



## ***TECHNICAL SPECIFICATIONS***



*\*Picture for illustration purpose only*

## ***REFUSE GARBAGE COMPACTOR***

***16+1,5 m<sup>3</sup>***

***A-PLUS MANUFACTURING SDN BHD***

***Lot 7755, Jln Mangga, Bukit Cherakah***

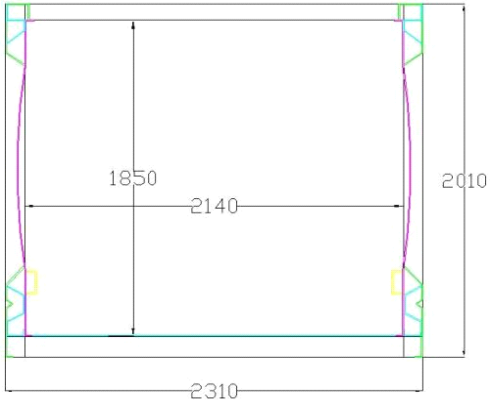
***40150 Shah Alam, Selangor, MALAYSIA***



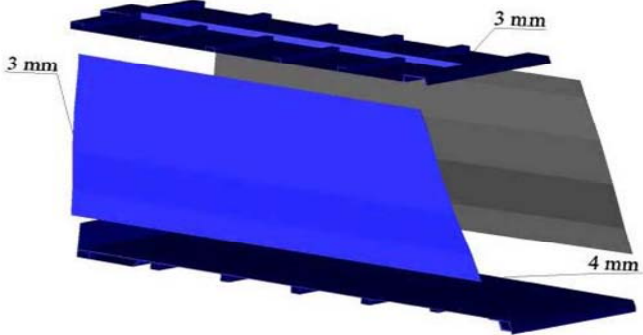
***Tel: 03-78469397 Fax: 03-78423646 9404***

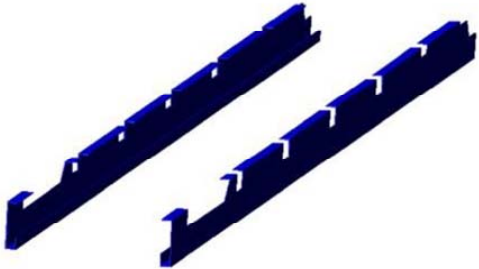
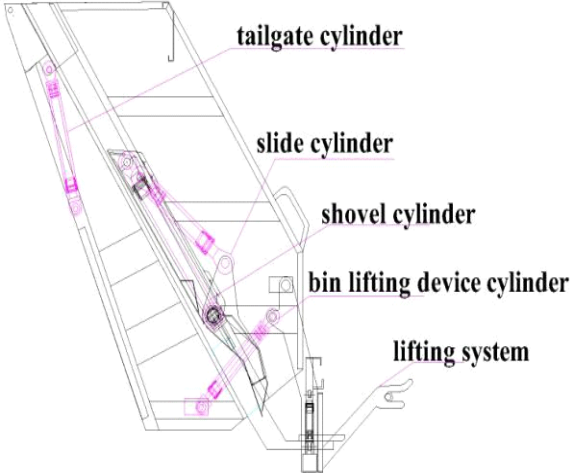
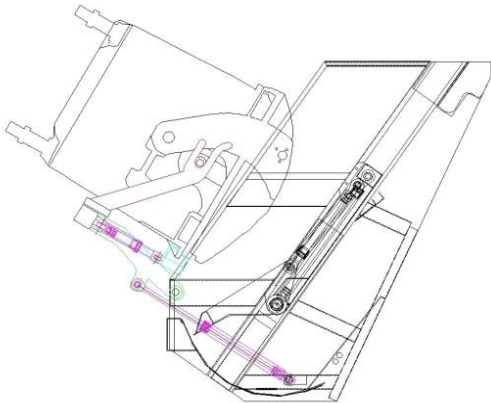
***Mobile: 019-2364236***


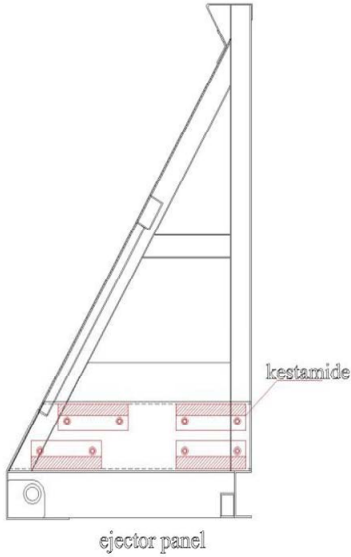
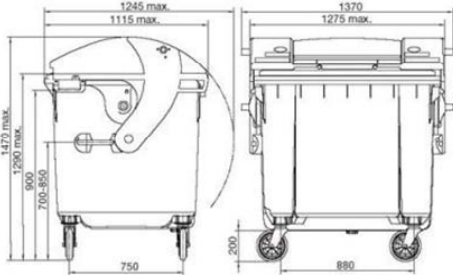
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**SPECIFICATIONS**

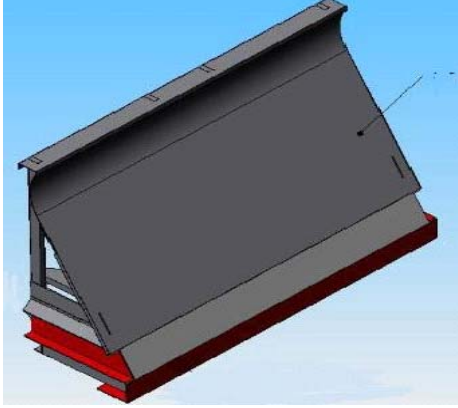


<i>Dimensions</i>	<i>Technical Information</i>	<i>Body Width (Outer) : 2310 x 2010 mm</i>	
<i>Dimensi</i>	<i>Teknikal</i>	<i>Saiz Badan (Chamber) 2310 x 2010mm</i>	
	<i>Body Inside Dimensions</i>	<i>Body Length can change depending on the vehicle.</i>  <i>Width 2140mm</i>  <i>Height 1850mm</i>	
	<i>Saiz Badan</i>	<i>Body Size</i>	<i>16+1,5 m<sup>3</sup></i>
	<i>Jenis Bahan Ketebalan</i>	<i>Body Iron-Plate Thickness</i>	<i>Keluli Tegangan Tinggi Spec ST52/ High Tensile Steel Spec ST52</i> <i>Lantai 4 mm Tepi 3mm Atas 3mm</i> <i>Floor 4 mm Sides 3 mm Ceiling 3mm</i>
	<i>Hidraulik Silinder</i>	<i>Hydraulic Cylinder</i>	<i>9 Units</i>
	<i>Kapasiti Hopper</i>	<i>Hopper Capacity</i>	<i>1,5 m<sup>3</sup></i>
	<b><u>BERAT</u></b>	<b><u>WEIGHT</u></b>	
	<i>Badan dan Chassis</i>	<i>Body and Chassis</i>	<i>It changes depending on the vehicle.</i>
	<i>Berat Badan</i>	<i>Body Weight</i>	<i>5800 Kg</i>
	<i>Berat Chassis</i>	<i>Chassis Weight</i>	<i>It changes depending on the vehicle</i>




NO	PARAMETER	SPECIFICATION	
<b>1</b>	<b>General</b>		
	<i>Design</i>	The design construction and mounting of the body is to meet the Health and Safety.	 
	<i>Quality Certificate &amp; Capability</i>	Manufacturer Ayalka is currently registered with relevant registration standards for construction & welding, and is to be able to proof production and sales in case it's necessary according International DIN EN 1501 standards.	
	<i>Install</i>	The superstructure's assembly shall be realized According to the trucks superstructure installation directives. The superstructure shall be mounted with rigid connection at rear, and flexible connection in front to provide the required elasticity.	
<b>2</b>	<b>Compactor</b>	AAK 16 Ayalka brand rear loading garbage compactor.	
<b>3</b>	<b>Body</b>		
	<i>Dimensions (mm) - interior</i>	Dimensions can only be given according to truck chassis dimensions.	
	<i>Capacity (m³)</i>	16 m³ excluding hopper	
	<i>Total Weight(kg)</i>	= 5800 kg	
	<i>Roof (ceiling)</i>	High Tensile ST-52 / 3.0 mm	
	<i>Body Floor</i>	High Tensile ST-52 / 4.0 mm	
	<i>Body Sides</i>	High Tensile ST-52 3.0 mm The sidewalls shall be formed to trapezoid shape to increase the strength.	
	<i>Side Traverses (Braces)</i>	All reinforcements of body, shall be in the form "U" shaped braces and full-seam welded on the body sheets, of thickness ST-52/4.0 mm.	

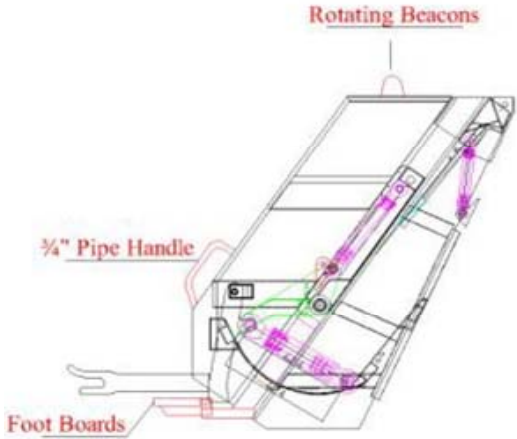
	<i>Sub Frame</i>	“U” shape full length 3 or 4 mm ST-52	
<b>4</b>	<b>Tailgate</b>		
	<i>Collecting &amp; Compacting</i>	The loose garbage inside the hopper is taken into to the body via a sweeper shovel being actuated by two double-acting hydraulic cylinders, and than after being pushed into the body by two double-acting sledge cylinders. The sledge cylinders have min. 24 tones pushing force.	
	<i>Compaction Ratio</i>	The compaction ratio (volumetric) varies between 3:1 to 6:1 according to the characteristic of the garbage.	
	<i>Lifting</i>	The tailgate raise is achieved by two double acting hydraulic cylinders, which must be equipped with safety devices to prevent the tailgate from falling abruptly in the event of hydraulic failure or hose burst.	
	<i>Hopper Capacity (m³)</i>	The loose garbage capacity of loading hopper is around 1,5 m³ with the self cleaning ability during discharge.	

<p><i>Steel Thickness (mm)</i></p>	<p>High Abrasive Resistant 6 mm steel material, which of hardness 450 HB for enduring sweeper and shovel considered necessary other parts of hopper.</p> <p>Hopper (tailgate) Floor HB 450 / 6 mm</p> <p>Hopper Sides under the rail HB 450 / 4 mm,</p> <p>Hopper Sides above the rail HB 450 / 4 mm,</p>	
<p><i>Sliding Rails</i></p>	<p>There used 50x50mm and 50x30mm steel profiles to guide compacting system. The compacting panel slides up and down over these rails thanks to a set of Kestamide wear blocks in four points.</p>	
<p><i>Locking</i></p>	<p>Hydraulic locking by means of reverse action of two hydraulic tailgate lifting cylinders, which also prevents the leakage of the wastewater when the truck bounces due to road conditions.</p>	
<p><i>Container Lifting Devices</i></p>	<p>500 kg lifting capacity to lift 1100 L. (1.1 m<sup>3</sup>) metal containers and 2 bins 240 lt.</p>	
<p><i>Loading Height (mm)</i></p>	<p>The loading height is 1100-1200 mm around, and the design lets the manual loading from hand-held containers.</p>	
<p><i>Safety Props</i></p>	<p>The tailgate is provided with safety props between the body and tailgate for safety purposes during maintenance or cleaning.</p>	



5	<b>Ejector Panel</b>	<p><i>Ejector Panel</i> There shall be a totally automatic hydraulic system to allow the panel to advance forward as garbage is packed against it.</p> <p>Material St-52 / 6mm thickness.</p>	
	<i>Rail</i>	<p>The ejector panel shall glide on a Standard NPU 120mm profile, centered by means of friction resist polyamide bases. The ejector panel shall slide forward and rear over these rails thanks to a set of Polyamide wear plates in four points.</p>	
6	<b>Sewage Tank</b>	<p>In case of there is enough and suitable space on truck chassis, Sewage tank 120 lt. under the body is made by means of body floor plate.</p>	
7	<b>Operation &amp; Control</b>		
	<i>Operation</i>	<p>The operation is fully automatic –PLC system. The operation is capable of continuous cycle, semi-automatic single cycle and manually operated. The system is controlled from the PLC control box, which enables, start, stop, 1-cycle, continuous cycles, and rescue activities.</p>	

	<p><i>Control Panel</i></p>	<p>Tailgate and ejector controls are in front of the body. All devices for loading control are mounted on tailgate right side, and all are manual control for safety purposes. Compaction is controlled electrically via push buttons, and manually in case. There is an emergency stop button each of side the truck on the control panel.</p>	
	<p><i>Comm. Buzzer</i></p>	<p>To warn or contact to the driver.</p>	
<p><b>8 Hydraulic System</b></p>			
	<p><i>P.T.O.</i></p>	<p>Controlled inside the cab, original P.T.O of the truck, or the P.T.O can be arranged by our company.</p>	
	<p><i>Working Pressure (bar)</i></p>	<p>170 bar</p>	
	<p><i>Oil Tank</i></p>	<p>125 lt. oil tank equipped with breather and gauge</p>	
	<p><i>Hydraulic Valves</i></p>	<p>Front Distributor</p>	<p>Operates the ejector panel and tailgate, mounted on front wall and on left side.</p>
		<p>Container Valve</p>	<p>Operates the container lifting device manually</p>
		<p>Sequence Valve</p>	<p>This is arranging the order of the sweeping and sledge cylinders. When the sweeping cylinder reaches to maximum pressure, then the sledge cylinders shall start to compact the garbage inside the chamber.</p>
	<p><i>Hydraulic Cylinders</i></p>	<p>9 units of hydraulic cylinders; and telescopic cylinder with 2 extensions. All the hydraulic cylinders are double-acting cylinders. The pipes on hydraulic cylinders are Italy origin. Pipes to be made of honed drawn steel pipe, and cylinder miles are grinded and chrome coated against corrosion. The dimensions of cylinders are designed to accomplish the stipulated cycle times and compaction ratio. To comply International DIN 2391 C</p>	

	<i>Hydraulic Pump</i>	PTO driven hydraulic gear pump 30 – 80 cm <sup>3</sup> / rev – max.1500 rpm.
	<i>Hydraulic Hoses</i>	All high pressure hydraulic oil hoses have a burst rating 4 times more than the specific system working pressure (SAE 100R2) The hoses in motion and has risk of friction or contact, are covered and protected by steel wire.
<b>9</b>	<b>Painting</b>	All steel parts surfaces free of rust and oil residue will be applied with two primers, and one final paint coating in color of demand. Minimum dry film thickness of the paint is 60 microns.
<b>10</b>	<b>General</b>	<p>Two steel mudguards with rubber flaps at rear ends.  1 rotating beacons light at the tailgate.  Two foldable type rear foot boards for crew to stand  One elliptical handle at each side ¾” pipe handle for the crews to grasp  The necessary traffic lights, reflectors, and warning devices shall be mounted at rear which complies to PUSPAKOM/JPJ regulations.  Electrical system is separated from the circuit of the truck  Specifications and dimensions are not binding. Manufacturer’s tolerance may apply.  Ayalka International has the spare parts and after sale service  Supplying of spare parts for super structure is guaranteed for ten years by Ayalka International</p> 

The manufacturer is ISO certified and meets International DIN EN 1501 standards

NOTE: Specifications are subjected to change with notice.