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# Slide and Tilt System

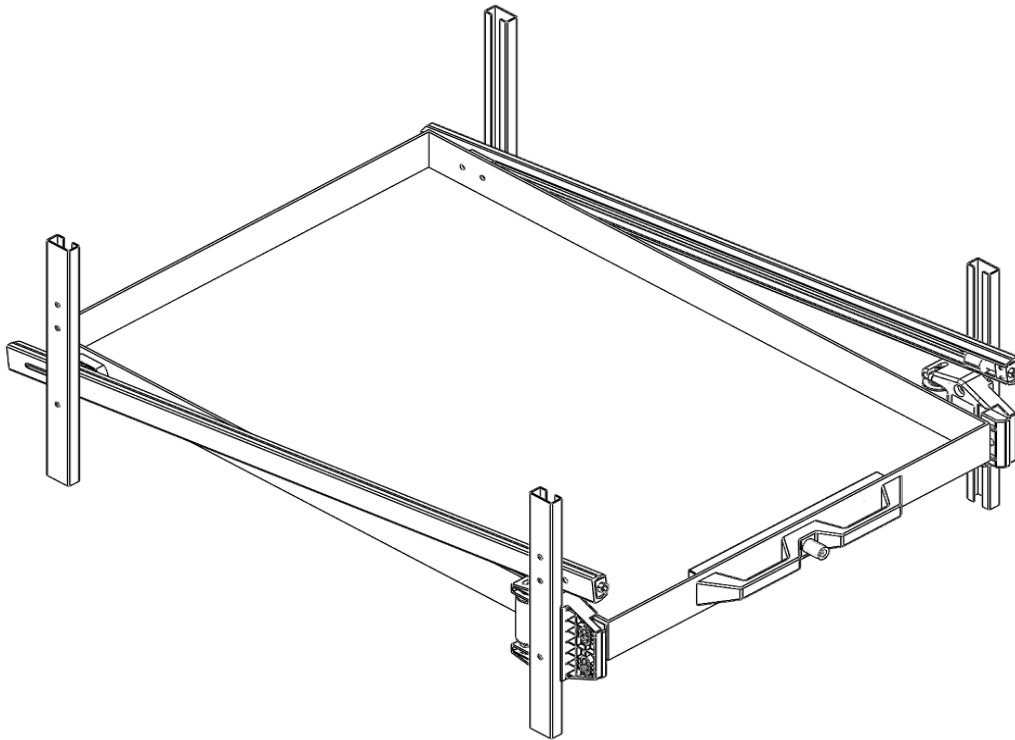
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Technical Reference

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Slideandtilt.com

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## Functionality

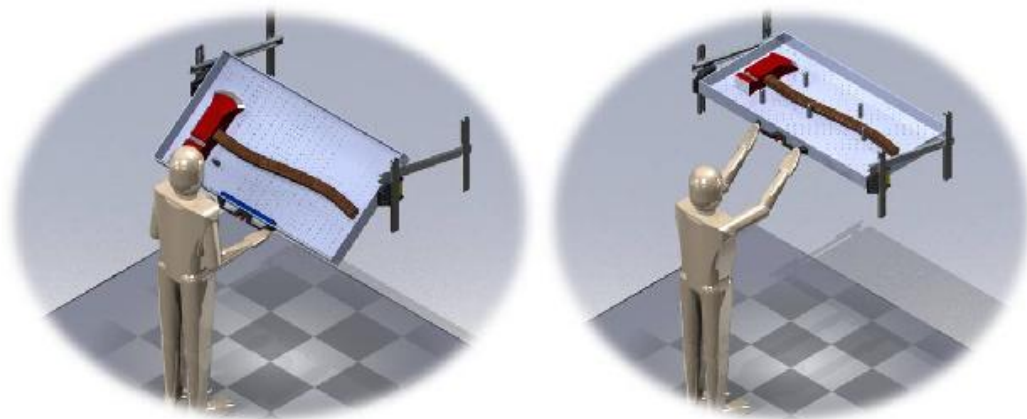
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Slide & Tilt mechanism.

The mechanism is a series of plastic mouldings/sub-assemblies and aluminium extrusions that make up a Slide & Tilt mechanism.

These are primarily used in the Emergency Vehicle industry that allows easy access to lockers that store various items required on Emergency Vehicles attending incidents.

These lockers can be at shoulder/head height and need to tilt to allow full access.





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## Working Parameters

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Slide & Tilt mechanism.

Following rigorous testing the following working parameters are recommended:-

- Working temperature range  $-40^{\circ}\text{c}$  to  $+70^{\circ}\text{c}$
- Short term exposure  $-50^{\circ}\text{c}$  to  $+120^{\circ}\text{c}$
- 100% humidity / immersion in water
- 60,000 cycle life at 35kgs\*
- Loaded shock/vibration resistant
- Tested at 155kgs for 10,000 cycles
- Our Slam Lock recommended

\*Though it should be noted that 35Kgs unsupported at shoulder/head height could cause injury to the operator when opened.

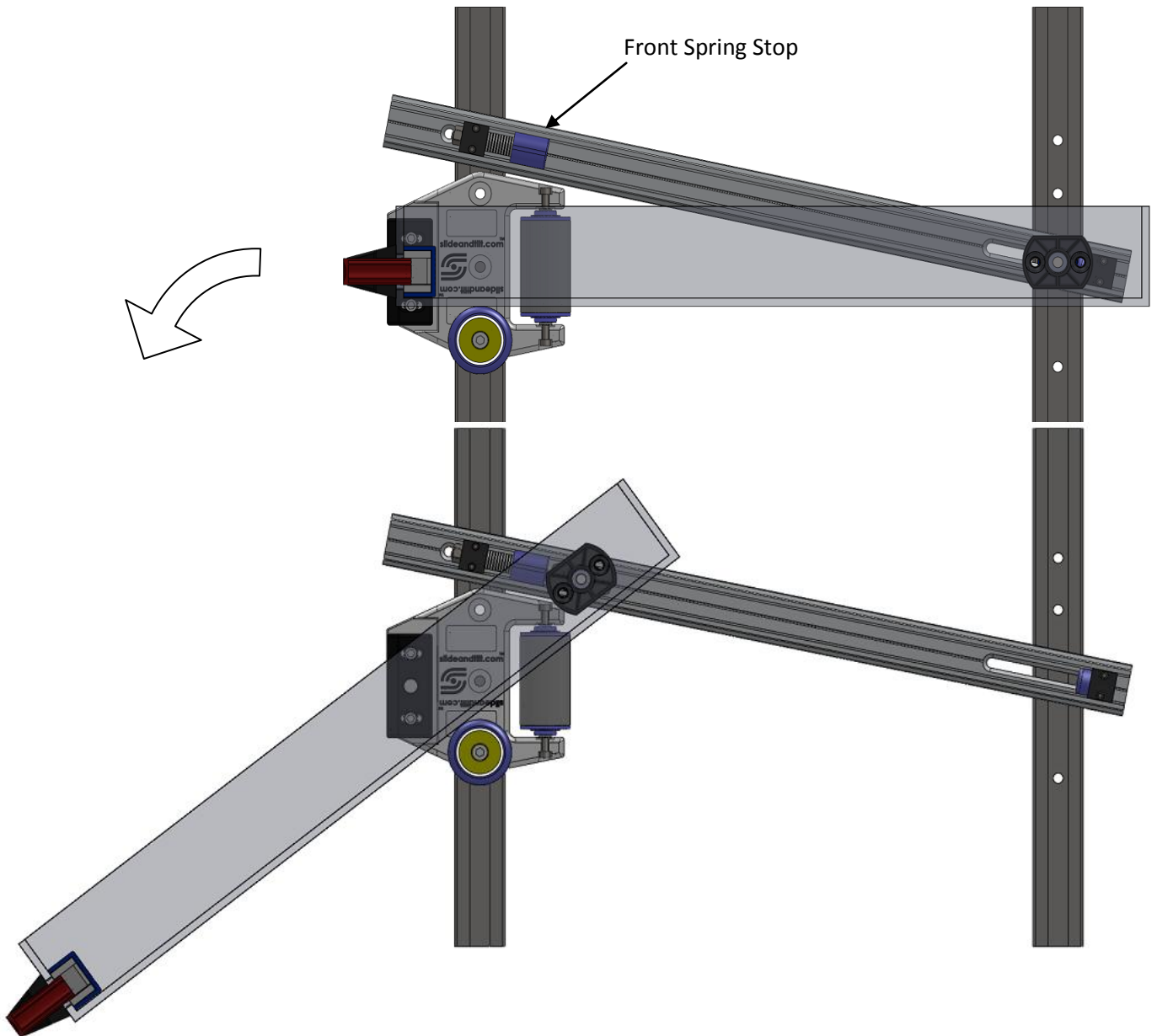
Increasing the load does raise some serious considerations. The extension of the Slide & Tilt mechanism would have to be reduced to ensure manageable operating forces.

Unsupported load is even more relevant, we suggest that loads heavier than 35kgs could not be manually held when the mechanism tilts, these loads would become uncontrolled and could seriously injure the operator. If these loads are ever considered, then we suggest something like a gas strut or motor could be included, and the height of the positioning of the Slide & Tilt mechanism is restricted.



## Dynamics

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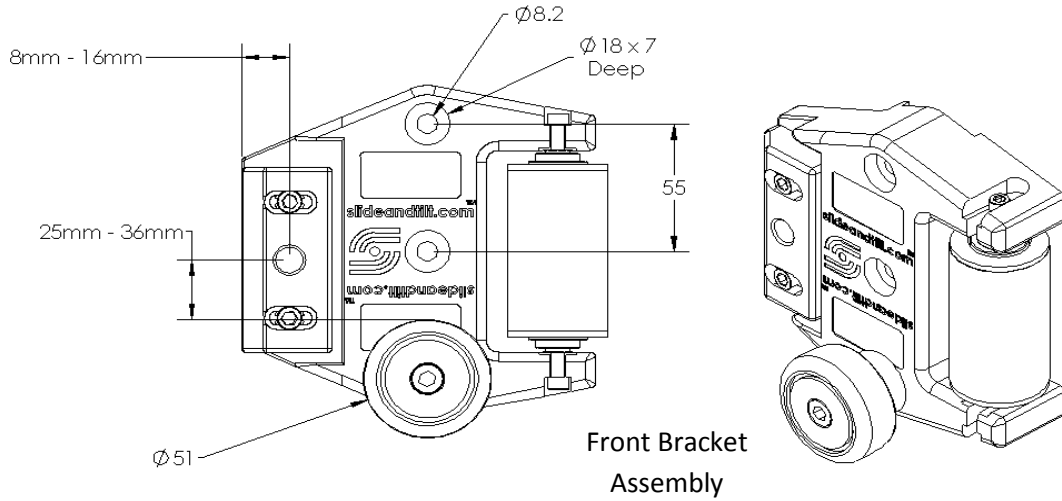


As the drawer front is brought forward it begins to tilt towards the operator.

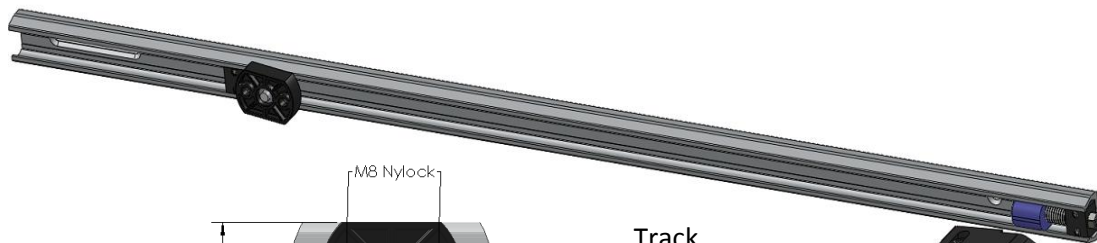
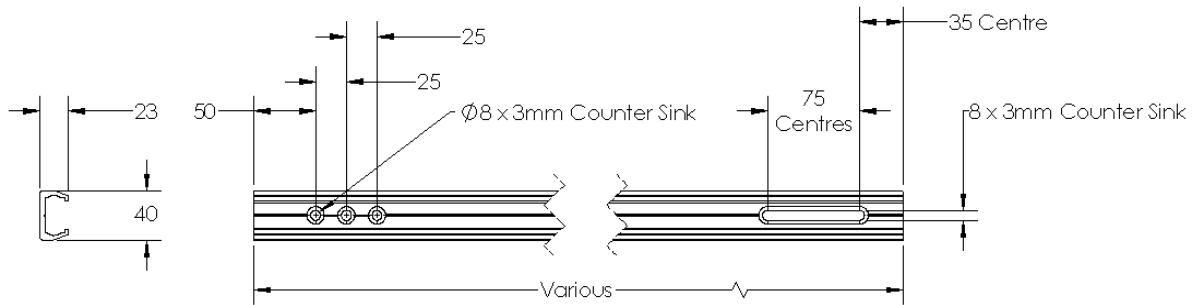
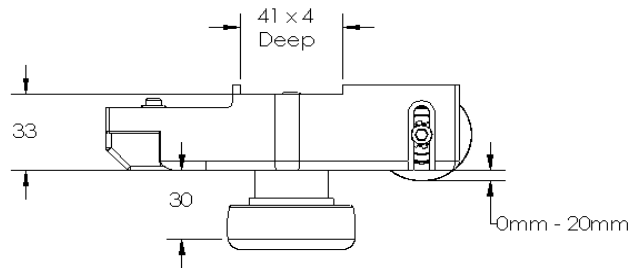
The amount the tray tilts is preset by the installer, dependent on where the front spring stops are fixed. The nearer the front the more tilt towards the operator.



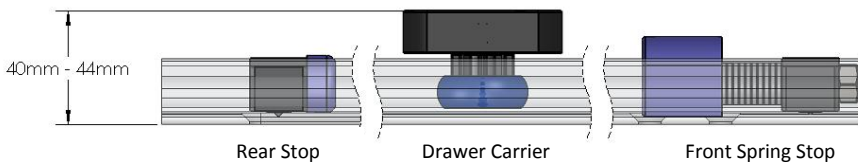
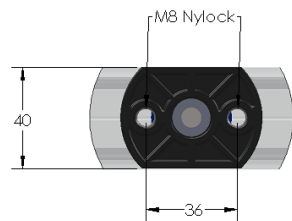
# Fixtures



Front Bracket Assembly



Track Assembly



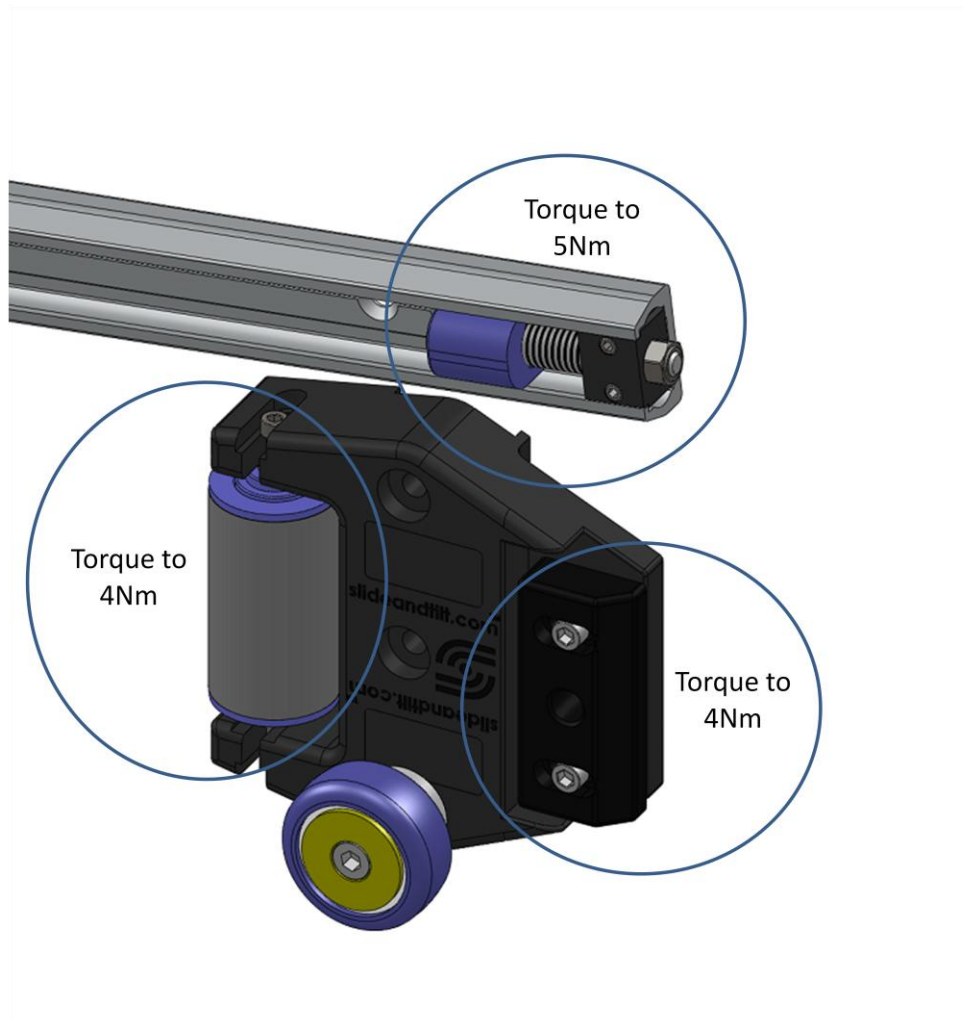
Rear Stop

Drawer Carrier

Front Spring Stop

## Fixtures – Torque settings

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When fixing the Slide and Tilt system to the vehicle use M8 bolts and torque to 20Nm – 22Nm

The above are recommended torque settings for fasteners.

For the track end stops, considerations must be made for the force of a loaded tray impacting upon the stops. Testing must be carried out by the installer if loads heavier than 35kgs are to be used in the Slide and Tilt mechanism.



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## Installation Considerations

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Some considerations to take into account when installing the Slide and Tilt system are:-

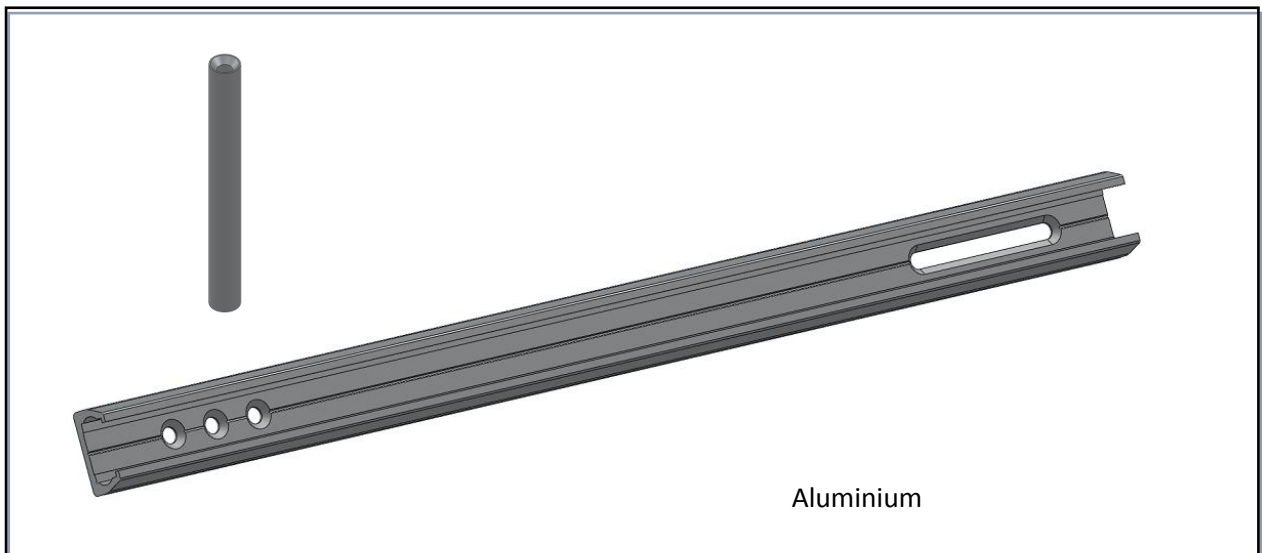
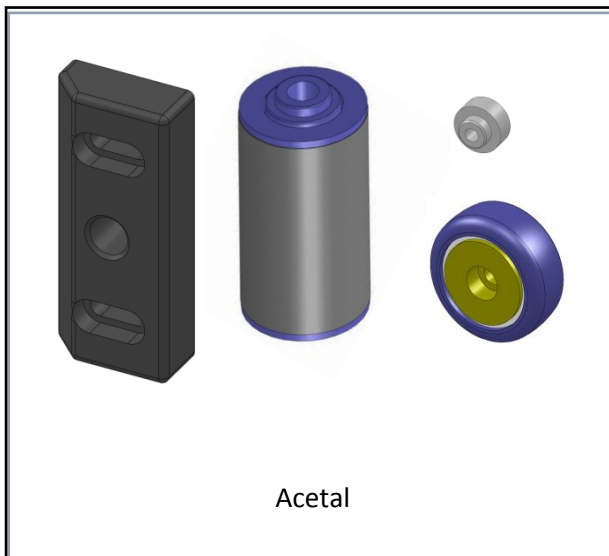
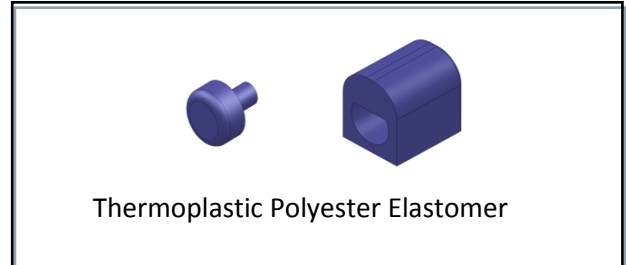
- Weight - Can the operator use the drawer safely.
- Height - Can the operator use the drawer safely.
- Tilt – The angle can be changed by adjusting the front track stops.
- Drawer Length – The longer the drawer the more weight will be placed on the system and towards the operator when open.
- Locker Clearance – When installed is there clearance for the shutters and drawer front handle.
- Training – Make sure all operators are fully aware of how the slide and tilt system operates.





## Sustainability

At the end of the systems working life all parts can be recycled.





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