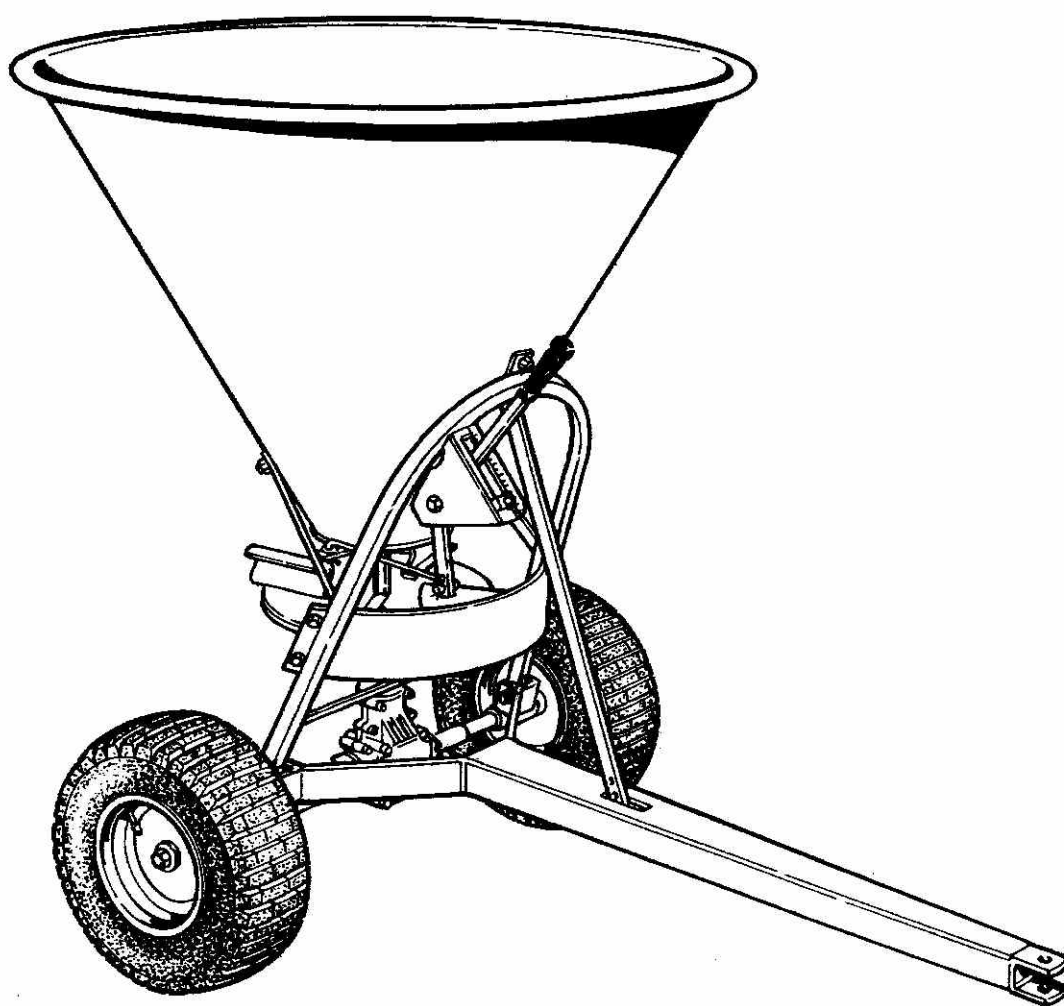


- SPANDICONCIME
- EPANDEUR D'ENGRAIS
- DÜNGERSTREUER
- FERTILIZER SPREADER

SP



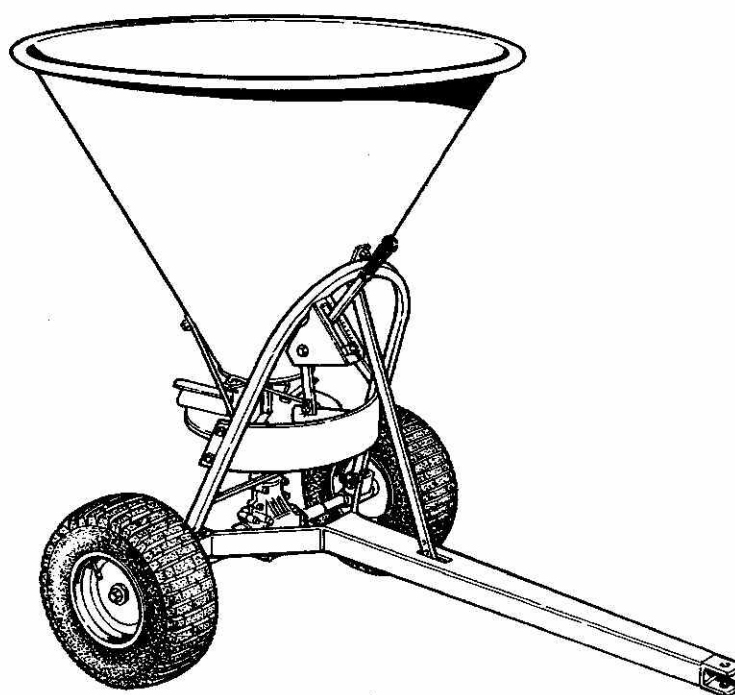
**MANUALE USO E MANUTENZIONE
MANUEL EMPLOI ET ENTRETIEN
HANDBUCH ZUR BENÜTZUNG UND WARTUNG
USER'S GUIDE**

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- SPANDICONCIME
- EPANDEUR D'ENGRAIS
- DÜNGERSTREUER
- FERTILIZER SPREADER

SP



.....
VENDITORE - VENDEUR - VERKAUFER - DISTRIBUTOR

.....
MATRICOLA - MATRICULE - KENNUMMER - SERIAL NUMBER

...../...../.....
DATA DI CONSEGNA - DATE DE LIVRAISON - ABLIEFERUNGSTAG - DELIVERY DATE

.....
PROPRIETARIO - PROPRIETAIRE - BESITZER - OWNER

1 - FOREWORD

This manual is an integral part of the machine and contains information necessary for its operation and maintenance. Operators and maintenance staff are advised to read the manual before using the machine or carrying out any maintenance.

This guide, or a copy of it, must always be kept in a convenient place for reference. It is strictly forbidden to change its content and tear off pages. Additional illustrative leaflets relative to new accessories or changes, and every updating of this guide must be attached herewith.

The user's guide must be kept for the entire working life of the spreader and must be handed to all other users and future owners.

We recommend to contact the manufacturer for any further information about spare parts and accessories.



Take care when you see this symbol: it indicates the operations which are dangerous.

2 - IDENTIFICATION LABELS

The identification label of the machine carrying all identification details is positioned on the protective casing. *Fig.1 pag.24.*

The labels in *fig.2 pag. 24* are applied to the hopper, frame and casing as shown in *fig.3 pag. 24*

- 1 - Warning: before carrying out any maintenance, remove the ignition key from the tractor and read the instruction and maintenance manual.
- 2 - Warning, remain at a distance. Danger from scattered product.
- 3 - Warning: read the instruction and maintenance manual carefully.
- 4 - Always use protective goggles and wear protective gloves.
- 5 - Warning: keep hands away from rotating parts while the machine is operating.
- 6 - This indicates the rotation speed in r.p.m.

Both the labels and the danger symbols must always be clean and in good condition; if necessary, replace with other originals available on request from the manufacturer.

3 - WARRANTY

The warranty is valid for 6 months from the date of purchase. The warranty is no longer valid in the event of the machine being improperly used. The warranty is no longer valid if the instruction in this booklet are not respected, if any changes are effected or spare parts which are not originals fitted.

4 - DESCRIPTION OF THE MACHINE

This is a spreader with centrifugal action for dry or damp granular or non - granular materials, to be towed by a tractor or self - propelled vehicle. The centrifugal action is generated by the rotation of a disc with four blades positioned on the circumference.

The machine is composed of: *(fig.4 pag.24)*:

- 1 *spreading disc equipped with blades*
- 2 *frame with drawbar*
- 3 *loading hopper*

5 - ACCIDENT PREVENTION REGULATIONS *(how to avoid accidents)*

- To avoid accidents, pay close attention to the warning notices affixed on the machine and read this guide carefully.
- The use of the spreader is restricted to the functions, for which it has been designed and which are described in the present guide. The manufacturer will not be held responsible for any damages to things or injuries to people caused by a wrong use of the spreader.
- It is strictly forbidden to spread iron pieces, stones, gravel, glass and similar materials as they may injure people and cause damages to things.
- Before starting the spreader, make sure all protection devices and guards are mounted correctly.
- Make sure no bystanders (especially children) or animals are in the working area. This is extremely important when the spreader is being used near public or easily accessible roads.
- During work, wear close-fitting and laced-up garments, heavy safety shoes, safety gloves and mask especially while spreading powdery fertilizers in windy weather.
- It is strictly forbidden to transport persons while the spreader is in operation or during transfers.
- Note: when the spreader is attached to the tractor the blades are activated and start moving.
- After using the spreader, turn the engine off, apply the handbrake, lower the spreader to the ground, disengage the P.T.O. and, if the hopper is still partially full, even the product up in order to avoid accidental tippings.
- When travelling on public roads, connect the spreader to the tractor as described on pag.12 of the present guide. A wrong connection may alter the vehicle stability. It is necessary to abide by the national traffic code.
- We remind you that a careful operator is the best insurance against accidents.

6 - USE OF THE MACHINE

It is possible to spread various types of fertilisers, seeds, salt and sand. The machine can be attached to any type of self-propelled vehicle or tractor which is sufficiently powerful.



The machine must only be started up in the open and when there is enough visibility to see the distance to which the product is being spread.

The quantity of the product scattered can be increased by means of the opening lever. The quantity is increased by pushing the lever down and decreased by pulling it up. The spread of the product is determined by the speed of the tractor.

YOU ARE ADVISED NOT TO:

- load the hopper with wet products as these may clog the machine.
- use the spreader to scatter stones or other dangerous materials.
- dismantle safety devices and the covers protecting them.
- transporting people is prohibited both while working and during transfers.

The fertilizer spreader must never be used by employees under the age of eighteen.

7 - ASSEMBLING THE FERTILIZER SPREADER (Fig.5 pag.25)



Pay attention while assembling the spreader. The operators must be instructed on the hazards and the precautionary measures to be taken. Use safety gloves and tools suitable for the operation to be carried out.

- A - Assemble shafts 3-4 and 5 on the transmission unit, with the same rotation direction as shown in the drawing.
- B - Fix the transmission unit 1 to the frame 2.
- C - Fix the drawbar 6 to the frame 2.
- D - Fix the tie-rod 7 and the casing P to the frame 2.
- E - Fit the disc 8 on the central transmission shaft.
- F - Fix the fertilizer opening lever 9 to the bow on the frame 2.
- G - Fit the space washer 10 on the unit axle .
- H - Fix the wheels 11 to the unit axle.
- I - Fit the agitator guide bushing in the hopper cone, with the doser disc, the sealing washer and the snap ring. (N°14) .
- L - Introduce the agitator 15 into the central hole in the hopper 17 and fix it to the shaft 5; fit the casing 16 on the attachment holes of the hopper and fix the hopper to the frame 2.
- M - Connect the opening tie-rod 18 to the doser disc and the opening lever 9.

8 - FUNCTIONING OF THE MACHINE

HITCHING

The machine can be attached to any type of self-propelled vehicle or tractor which is sufficiently powerful. Position the tractor close to the machine, apply the handbrake and secure the drawbar to the tractor *using the special pin (Fig.6 pag.25).*



NOTE: When the spreader is attached to the tractor the blades are activated and start moving

LOADING

Before loading the hopper the self-propelled vehicle or tractor must be switched off and the parking brake applied. It is advisable for the same operator to load the hopper after having switched off the tractor motor.

Everytime the spreader has to be filled up it is advisable to check that there aren't any foreign particles on the bottom that may obstruct the shutter.

REGULATING THE QUANTITY SUPPLIED

The quantity of product scattered can be increased or decreased by means of the opening lever. The quantity is increased by pushing the lever downwards and decreased by pulling it upwards, until the supply is shut off. (Fig.7 pag. 26)

DISC WITH ADJUSTABLE BLADES

According to the specific weight of the fertilizer to be spread, it is possible to direct the blades by moving them in the special clamps from N° 1 to N° 5, to obtain even scattering to the right and left. The blades are normally in position N° 3. By moving the blades towards N° 1 the scattering range to the left of the driver is increased. By moving them towards clamp N° 5 the scattering range to the right of the driver is increased. (Fig.8 pag.26)

9 - ACCESSORIES

The fertilizer spreader can be equipped with the following accessories:

MANUAL TOWING KIT

This accessory allows the fertilizer spreader to be easily manoeuvred once it has been detached from the tractor. (Fig.9 pag.26)

SALT AND SAND SPREADER CONE

This is composed of a steel cone section with two adjustable side supports which hook onto the frame. By varying the height of the cone the scattering range is regulated, making it possible to scatter the product over the area beneath the hopper. (Fig.10 pag.26)

MECHANIC REMOTE CONTROL

For the regulation of the spread of the product from the drivers seat of the tractor. (Fig.11 pag.26)

10 - MAINTENANCE



All maintenance operations must be carried out by skilled personnel strictly adhering to the instructions given in this booklet.

For efficient maintenance: disconnect the spreader from the tractor, clean the working area and use suitable utensils suitable to the type of work that the spreader is used for.



At the end of the maintenance routine, check and reposition all safety devices and the covers protecting them.

After every **50 hours** of work::

- Grease the wheel-hub by way of the special lubricator
- check that the screws are tight
- check the pressure of the tyres

11 - STORAGE

At the end of each season, or in the event of long periods of disuse it is necessary to:

- carefully clean the spreader and its discs of fertiliser.
- check transmission, distribution and regulation parts. Replace overused or damaged parts.
- tighten all bolts.
- Grease well in order to avoid rusting.
- Park the machine in a closed area if possible and cover it, to protect it from damage caused due to climatic conditions. Only the user will benefit when finding the machine in optimal conditions after a period of disuse.

12 - TRANSPORTING THE MACHINE

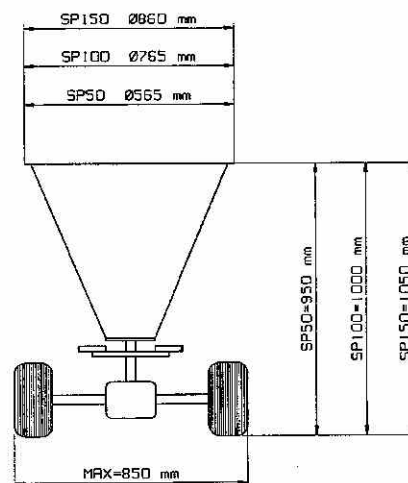
The machine is supplied disassembled and packed in cardboard and polythene; therefore read this instruction and maintenance booklet carefully.

Dispose of the packing properly in bins provided for this purpose.

13 - TECHNICAL SPECIFICATIONS

OVERALL DIMENSION

Mod.	Height mm	Width mm	Weight Kg	Capacity lt
SP50	950	850	40	42
SP100	1000	850	46	100
SP150	1050	850	61	143



TECHNICAL DATA

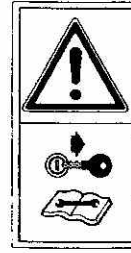
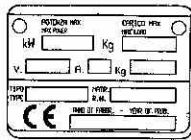
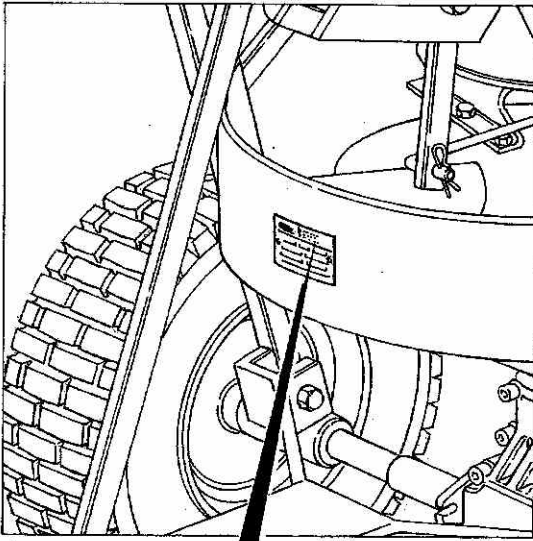
Required power (for all models).....3 kw

Spreading range 2-6 m. (according to the speed and the type of fertilizer)

14 - DISPOSAL OF THE MACHINE

To protect the environment and to prevent people from being harmed, do not throw away the spreader or its components, but have it demolished by an authorised demolisher..

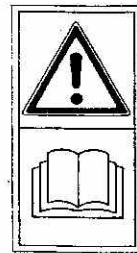
The demolition should comply to the laws regulating the country of the demolisher.



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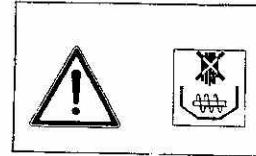
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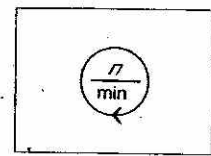
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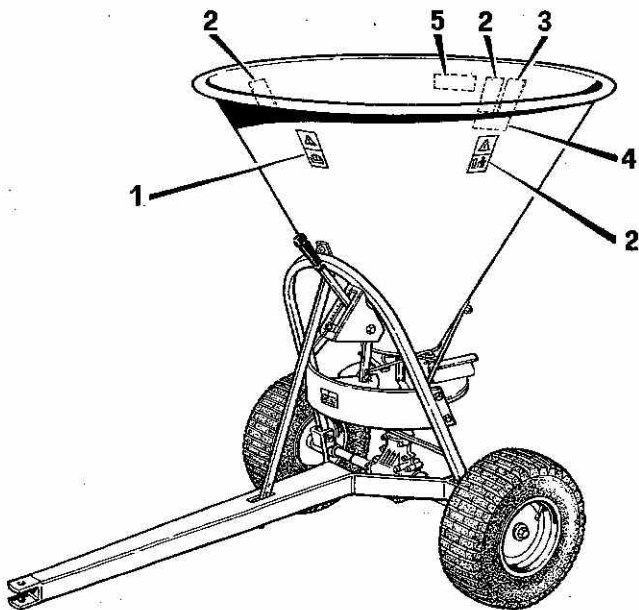
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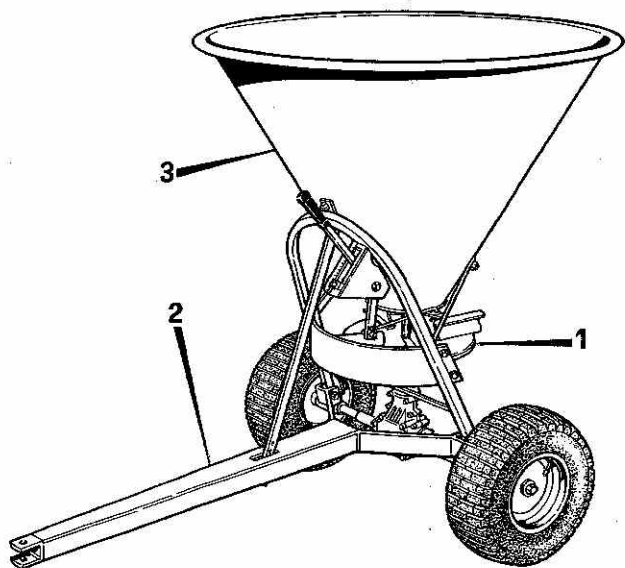
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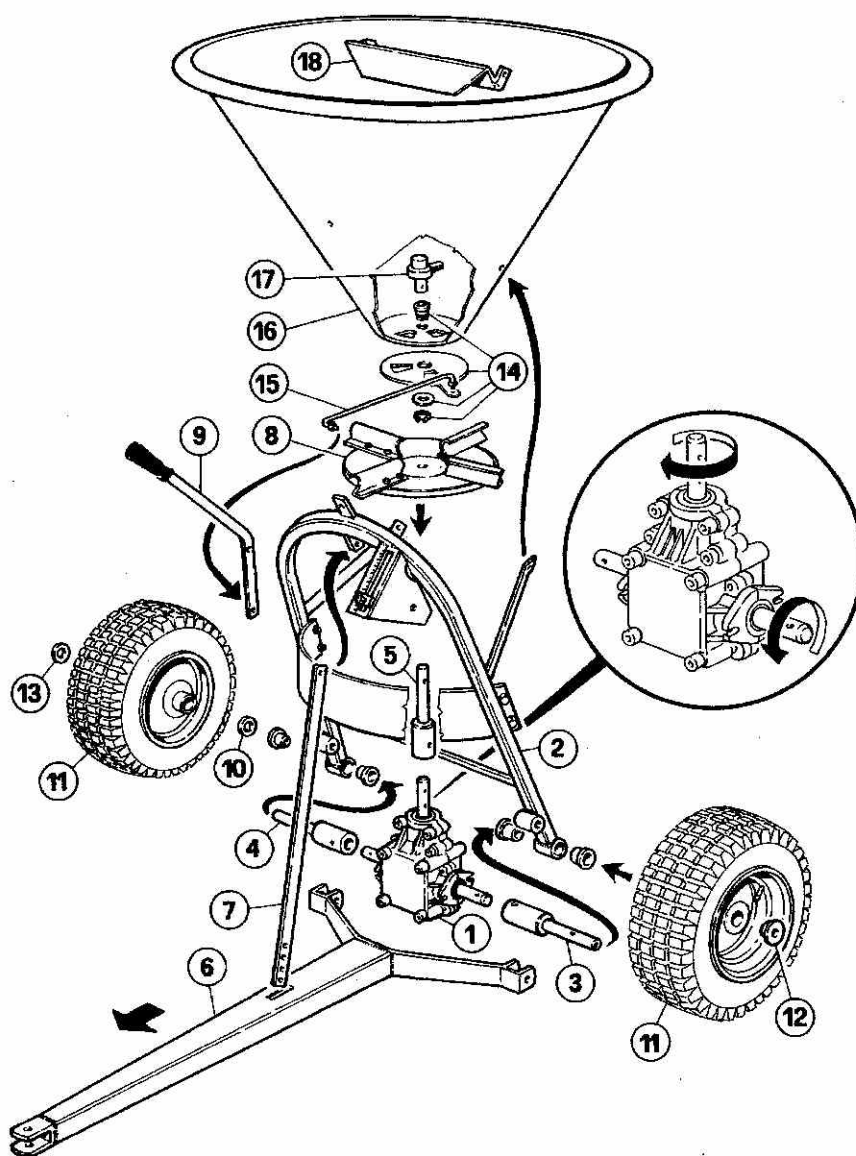
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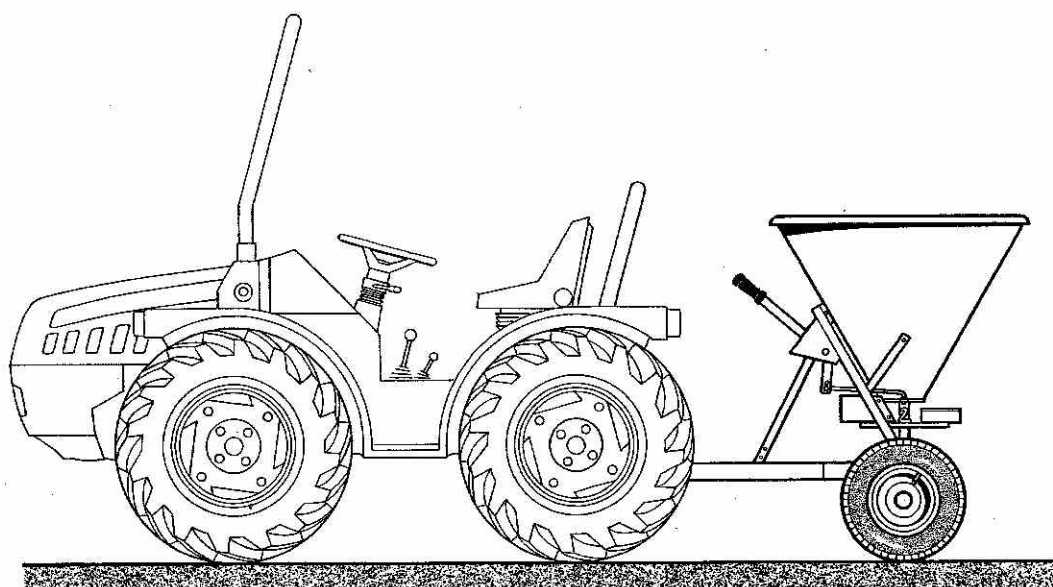
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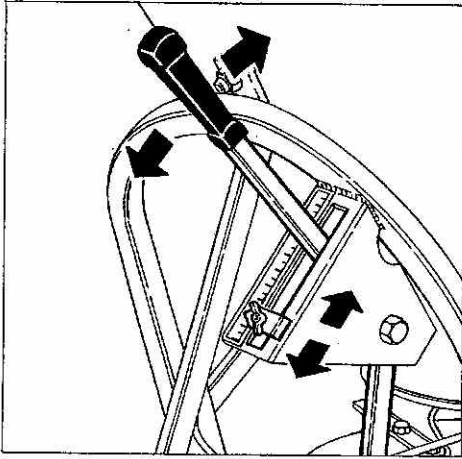




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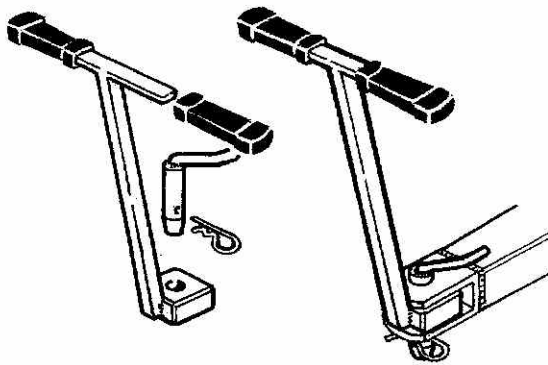
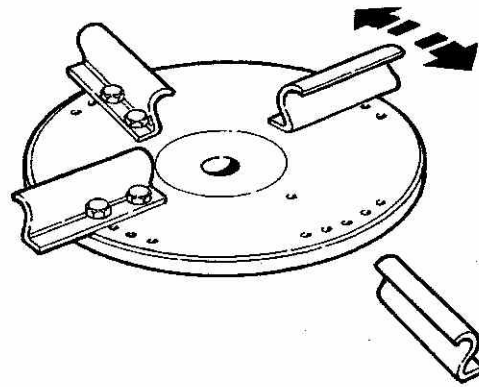
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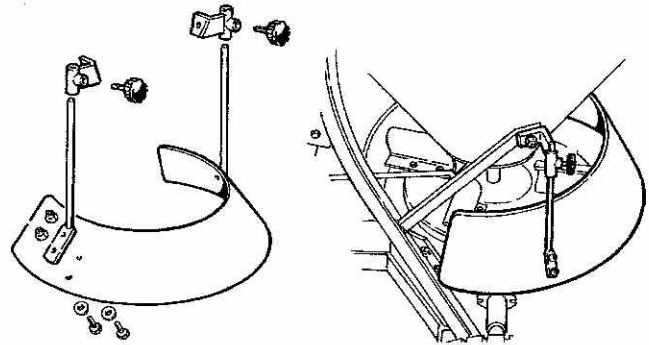
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11

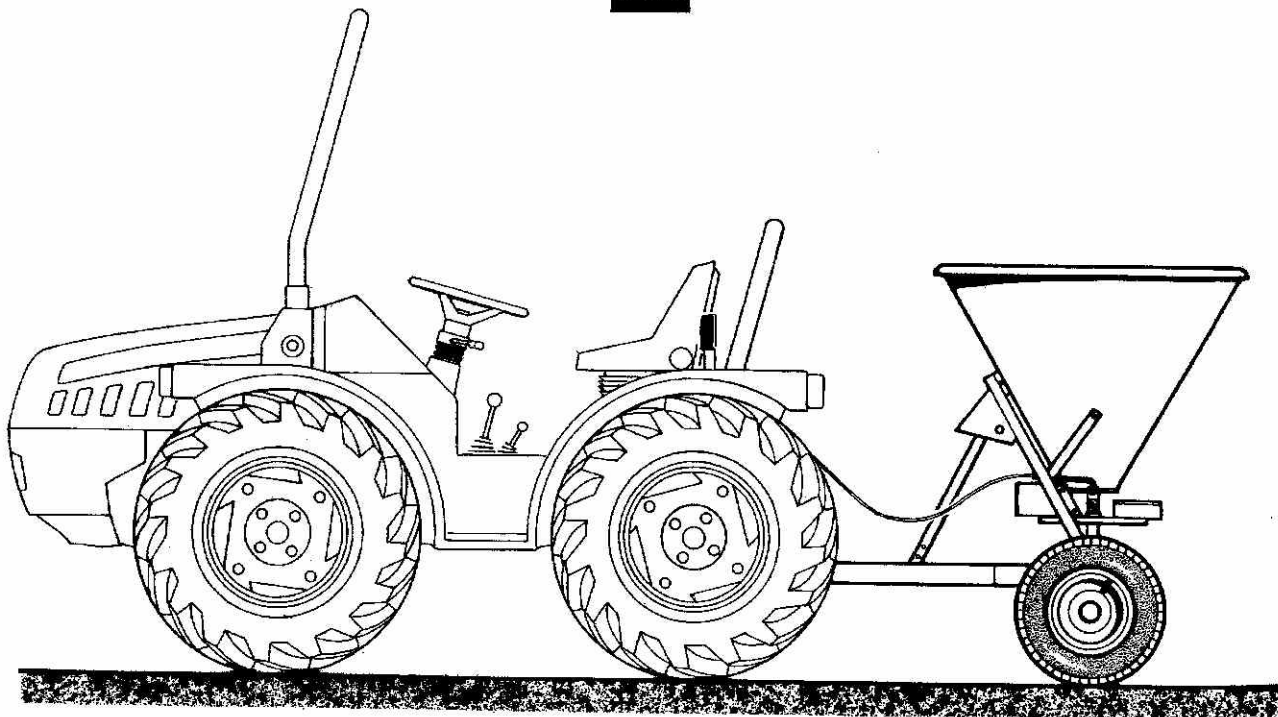


TABELLA DI SPARGIMENTO PER CONCIME
TABLEAU D'EPANDAGE POUR EPANDEUR D'ENGRAIS
STREUTABELLE FÜR DÜNGERSTREUER
FERTILIZER SPREADER SPREADING TABLE

Tipo di concime Type d'engrais Art des Düngers Fertilizer type	Larghezza di spaglio Largeur d'epandage Streubreite Spreading width	Km/h Km/h Km/h Km/h	Quantità da spargere in Kg/h alla velocità di marcia indicata nella colonna km/h Quantité à épandre en Kg/h à la vitesse indiquée dans la colonne km/h Streumenge in kg/HA bei hierdaneben angezeigter Km/h fahrgeschwindigkeit Quantity to be spread in Kg per hectare at the forward speed indicated in the Km per hour column											
			Apertura - Ouverture - Öffnung - Feed											
			1,5	2	2,5	3	3,5	4	4,5	5	5,5	6	6,5	7
Concimi a grana grossa Engrais à gros grains Dünger, grosskörnig Coarse grain Fertilizers	20	1,5 4 8 12 16	225 106 58 39 23	375 156 78 60 39	691 277 145 96 72	1139 465 230 156 120	1455 580 292 197 150	1795 720 360 245 192	2175 887 441 292 225	2628 1050 530 363 270	2890 1155 586 385 290	3250 1305 675 450 335	3560 1450 742 485 369	4005 1628 835 552 420
Concimi a grana media Engrais à grains moyens Dünger, mittelkörnig Medium grain fertilizers	16	1,5 4 8 12 16		523 197 118 82 60	896 370 192 127 92	1279 525 265 183 130	1635 671 340 223 174	2027 830 422 284 212	2258 927 469 321 232	2624 1062 537 365 276	2894 1167 590 398 300	3169 1281 652 449 331	3352 1350 684 465 350	3686 1495 753 512 382
Concimi a grana fine Engrais à petits grains Dünger, feinkörnig fine grain fertilizers	12	1,5 4 8 12 16	198 95 52 33 19	324 137 68 46 34	550 229 121 105 59	926 382 200 137 98	1195 494 252 172 128	1507 619 315 217 154	1766 727 364 248 189	2125 866 445 296 224	2392 971 496 334 263	2743 1122 561 382 288	2980 1217 608 415 317	3317 1332 677 454 335
Concimi cristallini medi Engrais à cristallins moyens Dünger kristallin mittelgrösse Medium crystalline fertilizers	8	1,5 4 8 12 16	375 131 77 50 34	620 249 127 86 61	1144 468 237 159 114	1855 751 374 253 194	2294 927 473 318 236	2940 1197 607 414 312	3436 1387 698 472 361	4094 1643 829 557 413	4583 1842 933 621 464	5086 2047 1031 689 517	5577 2242 1124 755 564	6144 2470 1241 827 624
Calcio cianamide e simili Cyanamide Calcique et sim. Kalkstickstoff und ähnl. Calc. Cyanamide ans sim.	10	1,5 4 8 12 16	312 124 66 42 29	852 341 169 113 83	1255 515 260 168 127	1859 752 337 248 189	2295 919 462 309 232	2095 1129 562 378 285	3259 1316 664 441 328	3801 1526 764 510 382	4874 1714 858 571 427			
Solfato di ammonio (Cr) Sulfate d'ammonium (Cr) Ammoniumsulfat (Kr) Ammonium Sulph. (Cr)	10	1,5 4 8 12 16	161 69 32 26 17	642 254 130 83 66	1050 424 214 139 107	1581 633 319 215 162	2022 814 411 274 204	2499 1007 504 335 252	2963 1182 590 396 298	3478 1395 699 475 350	3812 1531 762 513 382	4281 1718 860 577 429	4590 1842 919 618 466	5138 2057 1033 690 515
Scorie Thomas Scorie Thomas Thomasschlacke Thomas meal	6	1,5 6 12 19					2571 650 330 222	5724 1451 610 485	7580 1915 658 337	7874 1973 988 662				

TABELLA DI SPARGIMENTO PER SEMENTI
TABLEAU D'EPANDAGE POUR GRAINES
STREUTABELLE FÜR SAATGUT
SPREADING TABLE FOR SEEDS

Sementi Graines Seeds Saatkörner	Larghezza di spaglio Largeur d'epandage Streubreite Spreading width	Apertura Ouverture Oeffnung Feed	Velocità di marcia in km/h Vitesse de marche en Km/h Fahrgeschwindigkeit in Km/h Forward speed in km per nhour				
			1,5	4	8	12	16
Frumento Ble Weizen Wheat	16	2 2,5 3 3,5	306 495 677 830	122 197 270 354	61 98 135 177	40 65 89 118	29 48 67 88
Avena Avoine Hafer Oat	8	1,5 2 2,5 3	235 389 580 777	92 155 231 310	46 77 115 154	30 51 77 103	22 38 56 77
Segala Seigle Roggen Rye	16	2 2,5 3 3,5	395 615 843 1025	156 242 336 410	81 122 167 205	51 82 111 136	39 62 86 102
Orzo Orge Gerste Barley	12	2,5 3 3,5 4	405 492 680 837	161 197 273 334	80 97 135 166	52 64 91 110	40 49 66 82
Leglio Iraie Raigras-lolch Rye Grass	5	1 1,5 2	56 159 335	22 64 134	12 33 68	8 22 45	6 16 34
Seme di rapa Graine de navet Rübensamen Rape seed	6,5	1 1,5 2	43 240 478	18 96 192	9 47 96	7 32 64	4 24 47
Trifoglio rosso Trefle rouge Inkarnatklee Red clover	6,5	1 1,5 2	64 220 539	25 88 217	12 44 108	8 29 73	7 23 54

PARTI DI RICAMBIO

Questa parte del manuale deve servire esclusivamente per la richiesta dei pezzi di ricambio. È vietato servirsene per apportare modifiche alla macchina o per altri scopi non autorizzati.

PIECES DE RECHANGE

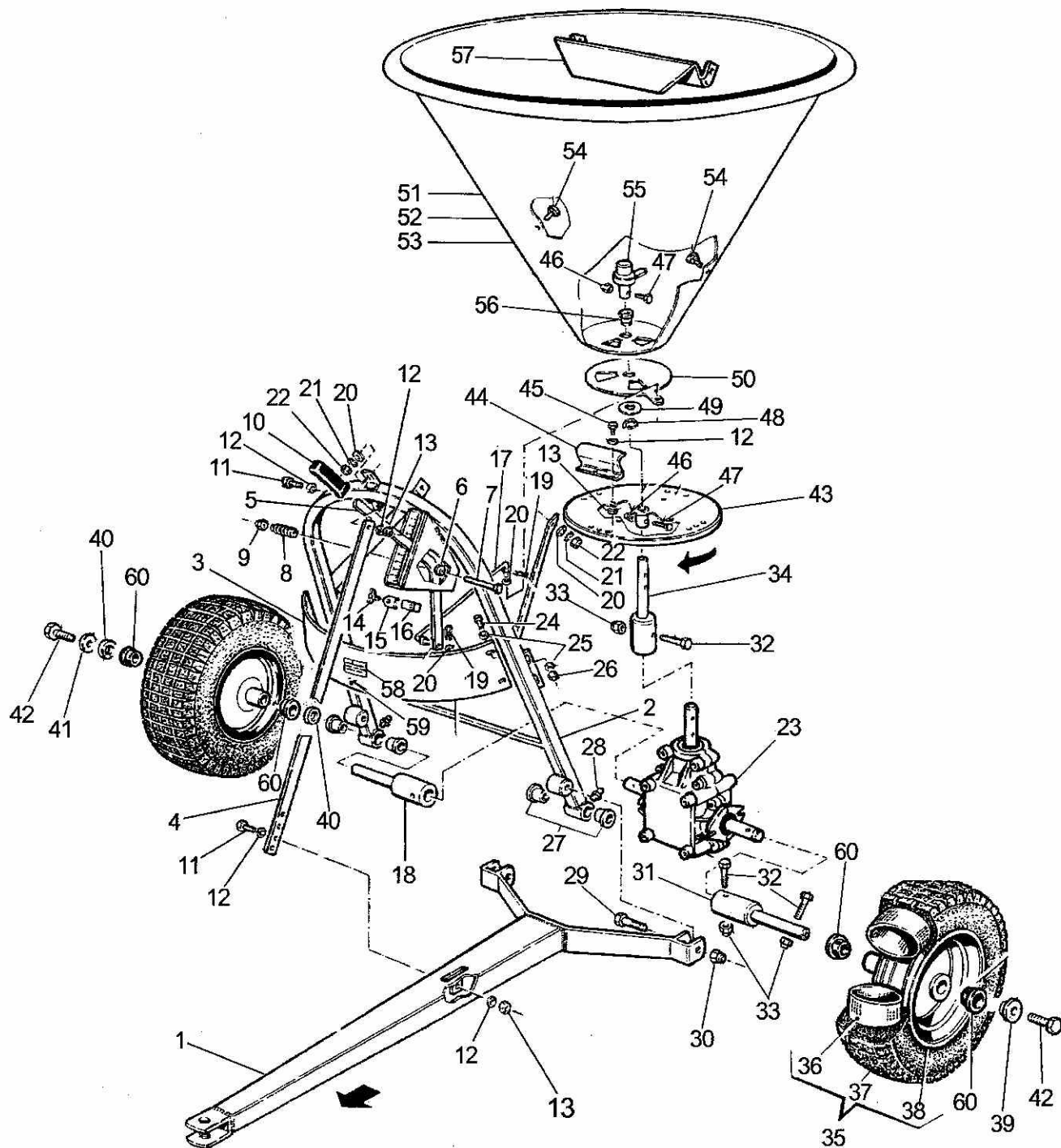
Cette partie du manuel sert exclusivement pour commander les pièces détachées. Ne pas l'utiliser pour faire des modifications sur la machine ou pour d'autres buts pas autorisés.

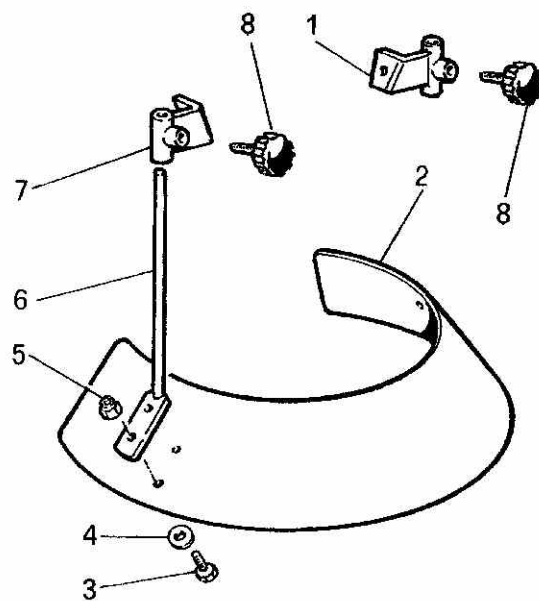
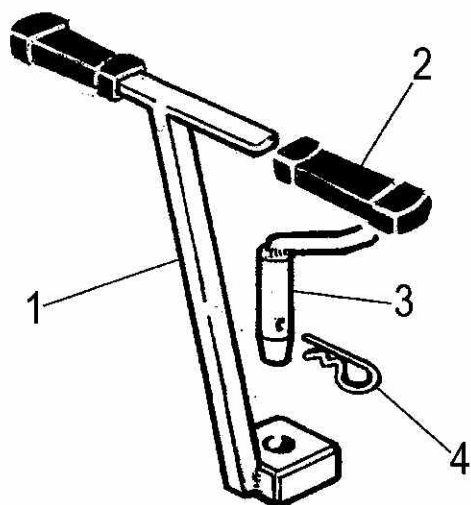
ERSATZTEILE

Dieser Abschnitt des Handbuchs dient ausschließlich der Anfrage um Ersatzteile. Es ist verboten, Änderungen an der Maschine vorzunehmen oder diese für nicht zulässige Zwecke zu verwenden.

SPARE PARTS

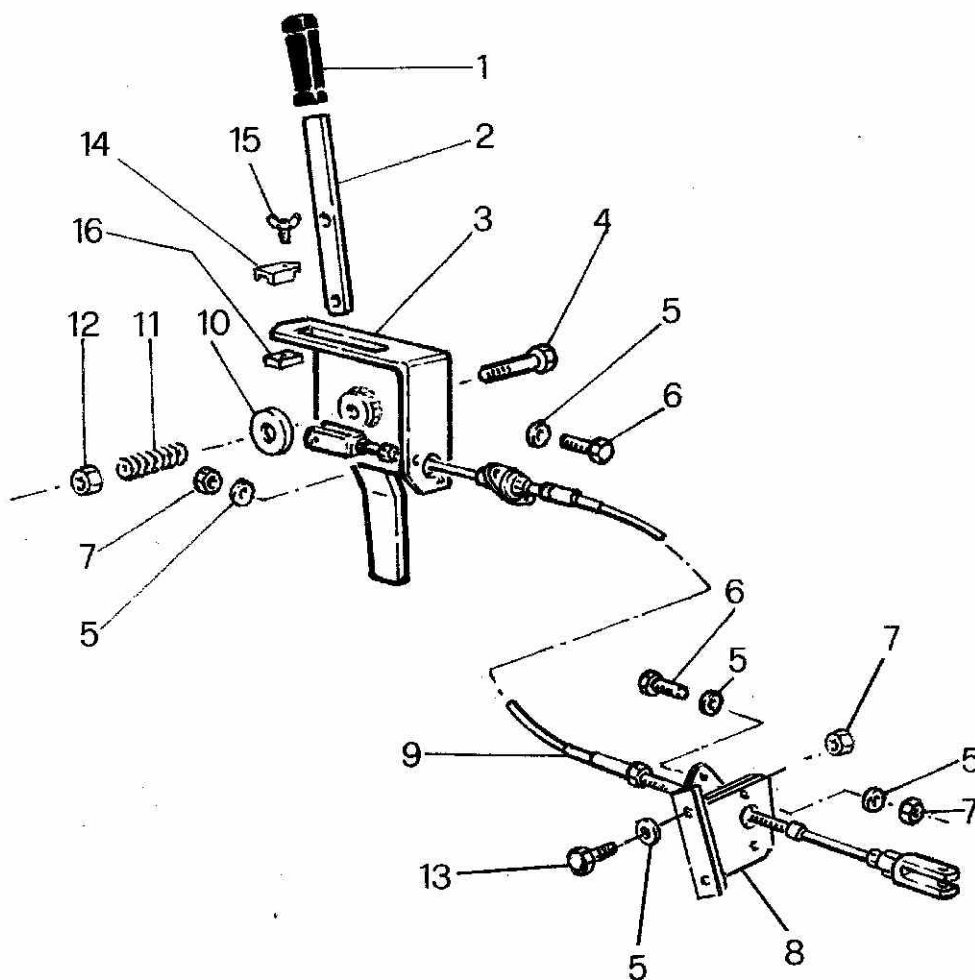
This part of the manual should exclusively be used to refer to prices of spare parts. It is forbidden to modify the machine in any way without prior authority.





B C

D



15 - SPARE PARTS

RIF	CODICE	Q.TÀ	DESCRIPTION	RIF	CODICE	Q.TÀ	DESCRIPTION
fig. A pag. 28				48	74353200	1	SNAP RING E D.32 DIN 471
1	SP51200	1	DRAWBAR	49	PA251021	1	LOCK WASHER
2	SP51100A	1	SP FRAME	50	PA251018A	1	QUANTITY ADJUSTMENT DISC
3	SP51004	1	GUARD	51	SP101001	1	STEEL HOPPER SP 100
4	SP51002	1	DRAWBAR BRACE	32	SP151001	1	STEEL HOPPER SP 150
5	SP51003	1	FERTILISER OPENING LEVER	53	SP51001	1	STEEL HOPPER SP 50
6	PA251027	1	BACHELITE DISK	54	57321025	3	CUPHEAD SCREW 10X25 ZN DIN 603
7	50371065	1	TEPF SCREW 4,8 ZN M10X65	55	SP51011	1	SP AGITATOR
8	PA251026	1	COMPRESSION-SPRING	56	SP51012	1	AGITATOR BUSH GUIDE
9	747310ZN	1	SELF-BLOCKING NUT M10	57	SP51022	1	HOPPER PROTECTION SP
10	IMGO0820	1	RUBBER IMPUGNER 8X20	58	30003001	1	IDENTIFICATION PLATE
11	52390830	2	TEIF SCREW 8.8 ZN M8X30	59	30018001	2	NICKEL-PLATED RIVET MF 33
12	659208ZN	8	FLAT WASHER M8	60	SP52002	4	AXLE BUSHING
13	558708ZN	6	HEX. NUT PG ZN M8	fig. B pag. 29			
14	54490616	1	WING SCREW 6X15	1	SP51206	1	SP LOADING MANUAL
15	PA251025	1	DISTRIBUTION INDICATOR	2	IMGO0820	2	RUBBER IMPUGNER 8X20
16	PA251024	1	FIXING BLOCK	3	SP51211	1	PISTON PIN UNIT
17	SP51014	1	ADJUSTMENT BAR	4	80100250	1	COTTER PIN A R D.2 L.50
18	SP51312A	1	LH SHAFT C/W BUSHING	fig. C pag. 29			
19	80100250	2	COTTER PIN A R D.2 L.50	1	PAR2004	1	GUARD SUPPORT
20	659210ZN	5	GALVANIZED FLAT WASHER M10	2	PAR2001	1	SPREADING CONE
21	679810ZN	3	GALVANIZED WASHER M.10	3	57400615	4	CUPHEAD SCREW M6X16 ZN
22	558710ZN	3	HEX NUT PG M10	4	659206ZN	4	FLAT WASHER M6
23	+SP5130A	1	GEAR-BOX L-25A-R1:3,3	5	747306ZN	4	SELF-BLOCKING NUT M6
24	52390616	4	TEPF SCREW 8.8 M6X16	6	PAR2002	2	REGULATION SHAFT
25	659206ZN	8	FLAT WASHER M6	7	PAR2003	1	GUARD SUPPORT UNIT DX
26	558806ZN	4	HEX NUT PG M6	8	VB206150	2	4 LOBED LEAFLET M6X20
27	SP51016	4	AXLE BUSHING	fig. D pag. 29			
28	INGRA100	2	GREASER M6X1	1	IMGO0820	1	RUBBER IMPUGNER 8X20
29	52371265	2	TEPF SCREW 8.8 M8X45	2	COM1004	1	LEVER
30	747312ZN	2	SELF-BLOCKING NUT M8 DIN 982	3	COM5001	1	CONTROL PANEL
31	SP51311A	1	RH SHAFT C/W BUSHING	4	50371065	1	TEPF SCREW 4.8 ZN M10X65
32	52370845	4	TEPF SCREW 8.8 M8X50	5	659206ZN	12	FLAT WASHER M6
33	747308ZN	4	SELF-BLOCKING NUT M8	6	50390620	4	TEIF SCREW 8.8 ZN M6X20
34	SP51313	1	CENTRAL SHAFT C/W BUSHING	7	558806ZN	6	HEX NUT PG M6
35	R1560064	2	WHEEL 15X6.00-6	8	SP52601	1	SUPPORT
36	CD156000	2	TUBE FOR WHEEL 15.6	9	COM1005	1	FLEXIBLE CABLE L.2500
37	G1560060	2	SHOE 15.600X6 2PR"	10	PA251027	1	BAKELITE WASHER
38	C1564F20	2	TIRE RIM	11	PA251026	1	COMPRESSION-SPRING
39	SP52001	1	AXLE WASHER	12	747310ZN	1	SELF-BLOCKING NUT M10
40	659220ZN	2	FLAT WASHER 20 ZN	13	52390640	2	TEIF SCREW 8.8 ZN M6X40
41	659308ZN	1	WASHER M8X24	14	PA251025	1	INDICATOR
42	52390820	2	GALVANIZED SCREW M8X20	15	54490616	1	WING SCREW 6X15
43	SP51005	1	SPREADING DISC	16	PA251024	1	FIXING BLOCK
44	SP51008	4	VANE				
45	52390816	4	GALVANIZED SCREW M8X16				
46	747306ZN	1	SELF-LOCKING NUT M6 ZN				
47	52390635	1	SCREW M6X35 UNI 5739				