

# 98W03-2

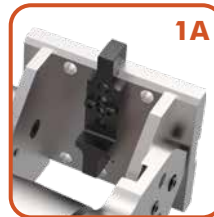
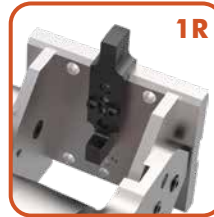
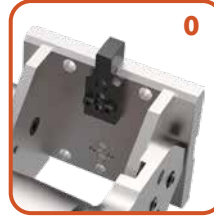
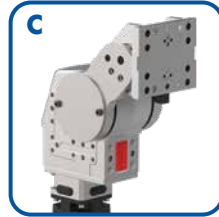
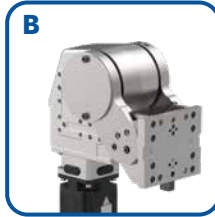
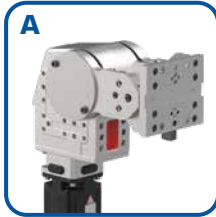
## Electric Pivot Unit | Ordering Information

**98W03-2** **10** **A** **0** - **00** - **0**

Motor	Description
<b>10</b>	SEW 400V-Brake

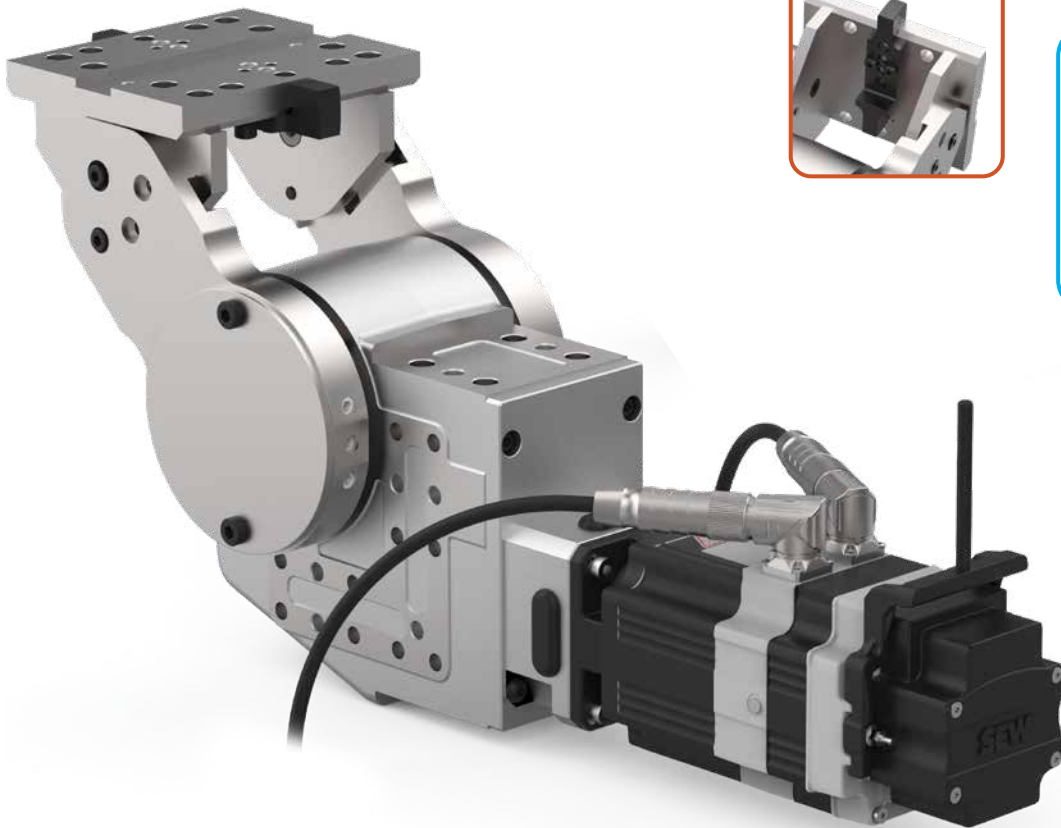
Hard Stop	Description
<b>0</b>	Standard Stop
<b>1R</b>	Audi-Standard Reference Position
<b>1A</b>	Audi-Standard Working Position 0°

Swivel Arm	Description
<b>A</b>	Center of Pivot Point
<b>B</b>	Below Pivot Point
<b>C</b>	Above Pivot Point



### Connections

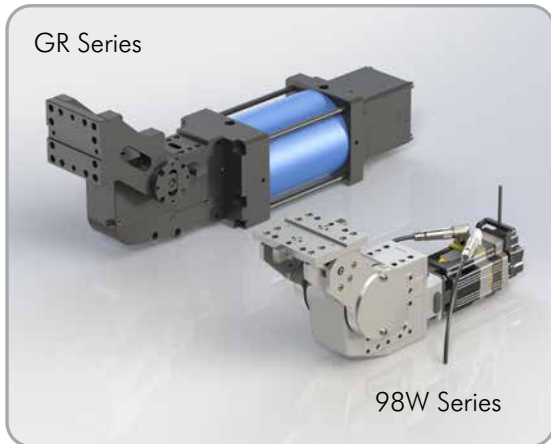
- 0** Facing Back
- 1** Facing Left
- 2** Facing Front
- 3** Facing Right



**98W03-210**

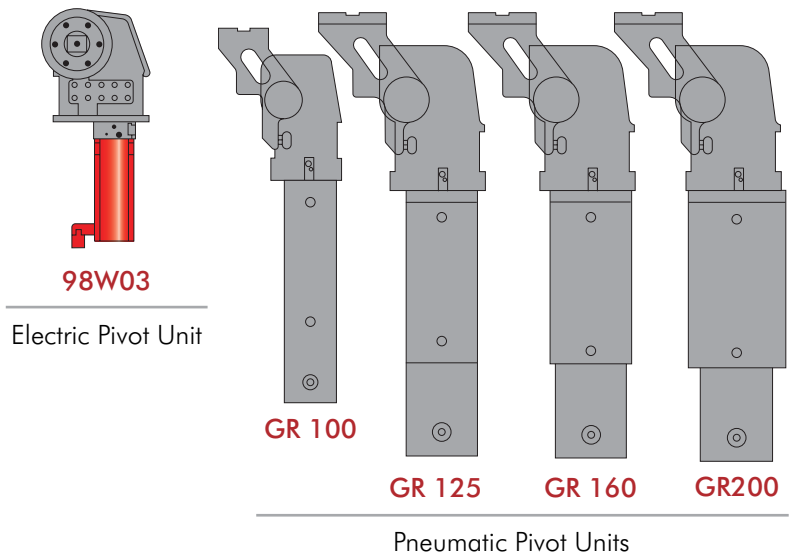
Holding Torque:  
2000 Nm [1475 ft-lb]

### Compact size and lightweight design



The 98W series electric pivot unit can share the same mounting pattern as the pneumatic pivot units, while providing greater energy savings with reduced size and weight.

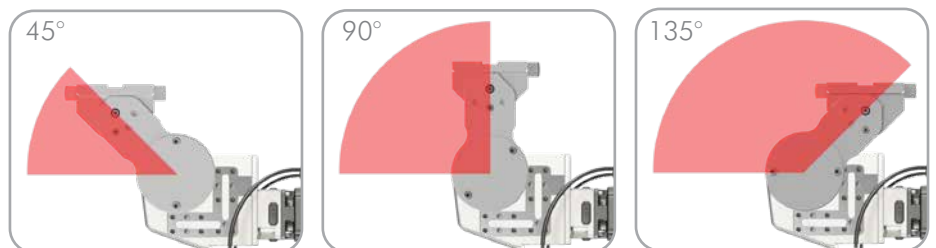
### One electric pivot unit replaces four sizes of pneumatic pivot units



### Easily adjustable saddle arm and mount

The saddle arm of the electric pivot unit can be adjusted into three different starting positions. Each starting position allows the saddle arm to be pivoted from 135° up to 210°.

Without the saddle arm, the pivot unit can be used as a rotate with 360° rotation.

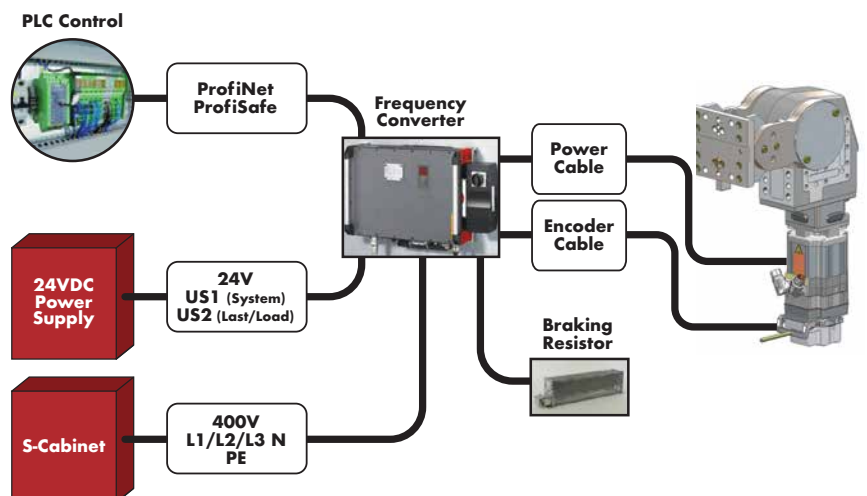


### Application Example

98W Series shown with a holding fixture mounted to the saddle mount.

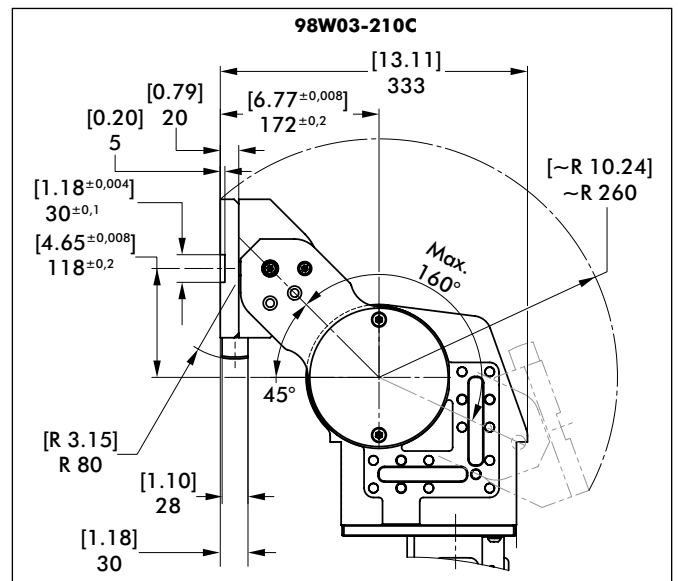
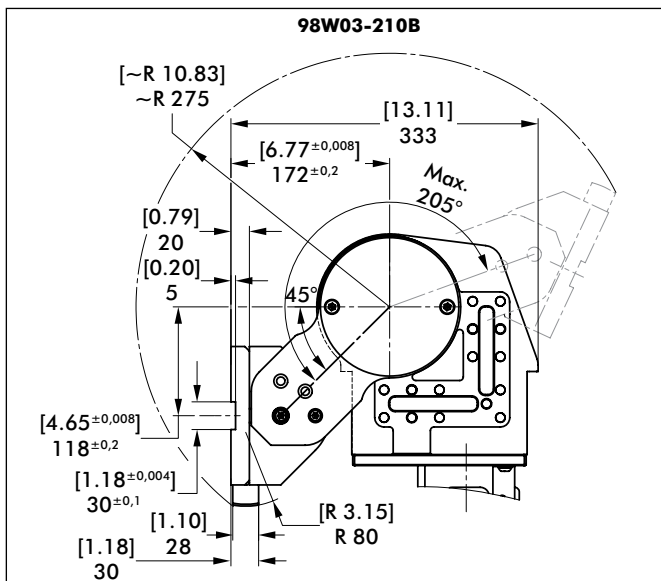
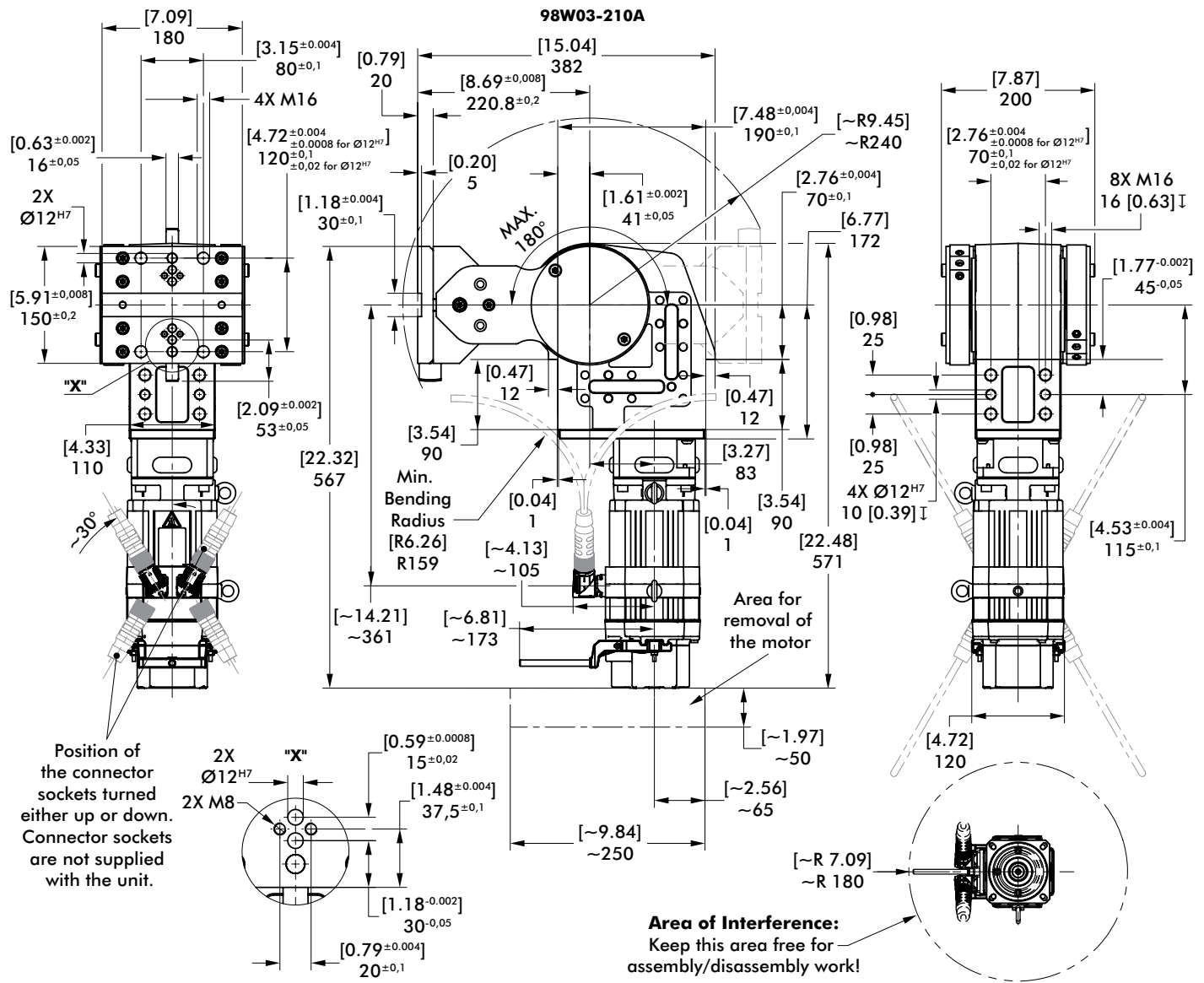


### Operating Principle



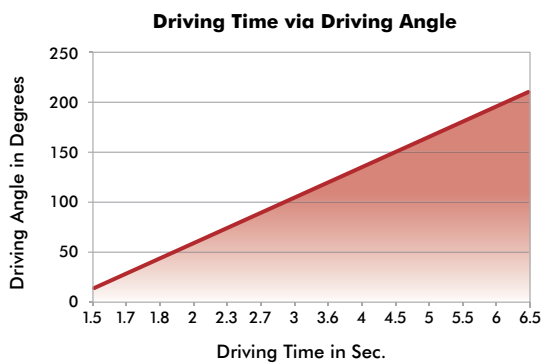
# 98W03-2

## Electric Pivot Unit | Dimensions



Specification	Units	98W03-210
Input supply voltage for external controller:	VAC	400
Control signals from external PLC		
Return signal to external PLC		
Speeds:		
Rotation from 135° to 0°	sec	4 @ 135°
Holding	sec	3
Rotation from 0° to 135°	sec	4 @ 135°
Holding	sec	3
Gear Ratio		420:1
Torque	Nm [in-lb]	500 [4425]
Static Holding Torque	Nm [in-lb]	2000 [17,701]
Max. Motor Torque (must be limited on the control side)	Nm [in-lb]	6 [53.1]
Max. Permissible Motor Speed	RPM	6000 1/min
Duty Cycle		70%
Permissible Output Speed:		
Radial	N [lbf]	2000 [17,701]
Axial	N [lbf]	5000 [44,254]
E-Stop	N [lbf]	0.4 sec @ 500 [0.4 sec @ 112] = ca. 10°
Acceleration	sec	2
Slow down	sec	2
Weight	Kg [lb]	51,5 [113.54]
Operating Temperature	C° [F°]	0° - 60° [32° - 140°]
Repeatability with Hard Stop	mm [in]	± 0,01 @ 500 [± 0.0004 @ 19.69]
Repeatability without Hard Stop	mm [in]	± 0,05 @ 500 [± 0.002 @ 19.69]

### Driving Time and Angle Guidelines



**Note:**

Maximum speed should not exceed 6000 rpm.  
Velocity must never be in a trapezoidal profile.  
The velocity must have a triangular or sinusoidal shape. Acceleration ramps or jolt tiles must be adjusted corresponding to the driving angle.

Driving Angle Degrees	Driving Time Sec.	Max Speed RPM	Jolt Time Sec.	Acceleration Ramp ms	Braking Ramp ms	Amplification X-Controller
15	1.4	4017	0.1	500	500	2.23
30	1.7	5862		400	400	
45	1.8	6000		500	500	
60	2.0					
75	2.3					
90	2.7					
105	3.0					
120	3.6					
135	4.0	4500		800	800	
150	4.5					
165	5.0					
180	5.5	5600		700	700	
195	6.0	4500	800	800		
210	6.5					