

# TUMBLER ELEMENT

Firefighting and Emergency Vehicle  
| Fire Response |

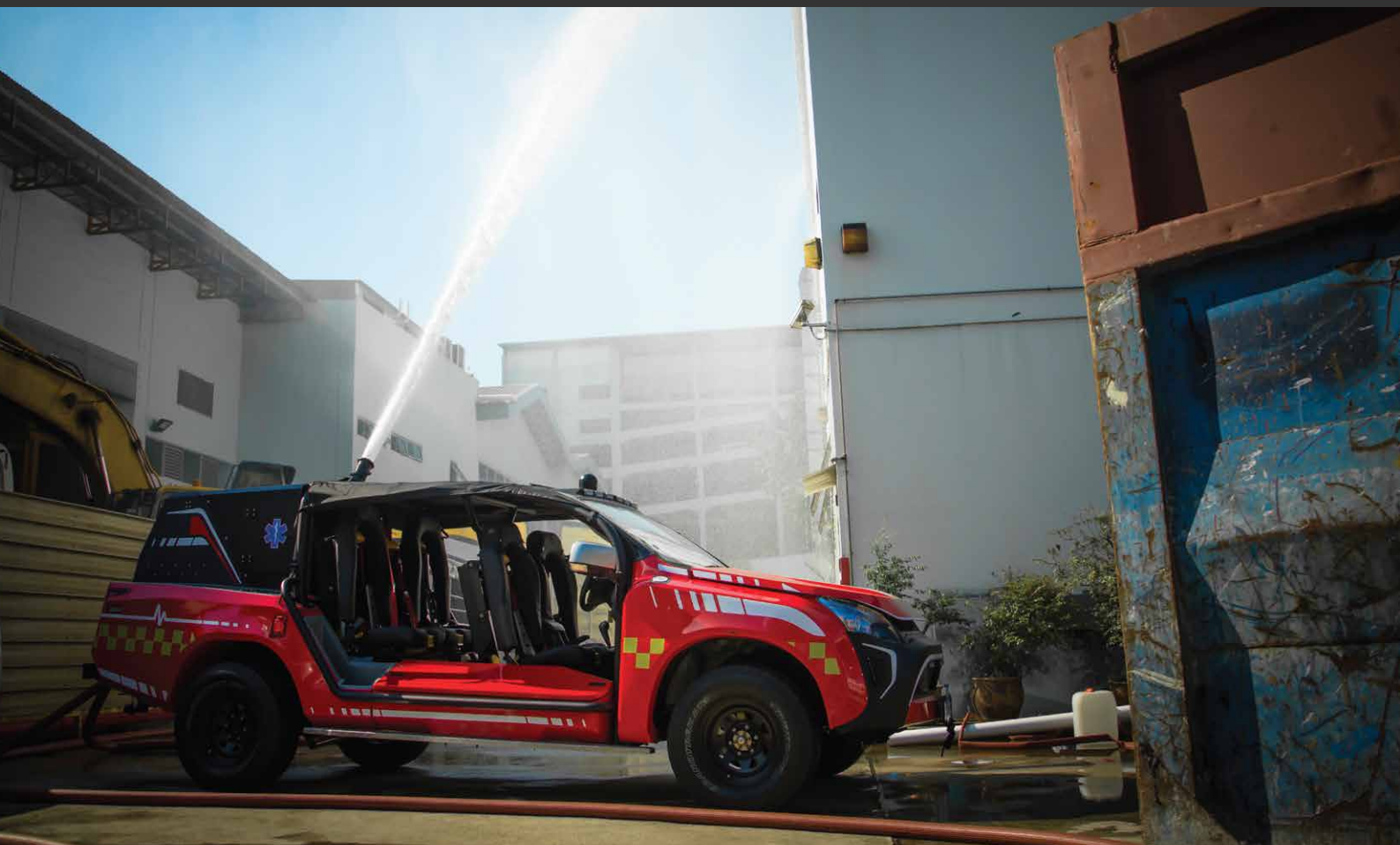




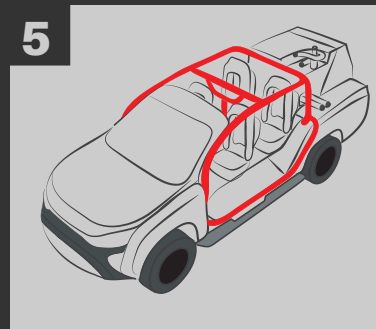


# TUMBLER ELEMENT

Tumbler Element is designed to provide rapid response to emergency situations and function in tight urban spaces that larger fire engines may have difficulties getting into. Its compact body, as compared to a fire engine, allows it to be highly manoeuvrable in narrow urban streets. In spite of its size, it is capable of providing sufficient knock-down power to take on residential and industrial fires as a first response vehicle while obtaining its water source from a hydrant, fire engine or water body.







### 1 Proprietary controller

Tumbler Element is equipped with a proprietary controller which makes it simple for the operator to switch the power take-off (PTO) from driving to pumping mode. Once in pumping mode, the vehicle becomes a powerful firefighting tool with its PTO driven fire pump and compressed air foam system (CAFS).

### 2 Fire pump

The fire pump flows 500 gallons per minute (GPM) of water along with a CAFS unit capable of delivering 220 cubic feet per minute (cfm) of air with the following performance statistics:

Water	CAFS
500 GPM @ 150 psi	440 GPM/ 220 CFM @ 125 psi
350 GPM @ 200 psi	
250 GPM @ 250 psi	

\*psi = pounds per square inch

### 3 Individual controls

Each pump outlet has its own set of controls to enable multi-pronged firefighting strategies in any emergency situation.

### 4 Remote controlled deck gun

The remote controlled deck gun allows a single operator to have full control of the jet stream, enhancing firefighting efficiency.

### 5 Roll cage

A customised roll cage designed to FMVSS standards as well as made light and strong from 4130 chromoly steel serves as a safety cell for the open-cabin vehicle.

### 6 2WD/ 4WD

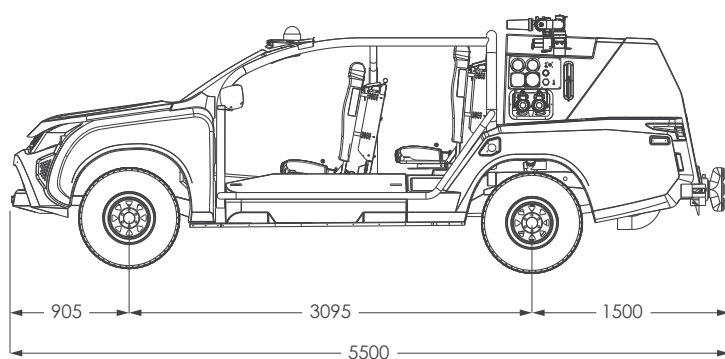
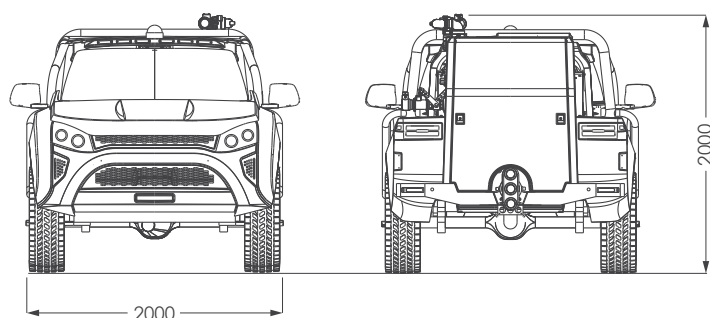
Selectable two-wheel or four-wheel drive operation, depending on your road conditions.

## Specifications

<b>Seating capacity</b>	4 persons (including driver)
<b>Dimensions (L x W x H)</b>	5,500 x 2,000 x 2,000 mm
<b>Gross weight</b>	3,000 kg (as per chassis OEM specifications)
<b>Unladen weight</b>	2,300 kg
<b>Chassis</b>	Isuzu D-Max
<b>Engine type</b>	Isuzu 4JK1 2.5L twin turbo diesel engine (163hp/ 400Nm)
<b>Emission standard</b>	Euro 5
<b>Transmission</b>	5-speed automatic with selectable 2WD/ 4WD/ 4WD-L
<b>Minimum turning radius</b>	6.3 m
<b>Steering</b>	Rack and pinion assisted, collapsible
<b>Front/ rear brakes</b>	Front disc brakes/ rear drum brakes

## Customisation options

<b>Foam tank capacity</b>	20 - 100 L
<b>Foam ratio</b>	0-6%
<b>Water pump</b>	250 - 500 GPM
<b>Compressed air foam system</b>	Available
<b>Storage compartments</b>	Customised to fit required equipment
<b>Deck gun</b>	Available
<b>Winch</b>	4,000 kg pull force single-line
<b>Scene lights</b>	Available
<b>Bumper with trailer hitch</b>	Available



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