

**PESANAN BEKALAN MESIN  
SEPERTI DI LAMPIRAN  
A, B, C DAN D**

**SPESIFIKASI UNTUK**

**MEMBEKAL DAN MENGHANTAR MESIN PERINCIH (CHOPPER) KEPADA PENTERNAK BAGI PEMBANGUNAN TERNAKAN RUMINAN BESAR DAN KECIL DI NEGERI PULAU PINANG**

<b>Lokasi Penghantaran</b>	<ol style="list-style-type: none"> <li>1. Tiga (3) buah ladang di Daerah Seberang Perai Utara (3 ladang kambing) / PPVDSPU</li> <li>2. Tiga (3) buah ladang di Daerah Seberang Perai Selatan (2 ladang lembu, 1 ladang kambing) / PPVDSPTS</li> <li>3. Lima (5) buah ladang di Daerah Seberang Perai Tengah (4 ladang lembu, 1 ladang kambing) PPVDSPT</li> <li>4. Lima (5) buah ladang di Daerah Barat Daya (2 ladang lembu, 3 ladang kambing) / PPVDBD</li> <li>5. Satu (1) buah ladang di Daerah Timur Laut (1 ladang lembu) / PPVDTL</li> </ol>
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**SPESIFIKASI CHOPPER (MESIN PERINCIH)**

**Kegunaan:** - Memotong pelepah kelapa sawit, napier, batang jagung dan lain-lain

**Mempunyai ciri-ciri berikut: -**

<b>Bil</b>	<b>Perkara</b>	<b>Spesifikasi diperlukan</b>	<b>Spesifikasi Pembekal (Ya/Tidak)</b>
<b>A</b>	<b>Enjin</b>		
1.	Jenama enjin	Please specify	
2.	Model enjin	Please specify	
3.	Type	One cylinder, horizontal, 4-stroke diesel engine	
4.	Bore x stroke (mm)	88 x 90	
5.	Displacement (cc)	528	
6.	Compression ratio	20:1	
7.	Combustion chamber type	Precombustion swirl-chamber	
8.	Rated output (hp)	8.5	
9.	Max. output (hp)	9.5	
10.	Rated speed (rpm)	2400	

11.	Fuel consumption (g/hp.h)	≤ 200	
12.	Lubrication system	Forced lubrication with trochoid pump	
13.	Lub oil	SAE #40 API CF	
14.	Crankcase oil capacity (L)	2.3	
15.	Fuel	Light diesel oil (SAE No.2-D)	
16.	Fuel tank capacity (L)	Not less than 11 liter	
17.	Cooling system	Radiator	
18.	Cooling water capacity (L)	2.1	
19.	Starting method	Electric starting	
20.	Installation of engine	With 4 rubber mounting to minimize vibration	
<b>B. Mesin Perincih (Chopper)</b>			
21.	Jenama chopper	Sila nyatakan	
22.	Model chopper	Sila nyatakan	
23.	Kapasiti	1,000 – 3,000 kg/jam	
24.	Bilangan pisau	4 bilah	
25.	Jenis pisau	Pisau yang tajam dua-belah	
26.	Saiz potongan rumput	3 saiz potongan : Panjang = 30 mm Sederhana = 18 mm Pendek = 8 mm	
27.	Cara melaras saiz potongan	Saiz potongan boleh dilaras guna sistem 3-speed gear box yang di isi minyak pelincir heavy duty	
28.	Sistem inlet	Automatik “tarik-masuk” dengan 2 roller Saiz inlet boleh dilaras secara automatic	
29.	Sistem outlet	Sistem “side outlet” supaya rumput keluar lancar dan senang di kutip dalam beg	
30.	Bahan badan mesin	Badan atas dibuat dari besi tergalvani, 2mm tebal Badan bawah dibuat dari besi tergalvani, 2mm tebal Outlet dibuat dari besi tergalvani, 2mm tebal	
31.	Ciri-ciri keselamatan	Chopper inlet di tutup oleh satu saluran panjang untuk menjaga keselamatan operator	
32.	Troli mudah alih	Chopper dan injin di pasang di atas satu troli yang ada 4 biji castor wheel (6”) yang berpusing 360°	
33.	Tempoh jaminan mesin	12 bulan	
34.	Tempoh penghantaran	8 minggu	
35.	Bahan rujukan: Buku kaedah pengendalian Buku kaedah penyelenggaraan Katalog alat-alat ganti	Ada / Tidak Ada / Tidak Ada / Tidak	

Contoh gambar mesin:



**SPESIFIKASI UNTUK**

**MEMBEKAL DAN MENGHANTAR MESIN *PASTEURIZER* KEPADA PENTERNAK BAGI PEMBANGUNAN TERNAKAN RUMINAN BESAR DI NEGERI PULAU PINANG**

<b>Lokasi Penghantaran</b>	<ol style="list-style-type: none"> <li>1. Satu (1) buah ladang di Daerah Seberang Perai Selatan / PPVDSPPS</li> <li>2. Dua (2) buah ladang di Daerah Timur Laut / PPVDTL</li> </ol>
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**SPESIFIKASI MESIN PASTEURIZER**

**Kegunaan:** - Pasteurize susu lembu dan susu kambing supaya selamat di minum.

**Mempunyai ciri-ciri berikut:** -

<b>Bil</b>	<b>Perkara</b>	<b>Spesifikasi diperlukan</b>	<b>Spesifikasi Pembekal (Yes/No)</b>
<b>A</b>	<b>Milk Pasteurizer</b>		
1.	Brand	Please specify	
2.	Model	Please specify	
3.	Capacity	Not less than 50 liters	
4.	Type of milk tank	Double layer, 360° water-jacketed	
5.	Fabrication material	Machine is made of stainless steel AISI 304	
6.	Support of milk tank	Milk tank is supported by 3 pieces stainless steel pole	
7.	Insulation of milk tank	Supporting poles are insulated by rubber cushions	
8.	Process temperature range	65 °C – 95 °C	
9.	Temperature setting	Able to set at different process temperature according to process requirements	
10.	Temperature Controller	Temperature is controlled by digital controller	
11.	Electrical rating	Operated by electricity	
		4500 Watt	
		220 Volt	
		50 Hz	
12.	Stirring of milk	With built-in milk agitator for continuous stirring	
13.	Installation of agitator	Installed at bottom of milk tank, not on the cover	
14.	Operation & control	With built-in operation and control panel consists of temperature controller, ON/OFF button, and pilot light for heater & agitator	

15.	Switchboard	With wall-mounted switchboard with MCB, voltmeter, and ON/OFF pilot light for heater & agitator	
16.	Water inlet	With water filling funnel	
17.	Water discharge	With water discharge ball valve	
18.	Water level	With water level indicator	
19.	Fabrication standard	Manufactured to EU machinery directive 98/37/EC	
20.	Protection standard	IP 55 standard	
21.	Noise level	≤ 45 dB(A)	
22.	Lubrication system	Self-lubricated bearing with grease	
23.	Dimensions	800 x 800 x 1200 mm (Length x Width x Height)	
24.	Weight	30 kg	
25.	Warranty period	12 months	
26.	Delivery period	4 weeks	
27.	Accessories required: 4-inch dial-thermometer	Included	
	Milk discharge butterfly valve	Included	
	10 ft cable with safety conduit	Included	
	Operation & maintenance manual	Included	

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## SPESIFIKASI UNTUK

## MEMBEKAL DAN MENGHANTAR MESIN PERAH SUSU LEMBU KEPADA PENTERNAK BAGI PEMBANGUNAN TERNAKAN RUMINAN BESAR DI NEGERI PULAU PINANG

<b>Lokasi Penghantaran</b>	1. Satu (1) buah ladang di Daerah Seberang Perai Selatan (1 ladang lembu) / PPVDSPS  2. Dua (2) buah ladang di Daerah Timur Laut (2 ladang lembu) / PPVDTL

## SPESIFIKASI MESIN PERAH SUSU LEMBU

**Kegunaan:** - Memerah susu lembu

**Mempunyai ciri-ciri berikut:** -

Bil	Perkara	Spesifikasi diperlukan	Spesifikasi Pembekal (Yes/No)
<b>A</b>	<b>Milking Machine</b>		
1.	Brand	Please specify	
2.	Model	Please specify	
3.	Configuration	Milking 2 cows concurrently	
4.	Number of milk bucket	2 units	
5.	Size of milk bucket	30 liter/unit	
6.	Material of milk bucket	Stainless steel AISI 304	
7.	Cover of milk bucket	Transparent cover with rubber seal	
8.	Type of vacuum pump	Rotary vane, dry type	
9.	Milk claw capacity	2 units at 240 cc/unit capacity	
10.	Milk liner	3111 IGA type long liner with best neural stimulation	
11.	Type of pulsator	64/40	
12.	Milk hose	Transparent single milk hose at 25x16 mm x 2.25m	
13.	Pulse hose	Black color double pulse hose at 14 x 7 mm x 2.0 m	
14.	Vacuum distributor	30 x 24.5 mm type for comfortable breathing	
15.	Vacuum tank	1 unit. Stainless steel AISI 304	
16.	Exhaust silencer	Silencer is installed at pump outlet	
17.	Motor rating	0.55 kW	
		220 Volt	
		50 Hz	
		IP 55 standard	

18.	Material of trolley	Galvanized steel frame, not painted	
19.	Mobile assembly	Machine installed on mobile trolley with 2-wheels	
20.	Manufacturing Standard	Manufactured according to European EU machinery directive 98/37/EC standard	
21.	Noise level	$\leq 45$ dB(A)	
22.	Lubrication system	Self-lubricated bearing with grease	
23.	Dimensions	900 x 830 x 1000 mm (Length x Width x Height)	
24.	Weight	62 kg	
25.	Warranty period	12 months	
26.	Delivery period	4 weeks	
27.	Accessories required:		
	2.5-inch vacuum gauge	Included	
	Vacuum regulating valve	Included	
	ON/OFF switch with safety	Included	
	10 ft cable with 3-pin plug	Included	
	Cleaning brush	Included	
	Operation & maintenance manual	Included	

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## SPESIFIKASI UNTUK

## MEMBEKAL DAN MENGHANTAR MESIN PERAH SUSU KAMBING KEPADA PENTERNAK BAGI PEMBANGUNAN TERNAKAN RUMINAN KECIL DI NEGERI PULAU PINANG

<b>Lokasi Penghantaran</b>	1. Satu (1) buah ladang di Daerah Seberang Perai Selatan (1 ladang kambing) / PPVDSPS
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## SPESIFIKASI MESIN PERAH SUSU KAMBING

**Kegunaan:** - Memerah susu kambing.

**Mempunyai ciri-ciri berikut: -**

Bil	Perkara	Spesifikasi diperlukan	Spesifikasi Pembekal (Yes/No)
<b>A</b>	<b>Milking Machine</b>		
1.	Brand	Please specify	
2.	Model	Please specify	
3.	Configuration	Milking 2 goats concurrently	
4.	Number of milk bucket	2 units	
5.	Size of milk bucket	30 liter/unit	
6.	Material of milk bucket	Stainless steel AISI 304	
7.	Cover of milk bucket	Transparent cover with rubber seal	
8.	Type of vacuum pump	Rotary vane, dry type	
9.	Milk claw capacity	2 units at 240 cc/unit capacity	
10.	Milk liner	3111 IGA type long liner with best neural stimulation	
11.	Type of pulsator	64/40	
12.	Milk hose	Transparent single milk hose at 25x16 mm x 2.25m	
13.	Pulse hose	Black color double pulse hose at 14 x 7 mm x 2.0 m	
14.	Vacuum distributor	30 x 24.5 mm type for comfortable breathing	
15.	Vacuum tank	1 unit. Stainless steel AISI 304	
16.	Exhaust silencer	Silencer is installed at pump outlet	
17.	Motor rating	0.55 kW 220 Volt 50 Hz IP 55 standard	
18.	Material of trolley	Galvanized steel frame, not painted	
19.	Mobile assembly	Machine installed on mobile trolley with 2-wheels	
20.	Manufacturing Standard	Manufactured according to European EU machinery directive 98/37/EC standard	



21.	Noise level	≤ 45 dB(A)	
22.	Lubrication system	Self-lubricated bearing with grease	
23.	Dimensions	900 x 830 x 1000 mm (Length x Width x Height)	
24.	Weight	62 kg	
25.	Warranty period	12 months	
26.	Delivery period	4 weeks	
27.	Accessories required:		
	2.5-inch vacuum gauge	Included	
	Vacuum regulating valve	Included	
	ON/OFF switch with safety	Included	
	10 ft cable with 3-pin plug	Included	
	Cleaning brush	Included	
	Operation & maintenance manual	Included	

Contoh gambar mesin:

