



UNIVERSAL
Steel Disc Pvt. Ltd.

PRODUCTS MANUAL



NOTCHED DISC

DESCRIPTION



- Notched blades are highly efficient because of their greater dynamics, hence are able to penetrate the layers of soil. They have a greater weight per inch of circumference between different blade notches. They help to perform more work in less time and are suited for residue management. We offer a full line of Plain blades in grades of Boron steel sizes and concavities as per your tillage requirement.

SPECIFICATION

	DIA(MM)	THK(MM)	CONCAVITY (MM)	NO OF NOTCHES	NOTCHED W/O SHAVING (MM)	SHAVING	NOTCHED SIZE (MM)
A	a		B				DXE
12	330.2	3.0	25	7		YES	73x33
13	304.8	3.0	25	7		YES	73.33
14	355.6	3.0, 5.0	31,38	9		YES	73.33
16	406.4	3.0, 5.0	28,35,38,54	9		YES	76X40
18	457.2	3.0 to 6.35	44,56,67	9		YES	80X40
20	508	3.0 to 6.35	57,60,69,84	10		YES	80X45
22	558.8	4.0 to 6.35	63,70,74,78,86	10		YES	80X40
24	609.6	4.0 to 8.0	68,76,83,88,95	10		YES	80X40
26	660.4	5.0 to 10.0	57,70,77,89,98,104,109	10		YES	90X50
28	711.2	6.0 to 10.0	74,95,109	10		YES	90X50
30	762	6.0 to 8.0	86,112	10		YES	90X50

CONICAL DISC



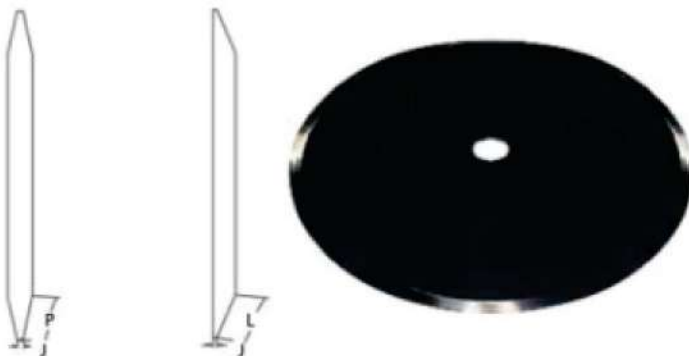
DESCRIPTION

- We manufacture Conical Disc Blades which mix well with the upper and inner layers of soil and take out the deep buried nutrients at the surface. To meet different demands, we offer these Conical Disc Blades in varied dimensions like accurate dimension, Resistance to corrosion, Optimum functioning and long lasting performance.

SPECIFICATION

Type	A	Thickness	Concavity B	C	No Of Notches & Size
	MM	MM	MM	MM	
Conical	508	5 to 8	80	180	As Per Client Requirement
Conical	560	5 to 8	92	180	As Per Client Requirement
Conical	660	5 to 8	98	210	As Per Client Requirement
Conical	660	6 to 8	110	210	As Per Client Requirement
Conical	610	6 to 8	110	265	As Per Client Requirement

FLAT DISC BLADES



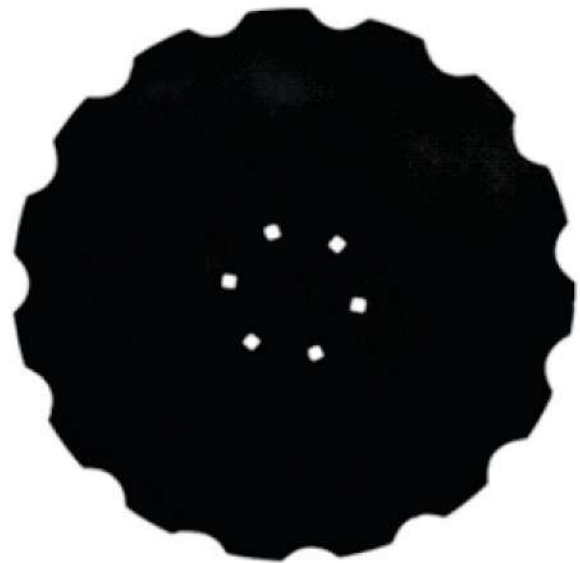
DESCRIPTION

- Flat Disc Blades mix the upper and inner layers of soil. This makes the soil fertile and increases its productive value. These blades are compact in their designs and are light weighted. We offer a full line of flat disc blades which are non corrosive and can be customized as per your tillage requirement.

SPECIFICATION

Type	Diameter	Thickness	L	P	J
	MM	MM			
Flat Disc Blades	356 to 559	4 to 6	As per client requirement		
Flat Disc Blades	610 to 660	5 to 7	As per client requirement		

CENTER LESS DISC



SPECIFICATION

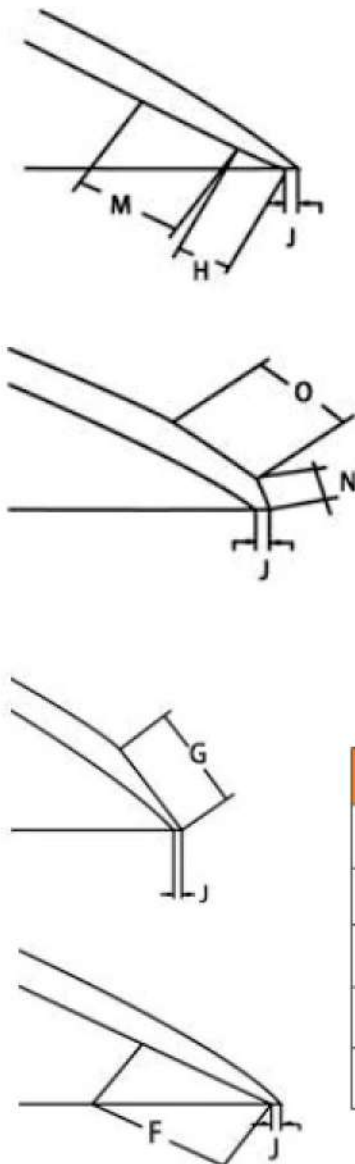
Type	A	Thickness	Concavity	C	K	No. of Notches	E	D	Shaving
	MM	MM	MM	MM		MM	MM	MM	Degree
Notched Centre less Dome	516	4 to 6	26	171		15	15	55	45
Notched Centre less Dome	516	4 to 6	30	171		15	15	55	45
Centre less	610	4 to 6	83	83	21				
Notched Centre less Disc	510	3.5	48.2			11			45
Notched Centre less Disc	510	4.5	47.2			11			45
Notched Centre less Disc	560	4.5	54.5			11			45

BEVEL

DESCRIPTION

- Bevels are extremely sharp agricultural tools, that have a tendency to easily enter and cut the soil and those that have difficulty entering the soil and are dull. The important factor about a bevel is its size and shape that plays a major role in the development of agricultural products. Bevels are developed for specific soil conditions and types. We manufacture bevels based on geographic and climatic conditions and customer requirements.






STANDARD BEVEL CHART B1



THICKNESS	BEVEL length		LAND
	INNER	OUTER	
MM			MM
	FG		J
3	8		0.8
3.5	9		0.8
4	1010		1
4.5	1010		1
5	1111		1.2
3	1313		1.2
7	1414		1.2
8	16		1.2
10	19		1.5

DISC SIZE	THICKNESS	CONC	BEVEL		LAND
			INNER	OUTER	
INCHES	MM		H+M	N+O	J
26	5	89	5+15		1.3
26	5	109		7+18	1.2
20	6	45		8+6	1.3

HOLES

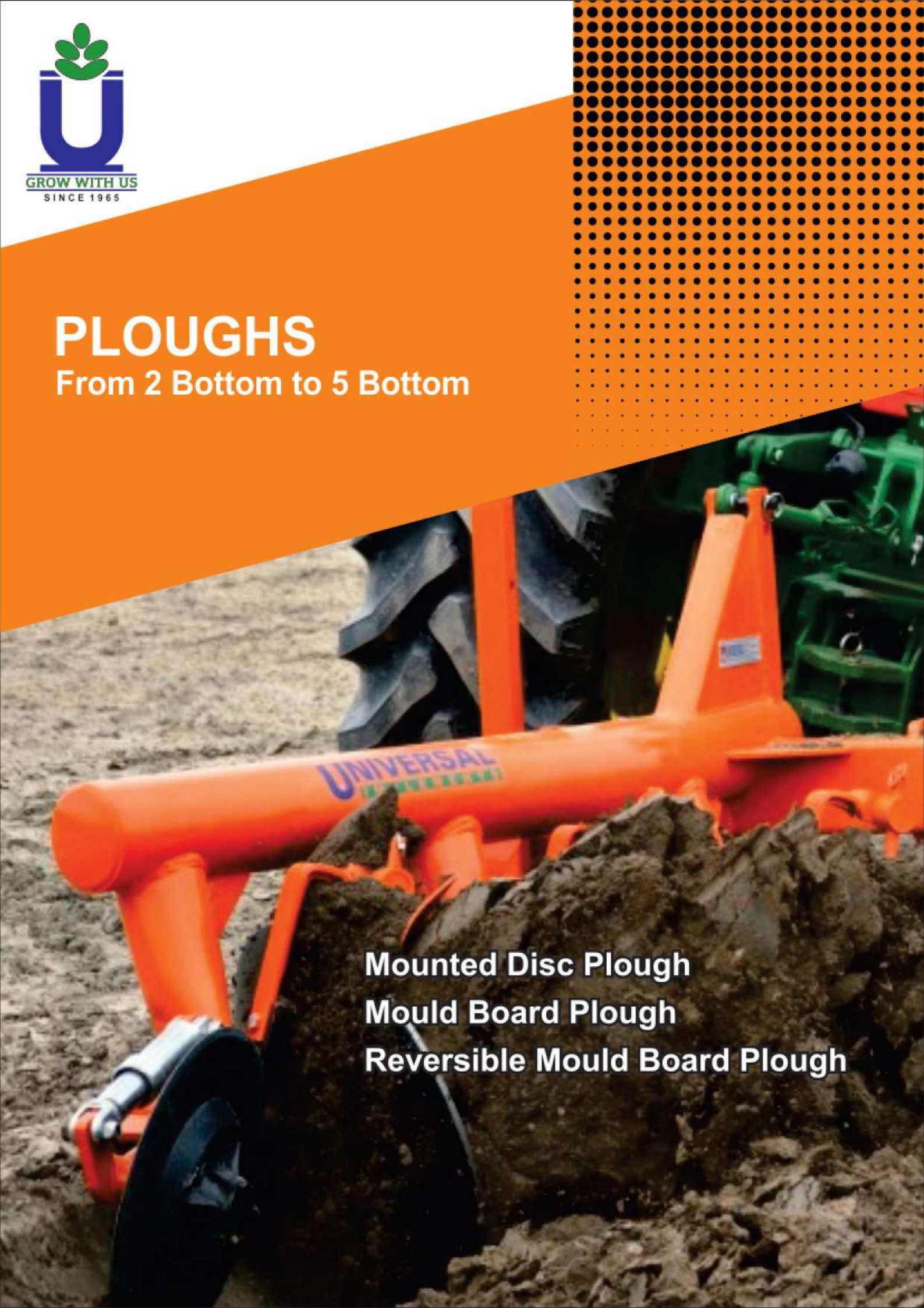
CENTER HOLE TYPE	SHAPE
RECTANGULAR CLOVER LEAF	
ROUND SQUARE CLOVER LEAF	
DUAL SQUARE	
DUAL SQUARE CLOVER LEAF	
KEY HOLE	

* We can provide any type of center hole as per party requirement

CENTER HOLE TYPE	SHAPE
ROUND	
SQUARE	
SQUARE ROUND	
SQUARE CLOVER LEAF	
HEXAGONAL CLOVER LEAF	
HEXAGONAL	

PLOUGHS

From 2 Bottom to 5 Bottom



**Mounted Disc Plough
Mould Board Plough
Reversible Mould Board Plough**

PLOUGHS

Plough : Mounted Disc Plough



Features & Benefits

- Universal Disc Ploughs are well designed to work in all types of soils & can be used easily in hard soils & in rocky & rooted areas.
- Universal Disc Ploughs can handle the toughest ploughing jobs with ease.
- Compatible with a variety of tractors.
- An adjustable and spring-loaded furrow wheel/coulter disc takes care of the side draft and makes sure that the implement moves smoothly.
- Available with the option of high quality Universal Boron steel discs that last much longer than regular steel discs.
- Heavy duty pipe frame with high ground clearance makes it easy for the plough to work in fields with a lot of crop residue.
- Especially useful in hard and dry trashy land, stony soil conditions and in soils where scouring is a major problem.
- Highly adjustable disc penetration & disc position angle for use in tough and soft soil.
- Available in 2, 3, 4 & 5 bottom configurations.

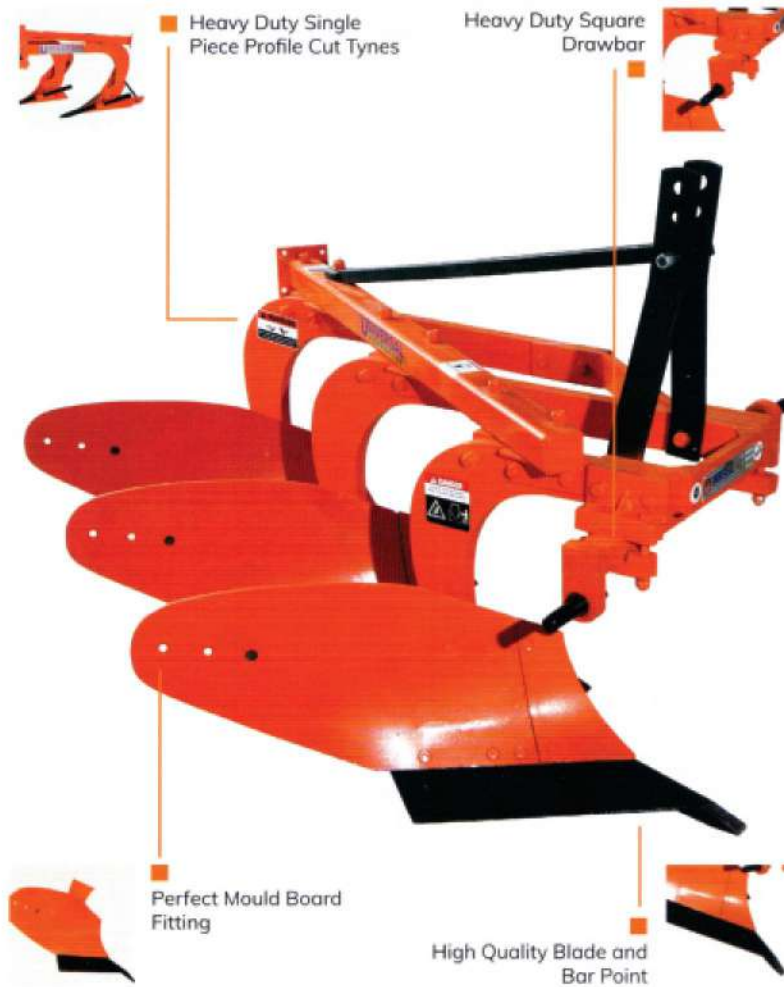
Product Specifications

DESCRIPTION	USD-2	USD-3	USD-4	USD-5
	BEMDP-2	BEMDP-3	BEMDP-4	BEMDP-5
FRAME (mm)	Tubular Frame (Seamless Pipe O.D. 168) (12-14 Thickness)			
AXLE TYPE	Forged spindle CNC Machined			
NO. OF DISC	2	3	4	5
TYPE OF DISC / BLADE	Boron steel & High carbon steel			
DISC DIAMETER (mm)	610, 660, 710mm & thickness 4-8mm			
DISC SPACING (mm)	570mm (23" Approx)			
BEARING HUBS	2	3	4	5
MOUNTED CATEGORY	Cat-II			
WIDTH OF CUT (mm - Approx)	500~550	875~925	1150~1200	1575~1625
WEIGHT (Kg. Approx)	310	415	510	620
TRACTOR POWER (HP)	50~60	65~80	85~100	105~125

*The weight and working data contained here are supplied for information only and are not binding. Specification and size can be altered as part of ongoing product modification / improvement.

PLOUGHS

Mounted Board Plough



Features & Benefits

- Universal Mould Board Ploughs are designed to work in all types of soils and can be used easily in hard soils and in rocky and rooted areas.
- Universal MB Ploughs can handle the toughest ploughing jobs with ease.
- Compatible with a variety of tractors.
- Equipped with special wear-resistant alloy steel blades and bar points.
- The high quality bar points can be moved in their slot for complete utilization.
- Heavy duty frame with high ground clearance makes it easy for the plough to work in fields with a lot of crop residue
- Mould Board extension can be provided for a better control of slice when heavy ploughing load.
- Available in 2,3 and 4 bottom configurations

Product Specifications

DESCRIPTION	BEMBP-2	BEMBP-3	BEMBP-4
FRAME (mm)	72X72X6 Square tube/80X80X6 Square tube		
TYNES	Fabricated One Piece 36 / 40mm (Optional)		
NO. OF TYNES & FURROW	2	3	4
BAR POINT	Boron Steel 32mm Solid Square		
MOULD BOARD	8 mm		
3-POINT LINKAGE / CATEGORY	CAT-I & CAT-II		
LENGTH (mm - Approx)	1320	1880	2440
HEIGHT (mm - Approx)	1160		
WEIGHT (mm - Approx)	1110	1270	1430
WIDTH OF CUT (mm - Approx)	610	910	1210
WEIGHT (Kg. Approx)	225	340	350
TRACTOR POWER (HP)	35~50	50~75	75~90

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CULTIVATORS

Complete Range of Cultivators



Extra Heavy Duty Spring Loaded Cultivator
Bharat Spring Loaded Cultivator
Universal Spring Loaded Cultivator
Heavy Duty Rigid Cultivator
Medium Duty Rigid Cultivator

CULTIVATORS

Extra Heavy Duty Spring Loaded Cultivator



Features & Benefits

- UNIVERSAL Extra heavy duty spring loaded tiller is designed for toughest tillage operations.
- It is suitable for use in stone and root obstructed soil.
- Loosens and aerates the soil to a depth of upto nine inches.
- When one tine strikes a buried object, the others continue to work at the correct depth.
- Spring Loaded Tine Assemblies derive their strength from heavy duty angles, which once fixed to the immensely strong main frame cannot move out of position.
- It prepares seed beds quickly and economically.
- Comes with high quality reversible steel shovels.

Product Specifications

DESCRIPTION	BESLOEHD-7	BESLOEHD-9	BESLOEHD-11	BESLOEHD-13	BESLOEHD-15
FRAME	100x50 Channel & 65X6 Angle Pair				
TYNES	50X25mm Forged				
NO. OF TYNES	7	9	11	13	15
TYPE OF BLADE/ SHOVEL	Reversible Shoe type & 8mm High carbon steel				
UNDER FRAME CLEARANCE	825				
TYNE SPACING	228 (9")				
SPRINGS	O.C 50, Wire Dia. -10mm (28-Coil)				
LENGTH (mm)	1542	2000	2458	2916	3374
WEIGHT (mm)	880				
HEIGHT (mm)	1185				
WIDTH OF CUT (mm- Approx)	1450	1900	2350	2800	3250
WEIGHT (Kg. Approx)	225	285	345	405	480
TRACTOR POWER (HP)	30~35	40~45	50~55	60~65	70~75

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Features & Benefits

- UNIVERSAL spring loaded tiller is simple in design but sturdy in performance.
- It is suitable for use in soft and medium soil conditions.
- Loosens and aerates the soil to a depth of upto nine inches.
- When one tine strikes a buried object, the others continue to work at the correct depth.
- The dual spring loaded tine assemblies derive their strength from heavy duty angles, which once fixed to the main frame cannot move out of position.
- It prepares seed beds quickly and economically.
- Comes with high quality reversible steel shovels.

Product Specifications

DESCRIPTION	BEBSLC-7	BEBSLC-9	BEBSLC-11	BEBSLC-13	BEBSLC-15
FRAME	75x4 Channel & 50x8 Pair Flat			100x50 Channel & 50x8 Pair Flat	
TYNES	50X25mm Forged				
NO. OF TYNES	7	9	11	13	15
TYPE OF BLADE/ SHOVEL	Reversible Shoe type & 8 High carbon steel				
TYNE SPACING	228 (9")				
SPRINGS	O.C 50, Wire Dia. -9.5mm (25-Coil)				
LENGTH (mm)	1542	2000	2458	2916	3374
WEIGHT (mm)	840				
HEIGHT (mm)	1040				
WIDTH OF CUT (mm- Approx)	1450	1900	2350	2800	3250
WEIGHT (Kg. Approx)	170	240	260	340	425
TRACTOR POWER (HP)	30~35	40~45	50~55	60~65	70~75

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CULTIVATOR

Universal Spring Loaded Cultivator



Features & Benefits

- UNIVERSAL spring loaded tiller is simple in design but sturdy in performance.
- It is suitable for use in soft and medium soil conditions.
- The dual spring loaded tine assemblies derive their strength from heavy duty angles, which once fixed to the main frame cannot move out of position.
- Loosens and aerates the soil to a depth of upto nine inches.
- When one tine strikes a buried object, the others continue to work at the correct depth.
- Comes with high quality reversible steel shovels.
- It prepares seed beds quickly and economically.

Product Specifications

DESCRIPTION	BEUSLC-7	BEUSLC-7-9	BEUSLC-7-11	BEUSLC-7-13	BEUSLC-7-15
FRAME	60X60X6 Square Tube & 50x6 Flat				
TYNES	50x19 Forged				
NO. OF TYNES	7	9	11	13	15
TYPE OF BLADE/ SHOVEL	Reversible Shoe type & 8mm High carbon steel				
NO. OF SPRING PER PAIR	2				
SPACING	26 - Coil (Wire Dia 10)				
LENGTH (mm)	1542	2000	2458	2916	3374
WEIGHT (mm)	875				
HEIGHT (mm)	1185				
WIDTH OF CUT (mm- Approx)	1450	1900	2350	2800	3250
WEIGHT (Kg. Approx)	225	285	345	405	480
TRACTOR POWER (HP)	30~35	40~45	50~55	60~65	70~75

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CULTIVATOR

Heavy Duty Rigid Cultivator



Features & Benefits

- UNIVERSAL Heavy Duty Rigid tillers have a sturdy construction design and are capable of withstanding tough working conditions of hard soils.
- This Tiller can break up hard soil efficiently and perfectly.
- It uproots stubbles and weeds to leave the ground perfectly worked.
- These tillers are suitable to work in root and stone free land.
- Tines are mounted on heavy duty angle box frame thus making this a virtually maintenance free implement.
- Ideal for fitting seeding or seed cum fertilizer attachments.
- Comes with high quality reversible steel shovels.

Product Specifications

DESCRIPTION	BEHDC-7	BEHDC-9	BEHDC-11	BEHDC-13
FRAME (mm)	72X72X6 Square Tube & 65x6 Angle Center Supports			
TYNE (mm)	Fabricated One Piece 20/22/25/28 (Optional)			
NO. OF TYNE (mm)	7	9	11	13
TYNE SPACING (mm)	228 (9")			
3- POINT LINKAGE / CATEGORY	Cat-I & Cat II			
LENGTH (mm)	1542	2000	2458	2916
WIDTH (mm)	880			
HEIGHT (mm)	1075			
WIDTH OF CUT (mm)	1450	1900	2350	2800
WEIGHT (Kg. Approx) (With 25mm Tyne)	170	210	250	290
TRACTOR POWER (HP)	30~35	40~45	50~55	60~65

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CULTIVATOR

Medium Duty Rigid Cultivator



Features & Benefits

- UNIVERSAL Medium Duty Rigid tillers have a sturdy construction design and are capable of withstanding tough working conditions of hard soils.
- It can break up hard soil efficiently and perfectly.
- It uproots stubbles and weeds to leave the ground perfectly worked.
- The tillers are suitable to work in root and stone free land.
- Tines are mounted on heavy duty angle box frame thus making this a virtually maintenance free implement.
- Comes with high quality reversible steel shovels.
- High durable V-Clamps holds the tynes perfectly in place & ensure much longer product life.

Product Specifications

DESCRIPTION	BEMDRC-7	BEMDRC-9	BEMDRC-11	BEMDRC-13
FRAME (mm)	72X72X6 Square Tube & 100X100 Flat Center Supports			
TYNE (mm)	Fabricated One Piece 25/28 (Optional)			
NO. OF TYNE (mm)	7	9	11	13
TYPE OF BLADE / SHOVEL	Reversible Shoe Type & 8 High Carbon Steel			
TYPE SPACING	228 (9")			
3-POINT LINKAGE / CATEGORY	Cat-I & Cat-II			
LENGTH (mm)	1552	2010	2468	2926
WIDTH (mm)	765			
HEIGHT (mm)	1055			
WIDTH OF CUT (mm)	1000	1450	1900	2350
WEIGHT (Kg. Approx) (With 25mm Tyne)	210	270	330	425
TRACTOR POWER (HP)	30~35	40~45	50~55	60~65

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CULTIVATOR SPRINGS

DESCRIPTION

- These springs are manufactured from above wire sizes, as per customer's specification & requirement with regard to spring length & outer diameter.

Technical Information

There is lot more to spring design and manufacture than most people think. From choosing the correct material with a suitable balance between strength and reliability to choosing the correct surface finish and corrosion protection, the options are endless.

At our end, we keep sufficient range of materials in stock ready for immediate use. We have got the specialization in High Carbon Steel springs.

Wire Shapes

Our range of wire shapes covers an infinite range of shapes and sizes for use in Agricultural Implements. The easiest way to find out if we can help with your idea or design is to send an enquiry, e-mail or give us a call.

We will need to know some or all of the following to determine, if we are able to help:

Size of the wire to be used : Depending on the complexity of the design we can.

Usually use any size of wire up to about 10 mm diameter in routine and 11 mm wire on specific demand.

Type of Wire :

We stock and are able to use standard spring steels and High Carbon Steel Spring wire. For details on material types see our technical information section here.

Depending on the material used, you may require some form of corrosion protection. See the technical information section for more details.

Obviously, because each and every problem we encounter is different. Hence, it is difficult to state the price. The cost will depend on the complexity of the design and the type and size of the spring.

Chemical Composition %

C	0.71/0.75
Mn	0.80 Max
Si	0.15/0.35
P	0.04 Max
S	0.04 Max
Cu	0.15 Max

Wire Size	9.20 mm	9.18 to 9.22
	9.50 mm	9.48 to 9.52
	10 mm	9.98 to 10.02
	11 mm	10.98 to 11.02
U.T.S.	Kg/mm ²	122-145
Reduction in Area	%	30.0

Cultivator Tiller Spring - 01



Cultivator Tiller Spring - 02



Manufacturers & Exporters of Agricultural
Harrow Discs, Machinery & Spares



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