

### WMU86X-N / WMU88X-N

## **HEAVY DUTY CHAIN DRIVE 24V**



#### Description

- an elegant alternative to a spindle actuator
- for smoke and comfort ventilation
- approved according to EN 12101-2 with selected profiles (please contact us for further information)
- complete opening of the window within 60sec. (depending on the programming)
- strong actuator suitable for roof openings
- to be used together with ±24V control units or control units with MotorLink™
- can be used together with espagnolette WMB
- synchronization of up to 4 window actuators no need for an external synchronization module
- genuine position feedback and 3 speeds when using control unit with MotorLink™
- soft close function
- the electronics in this actuator can be programmed to suit specific requirements – i.e. pressure- and traction force, stroke, speed/sound level – with the WAT 100 programming box, this is also possible following installation
- built-in electronic load switch-off/end stop
- electronic actuator with micro controller
- the actuator has an integrated reverse function to ensure a prolonged life span of the window gaskets
- easy mounting

The actuator is an extremely strong chain actuator especially developed for large and heavy windows – an elegant alternative to traditional spindle actuators.

#### Actuator variants

The actuator is available in four different versions: single WMU 86x/88x-1, double WMU 86x/88x-2, triple WMU 86x/88x-3 and quad WMU 86x/88x-4.

The actuators are equipped with a patented synchronization function, in which the actuators communicate directly with each other, which ensures the actuators operate at exactly the same speed and position. On large windows up to four actuators can be mounted on the same window – with no need for an external synchronization module.

### Pressure safety function

The risk of entrapment is reduced as the actuators are programmed to reverse if they encounter obstacles when closing. The set points determining when the actuators are to reverse are individually adjustable and can be adjusted after installation using the programming box WAT 100.

#### Opening speeds

Actuators connected to ±24 VDC control units (e.g. WUC) have one chain speed – see the following page for opening speed.

Actuators connected to control units with MotorLink<sup>TM</sup> (e.g. WSC xxM) have three different speeds:

- slow speed by soundless automatic control of the windows
- faster speed by audible manual (keypads) control of the windows
- fast speed by smoke ventilation and security functions

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Specifications	
Pressure force	see table of items
Tractive force	max. 1000N (programmable 300-1000N)
Locking force	5000N
Chain stroke	300, 500, 600 and 750mm
Opening speed	depending on variant – see table of items for data ("opening time")
Window types	top hung, bottom hung, turning, pivot, roof window and light dome
Nominal voltage	24 VDC (max. 10% ripple)
Voltage	19-32 VDC
Open-circuit voltage	max. 32 VDC
Current consumption	see table of items
Operating conditions	-5°C - +74 °C max. 90% relative humidity (not condensing)
Switch-on-duration	ED 20% (max. 2min. per 10min.)
Material	anodised aluminium housing with zinc cromate passivated steel chain actuator with 5m grey silicone cable 3-core 0.75mm²
Colour	anodised aluminium, other RAL colours at an additional price
Size	$80 \text{mm} \times 54 \text{mm}$ (W x H), see table of items for length
Weight	300mm - 5.2kg, 500mm - 5.9kg, 600mm - 6.3kg, 750mm - 6.8kg
IP rating	IP54
Life span	The life span of the actuator depends on the load and chain stroke Recomended test case for EN approval: 10.000 ventilation openings 500mm 500N 1.000 smoke openings full stroke 500N 5 smoke openings with snow load 600N/1000N full stroke
Certification	ETL
Delivery includes	actuator with 5m connection cable
Note	we reserve the right to make technical changes

Item number composition								
WMU 8	X	х	-n	EN or UL	0xxx			
					Chain	stroke [mm]		
				EN: For actuator approved according to EN 12101-2 the item number must contain EN UL: For ETL certified actuator the item number must contain UL				
			Variant (1=single, 2=double, 3=triple, 4=quad)					
		Power consumption [A]						
	Pressure force [N] (6=600N, 8=1000N)							

ltem no.						
WKK 8xx						
WAB 836A						
WAB 836B						
WAB 836H						
WAB 836E						
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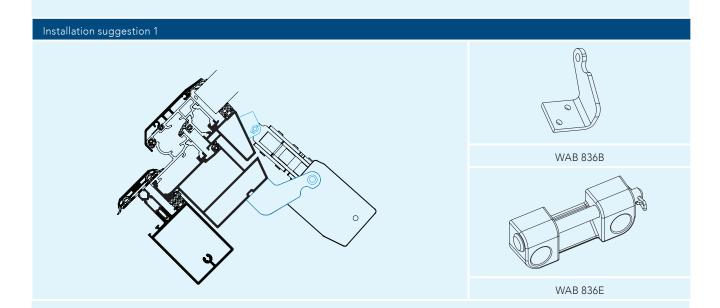
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## **HEAVY DUTY CHAIN DRIVE 24V**

Items											
Compressive force [N]	Current consumption [A]	Chain stroke [mm]	Opening time [s]	Length [mm]	ltem no.						
600	1	300	65	545	WMU 861-n* 0300						
	,	500	107	645	WMU 861-n* 0500						
		300	35	545	WMU 862-n* ** 0300						
	2	500	54	645	WMU 862-n* ** 0500						
		600	64	685	WMU 862-n* 0600						
		750	80	765	WMU 862-n* 0750						
	3	600	54	685	WMU 863-n* ** 0600						
	4	750	58	765	WMU 864-n* ** 0750						
1000		300	75	545	WMU 882-n* 0300						
	2	500	130	645	WMU 882-n* 0500						
	2	600	155	685	WMU 882-n* 0600						
		750	195	765	WMU 882-n* 0750						
	3	300	42	545	WMU 883-n* ** 0300						
	4	500	55	645	WMU 884-n* ** 0500						
	4	600	59	685	WMU 884-n* ** 0600						
	5	750	59	765	WMU 885-n* ** 0750						

 $n^*$  = the actuator variant n is to be determined when ordering (1=single, 2=double, 3=triple, 4=quad)

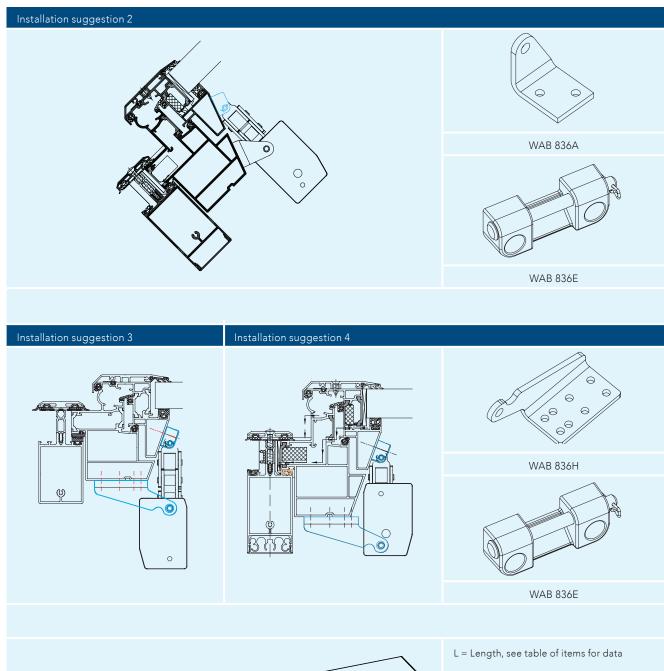
 $<sup>\</sup>star\star$  = EN 12101-2 approved variant is available (single and double actuators) – contact us

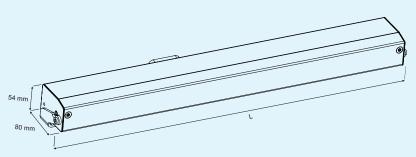


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