

COSMECO S.r.l. ®

MACCHINE AGRICOLE

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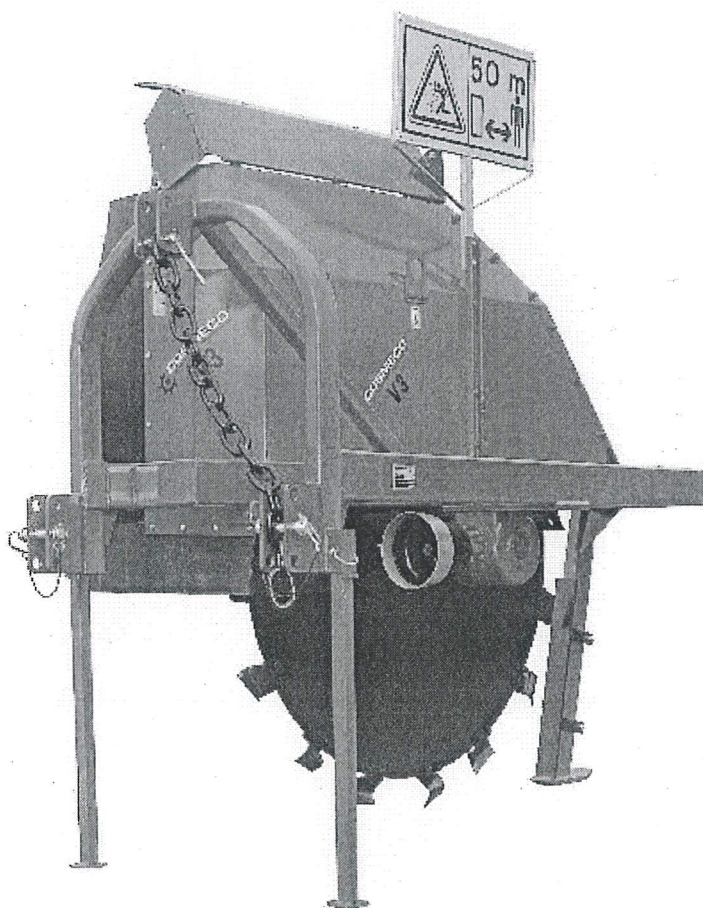
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USE AND MAINTENANCE INSTRUCTIONS

“VERTICAL DITCHER” model V4



These instructions for use and maintenance have to be intended
as integral part of the machine.
The operator must consult these instructions before using the machine.

2) TECHNICAL PROPERTIES

Model: V4

Weight: Kg. 670



IMPORTANT

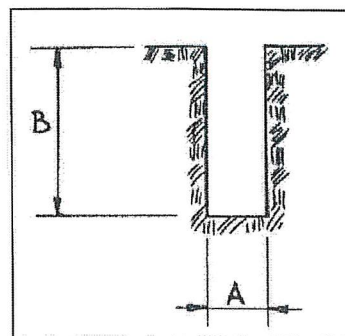
*The weight of the machine spattered with earth
can have a 50% increase*

Absorbed power: 75HP

Maximum work section:

A = 8 – 12 cm

B = 70 cm



Suggested feeding speed: 400 - 800mt/h

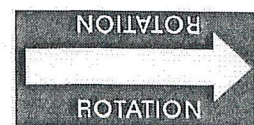
Tractor PTO rotation speed: 540 rpm



IMPORTANT

*A usage with different speeds is forbidden.
On request, the Manufacturer can deliver ditchers designed for different speeds.*

PTO rotating direction:
clockwise, by front view of
the tractor's PTO



Digging wheel peripheral speed:

20 mt/sec.

Oil quantity and type in the gearbox:

Kg 3 ~ Type SAE 90

Cardan shaft connection:

DN 1-3/8"Z6

Debris dropping range with raised protection shields:

approx. mt. 5

Debris dropping range with lowered protection shields:

approx. mt. 1

3) USE

The trenchdigger has been constructed to clean or dig trenches and to throw the resulting debris on the surrounding ground or at the border of the trench.

A different use is contrary to the purposes the machine has been constructed for.

Skilled, normally built personnel should use the trenchdigger.

To get the machine work, one single operator driving the tractor would suffice.

The presence of any other people or animals within the area where debris fall is forbidden.

The operator is in charge of checking the presence of people or animals within the machine working area.



WARNING

*Min. safety distance with raised protections: 5 mt
With completely lowered protections: 1 mt*

Maximum digging depth should never be exceeded.

Due to safety reasons, the use of the ditcher during the night or with poor visibility is forbidden.

4) TRACTOR FEATURES

The tractor power must be between 90 and 110 HP.

Do not match the ditcher with tractors whose power is higher than the proper one.

The PTO rotation speed must be 540 r.p.m.

The PTO rotation direction is clockwise.

The tractor must be featured such as to be connected to the trenchdigger through a universal three-points joint.

The tractor hydraulic lifting system must be checked before connecting to the trenchdigger.

Never use the whole power of the tractor; unexpected obstacles may stall it.

Digging some centimetres deeper could damage both tractor and trenchdigger.

13.3.8 Bolts replacement

Bolts must be replaced with original ones.

In particular, they must have the following features:

- blades bolts: TE, steel, 8.8
- all other nuts and bolts must be in steel, 8.8 class with 6S-class nuts.



IMPORTANT

Do not mistake bolts.

In case it is not possible to remove the bolts with a wrench, use special loosening products.



WARNING

The use of an angular grinding machine for cutting bolts heads is dangerous.



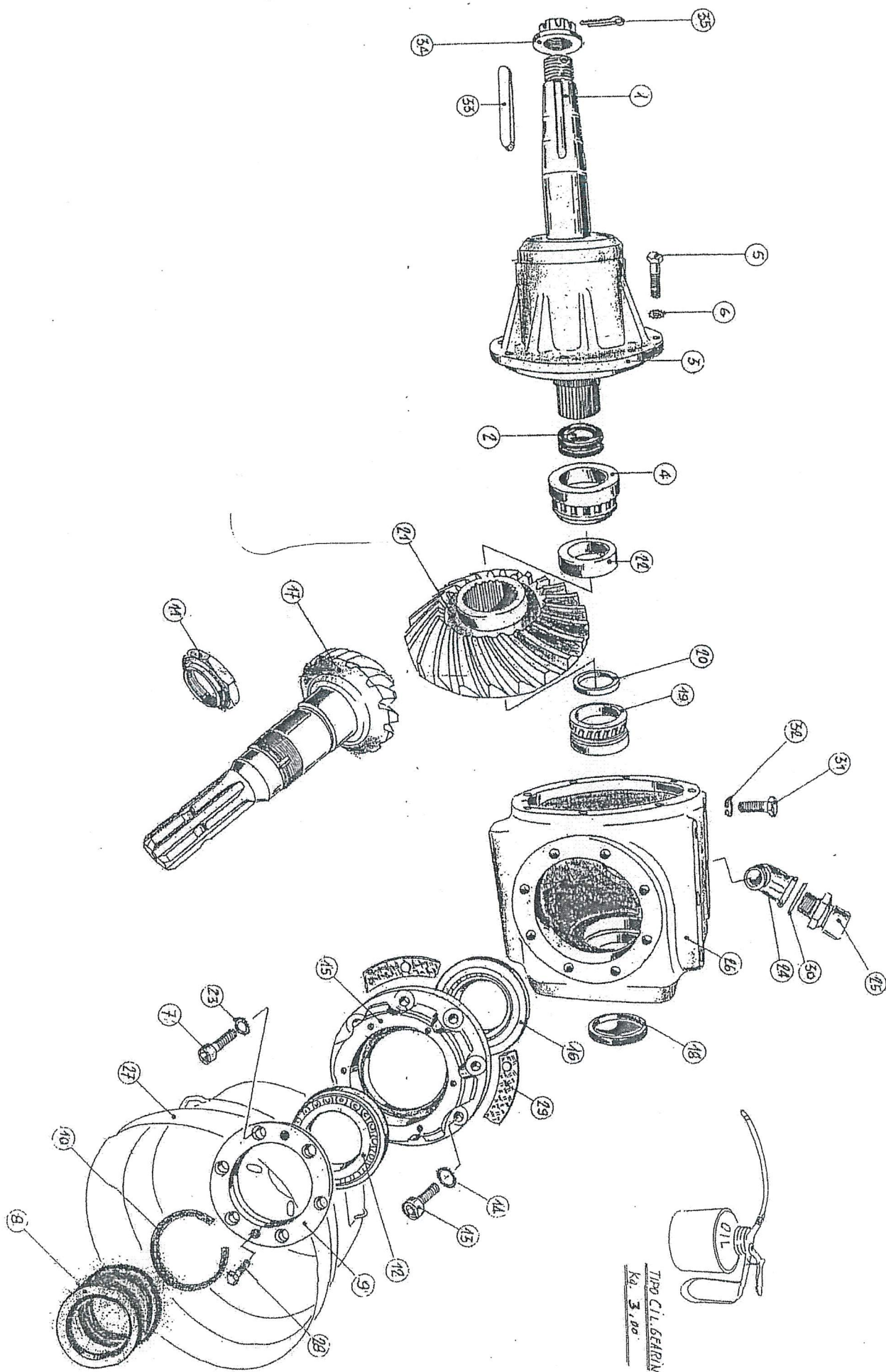
CAUTION

*Worn tools may have sharp edges
Always wear hand gloves.*

13.3.9 Blades replacement

Replace the complete set and the respective bolts, as well.

V4



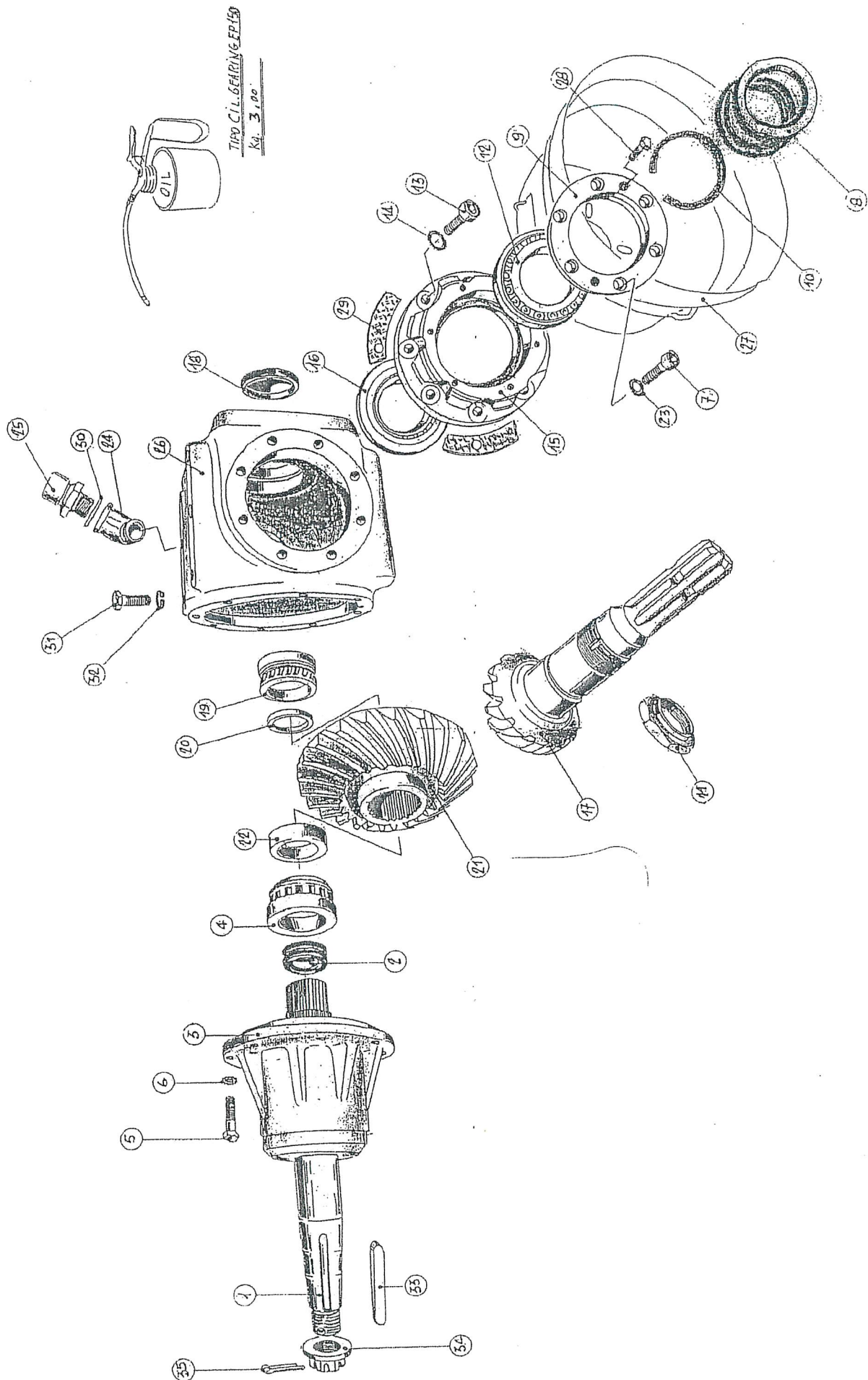
TYPE C.I. GEARBOX EP150
Kd. 3. no.

V-4

16 DEC. 2013

mod. v4

Rif.	Matr. Code	Q. UNI Denominazione	Designation	Description	Benennung
	506.003	RIDUTTORE	BOÎTE DES ENGRANAGES	REDUCTION GEAR	GETRIEBEGEHÄUSE
1	103.201	Albero ruota	Arbre porte-fraise	Shaft digging wheel	Radwelle
2	760.100.234	Paraolio	Bague d'étanchement	O. Ring	Simmering
3	30.073	Supporto ruota	Support	Support	Radträger
4	740.021.070	Cuscinetto	Coussinet	Bearing	Lager
5	700.003.175	Vite	Vis	Screw	Schraube
6	720.001.008	Rondella	Rondelle	Washer	Scheibe
7	700.025.109	Vite	Vis	Screw	Schraube
8	760.100.223	Paraolio	Bague d'étanchement	O. Ring	Simmering
9	103.209	Flangia P.T.O.	Bride	Flange	Deckel
10	720.021.062	Seeger	Segments d'arrêt	Seeger ring	Seegering
11	720.040.011	Ghiera	Frette	Ring nut	Muttern
12	740.021.048	Cuscinetto	Coussinet	Bearing	Lager
13	700.025.032	Vite	Vis	Screw	Schraube
14	720.007.006	Rondella	Rondelle	Washer	Scheibe
15	103.215	Supporto P.T.O.	Support	Shaft journal	PTO Träger
16	740.021.049	Cuscinetto	Coussinet	Bearing	Lager
17	103.217	Pignone conico	Pignon conique	Bevel pinion	Kegelrad
18	372.005.000	Tappo olio	Jauge d'huile	Oil plug	Öldeckel
19	740.021.048	Cuscinetto	Coussinet	Bearing	Lager
20	103.220	Distanziatore	Entretoise	Spacer	Distanzstück
21	103.221	Corona conica	Couronne conique	Bevel gear	Tellerrad
22	103.222	Distanziatore	Entretoise	Spacer	Distanzstück
23	720.007.005	Rondella	Rondelle	Washer	Scheibe
24	770.082.004	Raccordo 90° (curva)	Raccord courbe a 90°	Connector fitting Curve 90°	90° Armatur mit Überwurfmutter
25	760.251.103	Tappo sfiato	Bouchon pour aération	Vent cap	Entlüftungs Pfropfen
26	30.074	Scatola riduttore	Boîte	Gear box	Getriebegehäuse
27	41702	Controcuffia	Boî	Casing	Schutzhaube
28	700.003.136	Vite	Vis	Screw	Schraube
29	30.052	Guarnizione	Joint	Gasket	Dichtung
30	720.005.442	Rondella sfiato	Rondelle	Washer	Unterlegscheibe
31	700.003.243	Vite	Vis	Screw	Schraube
32	720.001.011	Rondella	Rondelle	Washer	Unterlegscheibe
33	730.034.106	Chiavetta	Clavette	Key	Kell
34	710.011.010	Dado a corona	Écrou	Nut	Mutter
35	730.010.084	Coppiglia	Goupille	Cotter pin	Federsplint



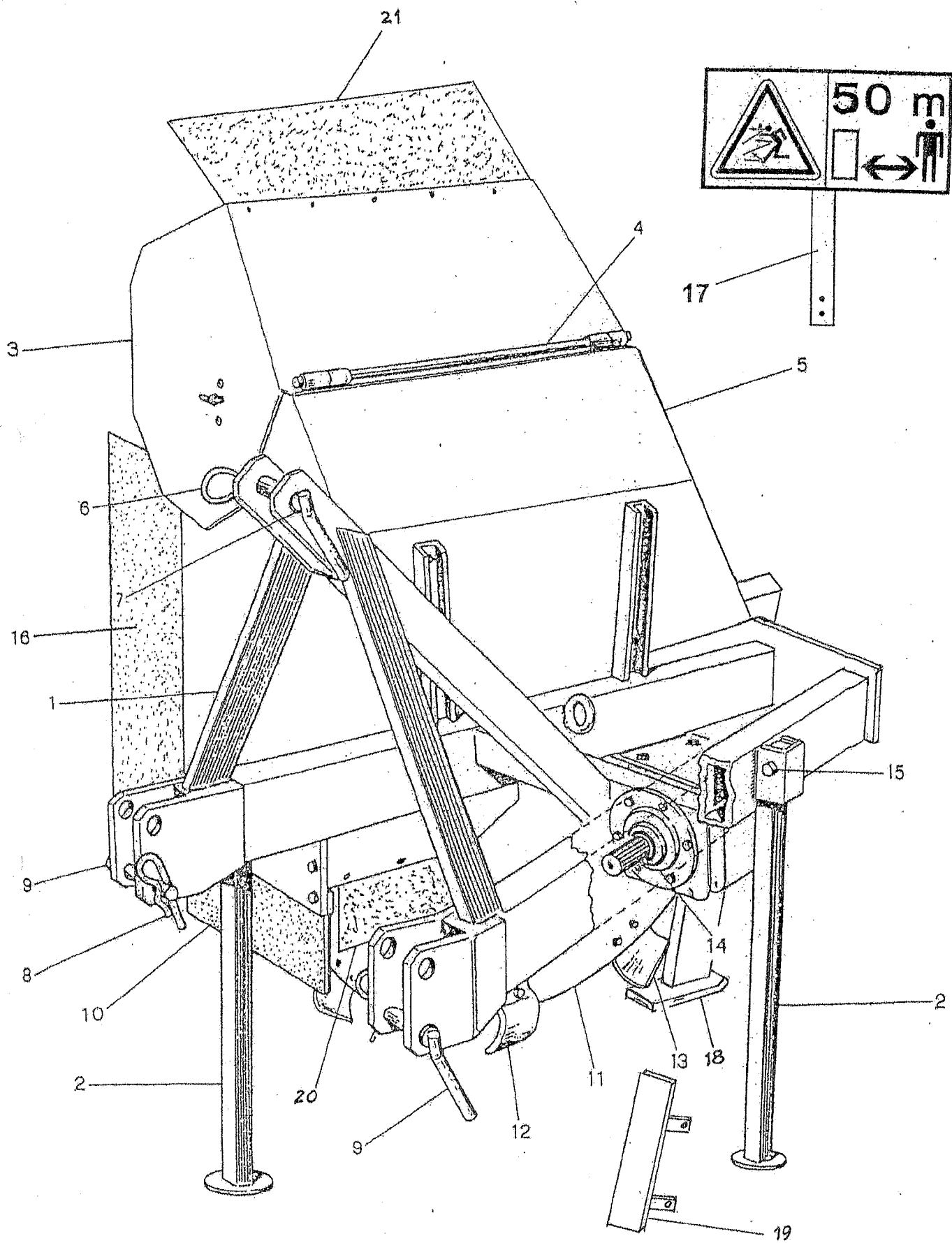
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Gruppo

Tav. 1

mod. V4

Rif.	Matr. Code	Q. UNI	Denominazione	Désignation	Description	Benennung
	506.003		<u>RIDUTTORE</u>	<u>BOÎTE DES ENGRANAGES</u>	<u>REDUCTION GEAR</u>	<u>GETRIEBEGEHÄUSE</u>
1	103.201	1	Albero ruota	Arbre porte-fraise	Shaft digging wheel	Radwelle
2	760.100.234	2	Paraolio	Bague d'étanchement	O. Ring	Simmering
3	30.073	1	Supporto ruota	Support	Support	Radträger
4	740.021.070	1	Cuscinetto	Coussinet	Bearing	Lager
5	700.003.175	8	Vite	Vis	Screw	Schraube
6	720.001.008	8	Rondella	Rondelle	Washer	Scheibe
7	700.025.109	6	Vite	Vis	Screw	Schraube
8	760.100.223	2	Paraolio	Bague d'étanchement	O. Ring	Simmering
9	103.209	1	Flangia P.T.O.	Bride	Flange	Deckel
10	720.021.062	1	Seeger	Segments d'arrêt	Seeger ring	Seegerring
11	720.040.011	1	Ghiera	Frette	Ring nut	Mutterm
12	740.021.048	1	Cuscinetto	Coussinet	Bearing	Lager
13	700.025.032	8	Vite	Vis	Screw	Schraube
14	720.007.006	8	Rondella	Rondelle	Washer	Scheibe
15	103.215	1	Supporto P.T.O.	Support	Shaft journal	PTO Träger
16	740.021.049	1	Cuscinetto	Coussinet	Bearing	Lager
17	103.217	1	Pignone conico	Pignon conique	Bevel pinion	Kegelrad
18	372.005.000	1	Tappo olio	Jauge d'huile	Oil plug	Öldeckel
19	740.021.048	1	Cuscinetto	Coussinet	Bearing	Lager
20	103.220	1	Distanziatore	Entretoise	Spacer	Distanzstück
21	103.221	1	Corona conica	Couronne conique	Bevel gear	Teilerad
22	103.222	1	Distanziatore	Entretoise	Spacer	Distanzstück
23	720.007.005	6	Rondella	Rondelle	Washer	Scheibe
24	770.082.004	1	Raccordo 90° (curva)	Raccord courbe a 90°	Connector fitting Curve 90°	90° Armatur mit Überwurfmutter
25	760.251.103	1	Tappo sfiato	Bouchon pour aération	Vent cap	Entlüftungs Pfropfen
26	30.074	1	Scatola riduttore	Boîte	Gear box	Getriebegehäuse
27	41702	1	Controcuffia	Bol	Casing	Schutzhaube
28	700.003.136	2	Vite	Vis	Screw	Schraube
29	30.052	1	Guarnizione	Joint	Gasket	Dichtung
30	720.005.442	1	Rondella sfiato	Rondelle	Washer	Unterlegscheibe
31	700.003.243	6	Vite	Vis	Screw	Schraube
32	720.001.011	6	Rondella	Rondelle	Washer	Unterlegscheibe
33	730.034.106	1	Chiavetta	Clavette	Key	Kell
34	710.011.010	1	Dado a corona	Ecrou	Nut	Mutter
35	730.010.084	1	Coppiglia	Goupille	Cotter pin	Federsplint



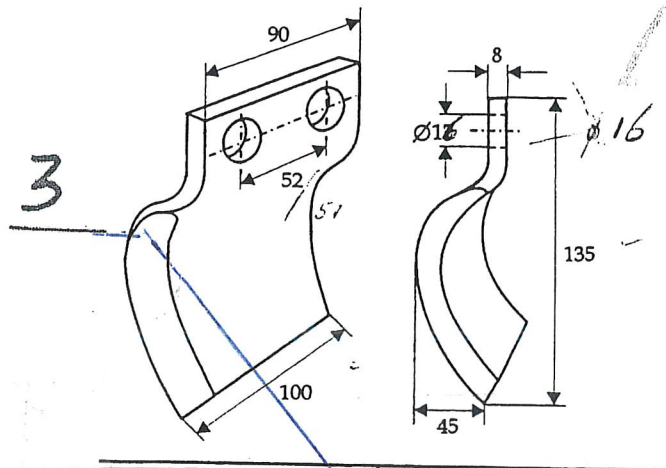
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Componenti telaio

Tav. 2

mod. V4

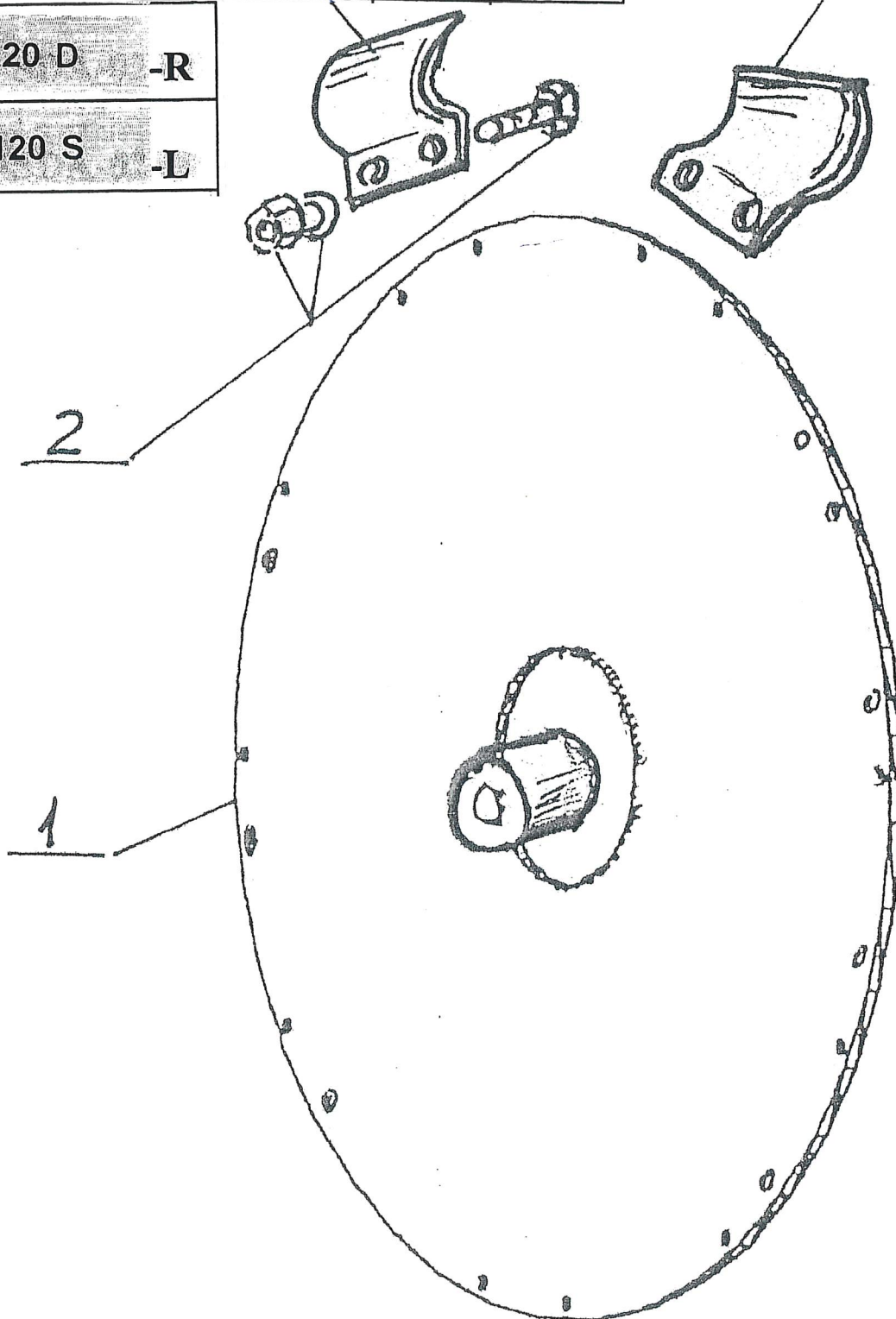
Rif.	Matr. Code	Q. UNI	Denominazione	Désignation	Description	Bénennung
1	506.001	1	Telaio	Châssis	Frame	Rahmen
2	506.002	2	Piede di appoggio	Support d'appui	Support	Stützfuß
3	306.003	3	Protezione suppl. orizzontale	Protection supplémentaire	Side flap	Zusatzschutzblech
4	306.004	1	Spina cerniera	Épine	Pin	Scharnierstift
5	506.005	1	Cofano completo	Capot	Protection	Deckel
6	70.006	1	Spina a molla	Épine	Pin	Spannstift
7	306.006	1	Spina 3° punto	Épine 3 ^{ème} point	3 rd point pin	3. Punkt Stift
8	70.008	2	Spina a molla	Épine	Pin	Spannstift
9	306.007	2	Spina	Épine	Pin	Steckbolzen
10	306.008	1	Protezione in gomma	Protection en gomme	Rubber protection	Gummisicherung, -schutz
11	506.009	1	Ruota operatrice completa	Roue complète	Digging wheel	Komplettes Rad
12	70.120/S	8	Coltello sinistro	Couteau gauche	LH knife	Messer
13	70.120/D	8	Coltello destro	Couteau droit	RH knife	Messer
14	506.003	1	Riduttore completo	Boîte des engrenages complet	Reduction gear	Getriebegehäuse
15	70.014	2	Spina	Épine	Pin	Steckbolzen
16	306.012	1	Protezione suppl. verticale	Protection supplémentaire	Side flap	Zusatzschutzblech
17	30.064	1	Tabella CE	Table de danger	Danger sign	Gefahrssignal
18	306.013	1	Tallone	Sep	Heel	Anlage (Rillenfräse)
19	306.014	1	Lama tallone	Lame sep	Heel's blade	Blattanlage (Rillenfräse)
20	306.015	1	Protezione in gomma	Protection en gomme	Rubber protection	Gummisicherung, -schutz
21	306.016	1	Protezione in gomma	Protection en gomme	Rubber protection	Gummisicherung, -schutz



VOOR. HET MES, MET
 SNIJKANT NAAR JE TOE
 = L = LINKS R = RECHTS
70.120 S 70.120 D

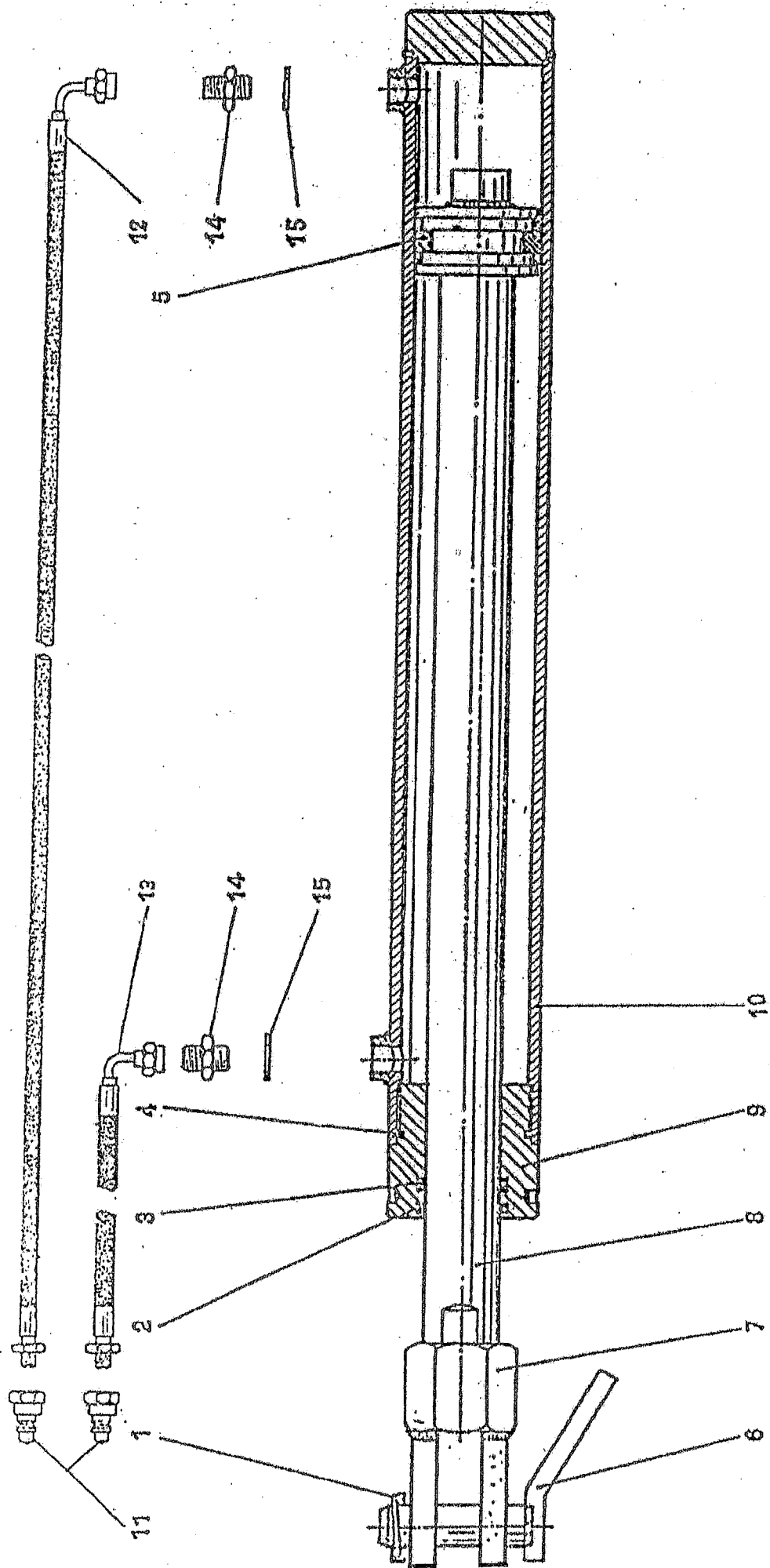
070.120 D -R

070.120 S -L



COSMECO			Ruota		Tav. 3	mod. V4
Rif.	Matr. Code	Q. UNI	Denominazione	Désignation	Description	Benennung

		<u>RUOTA</u>	<u>ROUE</u>	<u>WHEEL</u>	<u>RAD</u>
506.010					
1	506.011	1 Disco ruota	Flasque	Wheel disc	Radscheibe
2	700.003.281	32 Bullone	Boulon	Bolt	Schraube
3	70.120/S	8 Coltello sx	Couteau gauche	LH knife	Messer (Links)
4	70.120/D	8 Coltello dx	Couteau droite	RH knife	Messer (Rechts)



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Martinetto Idraulico

Tav. 4

mod. V4

Rif.	Matr. Code	Q. UNI	Denominazione	Désignation	Description	Benennung
			<u>Martinetto Idraulico</u>	<u>Vérin Hydraulique</u>	<u>Hydraulic Cylinder</u>	<u>Hydraulischer Zylinder</u>
	20.091	1	Martinetto completo	Vérin hydraulique complet	Complete cylinder	Komplet Zylinder
1	70.024	1	Spina con anello elastico	Épine avec bague élastique	Pin w. spring ring	Steckbolzen mit Sprengring
2	760.059.021	1	Guarnizione	Joint	Gasket	Dichtung
3	760.050.182	1	Guarnizione	Joint	Gasket	Dichtung
4	760.011.842	1	Guarnizione	Joint	Gasket	Dichtung
5	760.054.010	1	Guarnizione	Joint	Gasket	Dichtung
6	08.048	1	Spina	Épine	Pin	Steckbolzen
7	20.090	1	Attacco anteriore stelo	Attache piston	Front coupling, rod	Vorne Steganschluß
8	20.099	1	Stantuffo	Piston	Piston	Steg
9	20.100	1	Testata	Tête	Head	Kopf
10	20.101	1	Cilindro	Cylindre	Cylinder	Zylinder
11	770.180.104	2	Attacco rapido maschio	Attache rapide	Male connector rapid	Schnellanschluß
12	20.107	1	Tubo flessibile	Flexible	Hose	Schlauch
13	20.106	1	Tubo flessibile	Flexible	Hose	Schlauch
14	770.092.106	2	Nipplo	Nipples	Nipple	Gewinde Anschluß
15	720.005.038	2	Rondella	Rondelle	Washer	Unterlegscheibe