

NIPHA

**AGRI - IMPLEMENTS
TILLAGE TOOLS AND WEAR PARTS**



QUALITY THAT'S WORLD CLASS

Scarifier Shanks



Shanks are manufactured to OEM specification using SAE 9260/SAE 5160/equivalent spring steel properly heat treated to 38-42 RC to provide extra strength & wear resistance capabilities. Other shanks can also be manufactured as per customer specifications.

PART #	HOLE SIZE	CD	SIZE	WT. (lb)
NE/SH/001	1 1/16"	2.0"	2.5" X 0.75" X 18"	10
NE/SH/002	9/16" X 5/8"	3-5/8"	2.5" X 0.75" X 18"	10
NE/SH/003	1 1/16"	2.0"	2.5" X 0.75" X 16"	9
NE/SH/004	1 1/16"	2.0"	2.5" X 0.75" X 14"	8

Cutting Edges



Cutting edges are manufactured to OEM specification using C1080 (high carbon steel) and properly processed to provide extra strength & wear resistance capabilities.

The cutting edges are approximately 6" wide, 1/2" thick, having a curvature of 2-7/8" and beveled on both edges. They come in varying lengths ranging from 3' to 8'.

The cutting edges have 0.688" square holes with 80° countersink to 1.125". They can be customized as per the requirement of the customer.

Cultivator Shank



Cultivator shanks are manufactured to OEM specification using spring steel duly heat treated for extra strength and longer fatigue life.

Rake Tines



Rake tines are manufactured to OEM specification using SAE 9260/SAE 5160/ equivalent spring steel properly heat treated to 35-39 RC to provide extra strength & wear resistance capabilities. These tines are used universally on all landscape rakes.

PART #	# HOLES	HOLE DIA.	SIZE	WT. (lb)
NE/SH/001	1 or 2	25/64"	5 1/2" X 1"	2.17
NE/SH/002	1 or 2	15/32"	3/8" X 1.25"	3.30

Sub-soiler Points



Sub-soiler points are manufactured to OEM specification using C1080 or equivalent (high carbon steel) as base and mild steel as cap. The base is then heat treated to 40-44 RC to provide extra strength & wear resistance capabilities. Special chromium carbide inserts can also be provided to increase the wear life of the points.

Sub-soiler Points are manufactured to OEM specifications. Presently, the range of points manufactured by NIPHA include the one's compatible with Forest City, John Deere, KMC, Paulk, W&A, Pittsburgh, Taylor Way, Yada and Lilliston machinery.

Peanut Blade

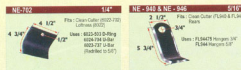


All the Blades are manufactured to OEM specification using high carbon steel, properly heat treated to provide extra strength & wear resistance capabilities. These Blades are used universally on peanut diggers.

Flails



Flails are manufactured to OEM specification using special heat treated alloy steels (SAE 5160, B1030, etc.) to provide extra strength, wear resistance and longer fatigue life. The flails are heat treated to 38-42 RC. Flails are also available in hard-faced condition.



ALL PARTS ARE POWDER COATED

Flail Hardware

D-Rings and U-Bars are manufactured to OEM specification using special steel duly heat treated for extra strength and longer fatigue life.



Flail Hammers

Flail Hammers are manufactured to OEM specification using special heat treated alloy steels (SAE 5160, EN45, EN19, etc.) To provide extra strength, wear and longer fatigue life. Hammers are heat treated to 38-42 RC.



Rotary Tiller Tines



Rotary tiller tines are manufactured to OEM specification using C1080/SAE 5160/SAE 9260 steel properly heat treated to provide extra strength and wear resistance capabilities for longer service life. NIPHA manufactures rotary tiller tines which are compatible with Rotary Tillers made by Agrator, Agric, Amco, Ariens, Baltic, Barreto, Befco, Bush Hog, Button Willow, Celli, Douglas, Eversman, Ferguson, Ford, Gearmore, Gil, Gilson, Honda, Howard, J.C. Penney, John Deere, Johnson Inc., Kroweater, Kuhn, Land Pride, Long, Maletti, Marvin, Maschio, North West, Ortolan, Panorama, Rome, Side Winder, Steiner, Taylor Way Pittsburg, Terranova.

Frontswept Fertilizer Injection Knife

The front swept fertilizer injection knife is of universal design and is available in two thickness 1/2" & 5/8". It has a hole and a slot for side mounting on standard cultivating shank. These knives are available in a variety of wear extending styles with schedule 40 1/8" Black Pipe (1/4" I.D.) for ammonia application. Hole Punch: 1 hole and 1 slot for 1/2" bolts on 1-3/4" and 3" centers

PART #	DESCRIPTION	WITH SCHEDULE 40 (1/4" I.D.) 1/8" Black Pipe		
		TUBE LENGTH	Tk:1/2" Wt.(lb)	Tk:1/2" Wt.(lb)
NE82119138	Plain without pipe	-	4.8	5.8
NE82119140	Plain with pipe	10"	5.2	6.2
NE82119140 H	Both side HARDFACED	10"	5.3	6.4
NE82119141	With NEC11000 Chromium Carbide Edge Insert	10"	7.0	8.4
NE82119142	With NEC11000 Chromium Carbide Edge Insert & NESTP4340 Chromium Chromium Carbide Tube protector	10"	7.0	8.6



Backswept Fertilizer Injection Knife

The back swept fertilizer injection knife is available in 13" length and three thickness 5/16", 3/8" & 1/2". It has a hole and a slot for side mounting on standard cultivating shank. These knives are available in a variety of wear extending styles with schedule 40 1/8" Black Pipe (1/4" I.D.) for ammonia application. Hole Punch: 1 hole and 1 slot for 1/2" bolts on 1-3/4" and 3" centers

PART #	DESCRIPTION	WITH 10" SCHEDULE 40 (1/4" I.D.) 1/8" Black Pipe		
		Tk:5/16" Wt.(lb)	Tk:3/8" Wt.(lb)	Tk:5/8" Wt.(lb)
NE6201914	Plain without pipe	2.1	2.2	4.6
NE6201912	Plain with pipe	2.3	2.4	4.9
NE6201910	Both side HARDFACED	2.5	2.7	5.2
NEC190013	With NEC190000 Chromium Carbide Edge Insert	-	3.0	-
NEC19TP13	With NEC190000 Chromium Carbide Edge Insert & NECTP4000 Chromium Chromium Carbide Tube protector	-	3.2	-

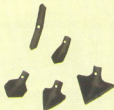


ALL PARTS ARE POWDER COATED

Sweeps & Spikes

Sweeps and spikes are manufactured to OEM specification using C1080/SAE 5160 steel properly heat treated to 38-42 RC to provide extra strength & wear life. This product features the specially designed curved contours and countersunk hole to prevent excessive wear of the bolt head during use.

Hole Punch : 1 CSK centered for 3/8" danish bolt



DANISH "S" TINE SWEEPS AND SPIKES

Part No.	Thick	Width	Hole Center	WT. (lb)
NE4020440	1/4"	2"	40°	0.8
NE4040440	1/4"	4"	40°	1.1
NE4070440	1/4"	7"	40°	1.9
NE4090440	1/4"	9"	40°	2.9
NE4120407	1/4"	1-5/8"	-	0.8

QUACKER CHISEL

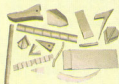
Part No.	Size	Hole Centers	Bolt Dia.	WT. (lb)
NE-QC-10	5/16"x2"x10"	1-1/4"x2-1/4"	7/16"	1.89

Plowshares



Flat blade type plowshare where the nose of the Rock Share is thickened through a hot forged upset operation, giving longer life in all types of soil and will resist breaking when used in rocky soil condition. Ideal in heavy problem soils where an inexpensive share is needed. Body of the Rock Share is 3/8" thick and is made from high carbon steel, properly heat treated to provide extra strength & wear resistance capabilities. NIPHA manufactures plowshares which are compatible with machine manufactured by International Harvester, Ford, John Deere, White, Massey Ferguson, Melroe, Wilrich.

Chromium Carbide Products



Chromium Carbide martensitic white iron commonly referred to as 26% chrome or chromium carbide is an abrasion resistant high chrome iron as per ASTM A352 Class III Type A. It is used in applications of extreme sliding or gouging abrasion with moderate impact.

Advantages of Chromium Carbide

- 15 times greater wear life than conventional tool steel and 5 times greater wear life than hard faced tools
- Weldable and corrosion resistant

Gear Box for Post Hole Diggers - NE/PHD 26



Special Features :

- Gear Box has a reduction ratio of 2.923:1
- Gear Box Body is made of graded cast iron and ductile iron
- The shafts, gears and pinions are made from alloy steel duly heat treated for longer life
- The gearbox is rugged and designed for continuous use
- The noise level is low

Every gear box is tested for sealing integrity, smooth running and trouble free operation.

Spider Cultivator



- All Steel Constructions
- Spider Wheels are made of ductile iron
- Square Axle Shaft is made of tested Carbon Steel for longer life
- Hardware is electroplated
- Bearings are used for smooth operation

PART LIST

1. SO. BORE SPIDER	10. BEARING-CARRIDGE
2. ASSEMBLY OF HEARFORK	11. BALL BEARING
5. SCRAPPER	12 & 15. CARRIAGE BOLT
6. HD. AXLE	13. 16 & 17. HEXNUT
7. HD. INNER BEARING-SHEILD	14. 18 & 20. LOCK WASHER
8. REAR H.D. SEAL GUARD	19. TWOHOLE STEEL FLANGE
9. HD. INNER SEAL GUARD	



Nipha Group of Industries

Corporate Headquarters

48, Ganga Jamuna, 28/1, Shakespeare Sarani, Kolkata 700 017, India

Phone : 91-33-2472511/2404447 Fax : 91-33-2405104/2470780

e-mail : nipha@gems.vsnl.net.in

website : www.niphaindia.com