

Agricultural Implements Pictures & Specifications

Disc plough

Used for deep ploughing in root-infested, sticky, stony & hard soils. Mixes remains of crops and weeds throughout the depth of ploughing. Hence ideal for rain-fed areas for checking soil erosion by water and wind.

- Spring loaded floating rear furrow wheel controls the side draft to ensure straight work and ease of handling by smaller tractor.
- Re-greasable taper roller bearings in disc hubs.
- Disc angle adjustable to vary the penetration with varying soil conditions.
- Cat I & II linkage.
- Disc scrapers are adjustable to ensure that the disc remain clean in all conditions.

Specifications;

- Frame type Tabular Seamless steel pipe
- Number of furrow 2, 2+1, 3, 3+1
- Furrow width 254mm
- Max. working depth 300mm
- Longitudinal clearance 522mm
- Furrow wheel dia 508mm
- Plain discs 660mm-inside or outside bevel Taper roller
- Tractor Compatibility 50-85Hp
- Bearings Taper roller
- Weight 360 kg (3 furrow)
- Also available in 2,3



4 disk plough.



2 disc plough

3 disc plough

Chisel plough

The chisel plough is primary tillage deep plough, working up to 20” to ensure development of crop root system at proper depth and environment. It is ideal implement where top soil is fertile but subsoil is not productive. The chisel plough increases natural fertility of soil as deep tillage provides enough circulation of air, moisture and sunlight into soil.

For full penetration in the first pass, a 50-85 Hp tractor would be required. A medium (50Hp) tractor will plough 12” in the first pass and full 20” depth will be attained in the second pass.

With only one central tine fitted, it can work as a subsoiler and up to maximum depth for breaking of hard pan even with 50 hp tractors. Yield per acre can be increased considerably by deep ploughing for wheat, cotton, and sugar cane crops. Best fruit orchards growth is ensured by deep tillage before tree plantation. In rain-fed areas, the chisel plough is an ideal implement because without disturbing top soil, it shatters the subsoil portion of land, maintaining moisture contents for longer periods and safe guarding against water and wind erosion of top soils.

Specifications:

- Heavy steel box V-type frame without any nut and bolt.
- Three easily replaceable tines designed to penetrate up to 20” without much effort.
- Shovels easily replaceable.
- Working width 1.20 meters.
- Tractor compatibility 50-85 Hp.



AECO-1010
CHISEL PLOUGH

Mould board plough

The most important plough for primary tillage in canal irrigated or heavy rain areas where too much weeds grow. The objective for ploughing with a mould board is to completely invert and pulverize the soil, up-root all weeds, trash and crop residues and bury them under soil.

The shape of mould board is designed to cut down the soil and invert it to right side completely burying the undesired growth which is subsequently turned into manure after decomposition.

Specifications:

• Models	MT202(M)	MT202 (H)
• Max. depth	22cms	25cms
• Working Width	85cms	90cms
• Tractor compatibility	35-55 Hp	60 plus Hp
• Linkage category	I	II



AECO-1005
MOULD BOARD PLOUGH

Tine tiller

- Ideal for general cultivating, weeding, pasture renovating and preparing seed beds.
- The tiller is available in 4 widths: 9, 11, 13 & 15 tines. The tiller is fully mounted on the tractor by means of category I or II three point hitch pins.
- The spring loaded tines swing back under break-away pressure of 163 Kg; pass over the obstruction and return to the working position without affecting the working depth of the implement.
- The continual flexing action of the tines shatters the soil breaking up the clods.
- The tiller is fitted with 51mm reversible shovels which are designed for deep penetration.
- A working depth up to 229 mm is possible in most soils and is simply controlled while sitting on the tractor seat.

Specifications;

• Number of tines	9	11	13
• Linkage category	I	1 & II	1 & II
• Frame	round steel Torsion tube	round steel Torsion tube	round steel Torsion tubes
• Overall width	2180mm	2900mm	2900mm
• Overall length	813mm	813mm	813mm
• Tine spacing	178mm 229mm	229mm 254mm	229mm 254mm
• Overall height	1.02m	1.02m	1.02m
• Cultivating width	1880mm	2590mm	2790mm
• Max. working depth	229mm	229mm	229mm
• Weight settings	209kgs	236kgs	266kgs
• Type of tines shovels	spring loaded -51 mm reversible point		
• Tractor capability	25-36Hp	35-55Hp	60-85Hp

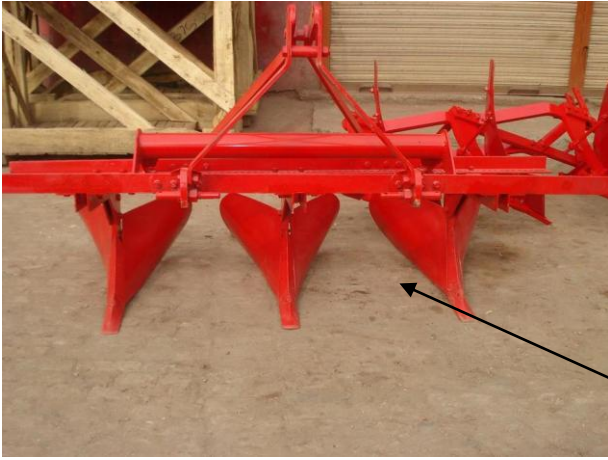


Ridger

Used for making ridges for planting tobacco, potato and other vegetables. The ridger is fully adjustable for giving different accurate row width. To obtain the correct ridge profile and retain soil flow, the high grade mould boards are adjustable. The ridger can also be used for earthing up the crops sown in rows.

Specifications:

- Max. Row spacing 711m(decreasing in increments of 25mm)
- Clearance (under Frame) 550m
- Tractor Compatibility 45-85 Hp
- Depth 1,050mm
- Weight 145Kg



3 furrow Ridger



4 disc ridger

Post Hole Digger

- Post Hole digger is a PTO driven machine that digs holes in rows on equal distances mechanically and economically.
- It is best suited for tree Plantation.
- It also can be used for hole making for electric poles and farm hedges.
- 90cm deep hole even diameter in just 30 seconds.
- By detaching augers, it can be used as a small crane.

It can dig about

- Augers Size 9" & 18"
- Hole depth 90cm (36")
- Weight 164 Kg with 9" augers
187 Kg with 18" augers
- Tractor compatibility 50-85 Hp



Offset disc harrow

The offset disc harrow has a heavier weight per Disc and thus has the penetration ability to break down large clods normally left after disc ploughing or chisel ploughing in hard grounds. It is of robust construction, used as mounted or trailed and ideal for chopping and mixing of stubbles and crop residues in the soils.

The disc harrow prepares the seed-bed leaving the soil in granular form which is the most suitable structure for plant growth. It aerates the soil, helps to conserve moisture for longer periods and eradicate weeds. In sandy loam soils, this implement can also be used as primary tillage implement. The depth of ploughing is regulated simply by manipulating the offset angles of the gauges. By removing simply a pin, the mounted position can be converted into trailed position and vice versa.

Specifications:

- No. of Discs 10,12,14,16,18,20,22 Disk

Material Specifications:

- Disc Harrow Frame width 126mm
- Disc Harrow Frame Thickness 5.5mm
- Shape of Frame would be] [like this.
- Seals used proper material. Checked in diesel, petrol, heat, 60 degree, -05 degree.
- Nuts & Bolts (material) SAE1030
- Discs material 19CN5, Edges properly heat treatment
- Furrow thickness 10mm , Edges properly heat treatment



Mounted tandem Disc Harrow

Specifications;

- Light series
- Discs are available in 52.2 X 4.56.48 mm sizes
- Set in four gangs: two front gangs with scalloped discs, two rear gangs with plain discs.
- Adjustable gang angling.
- Bell bearings assembled on self aligning triple-ply sealed supports.
- Working depth adjustable from tractor seat.
- Adjustable distance of scrapers from the discs.
- Three point hitch.



Farm agricultural Trailer

Farm trailer provides cost effective means of farm transportation. All steel body robust construction trailers provide a selection of sizes from 5 ton – 12 ton.

Specifications;

• Tractor capability	25-30 HP	40-50HP	60-85HP
• Size	7.5'*x5'*x1.5'	11'x6.5'x2.25'	11'x7'x2.25'
• Bed sheet Gauge	SWG 12	SWG 12	SWG 12
• Side sheet Gauge	SWG 12	SWG 12	SWG 12
• Axle size	4-1/2" x 3/8"	4-1/2" X 3/8"	4-1/2" x 3/8"
• Frame channel size	7" x 3"	7" x 3"	7" x 3"
• Tyre size	7.50-10	9.00-16 or 8.25-20	8.25-20
• No of tyres	2	2	4
• Weight(Without load)	700Kg	1000Kg	1400Kg
• Lift capacity	3-1/2 ton	5ton	8ton



Hydraulic tipping trailer

Description	spec A	spec B	spec C
• Type	Hyd. Tipping	Hyd. Tipping	Hyd. Tipping
• Capacity	4 ton	5 ton	8-10 ton
• Vessel Size	10' x 6.5' x 2'	11' x 6.5' x 2'	12' x 7' x 2'
• Floor	MS Sheet SWG 10		
• Side wall	MS Sheet SWG 12		
• Chassis Frame			
Lower channel	8' x 3'	8' x 3'	10' x 3'
Upper channel	6' x 3'	6' x 3'	6' x 3'
• Axle size			
○ Length	52"	52"	56"
○ Outer dia	5"	5.5"	6"
○ Wall thickness	3/8"	3/8"	3/8"
• Rims			
○ Qty	2	2	4
○ Size	8.25-20	8.25-20	8.25-20
• Tipping Device	double acting heavy duty locally made Ram with mechanical linkage.		
• Tipping angle	55 Degrees		
• Maximum Lifting	10 second at 1500-1789rpm of tractor engine to its full Time height in empty conditions.		



Seed drill

Used for sowing cereal crops like wheat, Barley, rice etc. in rows and at uniform depth. Tractor mounted versions for easy transport are available in 11, 13 and 15 row versions with or without fertilizer attachments. Kits for sowing acid-delinted cotton seed, corn, sun-flower, grams, rape seed are also available for use with drills.

Seed / fertilizer metering system are driven by of the machine ground wheels fitted with machine or as an option inside/rear side.

Specifications:

• Number of rows	9	11	13	15
• Row spacing(adjustable)	4"-6"	→	→	→
• Depth of sowing (adjustable)	0"-6"	→	→	→
• Seed Metering	Fluted	→	→	→
• Mechanism	Wheel(Plastic)	→	→	→
• Seed Rate	Adjustable	→	→	→
• Seed Hopper Capacity	80 liter.	→		100 liter. →
• Furrow openers	Single shoe	→	→	→
• Field Capacity(acres/Hrs)	4	5	6	7
• Tractor compatibility(HP)	30-45	45-55	50-60	60-85



Zero Tillage seed drill

It is a direct sowing system in which the crop is directly planted into the previous crops stubbles with minimum soil disturbance. This drill is specially designed for direct sowing of wheat , maize, mustard, grams pea etc. After harvesting of paddy, the tines are designed so to to make efficient use of tractor power,. This zero tillage seed drill saves time, fuel and irrigation expenses. Depth of seed sowing is controlled by the two front wheels. It does minimum tillage of the field and thus increased the yield. It is available in different sizes.

Standard specifications are as follows;

- Tractor Hp required 50-75 Hp
- Total width 1.54 m
- Total Height 1.22 m
- Total weight 580 kg
- Volume of seed box 0.12 cubic m
- Volume of fertilizer box 0.125 cubic m
- Sowing width 1.8 m
- inter row distance 15 cm
- Number of rows 11
- working capacity Approx. 1 Acre / hr

Zero tillage seed drill without fertilizer attachment



Zero tillage seed drill with wheel



Planter with fertilizer attachment

It is operated after preparing the field for sowing wheat (special) , cereals & other crops. Its tines are designed so to make efficient use of tractor power. It has two boxes, one for seed and other for fertilizer. It is also available in 9 , 11, 13 & 22 tines.



Fertilizer Broad caster

It is operated by PTO Shaft of tractor and through three point linkage system. It is used to spread the fertilizer and seed in the field. It spreads evenly and control the quantity according to the requirement without any wastage fertilizer and seed is putted in the box. It works 20-25 feet away on field.



AECO-1018
FERTILIZER BROADCASTER

Potato Planter

- Weight 500 Kg
- Number of conveyor 02
- Tractor Driven 40-75 Hp
- Seeding Capacity 600 Kg / Hr
- Height 6 ft 5 Inch
- Width 5 ft 5 Inch
- Length 6 ft 7 Inch



Potato Digger

Potato digger with rear un-loading that can be mounted on tractors equipped with three point linkage and Power takeoff (PTO).

The machine is built in the working dimensions of cm70 for single row, cm 130 and 150 for two rows.

The main points that allow a good operation on any planes or hills are;

- Digging plowshare made up of more interchangeable blades and 2 lateral grass-cutting discs.
- Protection and clogging kit made up of a transversal moving comb, located between the plowshare and the conveyor band that eases the earth introduction on the band, and of two mobile cleaners that prevent the weed-cutting discs and the conveyor band from clogging.
- Conveyor Band made up of two steel rods and supported by rubber rollers with bearings. Rear vibrating sieve that allows a better separation of potatoes from the earth.



Front Blade

The power dozers are designed and built to match the performance of the Massey Ferguson tractors. They are operated hydraulically by single or twin double acting rams. The points of the attachment of the dozers to the tractor are reduced to an absolute minimum and the mounting brackets, once fitted, can be left in position enabling the sub-frame and blade to be quickly removed and attached. The blade is fitted with a reversible and replaceable cutting edge of high carbon steel.

Specifications;

- Power dozer to fit blade 50-85 Hp
- Cutting edge 152mm (6") X 12.7mm (1/2") section high
Carbon/alloy steel reversible &
replaceable.
- Hydraulic Ram Heavy Duty, Double acting
- Control Valve Open centre double acting spool valve
- Blade movement 102mm (4").
Max. Lift 533mm (21"). Max. Depth below ground.



AECO-1028
FRONT BLADE

Multipurpose rear Blade

Land leveling, yard cleaning, farm road grading, snow cleaning, ditching and terracing, backfilling, and earth moving: these are some of the many jobs that you can do with this versatile tool.

- With the grader wheel installed, Hyd.position control holds the blade at the chosen depth for the fine leveling.
- Angle and pitch of blade adjustable from tractor seat.
- Blade pitch is adjustable from 0 to 40 Degree by the screw lever in reach of the tractor seat.
- The blade can be completely reversed for back filling.
- For access to awkward place, it can be offset to either side.
- An alternative hitch pin for the right hand lower link allows the blade to be tilted for digging ditches or irrigation channels.

Specifications;

- Mounting Category I, Three point linkage
- Construction Entirely steel frame, reversible light carbon
Steel Cutting edge.
- Blade angle Adjustable 0–70 degree in two increments to either Side & similarly with
blade facing Rearward.
- Blade pitch Adjustable from 0-40 degree
- Blade width 7 ft.
- Overall length 5ft.(with grader wheel)
- Weight 170 Kg.
- Accessories Grader wheel kit
- Tractor Compatibility 35-85 Hp



Front Bucket agricultural loader

A multipurpose rugged & powerful machine which can be quickly attached/detached to the front of tractors for handling/loading stone/brick crush, garbage, sand, grains, wood logs etc. into a truck or trailer.

Specifications;

• Tractor compatibility	75-85Hp	50-65Hp
• Bucket type with digging teeth	closed earth bucket	
• Bucker volume	1 cubic meter	0.5 cubic meter
• Lifting time	3-6 seconds	
• Max. Lift Capacity	1000 kg	750kg.
• Operation	Hydraulic	Hydraulic
• Lift height at pivot point	(10'-6") 3 meter	(9'-6") 2.9m
• Lift ram	2, Double acting	
• Bucket Ram	Single, Double acting	



Boom sprayer

- Tractor compatibility 50-85 Hp 1- Tractor mounted
- Chemical tank: Chemical resistant (Plastic, Fiber glass, or stainless steel,)
- Chemical tank capacity (L): 600
- No. of nozzles: 20
- Nozzles type: Hardened thermoplastic or chemical
- Resistant metal
- Pump Type: Plongeur type
- Pump discharge: Not less than 50 lt/min
- Pump pressure: low: zero, High: 20 - 40 bar
- Pump operation: 540 rpm
- Boom: H. D, spring loaded 8 m or more
- Std features: Pressure regulator, Pressure gauge, Filters,



Blower sprayer

- Tank Fiberglass, capacity 500 Lt
- Fan Diameter 700MM / 800MM
- Fan Rotation 1600 rpm
- Air Speed 100 Km/H
- Number of Nozzles 14/16
- Pump Medium & High Pressure
- Diaphragm & Plongeur 50 L/M to 100 L/M
- Pressure 20/40 Bar
- Separate control units for pumps hollow cone spray tips



Rotavator

Rotavator is basically used for land preparation in the agriculture fields. That is after harvesting of every crop, the land has to be sowed for the next crop to be planted. Rotavator is must to every farmer in order to save fuel cost, time and energy. It can be used in wet and dry land. It is an ideal implement for up rooting the sugarcane stubbles and rice stubbles. Chops and mixes the roots into the soil and make it as manure to the soil.



Rotavator

Inter Row Cultivator



Sun Flower thresher

Sun Flower Thresher Machine Specification

Power Source	27-70 Hp Tractor
Threshing Capacity	750-1000 kg/hr (Average)
No Of Blowers	One
Hitching	One Hock
No of Sieves	3 Min
Provision For Adjustment	A. Thresher Drum Clearance B. Air Blow Rate C. Bhoosa Discharge Rate D. Sives Adjustment
Over All Length	51 inch
Over All Height	63 inch
Over All Width	59 inch

Sun Flower Thresher Material Specification

Main Frame	M.s. Angle Bar
Threshing Drum	Iron Sheet & M.s.Round Bar
Shaft	M.s. steel
Other Material	M.s. Round & Stripe Bar, Tyres
Belt	V Belts

Wheat thresher

Machine Specifications	
Power Source	40-75 Hp Tractor
Shelling Capacity	1000 Kg/Hr. (Average)
No. of Blowers	One
Syndicator size	54”
Number Of weight	Three
Type	Tractor Hitch Type
Driven	PTO Shaft driven
Over all Length	103 Inch
Overall Height	78 Inch
Overall Width	66 Inch
Tyre Size	6.00 – 16(6pr)
Total weight	1680 Kg
Material Specifications	
Main Frame	M.S. Angle Bar & Channel Bar
Shelling Drum	Iron Sheet & M.s.Round Bar
Shaft	M.S. Steel
Number of Pullys	6
Material of Pully	Cast iron (Grade 17)

Other materials	M.S. Round & Stripe Bar, Type
Belts	V-Belts



WHEAT THRESHER

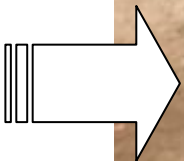
Soya bean thresher

Machine Specifications	
Power Source	40-75 Hp Tractor
Shelling Capacity	800 Kg/Hr. (Average)
No. of Blowers	One
Syndicator size	54”
Number Of weight	Three
Type	Tractor Hitch Type
Driven	PTO Shaft driven
Over all Length	115 Inch
Overall Height	79 Inch
Overall Width	66 Inch
Tyre Size	6.00 – 16(6pr)
Total weight	1800 Kg
Material Specifications	
Main Frame	M.S. Angle Bar & Channel Bar
Shelling Drum	Iron Sheet & M.s.Round Bar
Shaft	M.S. Steel
Number of Pulleys	6
Material of Pulley	Cast iron (Grade 17)

Other materials	M.S. Round & Stripe Bar, Type
Belts	V-Belts

- **Rice thresher Specifications;**

- WORKING WIDTH 6 FEET
- PER TON CAPACITY 3.5 TON FOR THIN RICE
- PER TON CAPACITY 4.5 TON FOR THICK RICE
- V BELT
- LENGTH 10 FEET APPROX.
- WIDTH 6 FEET APPROX.
- WEIGHT 1800 KG APPROX.
- TWO WHEEL
- DRIVE WITH PTO SHAFT



Rice thresher

Ground Nut thresher

Machine Specifications	
Power Source	40-75 Hp Tractor
Shelling Capacity	1000 Kg / Hour
No. of Blowers	One
Syndicator Size	22"
Rooter Size	77"
Dia of Rooter	16"
Dia of Shaft	29"
Angle Bar	3.5"
Stainer Size	108" X 48"
Blower	One
Type	Tractor Hitch Type
Driven	PTO Shaft driven
Over all Length	9 feet
Overall Height	6 feet
Overall Width	4 feet
Tyre Size	6.00 – 16(6pr)
Total weight	225 Kg

Material Specifications

Main Frame	M.S. Angle Bar & Channel Bar
Shelling Drum	Iron Sheet & M.s.Round Bar
Shaft	M.S. Steel
Other materials	M.S. Round & Stripe Bar, Type
Belts	V-Belts

Corn Sheller &Maize Sheller**Machine Specifications**

Power Source	30-70 Hp Tractor
Shelling Capacity	1500-1600 Kg/Hr. (Average)
No. of Blowers	One
Type	Tractor Hydraulic Mounted
Driven	PTO Shaft driven
Over all Length	51 Inch
Overall Height	63 Inch
Overall Width	59 Inch

Material Specifications

Main Frame	M.S. Angle Bar & Channel Bar
Shelling Drum	Iron Sheet & M.s.Round Bar

Shaft	M.S. Steel
Other materials	M.S. Round & Stripe Bar, Type
Belts	V-Belts



Adjustable Pintle Hook

Ideal Gadget for towing any type of Farm Trailer, by attaching it to the tractor at rear.

Specifications;

- Tractor Suitability 50-85 Hp



SimpleTractor hook

Swinging draw bar (Normal duty)

Ideal Gadget for towing any type of farm load including trailed implements, by attaching it to a tractor under centre axle housing.

Can be fitted to 50-85Hp, 2wd/4wd tractors. The swinging draw bar conforms with British Standard having Clevis hitch point at 36mm (14 inch) from PTO shaft.

The Maximum static load for the draw bar is 771 kg (1700Lb) with draw bar in the outer position and 998 Kg (2200Lb) in the inner position.

The draw bar height is adjustable in relation to the PTO Centre line.



AECO-1012
SWINGING DRAW BAR
(NORMAL DUTTY)

Sub Slyer

Specifications;

- Linkage Category $\frac{1}{2}$
- Frame heavy duty steel channel
- Width of Hal 31"(78cm)
- Height of Hal 49.5"(126cm)
- Length of Hal 30"(76cm)
- Number of blade 1
- Weight 110kg
- Working depth 21"(53cm)



AECO-1002
SUB SYLIER

Jib Crane

There are many jobs around the farm that often involve back breaking work and much effort jobs like loading and unloading large drums of fuel, feed, seeds, fertilizers bags, building materials, machinery and similar chores.

The Jib Crane provides the answer to all these problems and they can all be handled with a minimum effort from the seat of your tractor.

Ruggedly constructed from tabular steel, the crane is capable of lifting a load up to 500 kg. The goose-neck design makes it particularly handy for loading and unloading trucks and trailers.

Used almost daily on any farm.

Simple- One minute attachment

It is recommended that the stabilizer bar chain be used if transporting over rough ground. Height of lift is adjustable.

Specifications;

- Lift Capacity Up to 500 kgs(Depending upon tractor HP)
- Weight (approx.) 70 Kg's
- Height of lift 3 m
- Overall length 2.54 m
- Tractor Compatibility 45-85Hp
- Hitch Pin Cat-II



Ditcher

Specifications;

- Wing Length 24"(61cm) + deflector wings
- Cutting point Hardened steel / replaceable
- Ditch size 27" X 60 "
- Weight 150 Kg.



AECO-1033
DITCHER

Slasher Features:

1. Designed for fast application to any type of 50-80 Hp tractor with three point linkage
2. A special machine for mowing grass on lawns or field.
3. Tractor driven suitable for P.T.O 540 rpm
4. Rotary Slasher and grass slasher having reversible steel blades for cutting wild grass, shrubs, weeds, sugar cane stacks, etc
5. Cutting width: approximately 5 feet or 6 feet
6. Height Adjustment: 1" – 8"

Specifications;

Sr. #	Description	5 feet	6 feet
1	Bear Box	Single speed 540 rpm	Single speed 540 rpm
2	Sheet thickness	5mm	5mm
3	Three point Linkage	Three point Linkage	Three point Linkage
4	Wheel	1	1
5	Depth Control	1" – 8"	1" – 8"
6	Blade	Boron steel	Boron steel
7	P.T.O	With Shear Bolt	With Shear Bolt
8	Length	40 "	40"
9	Width	60"	72"
10	Cutting Width	58"	70"
11	Weight	330Kg (approx)	412 Kg(approx.)

