>Colour</b>	<input type="checkbox"/> RAL 9016			<input type="checkbox"/> RAL 9010	
<b>Output current</b>	3 A		6 A	10–20 A	
<b>Ventilation type</b>	Comfort ventilation				
<b>Switch connection</b>	Hard wired	Wireless and Hard wired		Hard wired	
<b>Ventilation zones</b>	1		2	4–8	2–10
<b>Motor lines</b>	1		2	4–8	2–10
<b>MotorLink® functionality</b>	No		Yes		
<b>Size</b>	W: 215 mm H: 206 mm D: 37 mm			W: 355 mm H: 320 mm D: 76 mm	
<b>Voltage</b>	100–240 VAC 0.85 A 50/60 Hz			230 VAC, 50 Hz (85–264 VAC, 47–63 Hz)	
<b>Configuration</b>	DIP-switches			–	Touchscreen
<b>To be ordered seperately</b>	–	Remote control, the app can downloades from both Appstore and Google Play.		–	–

# Our range of Controllers

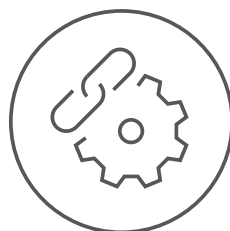
Features	WSC 104 S	WSC 104 S AR	WSC 106 MH S	WSC 106 MH S AR
<b>Description</b>	Compact smoke panel	Compact smoke panel with automatic reset function	Compact smoke panel	Compact smoke panel with automatic reset function
<b>Colour</b>	<input type="checkbox"/> RAL 9016		<input checked="" type="checkbox"/> RAL 7035	
<b>Output current</b>	4 A		6 A	
<b>Ventilation type</b>	Smoke- and comfort ventilation			
<b>Certification</b>	EN 12101-10 & ISO 21927-9	EN 12101-10	EN 12101-10 & ISO 21927-9	EN 12101-10
<b>Smoke / comfort ventilation groups</b>	1 / 1			
<b>MotorLink®</b>	Yes			
<b>Size</b>	W: 283 mm H: 224 mm D: 85 mm		W: 300 mm H: 300 mm D: 120 mm	
<b>Primary voltage</b>	230 VAC, 50 Hz (85–264 VAC, 47–63 Hz)			
<b>Configuration</b>	DIP switches			
<b>To be ordered seperately</b>	-			

# Our range of Controllers

Features	WSC 310 / 320 Plus		WSC 310 / 320 Plus NF		WSC 520	WSC 540	WSC 560	
<b>Description</b>	Compact smoke panel with fieldbus-communication				Modular smoke panel with fieldbus-communication			
<b>Colour</b>	RAL 7035							
<b>Output current</b>	10-20 A				20 A	40 A	60 A	
<b>Ventilation type</b>	Smoke- and comfort ventilation							
<b>Certification</b>	EN 12101-10 & ISO 21927-9		EN 12101-10, NF 537 & NF S 61-938		EN 12101-10 & ISO 21927-9			
<b>Smoke / comfort ventilation groups</b>	2 / 2 - 10 / 10				13 / 13	26 / 26	39 / 39	
<b>Configuration</b>	Touch screen							
<b>MotorLink®</b>	Yes							
<b>Size</b>	WSC 310: W: 400 mm H: 300 mm D: 120 mm  WSC 320: W: 400 mm H: 300 mm D: 210 mm				W: 400 mm H: 600 mm D: 210 mm	W: 600 mm H: 600 mm D: 210 mm	W: 1000 mm H: 800 mm D: 210 mm	
<b>Primary voltage</b>	230 VAC, 50 Hz (85-264 VAC, 47-63 Hz)	230 VAC, 50 Hz (195,5 VAC-276 VAC, 47-63 Hz)		230 VAC (±10%) / 50 Hz		2 x 230 VAC (±10%) / 50 Hz	3 x 230 VAC (±10%) (400 VAC) / 50 Hz	
<b>To be ordered seperately</b>	-				Back-up battery type WSA 017 (12V/17-18Ah) – order two batteries	Back-up battery type WSA 017 (12V/17-18Ah) – order four batteries	Back-up battery type WSA 017 (12V/17-18Ah) – order six batteries	

# Intelligent control of windows with MotorLink®

MotorLink® is a communication technology that enables 2-way control and feedback between window actuators and the Building Management System.



## Top 5 benefits



### **Whisper quiet operation**

Get nearly soundless window actuator operation with MotorLink® enabled TrueSpeed™



### **Accurate control and feedback**

Run actuators with precise speed and to a specific degree of opening, plus get real-time feedback of openings and faults to the BMS



### **Synchronized, dynamic facades**

Movement and control across multiple actuators is smooth when opening and closing for the highest level of facade aesthetics



### **Easier installation**

Because MotorLink® MotorControllers manage the communication from the window actuators to BMS, there is less cabling directly to BMS



### **Safe operation**

When in close mode, window actuators can detect obstacles preventing operation and then reverse to release the object

## UK · WindowMaster Control Systems Ltd.

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Hours of operation	Monday - Thursday · 8:15am - 5pm Friday · 8:15am - 3:30pm

## Ireland · WindowMaster Control Systems Ltd.

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E-mail	info.ie@windowmaster.com
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Hours of operation	Monday - Thursday · 8:15am - 5pm Friday · 8:15am - 3:30pm

## Denmark · WindowMaster International A/S

Phone	+45 4567 0300
E-mail	info.dk@windowmaster.com
Address	Skelstedet 13 2950 Vedbæk
Hours of operation	Monday - Thursday · 8:00am - 4pm Friday · 8:00am - 3:30pm

**Looking for contact information in other  
countries?**

See our full overview of offices and contact  
information here:



**[www.windowmaster.com/about-us/  
contact-us/](http://www.windowmaster.com/about-us/contact-us/)**

WindowMaster aspires to protect people and the environment by creating a healthy and safe indoor climate, automatically ventilating spaces with fresh air through facade and roof windows in buildings. We offer the construction industry foresighted, flexible and intelligent window actuators and control systems for natural ventilation, mixed mode ventilation, and smoke ventilation – of the highest quality.

WindowMaster employs highly experienced cleantech specialists in Denmark, Norway, Germany, United Kingdom, Ireland, Switzerland, and the United States of America. In addition, we work with a vast network of certified partners. With our extensive expertise built up since 1990, WindowMaster is ready to help the construction industry meet its green obligations and achieve their architectural and technical ambitions.

[windowmaster.com](https://windowmaster.com)

**WINDOW  
Master**<sup>®</sup>  
Fresh Air. Fresh People.