



NATIONAL AGRO INDUSTRIES

Introduction

National Agro Industries was established in 1976 by Late S. Sukhdev Singh, followed by his sons, Manmohan Singh and Sukhsohan Singh. For more than four decades we are in a field of manufacturing business with specialization in seeding machines. Presently the company is managed by Fourth Generation. We have innovated South Asia's First ever Zero Till Seed Drill, Maize Planter, Ridge Planter, Raised Bed Planter, Rice Grain Planter and Recently Pneumatic Planter. We are the sole manufacturer of Vegetable Nursery Transplanter and Vegetable Seed Extractor. To excel In the field of Research and Development we keep abreast with latest technology and also consult with agriculture universities and other govt. bodies such as PAU, HAU, GBPUAT, CIMMYT, IRRI/ICRISAT, ICARDA, ACIAR etc.

Important Timeline



1956

Started manufacturing agricultural tools as a small Shop/Cottage Industry by **S. Jai Singh and his son S. Sukhdev Singh**



1976

Established NATIONAL AGRO INDUSTRIES at Ludhiana



1983

Developed World's First Vegetable Seed Extractor by joint collaboration with Punjab Agricultural University (PAU)



1983

Company's first export, Exported Vegetable Seed Extractors to UN Development Projects in Vietnam



1993

Developed South Asia's First Zero Till Seed cum Fertilizer Drill



1965

Developed the South Asia's first 2 Rows Animal Driven Seed cum fertilizer drill by **S. Sukhdev Singh**



1972

India's First Tractor operated Seed cum Fertilizer Drill



1975

Started Manufacturing Wheat Threshers

Awards



State Award By Chief Minister of Our State



Udhami Award From Governor of Our State



Honorary Fellowship From Indian Society of Agricultural Engineers (ISA)



EXPORTS

UNDP Projects World Bank CIMMYT- Mexico ICRISAT USA Australia U.K. China Kenya Lebanon Eritrea Morocco Netherlands Nepal Fiji Islands Bangladesh IRRI in Philippines Nigeria Burkina Faso Philippines Senegal Sudan South Sudan Armenia Syria Tanzania Ethiopia Malawi Madagascar Sri Lanka Cameroon Egypt



2003

Developed India's First Multi Crop Ridge Planter

Awarded ISO Certification



2010

Innovated Multicrop planter for Power Tillers and mini power tillers

2004

Started manufacturing Raised Bed Planters



2004

Introduced Vegetable Nursery Transplanter in Indian Market



2013

Manufactured South Asia's First Pneumatic Seed Planter

2005

Updated Multicrop Planters with ZT Technology

2006

Started manufacturing Happy Seeder in joint collaboration with Punjab Agricultural University



NATIONAL ZERO TILL FERTI-SEED DRILL

Conventional sowing of wheat crop after paddy harvesting is quite difficult & costly affair. Because it takes about 5-7 tilling operations before a seedbed is prepared. This delays the crop sowing, which consequently affects the crop yield and eats into the margins. Now this problem can be tackled with "National Zero Till Ferti-Seed Drill". This machine enables us to sow directly after paddy harvest without prior seedbed preparation. This saves the diesel, tractor's working time, labour and most important it gives higher yield.



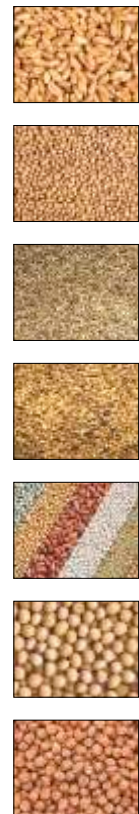
Technical Specifications*

Name	National Zero Till Ferti Seed Drill				
Model	NZTD-9	NZTD-11	NZTD-13	NZTD-15	NZTD-17
Rows	9	11	13	15	17
Tractor H.P.	35-40	40-45	45-50	50-55	55-60
Row to Row Spacing	7" and Adjustable				
Fertilizer Metering	Agitator & Sliding Orifice Type				
Seed Metering	Fluted Roller				



NATIONAL SEED CUM FERTILIZER DRILL

National Seed Cum Fertilizer Drill is used for seeding various crops in prepared (tilled) fields.



Technical Specifications*

Name	National Seed cum Fertilizer Drill					
Model	NSFD-7	NSFD-9	NSFD-11	NSFD-13	NSFD-15	NSFD-17
Rows	7	9	11	13	15	17
Tractor H.P.	20-30	35-40	40-45	45-50	50-55	55-60
Row to Row Spacing	7" and Adjustable					
Fertilizer Metering	Agitator & Sliding Orifice type					
Seed Metering	Fluted Roller					

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NATIONAL PNEUMATIC PLANTER (6 rows Pneumatic Planter)

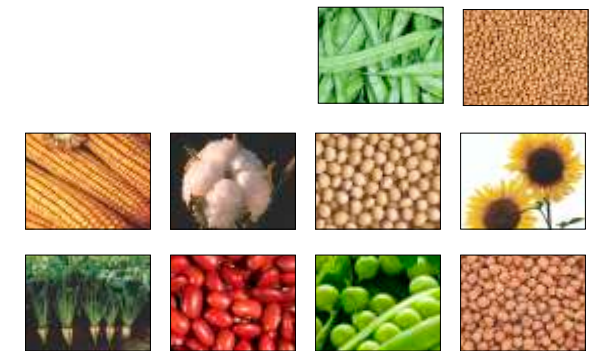
This planter is used for planting one seed at a time with no missing or doubling and causes no damage to seed during sowing process. It gives ideal seed to seed spacing for Optimum Crop yield. This machine works efficiently even if the seed sizes varies from each other. Proper Germination can be achieved with the depth control wheels which also acts as the press wheels

This machine saves costly labour and costly seeds. And this machine can work with high planting speed than other planters and seeders. Crop Yield increases due to precise planting.



Technical Specifications*

Name	National Pneumatic Planter	
Model	NPP	
Rows	4	6
Tractor H.P.	50-60	70-90
Fertilizer Metering	Agitator & Sliding Orifice Type	
Seed Metering	Vacuum Rotating Disc	



NATIONAL MAIZE / MULTI CROP PLANTER

This planter is used for planting different seeds such as Maize, Peas, Pea Nuts, Sunflower, Soyabean, Grams and Cotton Seeds etc. in unprepared pre-harvested fields and it also maintains plant to plant spacing in a row.



Technical Specifications*

Name	National Multi Crop Planter			
Model	NMCP-3	NMCP-4	NMCP-5	NMCP-6
No. of Rows	3	4	5	6
Tractor H.P.	30-35	35-40	40-50	50-65
Row to Row Spacing	24" Standard (Max) & Adjustable			
Fertilizer Metering	Agitator & Sliding Orifice Type			
Seed Metering	Rotating Disc with cells on its periphery (Inclined Plate)			





NATIONAL MULTI CROP RIDGE PLANTER

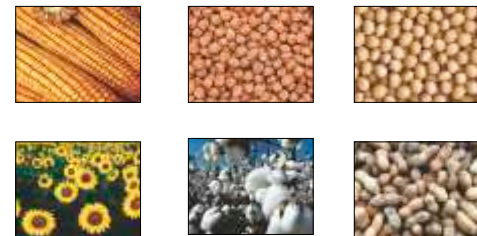
This planter is used for singulated seeding of various crops on the top of ridges. The ridge making and seeding is done in the single pass only.

Water conservation can be practised by sowing on ridges in comparison to sowing on flats as there is no need to flood whole field; irrigate only in the furrows.



Technical Specifications*

Name	National Multi Crop Ridge Planter		
Model	NMCRP-3	NMCRP-4	NMCRP-4
No. of Rows	3	4	5
Tractor H.P.	40-50	50-60	60-75
	24" Standard (Max) & Adjustable		
Fertilizer Metering	Agitator & Sliding Orifice Type		
Seed Metering	Rotating Disc with cells on its periphery (Inclined Plate)		



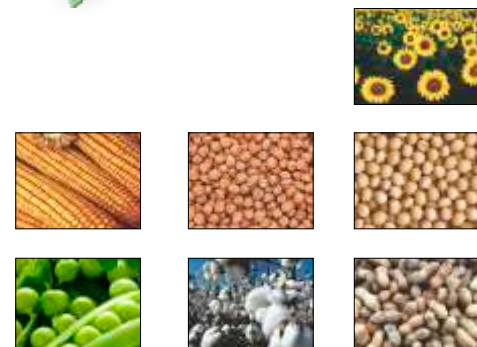
NATIONAL RAISED BED PLANTER - WIDE BED

This planter is used for singulated seeding of various crops on the top of beds. The bed making and seeding is done in the single pass only. Highest water saving as compared to flat and ridge planting. Instead of heavy irrigation, just irrigate the furrows only. This will provide moisture on the both adjacent beds



Technical Specifications*

Name	National Raised Bed Planter - WIDE BED		
Model	NRBP-WB		
Rows	4 Rows		
Tractor H.P.	45-55		
Row to Row Spacing	24" and Adjustable		
Fertilizer Metering	Agitator & Sliding Orifice Type		
Seed Metering	Rotating Disc with cells on its periphery (Inclined Plate)		



NATIONAL ZERO TILL HAPPY SEEDER

This machine enables users to sow directly after paddy harvest without prior seedbed preparations. The machine is equipped with straw managing chopper which enables the seeding in the residue of previous crop. And when this straw decays on the soil as mulch layer (organic matter) it increases the fertility of soil. This saves the diesel, tractor's working time, labour and most importantly it gives higher yield.

It also comes in Multicrop attachment for singulated seeding.



Technical Specifications*

Name	National Zero Till Happy Seeder	
Model	NZTHS-9	NZTHS-10
Rows	9	10
Tractor H.P.	40-45	45-50
Row to Row Spacing	7' and Adjustable	
Fertilizer Metering	Agitator & Sliding Orifice Type	
Seed Metering	Fluted Roller	



NATIONAL RICE GRAIN PLANTER / DIRECT SEEDER FOR RICE-DSR

This planter is used for direct seeding of rice grains without growing nursery and also without puddling and water logging.



Optional Attachment : : DSR attachment also available for the owner of Zero Till Ferti-Seed drill

Technical Specifications*

Name	National Paddy Seeder Grain / Multi Crop Planter		
Model	NDSR-9	NDSR-11	NDSR-13
Rows	9	11	13
Tractor H.P.	35-40	40-45	45-50
Row to Row Spacing	8" Standard & Adjustable		
Fertilizer Metering	Agitator & Sliding Orifice Type		
Seed Metering	Rotating Disc with cells on its periphery (Inclined Plate)		





NATIONAL RAISED BED PLANTER - NARROW BED

This planter is used for singulated seeding of various crops on the top of beds. The bed making and seeding is done in the single pass only. Highest water saving as compared to flat and ridge planting. Instead of heavy irrigation, just irrigate the furrows only. This will provide moisture on the both adjacent beds.

Technical Specifications*

Name	National Raise Bed Planter - Narrow Bed
MODEL	NRBP-N / NRBP-NB
Rows	4 Rows
Tractor H.P.	45-50
Row to Row Spacing	7" and Adjustable
Fertilizer Metering	Agitator & Sliding Orifice Type
Seed Metering	Fluted Roller



NATIONAL MULTI-CROP PLANTER - BROAD FURROW

This is a Multicrop ridge planter built-in with the broader furrow mainly used for peas because in peas broader furrows are required for weeding and harvesting operations



Technical Specifications*

Name	National Multi-Crop Planter- Broad Furrow	
MODEL	NMCP-BF-6	NMCP-BF-8
Rows	6	8
Tractor H.P.	45-50	
Row to Row Spacing	7" and Adjustable	
Fertilizer Metering	Agitator & Sliding Orifice Type	
Seed Metering	Rotating Disc with cell on its periphery (Inclined Plate)	



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NATIONAL ZERO TILL MULTI CROP PLANTER FOR 2 WHEEL TRACTOR (POWER TILLER)

This planter is used for sowing different crops. It can be attached to 2 Wheel Tractor (Power Tiller) behind rotary unit with the help of provided clamps.

Technical Specifications*

Name	NATIONAL ZERO TILL MULTI CROP PLANTER FOR 2 WHEEL TRACTOR (POWER TILLER)
Model	NZTMCP-2WD
Rows	4
Tractor H.P.	10-15
Row to Row Spacing	8" and Adjustable
Fertilizer Metering	Agitator & Sliding Orifice Type
Seed Metering	Rotating disc with cells on Peripheri (Inclined Plate)

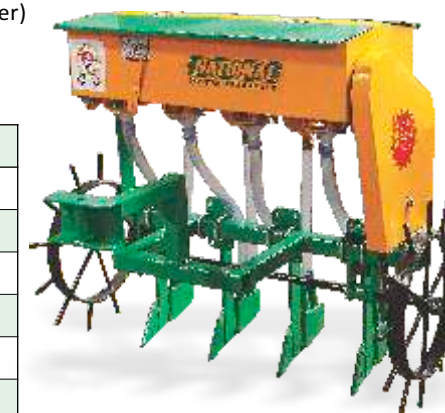


NATIONAL ZERO TILL MULTI CROP PLANTER FOR 2 WHEEL TRACTOR (DIRECT HITCH)

This planter is used for sowing different crops. It can be attached to 2 Wheel Tractor (Power Tiller) instead of rotary unit. It is very easy to attach with the help of 'C' Clamp.

Technical Specifications*

Name	NATIONAL ZERO TILL MULTI CROP PLANTER FOR 2 WHEEL TRACTOR (DIRECT HITCH)
Model	NZTMCP-2WD-DH
Rows	4
Tractor H.P.	10-15
Row to Row Spacing	8" standard (Max.) and Adjustable
Fertilizer Metering	Agitator & Sliding Orifice Type
Seed Metering	Rotating disc with cells on Peripheri (Inclined Plate)



NATIONAL MULTI CROP PLANTER FOR MINI POWER TILLER

This planter is used for sowing different crops. It can be attached to Mini Power Tiller (Power Weeder) instead of rotary unit. This machine for farmers having small lands & who are in a hilly area and do terrace farming. It is very easy to attach with the help of 'C' Clamp.

Technical Specifications*

Name	NATIONAL MULTICROP PLANTER FOR MINI POWER TILLER
Model	NMCP-MPT
Rows	3
Tractor H.P.	5-7
Row to Row Spacing	8" standard (Max.) and Adjustable
Seed Metering	Agitator & Sliding Orifice Type





NATIONAL VEGETABLE NURSERY TRANSPLANTER

This is a two row Vegetable Nursery Transplanter for transplanting different Vegetable Nurseries such as Cauliflower, Chilies, Brinjal etc. Plant to Plant distance is adjustable. A water tank is also mounted on transplanter to avoid drying off nursery plants while transplanting.

Technical Specifications*

Name	National Vegetable Nursery
Model	NVNT
No. of Rows	2
Row to Row Spacing	27"
Plant to Plant Spacing	20"



NATIONAL GROUNDNUT DIGGER

This machine is used for uprooting /digging groundnuts from soil. The digging operation is done very efficiently and windrower is provided for organising the produce in a row after digging. It is a PTO driven Machine



Technical Specifications*

Name	National Groundnut Digger
Model	NGND
Working width	66"
P.T.O RPM	540
Row Making	Windrower Provided
Working Depth	Adjustable and Control Wheels are provided
Earth / Root cutting	Coulter Provided
Type	Tractor Mounted
Frame	Strong and Robust

NATIONAL AXIAL FLOW VEGETABLE SEED EXTRACTOR

National Axial Flow Vegetable Seed Extractor is used for wet/ dry extraction of different vegetable seeds such as tomato, brinjal, chilies, summer squash, squash melon, water melon and cucumber etc.

Technical Specifications*

Name	National Axial flow Vegetable Seed Extractor
Model	NVST
Material	Available in fully Stainless Steel Model & Mild steel
Driving	Electric Motor
Output	Depends upon size of Vegetable & Seeds



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NATIONAL MAIZE SHELLER

National Maize Sheller is used shelling Maize from cobs. The machine is quite simple and having high output. It is also very easily transportable because of three point linkage.

Technical Specifications*

Name	National Maize Sheller
Model	NMS
Drum Size	2.5 ft & 3 ft
Driving Power	PTO drive of Tractor / Electric Motor / Diesel Engine
Output	18 qt/hr for 2 1/2 ft. drum size M/C approx. 23 qt/hr for 3 ft. drum size M/C approx.



NATIONAL FERTILIZER SPREADER

This machine is used for spreading granular fertilizer in the fields with the help of P.T.O. of tractor



Technical Specifications*

Name	National Fertilizer Spreader	
Model	NFS-500	NFS-1000
Hooper Capacity (in Litre)	500	1000
Fertilizer Spreading Width	20-25 Ft.	30-35 Ft
Spreading Mechanism	High Speed Rotating dis	
Power Required	P.T.O. of Tractor	
Hitching	3 Point Linkage	
Frame	Strong and Robust	
Type	Tractor Mounted	

NATIONAL POST HOLE DIGGER

Technical Specifications*

Name	National Post Hole Digger
Model	NPHD
Gear Box	540 RPM (Input)
Auger Size	12", 18", 24" in Diameter
Auger Length	36"
Working Depth	Adjustable from Tractor
Type	Tractor Mounted
Frame	Strong and Robust



Note : More detailed specifications are available on request.

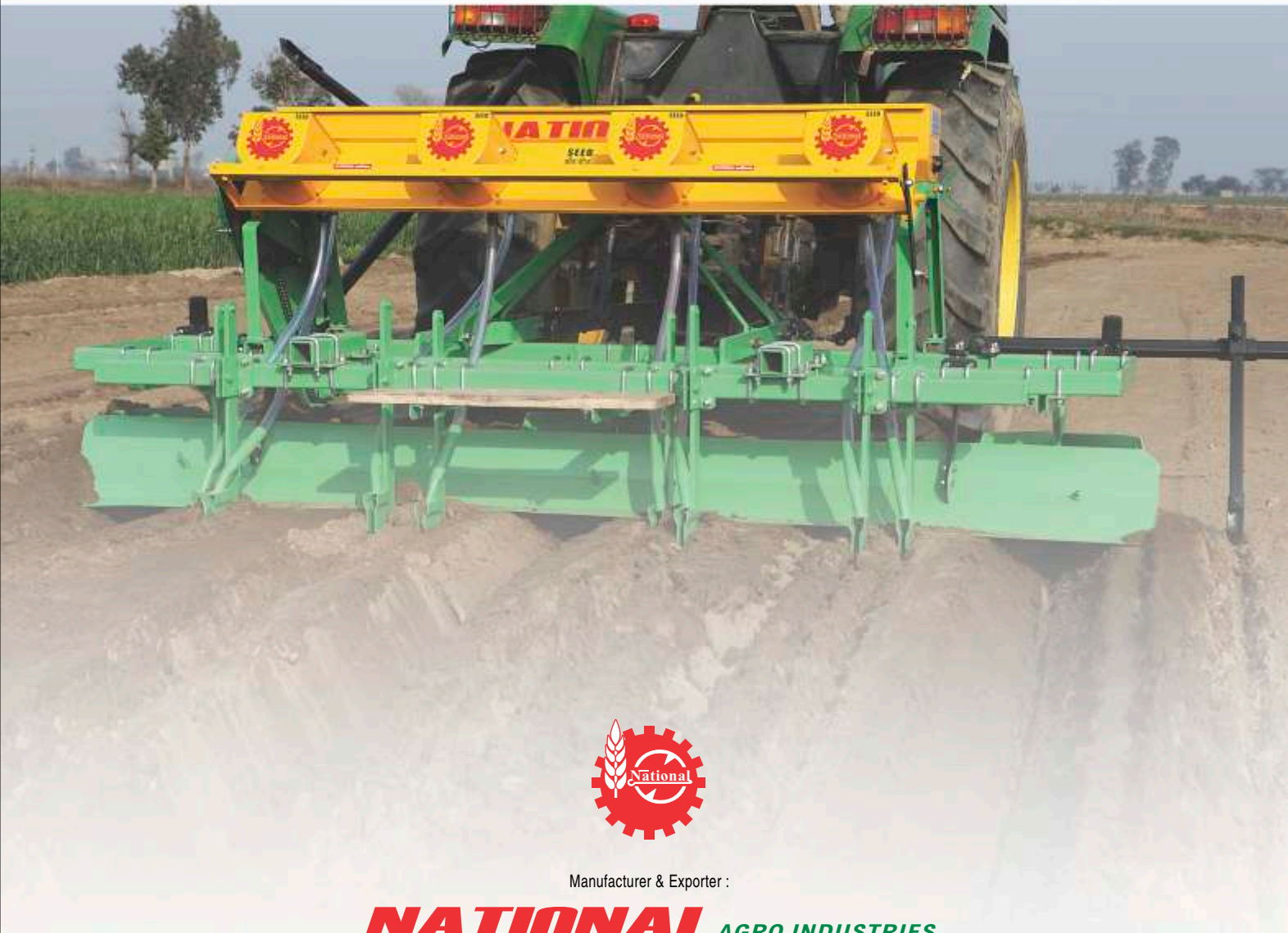
*Specifications are subjected to change without prior notice for further development of products

MEMBERS OF THE FOLLOWING ORGANIZATIONS:-

- Bureau of Indian Standards (B.I.S.)
- Indian Society of Agricultural Engineers (ISAE) Corporate Membership
- EEPC (Engineering Export Promotion Council)

APRECIATION FROM RENOWNED AGRICULTURISTS & INSTITUTIONS

- | | | |
|--|---------------------------------|---------------|
| • Dr. Norman E. Borlaug (Nobel Prize Winner) | • Asian Inst. of Tech. THILAND. | • ARGENTINA |
| • Univ. of Sask. CANADA. | • INDONESIA | • CHINA |
| • Cornell Univ. U.S.A. | • SOUTH VIETNAM | • PAKISTAN |
| • NEW ZEALAND. | • Univ. of Adelaide, AUS. | • MOROCCO |
| • ARGENTINA. | • CIMMYT, MEXICO. | • BOTSWANA |
| • IRRI, PHILLIPINES | • Univ. of Melbourne AUS. | • ALGERIA |
| • ACIAR-AUSTRALIA | • UNO | • NEPAL |
| • C.S.I.R.O. - AUSTRALIA | • WORLD BANK | • UZBAIKISTAN |



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NATIONAL AGRO INDUSTRIES

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