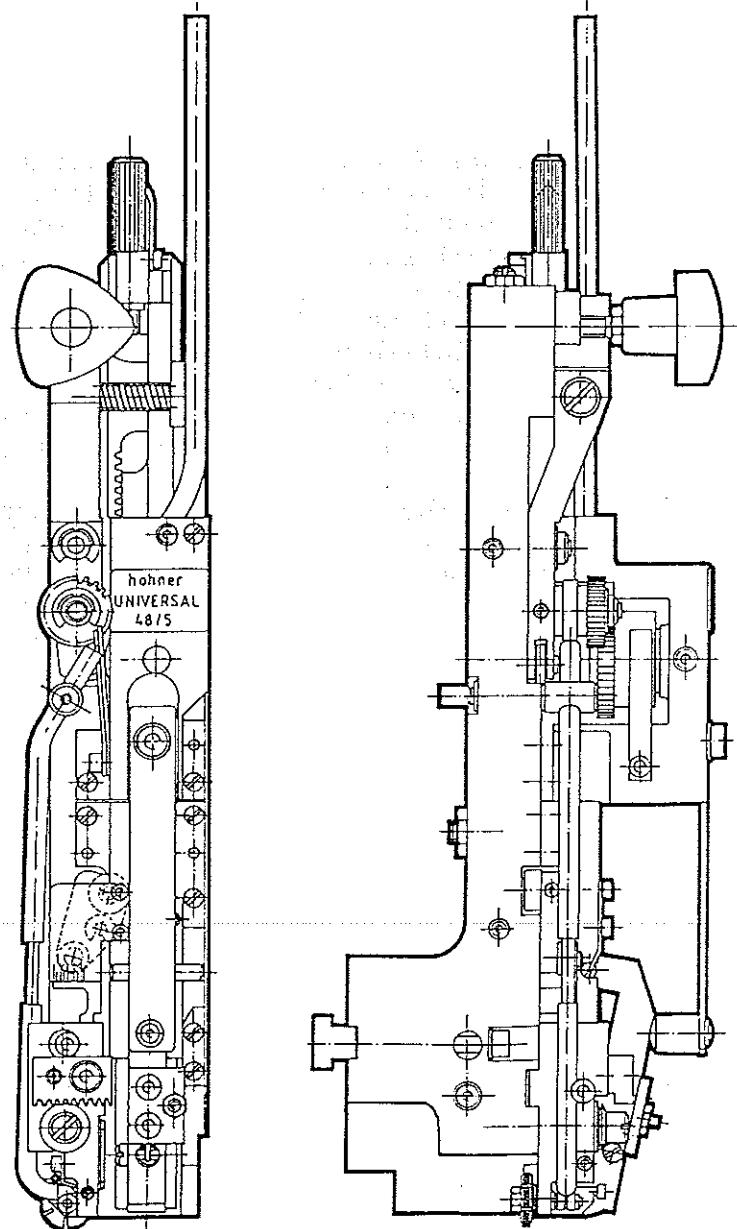


BEDIENUNGS-ANLEITUNG + ERSATZTEILLISTE Seite 1
OPERATING INSTRUCTIONS + SPARE PARTS LIST page 21
MODE D'EMPLOI + LISTE DES PIECES DE RECHANGE ... page 41

SCHMALHEFTKOPF
NARROW STITCHING HEAD
TETE DE PIQUAGE ETROITE

Lub-Free

48/5s

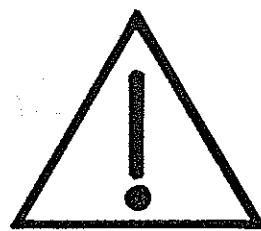


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AUSGABE-EDITION 20.01.1994

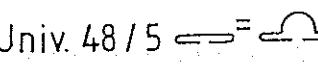


ACHTUNG

1. Vor Inbetriebnahme des Schmalheftkopfes, bzw. vor Arbeiten an der Maschine unbedingt Hohner-Bedienungsanleitung durchlesen und alle Warnungen an der Maschine beachten.
Nichtbeachten dieser Vorschrift kann zu schweren Verletzungen führen.
2. Maschine nicht bedienen, bevor alle Schutzvorrichtungen, Verschlüsse und andere Sicherheitsvorrichtungen funktionieren, bzw. angebracht sind.
3. Vor Reparaturen und Montagearbeiten stets Stromzufuhr unterbrechen und Sicherheitsschalter (Hauptschalter) auf 0 stellen.

Der Verwender ist dafür verantwortlich, daß die Maschine zu jeder Zeit sicher arbeitet und die Bedienungsperson sich an den Vorschriften in dieser Bedienungsanleitung orientiert. Bei allen, die sichere Bedienung der Maschine betreffenden Fragen, wenden Sie sich bitte an Ihren Vorgesetzten, die nächste Hohner-Vertretung oder direkt an Hohner Maschinenbau GmbH.

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Chapter I: General and services

① Technical data

a) standard stitching

The min. distance between staples depends on the stitching thickness:

0-1 mm = 48 mm
2 mm = 49 mm
3 mm = 50 mm
4 mm = 52 mm
5 mm = 54 mm

Crown width: 14 mm

Execution for the following sorts of wire:

round stitching wire no. 24-28 (0,60 - 0,40 mm dia.)
round stitching wire no. 26-30 (0,50 - 0,35 mm dia.)

Please only use name brand steel, in normal or extra high tension steel versions, depending on usage. By heavy scuffing of wire, scuff resistibility causes wire tubes to clog. Use of ligure wire is not recommended.

Net weight: approx. 3,2 kgs

b) loop stitching

The min. distance between staples depends on the stitching thickness:

0-1 mm = 50 mm
2 mm = 52 mm
3 mm = 54 mm

Crown width: 14 mm

Execution for the following sort of wire:

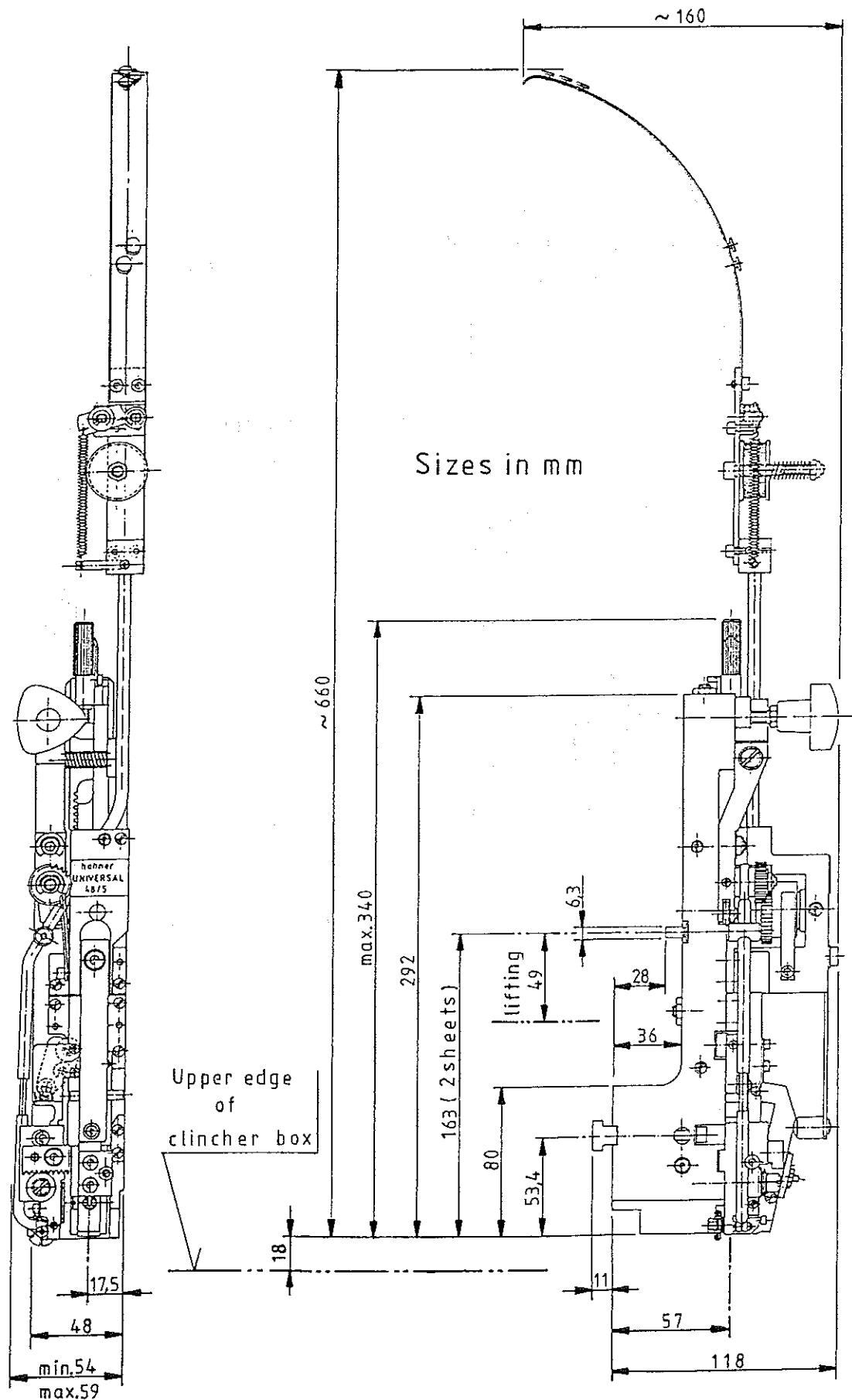
round stitching wire no. 24-28 (0,60 - 0,40 mm dia.)

Please only use name brand steel, in normal or extra high tension steel versions, depending on usage. By heavy scuffing of wire, scuff resistibility causes wire guides to clog.

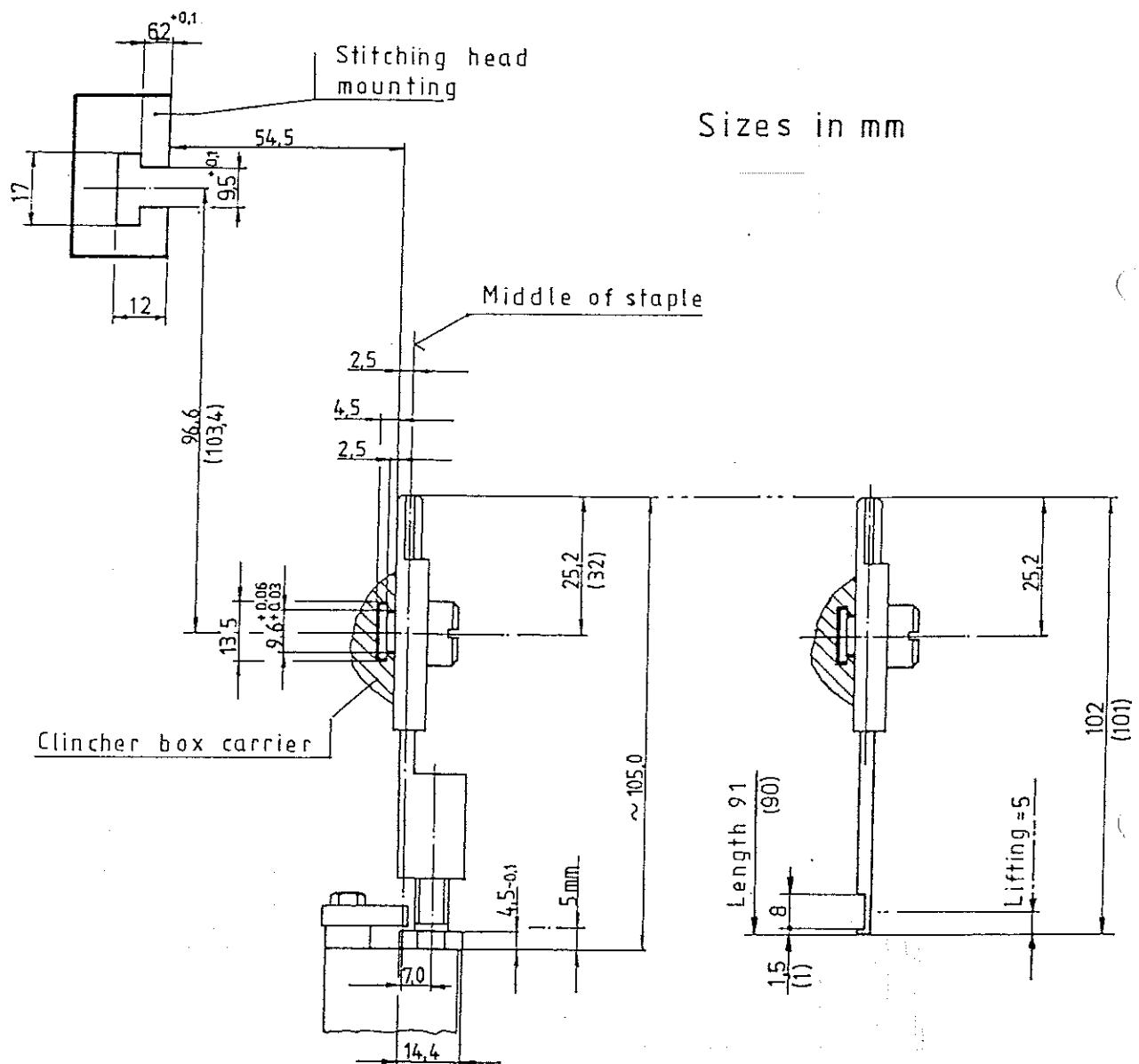
Net weight: approx. 3,2 kg

2a

Foundation plan of the Universal 48 / 5



(2b) Foundation plan of the clincher box
and stitching head mounting



(3) Supply schedule

Every new UNIVERSAL 48/5 is supplied with:

Equipment:

1 wire feeding spring

1 clincher box cpl. with clinchers and clincher pusher

Tools:

| | |
|---------------------------|-------------------|
| 1 allen key SW 2 | Art.-No.: 4600006 |
| 1 allen key SW 2,5 | 4600007 |
| 1 allen key SW 6 | 4600010 |
| 1 allen key - T-grip SW 4 | 4600024 |
| 1 adjusting lever | 9465205 |

(4) Lube specification

Apply a first-rate oil only, never a viscous mineral oil, spray lubricants, nor a light oil for sewing machine. 30 W - 50 W recommended. For the one way bearing, Kluber NBU-15 must be used (available through your Hohner-dealer).

We recommend:

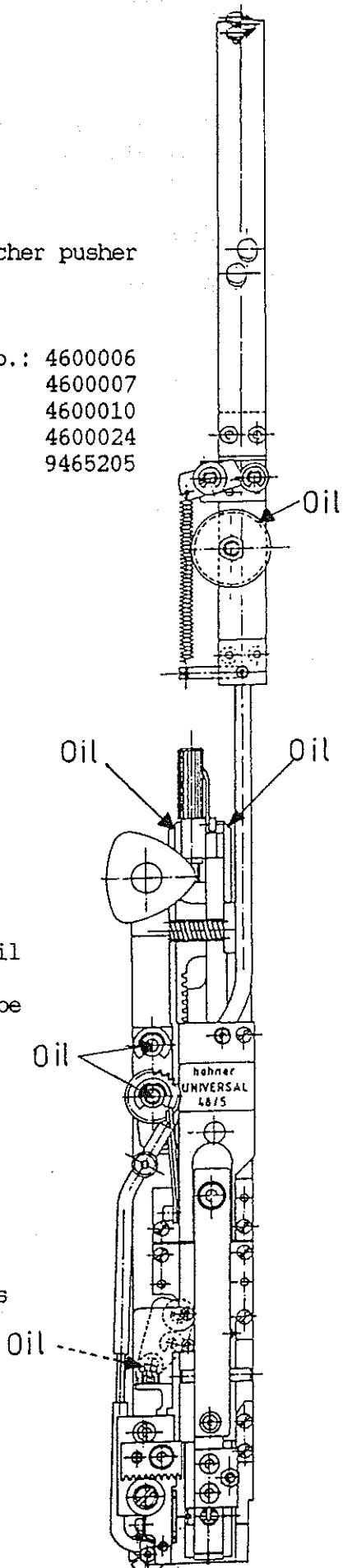
Sliding oil with viscosity grade 65-70
(ISO-viscosity grade according to DIN 51519)

Oiling: how often?

In case of need (approx. every 16 working hours)

From time to time slightly oil the felt disks on the wire feeding spring.

Please observe all these regulations carefully to guarantee a faultless operation.

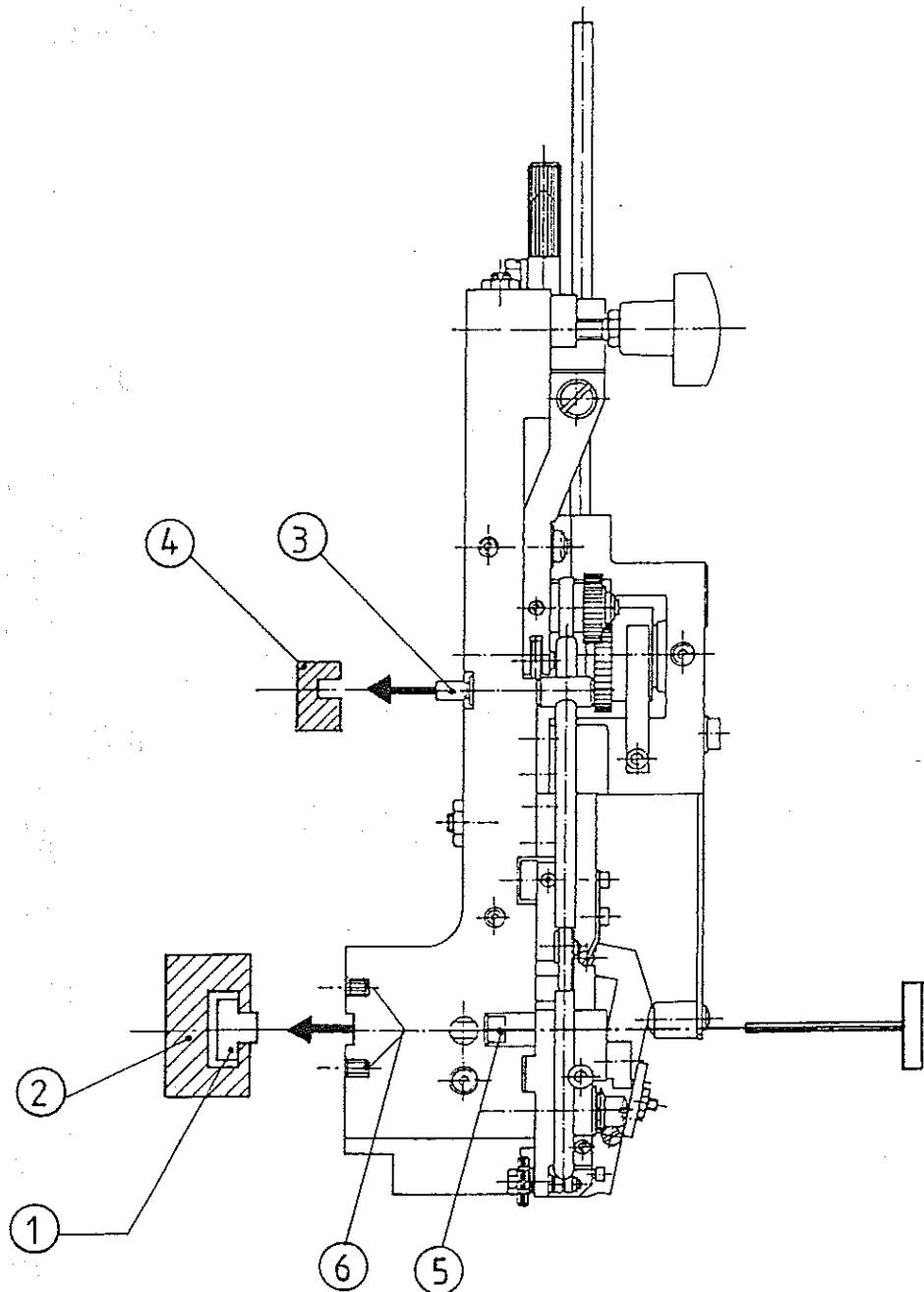


⑤ Installation and adjustment of the Univ. 48/5

Insert mounting block ① into mounting channel ② laterally. Insert the stitching head over the protruding journal of the mounting block ①, taking caution that the nose of the carrier ② properly seats in the groove of the main drive bar ④.

Tighten allen cap screw ⑤ with the delivered allen key - T-grip SW 4.

By loosing allen set screw ⑥ the stitching head can be adjusted to the clincher box.

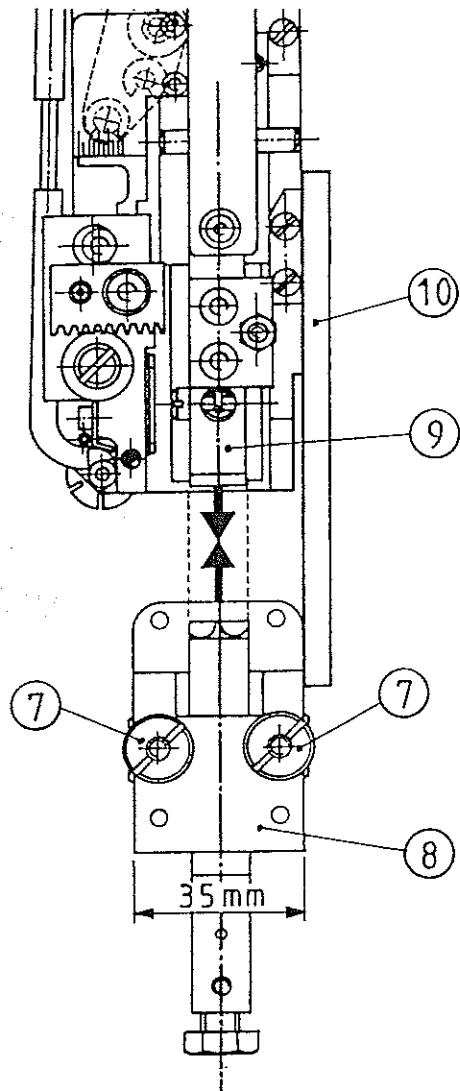


⑥ Fine adjustment of the clincher box

Loosen clamping screws ⑦. Adjust the clincher box ⑧ by moving it laterally until it is centered with the driver.

The middle of the former ⑨ must be exactly in alignment with the middle of the clincher box ⑧.

It is helpful to use a straight flat material (i. e. a ruler). The flat material ⑩ is put against the right side of the UNIVERSAL 48/5. Then, move the clincher box ⑧ (35 mm wide) to the right side against the flat material ⑩ until it stops. Tighten the clamping screws ⑦.



⑦ Inserting the wire

Turn off the wire transport (Turn orange knob ⑪ to the right).

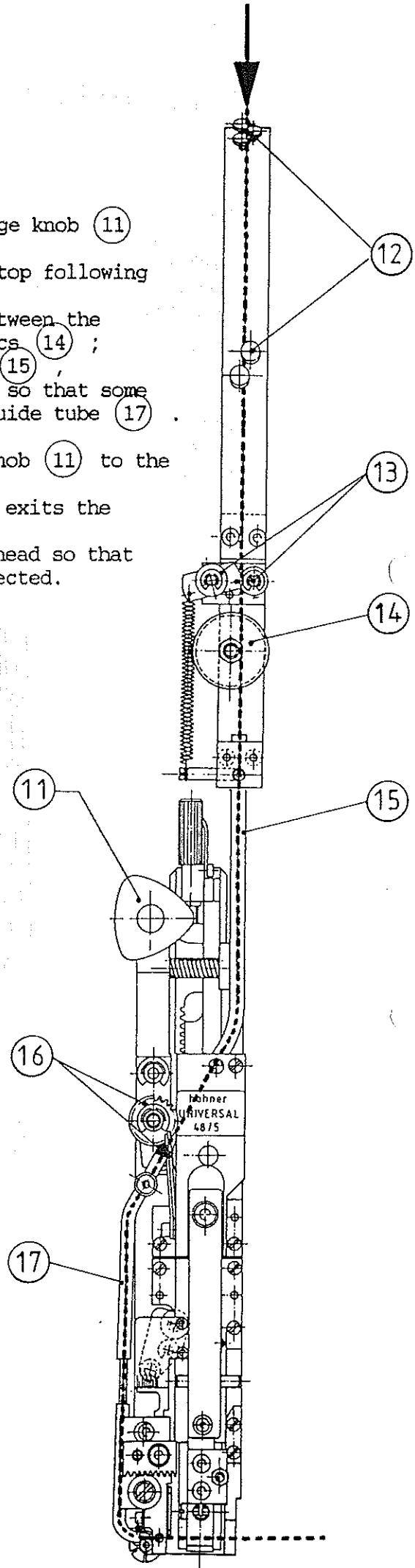
Push stitching wire through from the top following these steps:

Thread wire through eyelets ⑫, between the wire discs ⑬ and the both felt discs ⑭; then through the top wire guide tube ⑮, between both transporting wheels ⑯ so that some wire is inserted in the middle wire guide tube ⑰. Remove the former.

Turn on wire transport (Turn orange knob ⑪ to the left).

Let the unit run until the first wire exits the cutting box.

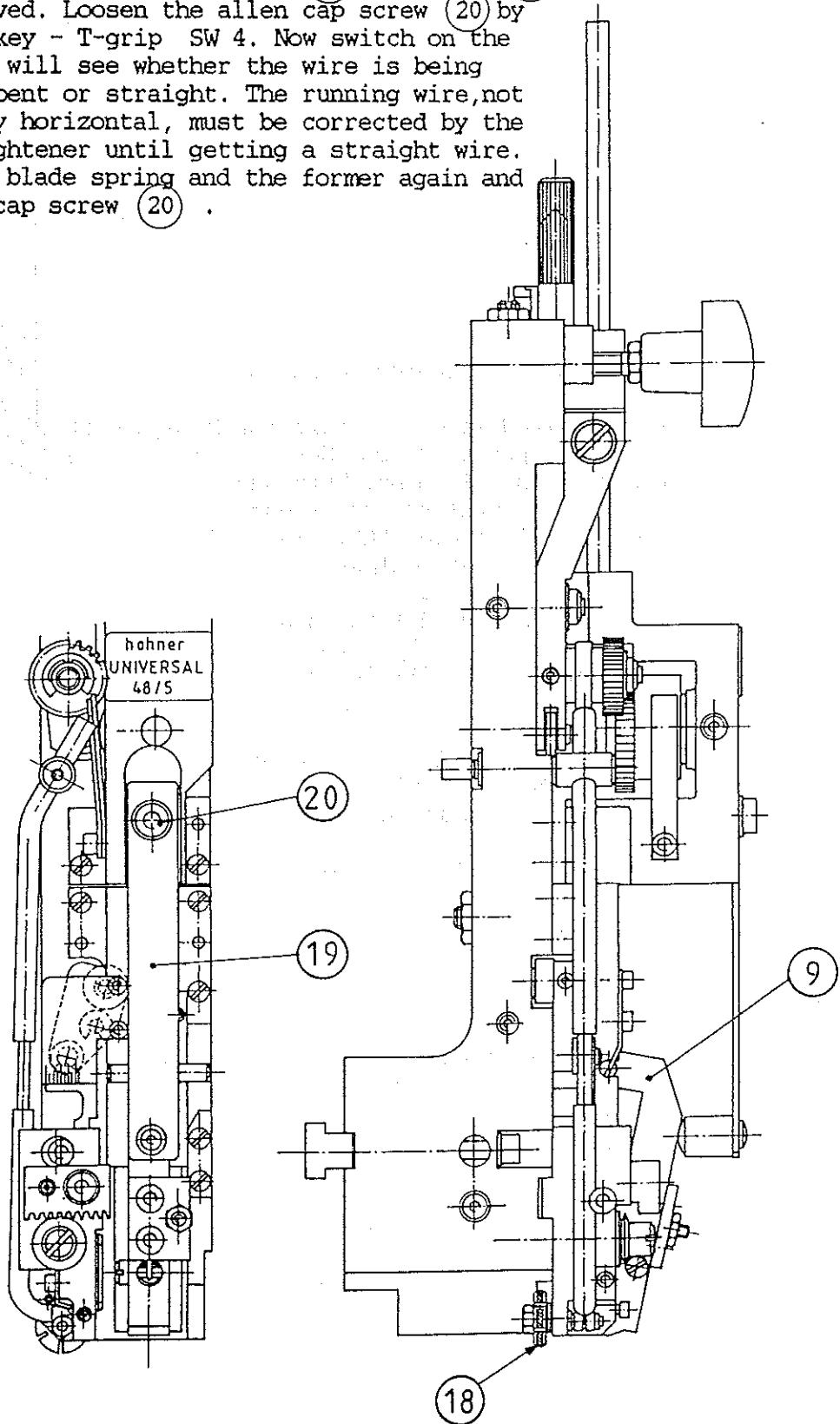
Place some paper under the stitching head so that wire segments and staples can be collected.



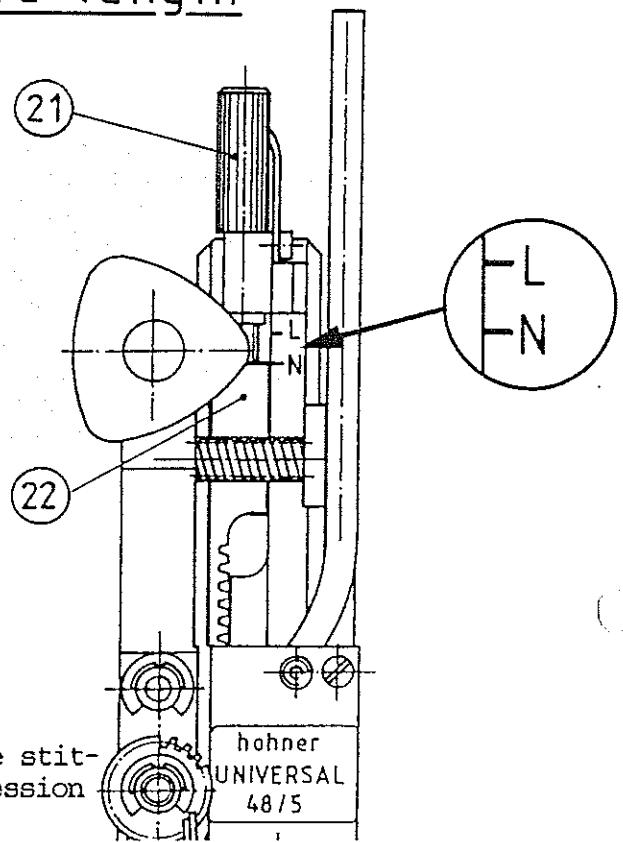
⑧

Straightening of the wire

The wire must be straight for stitching. If it is not straight or if any difficulties appear, try to change the course of the wire by slightly turning the knurled nut ⑯ by using an allen key. If this is unsuccessful blade spring ⑰ and former ⑲ must be removed. Loosen the allen cap screw ⑳ by using allen key - T-grip SW 4. Now switch on the unit and you will see whether the wire is being transported bent or straight. The running wire, not being exactly horizontal, must be corrected by the roller-straightener until getting a straight wire. Assemble the blade spring and the former again and tighten the cap screw ⑳.



⑨ Basic setting of wire length



a) standard stitching

The required length of wire for 2-page stitching is approx. 26 mm. Set the compression for 2-pages stitching. Turn adjusting screw (21) until the upper edge of the gear rack (22) indicates "N". Finer adjustment are then attained as follows:

Adjusting screw (21) is turned to the right
= longer wire

Adjusting screw (21) is turned to the left
= shorter wire

This adjustment is necessary only once, and that is when the stitching head is installed and compression is set.

Caution!

A slight correction may be necessary when heavier gauge wire is intended for use.

b) for loop stitching

The required length of wire for 2-page stitching is approx. 32 mm. Set the stitching unit for 2-page stitching. Turn adjusting screw (21) until the upper edge of the gear rack (22) indicates "L". Finer adjustments are then attained as follows:

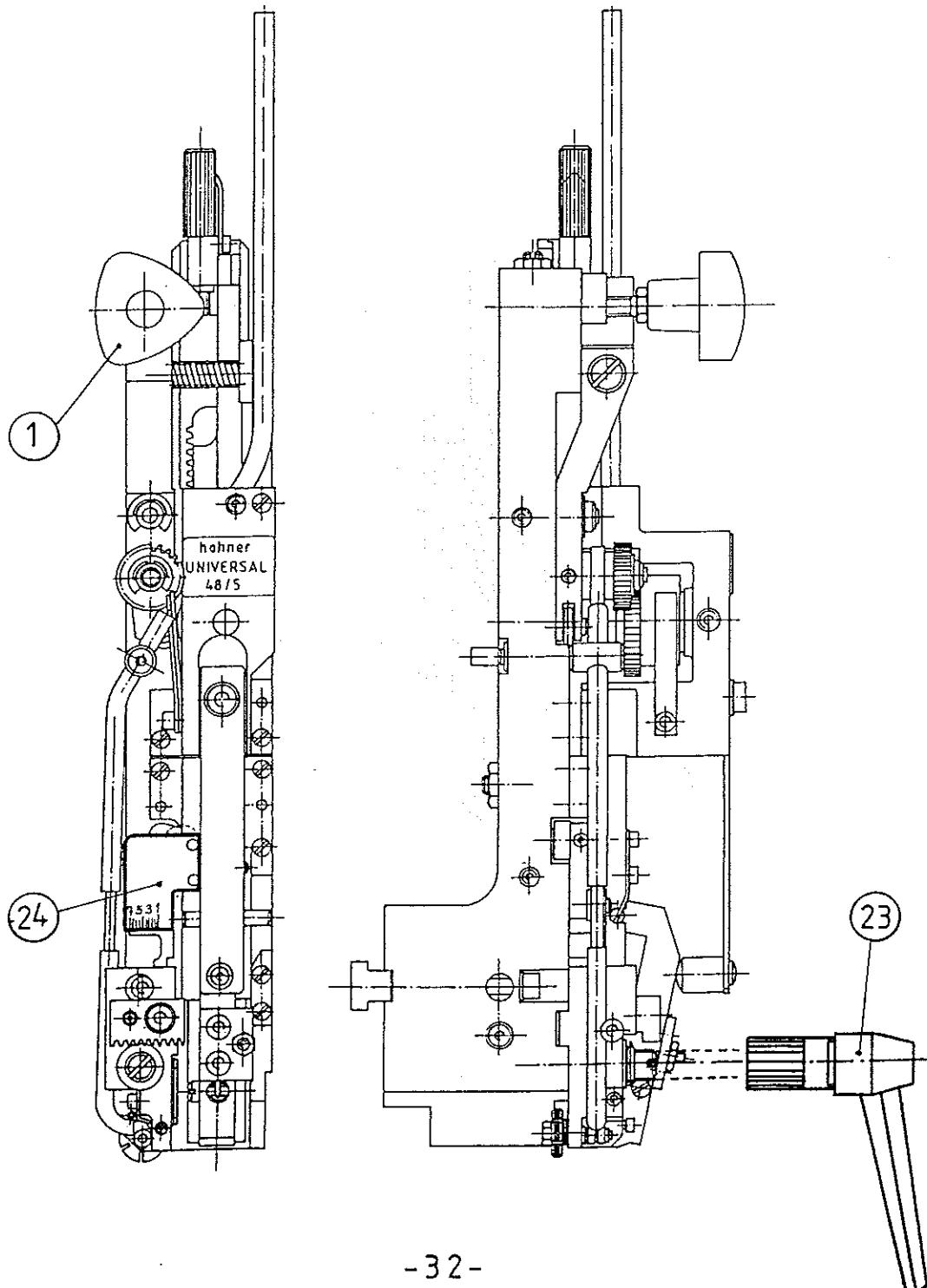
Adjusting screw (21) is turned to the right
= longer wire

Adjusting screw (21) is turned to the left
= shorter wire

This adjustment is necessary only once, and that is when the stitching head is installed and compression is set.

⑩ Setting of leg length

Upon completion of overall wire length setting, the individual clinched legs must be set so they are of equal length. Turn off the wire transport ①. With adjusting lever ②3 rotate clockwise = lengthens the right leg/shortens left, rotate counter clockwise = lengthens the left leg/shortens right. With this adjustment you are merely centering the wire in the former. An equal length of wire showing on both sides of the former is desired.

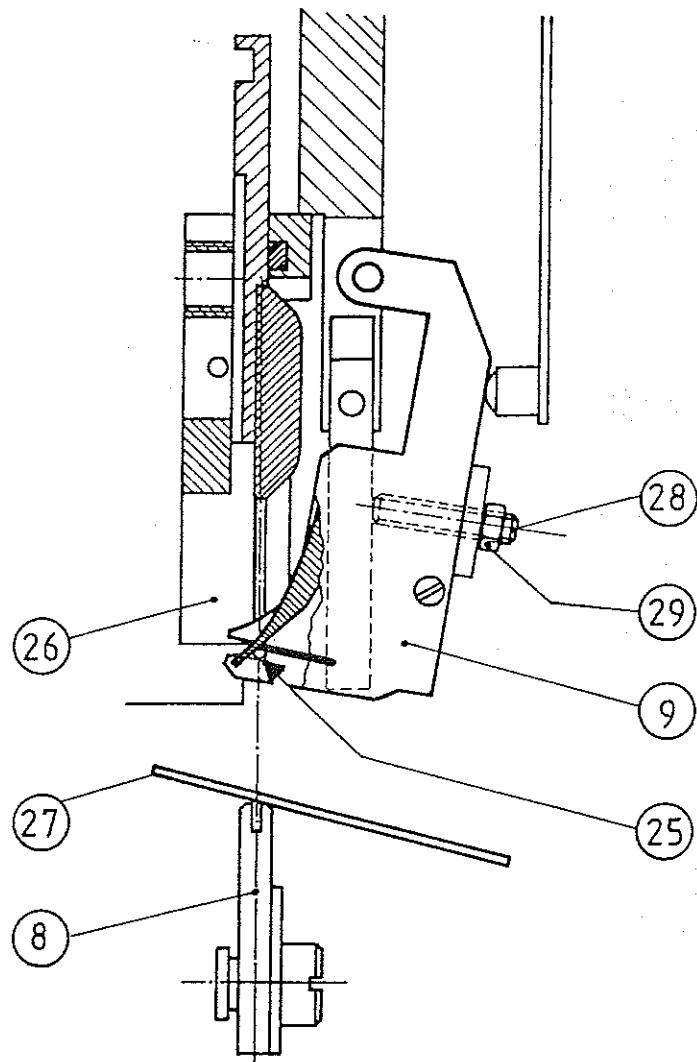


(11) Alignment of former

The stitching will be correct only when the former (9) swings in so far that the stitching wire (25) comes exactly under the middle of the groove of the bender (26). This can be controlled exactly by laying a mirror (27) on the clincher box (8), by that means the position of the former respecting the wire can be seen clearly. A correction eventually necessary can be obtained by adjusting the adjusting screw (28).

Important!

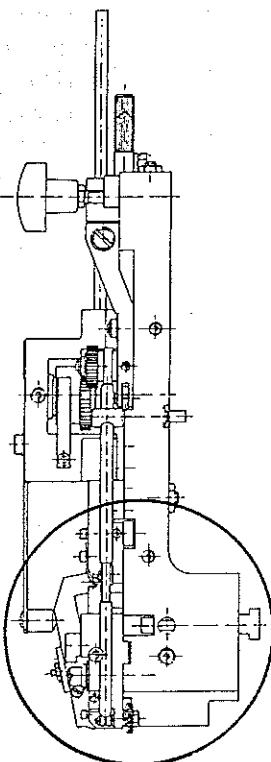
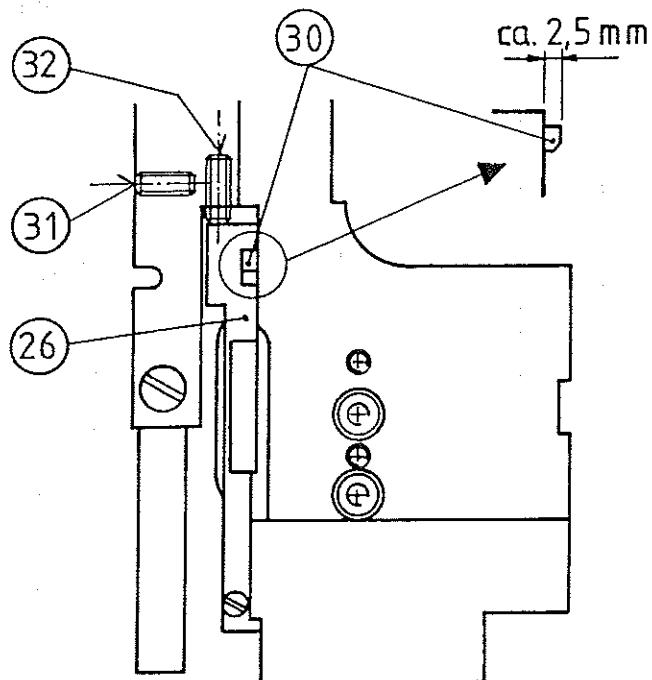
After adjustment tighten nut (29) again carefully.



(12) Alignment of bender

Before checking this adjustment, your machine must be set for the minimum book thickness (0 compression). To maintain a proper function, the stitching head must be adjusted to the stroke of your machine which is roughly done at our factory. A correction is only then necessary, if the divert blade (30) in the bender (26) does not come out

laterally 2,5 mm when the head is at its highest position. If an adjustment is necessary, place the stitching unit to the lowest position and remove the former. Loosen hex-socket screw (31) and unscrew the adjusting screw (32) 1 - 2 turns. After adjustment tighten hex-socket screw again. Now switch on the unit and examine if the divert blade come out enough. Repeat this procedure until the function is correct. The divert blade (latch) should pop out slightly prior to top dead center.



(13) Exchange of knives

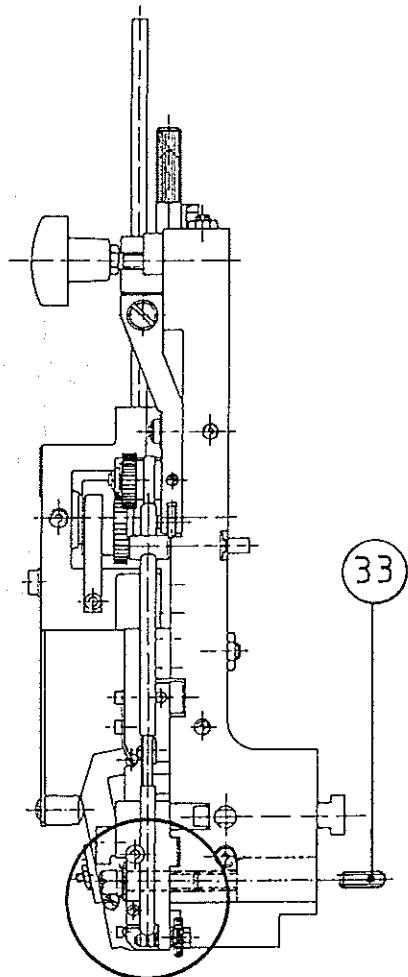
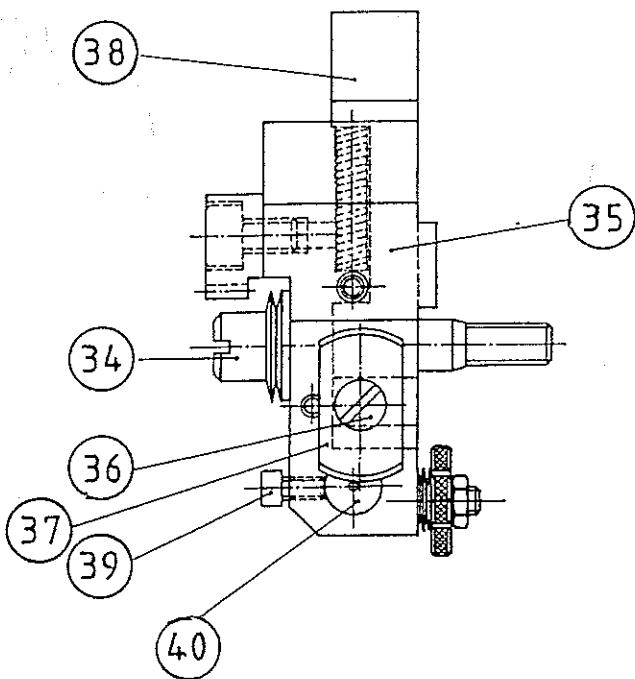
The quality of the stitching mainly depends on the condition of the knives. The knives can be used several times by turning them some degrees.

a) exchange of flat knife

Loosen flat head screw (33), remove stand-up bolt (34) and remove the cutting box (35). Loosen the flat head screw (36) at the flat knife (37) and exchange the blade. Assemble in reversed order and make sure that the stand-up bolt (34) is tightened so strongly that the cutting box (35) can only be slightly adjusted when using the adjusting lever (see chapter 10).

b) exchange of round knife

Loosen flat head screw (33). Remove stand-up bolt (34) and remove cutting box (35). Carefully remove cutting pusher (38) (the installed compression spring is under pressure). Loosen allen cap screw (39) and squeeze out round knife (40) from the left. Exchange round knife. Assemble in reversed order. When assembling the new round knife you must pay attention that the round knife (40) projects so far that an absolute cutting effect with the counter cutting edge results. For best results push in the new round knife and adjust it at the flat knife (37) pressed down. Tighten allen cap screw (39) again. Make sure that the stand-up bolt (34) is tightened so strongly that the cutting box (35) can only be slightly adjusted when using the adjusting lever (see chapter 10).



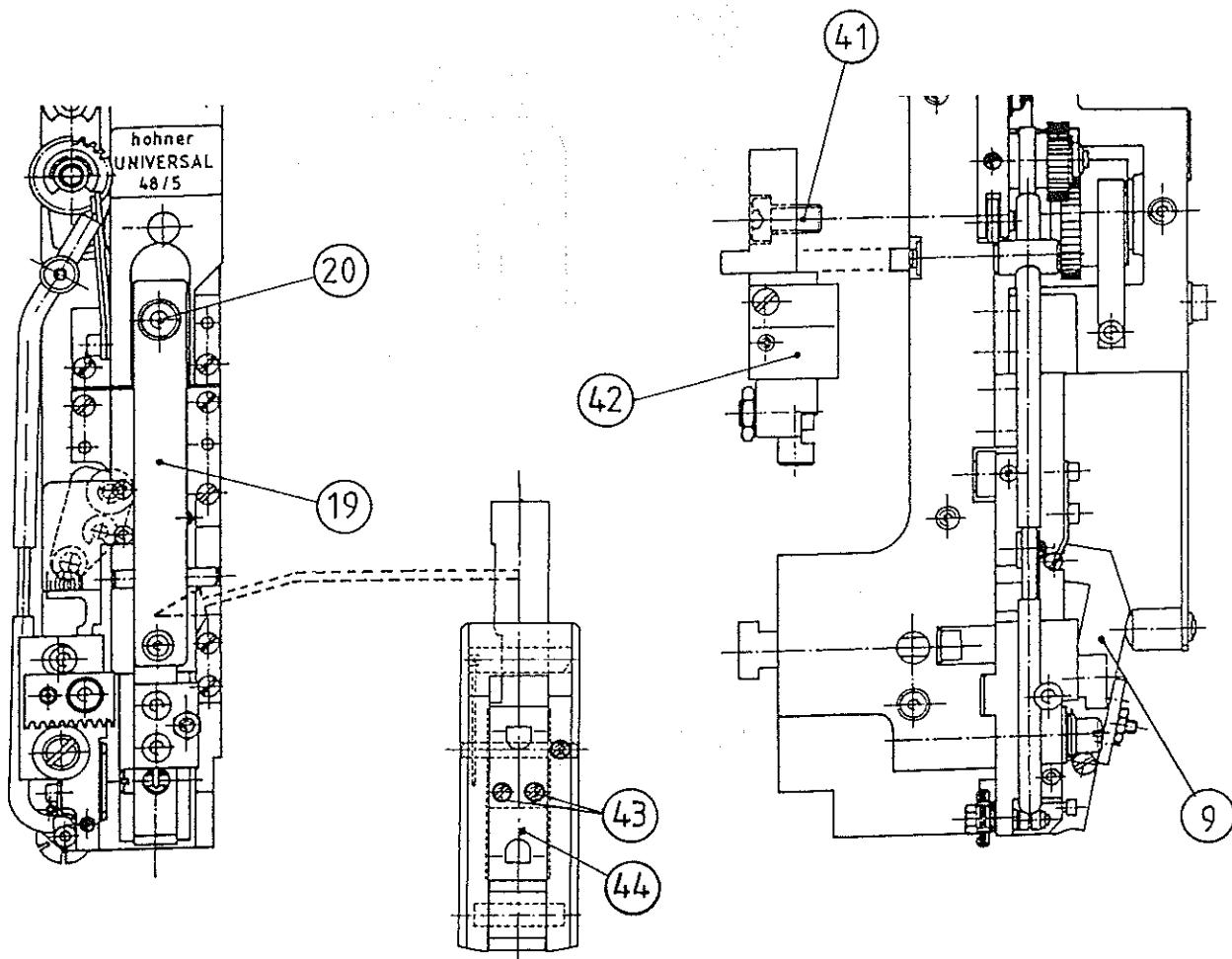
(14) Exchange of bender

Loosen allen cap screw 20. Remove blade spring 19 and former 9. Remove allen cap screw 41 and the corresponding carrier 42. Pull out bender downwards. Assemble in reversed order. When inserting the bender into the stitching head, the divert blade must be pressed a bit into the bender (see chapter 12 - pos. 30).

(15) Exchange of driver

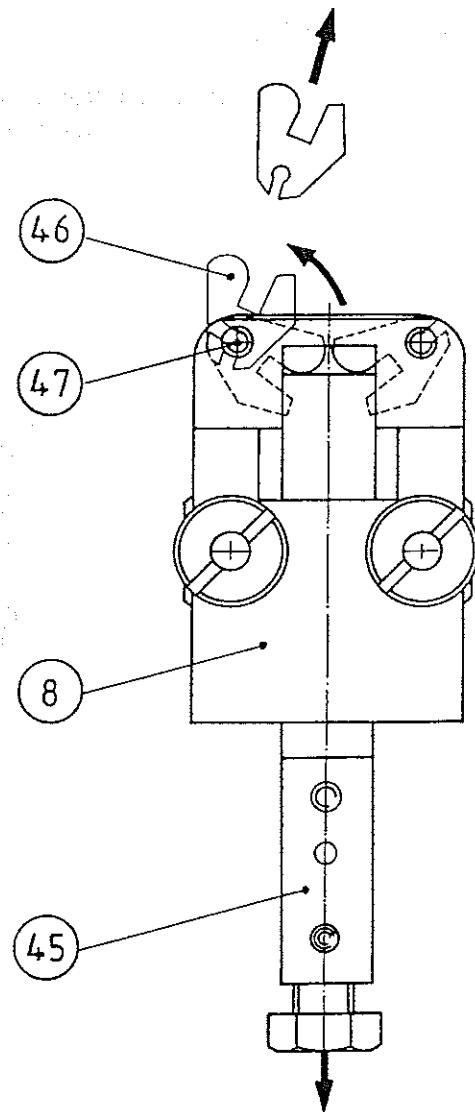
Loosen allen cap screw 20. Remove blade spring 19 and former 9. Turn out the two studs 423 in the driver 44 and pull out of the bender downwards. Assemble in reversed order.

If the lower edge of the driver is worn out, the driver can be turned round and used again.



⑯ Exchange of clinchers

Draw out clincher pusher ④5 downwards. Turn clinchers ④6 in the clincher box ⑧ upwards and extract them out of the locking bolt ④7.
Push in new clinchers into the locking bolt ④7, turn them around to the middle of the clincher box. Insert the clincher pusher again.



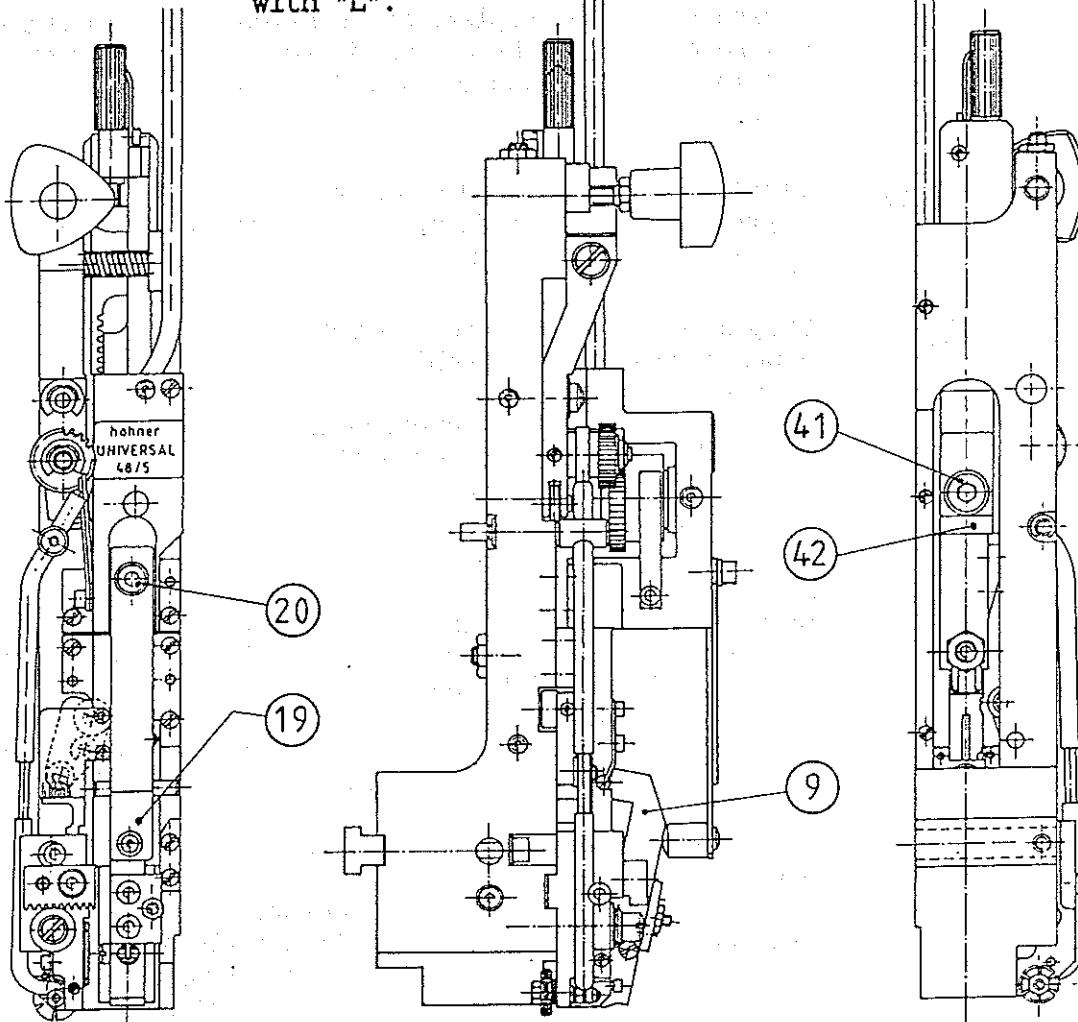
Chapter II: conversion of the Universal 48/5 to loop stitching.



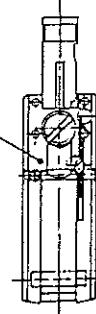
For loop stitching, a change part set consisting of the following parts is needed:

3863418 blade spring, short
9961352 bender, complete
9963410 former, complete

All parts needed for loop stitching are marked with "L".



Exchange of the loop stitching parts:
 Loosen allen cap screw 20. Remove blade spring 19 and former 9. Remove allen cap screw 41 and the corresponding driver 42. Pull out bender 26 downwards. Insert bender for loop stitching into the stitching head and make sure that divert blade is pressed a bit into the bender (see chapter 12 - post. 30). Install driver 42 and tighten allen cap screw 41. Install former for loop stitching. Put blade spring, short for loop stitching on long blade spring 19 and fasten with allen cap screw 20. Before operating, please carefully study chapter 11 and 12. Set wire length indicator at "L".



Chapter III : Troubleshooting

Here are some examples of faults with specifications of the possible causes. There are often different reasons which have to be investigated step by step. Do not apply all suggestions simultaneously but one after the other making tests in between.

Worn out parts should be exchanged.



Staple back arched:

- wire weak or soft
- wire not straightened: see chapter 8
- round or flat knife worn out: see chapter 13
- pressure of the shoe tongue weak or blocked: remove blocking wire pieces or replace compression spring in the shoe tongue
- wire groove in the driver is dirty, worn out or broken out: remove driver, see chapter 15, clean wire groove resp. exchange driver



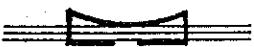
Staple back does not lay tight:

- pressure of the stitching too weak: adjust stitching unit to stitching thickness



Staple legs are not bent enough:

- pressure of the stitching too weak: adjust stitching unit to stitching thickness
- clinchers do not go upwards enough: adjust compression for the clincher lifting at the stitching unit
- timing from clincher actuation to lifting actuation not correct: stitching unit must be adjusted again at the manufacturer



Staple back does not lay tight, is saddle shaped

- pressure of the stitching too weak: adjust stitching unit to stitching thickness
- wire weak or soft
- pressure of the shoe tongue too weak or blocked: remove blocking wire pieces or replace compression spring in the shoe tongue



Staple legs rammed and are not correctly bent:

- wire weak or soft
- wire not straightened: see chapter 8
- clincher box must be aligned: see chapter 6
- staple legs not equal length: see chapter 10
- overall wire length too short: see chapter 9
- round or flat knife worn out: see chapter 13



Wire does not pierce through and builds loops:

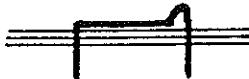
- wire weak or soft
- groove in the bender is clogged by wire pieces
- round or flat knife worn out: see chapter 13
- wire groove in the driver is dirty, worn out or broken out: remove driver, see chapter 15, clean wire groove resp. exchange driver
- shoe tongue spring too weak: remove blocking wire pieces or replace compression spring in the shoe tongue
- clincher box not aligned properly: see chapter 6



Staple legs break off.

- latch not adjusted: see chapter 12

- wire is brittle: use other wire quality
- former is blocked by wire pieces: remove wire pieces, eventually remove former
- latch spring or latch defective
- hook spring in the bender is defective
- wire size does not coincide with the wire bender parts (bender and driver)



Bulge at one staple edge:

- wire weak or soft
- driver is broken out: see chapter 15
- cutting knives are wornout: see chapter 13
- clincher box out of alignment to the head



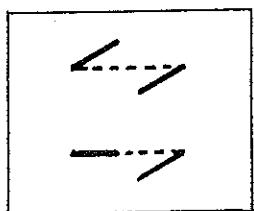
Staple legs run together or apart:

- wire not straightened: see chapter 8
- round or flat knife worn out: see chapter 13



One leg is formed wrong:

- wire not straightened: see chapter 8
- clincher box must be aligned: see chapter 6



One or both legs are formed diagonally:

- wire weak or soft
- wire not straightened: see chapter 8
- round or flat knife worn out: see chapter 13
- clinchers broken out: see chapter 16

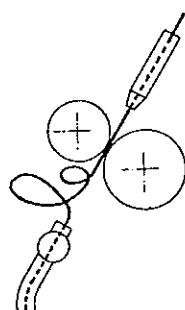


Staple legs are formed diagonally to the same side:

- wire not straightened: see chapter 8

Slightly formed wire pieces:

- wire not straightened: see chapter 8
- adjust bender latch: see chapter 12
- hook spring in the bender is defective



Snarled wire between feed wheels and wire tube:

- wire not straightened: see chapter 8
- cutting pusher is jamming: round knife is pressed against flat knife, see chapter 13b, cutting yoke is blocked, see chapter 4, compression spring in the cutting box is defective
- lower wire tube misplaced or wrongly adjusted: move slightly upwards or downwards
- former wrongly adjusted: see chapter 11
- wire tube is clogged

Troubleshooting - loop stitching

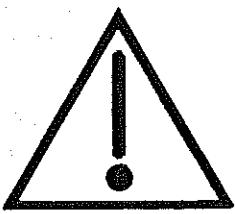


Most faults and specifications of the eventual reasons are indicated in the section before.



Only straight wire pieces appear

- adjust the double spring for the former: see operating manual, part II
- wire not straightened: see chapter 8
- oil the cleansing felt at the wire guiding spring: see chapter 4
- former wrongly adjusted: see chapter 11



ATTENTION

1. Avant de travailler avec la machine, il convient absolument de lire le mode d'emploi Hohner et de respecter toutes les indications se trouvant sur la machine même. Le non-respect de cette recommandation peut entraîner de graves ennuis.
2. Ne pas mettre la machine en marche tous les systèmes de sécurité et de protection aient été mis en place.
3. Couper le courant avant toute réparation et ramener l'interrupteur de sécurité (interrupteur principal) à 0.

Le responsable devra s'assurer de la bonne utilisation de la machine. Le conducteur sera tenu de respecter toutes les prescriptions du mode d'emploi. En cas de problème, s'adresser à la Société HOHNER ou à son représentant.

TEIL IV

CHAPTER IV

CHAPITRE IV

ERSATZTEILELISTE

SPARE PARTS LIST

LISTE DES PIECES DE RECHANGE

Wichtig:

Bei Bestellung bitte angeben:

- Menge
- Art.-Nummer
- Maschinen-Nummer

Attention:

In case of order please indicate:

- Quantity
- Art.-Number
- Machine-Number

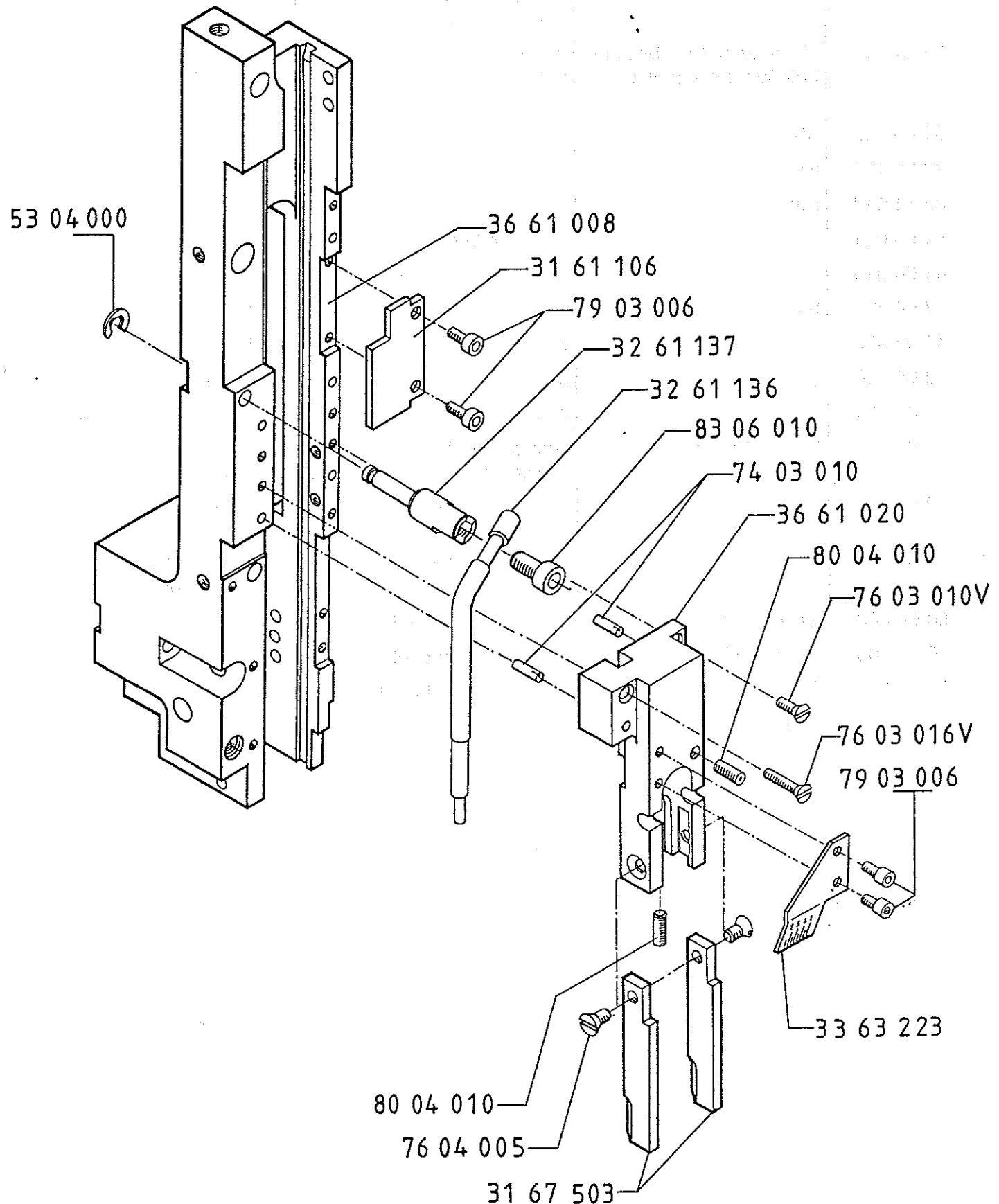
Attention:

En cas de commande veuillez s.v.p. indiquer:

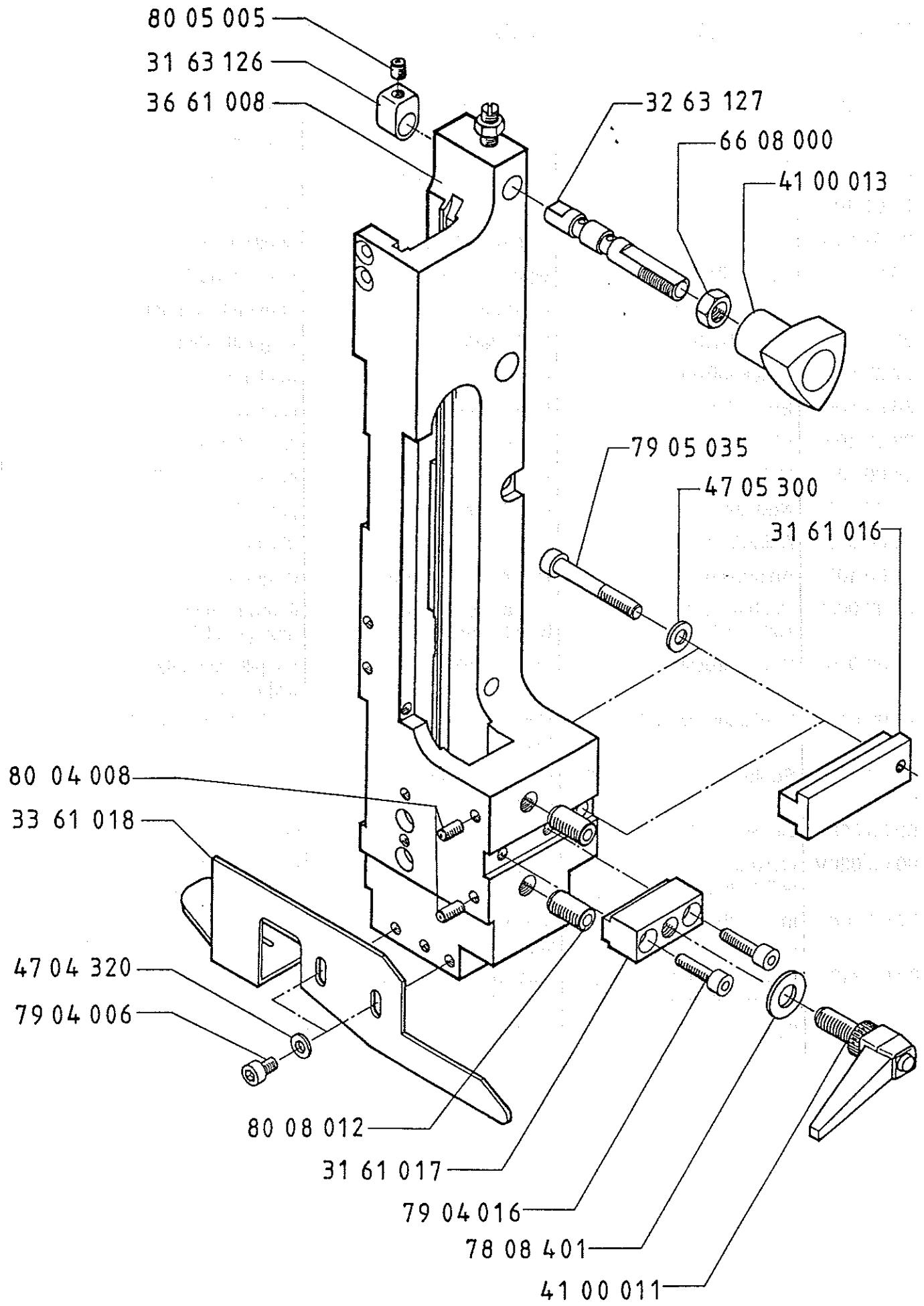
- Quantité
- No. d'article
- No. de la machine

- Technische Änderungen vorbehalten -
- modifications reserved -
- changements réservés -

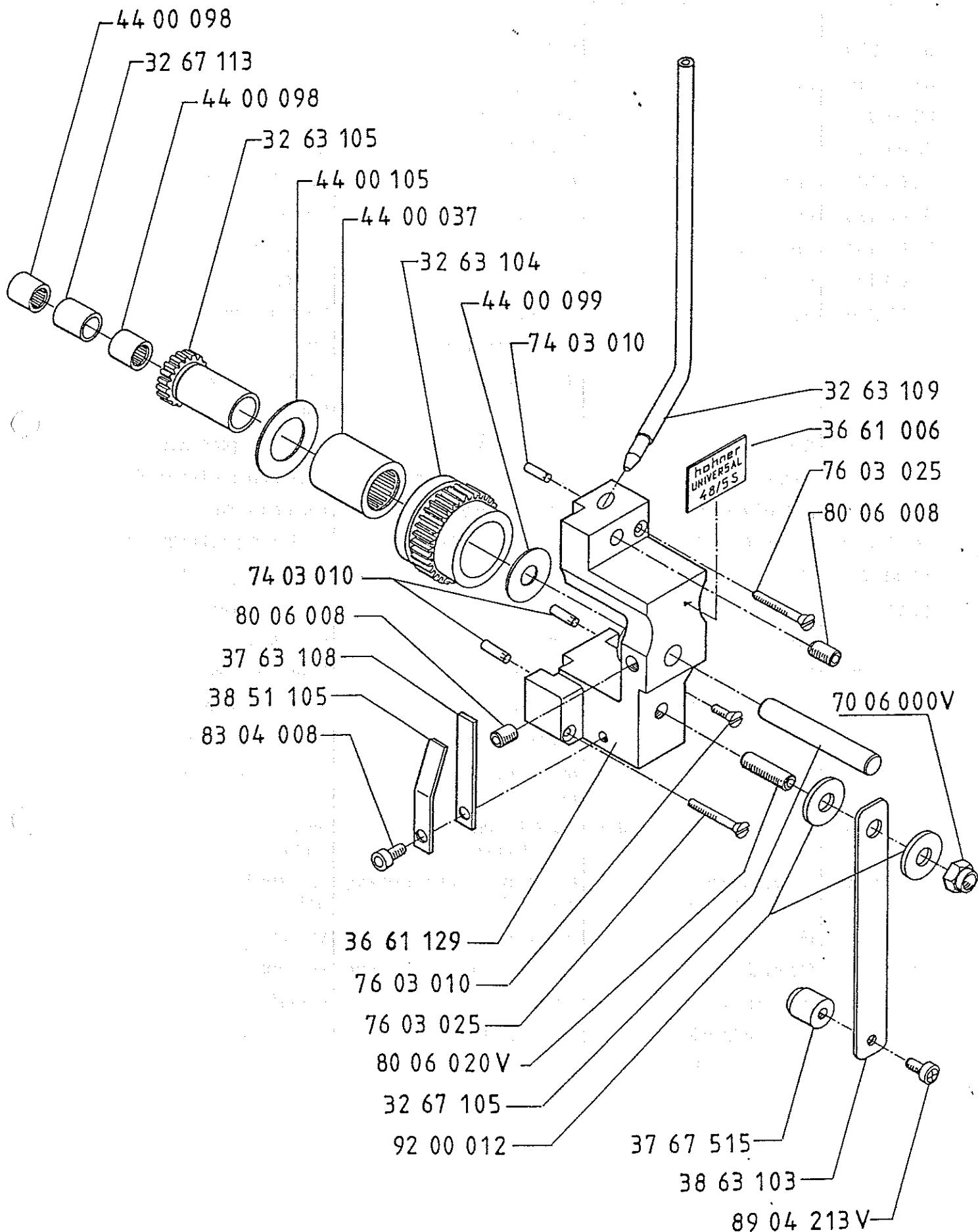
| Art.-No. | Bezeichnung | Description | Description |
|------------|--|--|--|
| 31 61 106 | Lagerplatte | bearing plate | plaque d'appui |
| 31 67 503 | Drahtführung | wire guide | guidance du fil |
| 32 61 136 | Mittelrohr | wire tube, middle | tube milieu |
| 32 61 137 | Mittelrohrhalter | wire tube holder, middle | support du tube de guidance du fil, milieu |
| 33 63 223 | Schildhalter | etikett-holder | support échelle |
| 36 61 008 | Gehäuse | housing | boîtier |
| 36 61 020 | Deckel, unten | cover, lower | couvercle, en bas |
| 53 04 000 | Sicherungsscheibe | retaining washer | bague de frein |
| 74 03 010 | Steckkerbstift | grooved pin | goupille cannelée, d'ajustage |
| 76 03 010V | Senkschraube mit Schlitz selbstsichernd | slotted countersunk head screw, self locking | vis à tête conique à fente, freinage interne |
| 76 03 016V | Senkschraube mit Schlitz selbstsichernd | slotted countersunk head screw, self locking | vis à tête conique à fente, freinage interne |
| 76 04 005 | Senkschraube mit Schlitz | slotted countersunk head screw | vis à tête conique à fente |
| 79 03 006 | Inbusschraube | hexagon socket head cap screw | vis à tête cylindrique à six pans creux |
| 80 04 010 | Gewindestift | hexagon socket set screw | vis sans tête |
| 83 06 010 | Zylinderschraube niedr. Kopf. | hexagon socket head cap screw, low head | vis à tête cylindrique tête basse |



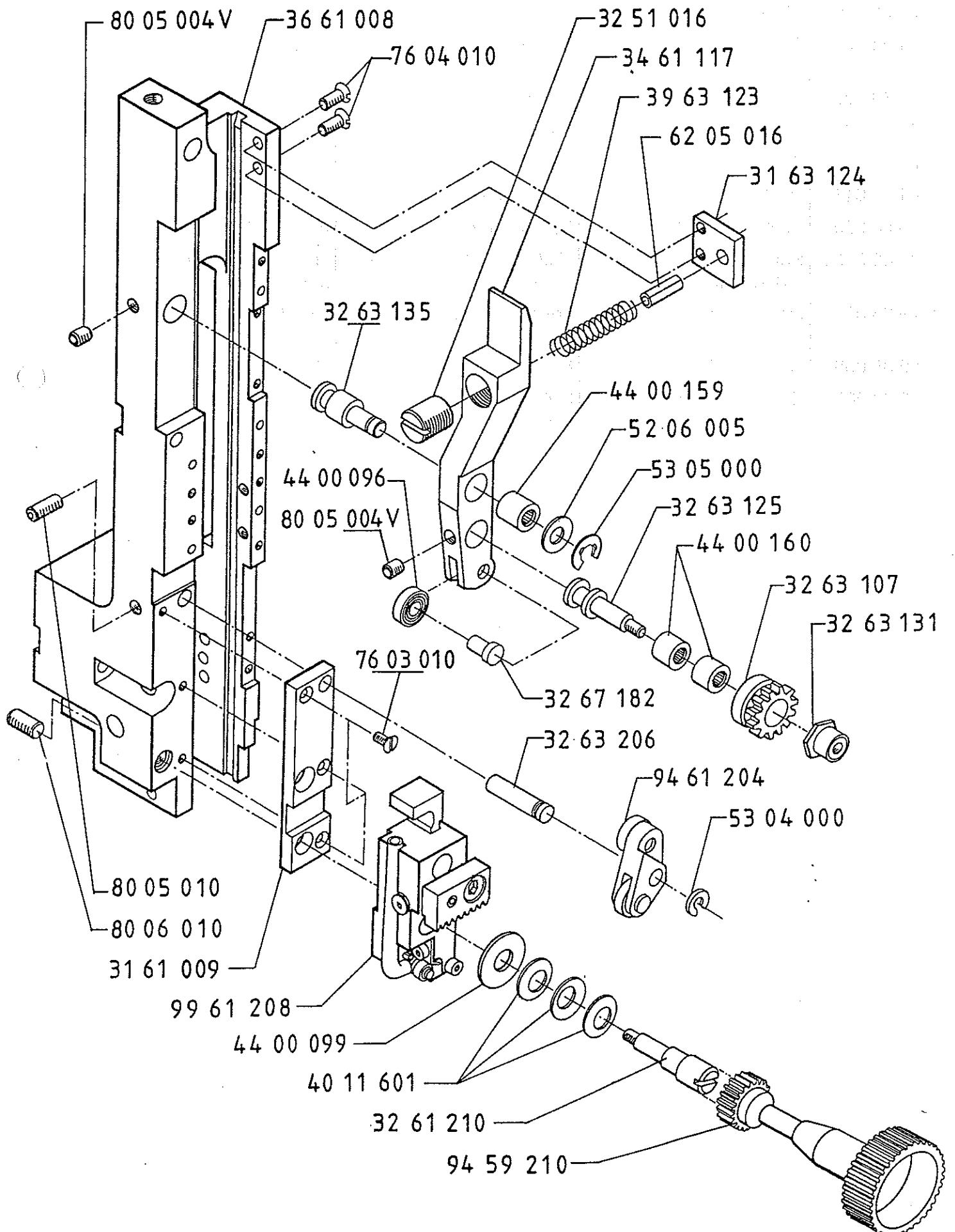
| Art.-No. | Bezeichnung | Description | Description |
|-----------|---|--|--|
| 31 61 016 | Nutenstein, (für Heftkopf-befestigung von vorne) | key way stone, (mounting of the stitching head from the front) | clavette de rainure (fixation de la tête depuis le front) |
| 31 61 017 | Nutenstein, (für Heftkopf-befestigung von hinten) | key way stone, (mounting of the stitching head from behind) | clavette de rainure (fixation de la tête depuis l'arrière) |
| 31 63 126 | Abstellexzenter | eccentric stop | excentrique d'arrêt |
| 32 63 127 | Exzenterachse | eccentric axle | axe excentrique |
| 33 61 018 | Führungsblech | tin guide | tôle de guidage |
| 41 00 011 | Klemmhebel | clamping lever | levier de serrage |
| 41 00 013 | Dreikantgriff | three-square handle | poignée à trois pans |
| 47 04 320 | Scheibe | washer | rondelle |
| 47 05 300 | Scheibe | washer | rondelle |
| 66 08 000 | Sechskantmutter | hexagon nut | écrou hexagonal |
| 78 08 401 | Scheibe | washer | rondelle |
| 79 04 006 | Inbusschraube | hexagon socket head cap screw | vis à tête cylindrique à six pans creux |
| 79 04 016 | Inbusschraube | hexagon socket head cap screw | vis à tête cylindrique à six pans creux |
| 79 05 035 | Inbusschraube | hexagon socket head cap screw | vis à tête cylindrique à six pans creux |
| 80 04 008 | Gewindestift | hexagon socket set screw | vis sans tête |
| 80 05 005 | Gewindestift | hexagon socket set screw | vis sans tête |
| 80 08 012 | Gewindestift | hexagon socket set screw | vis sans tête |



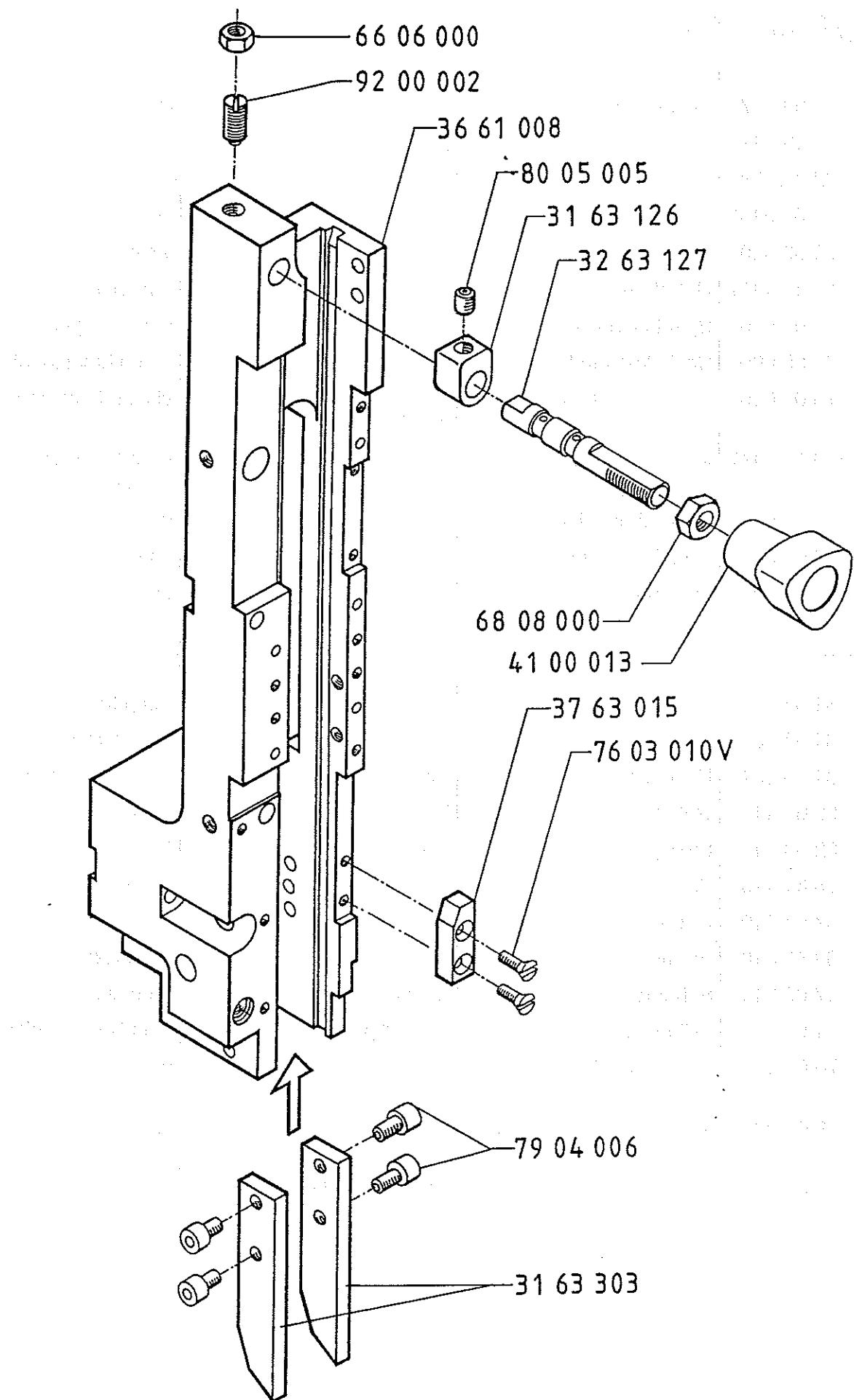
| Art.-No. | Bezeichnung | Description | Description |
|------------|---|--|--|
| 32 63 104 | Transportrad | transport wheel | roue de transport |
| 32 63 105 | Freilaufnabe | hub, free running above | moyeau, course libre |
| 32 63 109 | Drahtrohr, oben | wire tube, above | tube de fil, en haut |
| 32 67 105 | Achse | axle | axe |
| 32 67 113 | Distanzhülse | distance sleeve | douille de distance |
| 36 61 006 | Typschild 48/5 S | type plate 48/5 S | plaq. caractéristique 48/5S |
| 36 61 129 | Deckel, oben | cover, top | couvercle, en haut |
| 37 63 108 | Bremsleiste | brake badge | languette de frein |
| 37 67 515 | Druckbolzen | compression bolt | boulon de pression |
| 38 51 105 | Bremsfeder | brake spring | ressort de frein |
| 38 63 103 | Blattfeder | leaf spring | ressort à lames |
| 44 00 037 | Hülsenfreilauf | sleeve free-wheel | douille de roue libre |
| 44 00 098 | Nadelhülse | needle bearing | palier à aiguilles |
| 44 00 099 | Anlaufscheibe | spacer, feed wheel | disque axiale |
| 44 00 105 | Anlaufscheibe | spacer, feed wheel | disque axiale |
| 70 06 000V | Sechskantmutter, selbstsichernd | prevailing torque, type hexagon nut | écrou de sécurité hexagonal à frein |
| 74 03 010 | Steckkerbstift | grooved pin | goupille cannelée d'ajustage |
| 76 03 010 | Senkschraube mit Schlitz | slotted countersunk head screw | vis à tête conique à fente |
| 76 03 025 | Senkschraube mit Schlitz | slotted countersunk head screw | vis à tête conique à fente |
| 80 06 008 | Gewindestift | hex. socket set screw | vis sans tête |
| 80 06 020V | Gewindestift, selbstsichernd | hex. socket set screw, self locking | vis sans tête freinage interne |
| 83 04 008 | Inbusschraube niedr. Kopf | hex. socket head cap screw, low head | vis à tête cylindrique, tête basse |
| 89 04 213V | Linsen-Blechschraube, selbstsichernd | cross recessed pan head tapping screw | vis à tôle à tête ronde bombée |
| 92 00 012 | Scheibe | washer | rondelle |



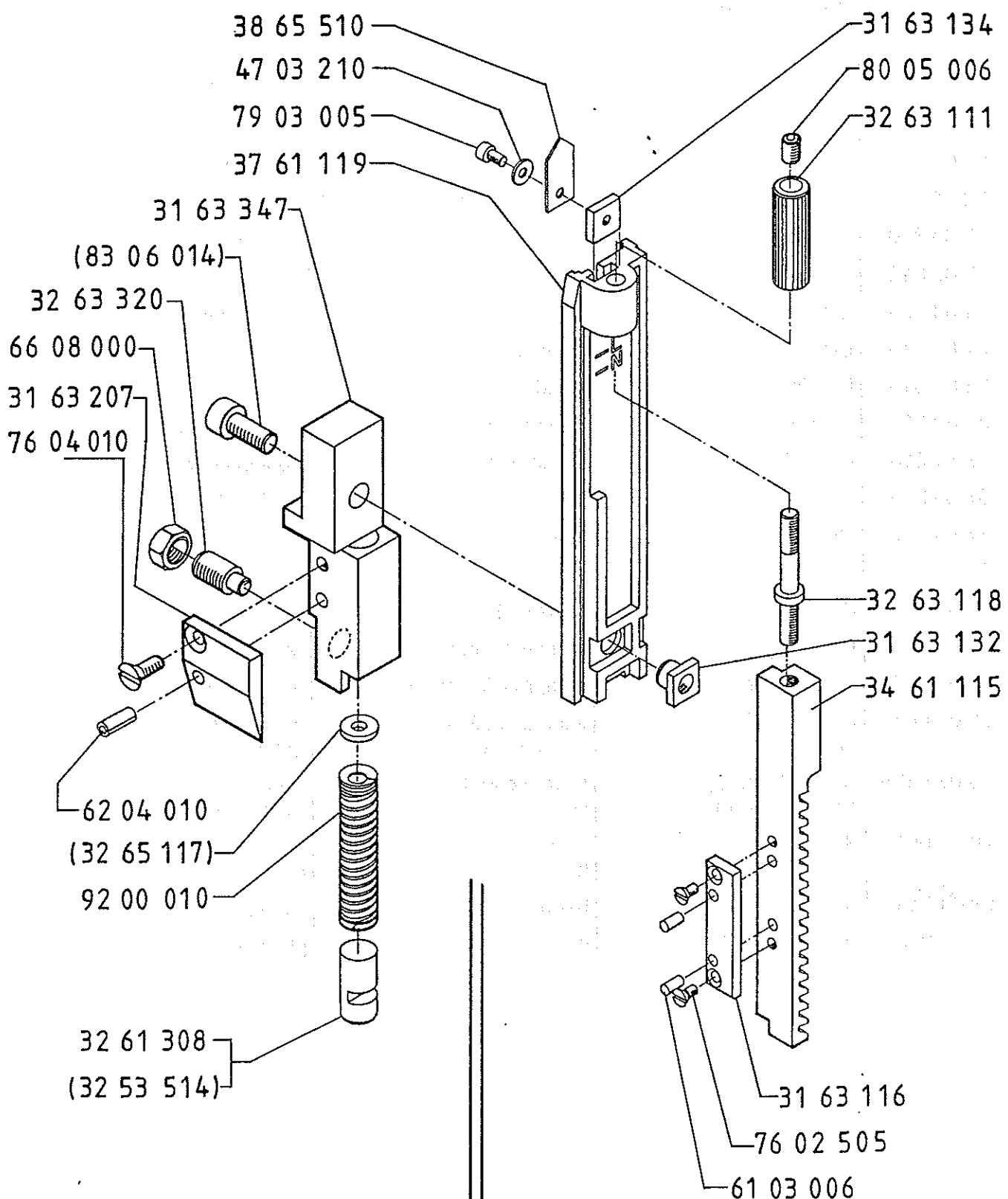
| Art.-No. | Bezeichnung | Description | Description |
|------------|--------------------------------|---|------------------------------------|
| 31 61 009 | Anlaufplatte | plate | plaque |
| 31 63 124 | Federplatte | spring plate | plaque à ressort |
| 32 51 016 | Gewindebuchse | threaded bushing | douille filetée |
| 32 61 210 | Stehbolzen | stud bolt | goujon fileté |
| 32 63 107 | Transportrad, klein | transport wheel, small | roue de transport, petite |
| 32 63 125 | Lagerbolzen | bearing bolt | boulon |
| 32 63 131 | Anstellmutter | adjusting nut | écrou de réglage |
| 32 63 135 | Hebelbolzen | lever bolt | boulon levier |
| 32 63 206 | Achsbolzen | axle bolt | boulon d'axe |
| 32 67 182 | Druckachse | compression axle | axe de pression |
| 34 61 117 | Transporthebel | transport lever | levier de transport |
| 36 61 008 | Gehäuse | housing | boîtier |
| 39 63 123 | Druckfeder | compression spring | ressort de pression |
| 44 00 096 | Miniaturlager | miniature ball bearing | roulement à billes miniat. |
| 44 00 099 | Anlaufzscheibe | spacer feed wheel | disque axiale |
| 44 00 159 | Nadelhülse HK 0609 | needle bush HK 0609 | douille d'aiguille HK 0609 |
| 44 00 160 | Nadelhülse HK 0608 | needle bush HK 0608 | douille d'aiguille HK 0608 |
| 44 11 601 | Teilerfeder | disc spring | ressort à disque |
| 52 06 005 | Paßscheibe | shim ring | rondelle d'ajustage |
| 53 04 000 | Sicherungsscheibe | retaining washer | bagu de frein |
| 53 05 000 | Sicherungsscheibe | retaining washer | bagu de frein |
| 62 05 016 | Spiralspannstift | spiral pin | goupille spiralée |
| 76 03 010 | Senkschraube mit Schlitz | slotted countersunk head screw | vis à tête conique à fente |
| 76 04 010 | Senkschraube m. Schlitz | slotted countersunk head screw | vis à tête conique à fente |
| 80 05 004V | Gewindestift selbstsichernd | hexagon socket set screw, self locking | vis sans tête, freinage interne |
| 80 05 010 | Gewindestift | hexagon socket set screw | vis sans tête |
| 80 06 010 | Gewindestift | hexagon socket set screw | vis sans tête |
| 94 59 210 | Verstellgriff | adjusting handle | poignée de réglage |
| 94 61 204 | Abschneidewippe | cutting rocker | baladeur de coupe |
| 99 61 208 | Abschneideblock, kpl. | cutting block, complete | bloc de coupe, cpl. |



| Art.-No. | Bezeichnung | Description | Description |
|------------|---------------------------------|---|---|
| 31 63 126 | Abstellexzenter | eccentric stop | excentrique d'arrêt |
| 31 63 303 | Schuhzungenkurve | shoe tongue curve | courbe de la langue chaussure |
| 32 63 127 | Exzenterachse | eccentric axle | axe excentrique |
| 36 61 008 | Gehäuse | housing | boîtier |
| 37 63 015 | Schaltstück | switch-piece | pièce de mise au point |
| 41 00 013 | Dreikantgriff | three-square handle | poignée à trois pans |
| 66 06 000 | Sechskantmutter | hexagon nut | écrou à six pans |
| 76 03 010V | Senkschraube, selbstsichernd | slotted countersunk head screw, self locking | vis à tête conique, freinage interne |
| 79 04 006 | Inbusschraube | hexagon socket head cap screw | vis à tête cylindrique |
| 80 05 005 | Gewindestift | hexagon socket set screw | vis sans tête |
| 92 00 002 | Kugelgewindestift | ball hexagon socket set screw | vis sans tête sphérique |



| Art.-No. | Bezeichnung | Description | Description |
|-------------|---------------------------|---|---|
| 31 63 207 | Schaltrampe | actuating ramp | rampe commutateur |
| 31 63 347 | Mitnehmer | pusher | entraîneur |
| 32 31 308 | Federbolzen | spring bolt | boulon à ressort |
| (32 53 514) | Federbolzen | spring bolt | boulon à ressort |
| 32 63 320 | Gewindestift | hexagon socket set screw | vis sans tête |
| (32 65 117) | Unterlegscheibe | washer | rondelle |
| 62 04 010 | Spiralspannstift | spiral pin | goupille spiralée |
| 66 08 000 | Sechskantmutter | hexagon nut | écrou hexagonal |
| 76 04 010 | Senkschraube mit Schlitz | slotted countersunk head screw | vis à tête conique à fente |
| (83 06 014) | Inbusschraube niedr. Kopf | hexagon socket head cap screw, low head | vis à tête cylindrique à six pans creux, tête basse |
| 92 00 010 | Schraubentellerfeder | screw-disc spring | vis ressort à disque |
| 99 61 324 | Mitnehmer, komplett | pusher, cpl. | entraîneur cpl. |
| (99 63 342) | Mitnehmer, komplett | pusher, cpl. | entraîneur cpl. |
| 31 63 116 | Transportrampe | transport ramp | ramp transporteur |
| 31 63 132 | Gewindebüchse | threaded bushing | douille filetée |
| 31 63 134 | Klemmstück | clamping piece | pièce de serrage |
| 32 63 111 | Griffmutter | knurled nut | boulon à écrou |
| 32 63 118 | Stellspindel | adjusting spindle | fuseau d'ajustage |
| 34 61 115 | Zahnstange | toothed rack | crémaillère |
| 37 61 119 | Hauptschieber | main slide bar | curseur principal |
| 38 65 510 | Bremsfeder | brake spring | ressort de frein |
| 47 03 210 | Scheibe | washer | rondelle |
| 61 03 006 | Zylinderstift | parallel pin | goupille cylindrique |
| 76 02 505 | Senkschraube mit Schlitz | slotted countersunk head screw | vis à tête conique à fente |
| 79 03 005 | Inbusschraube | hexagon socket head cap screw | vis à tête cylindrique |
| 80 05 006 | Gewindestift | hexagon socket set screw | vis sans tête |
| 99 61 120 | Hauptschieber komplett | main pusher, cpl. | curseur principal, cpl. |

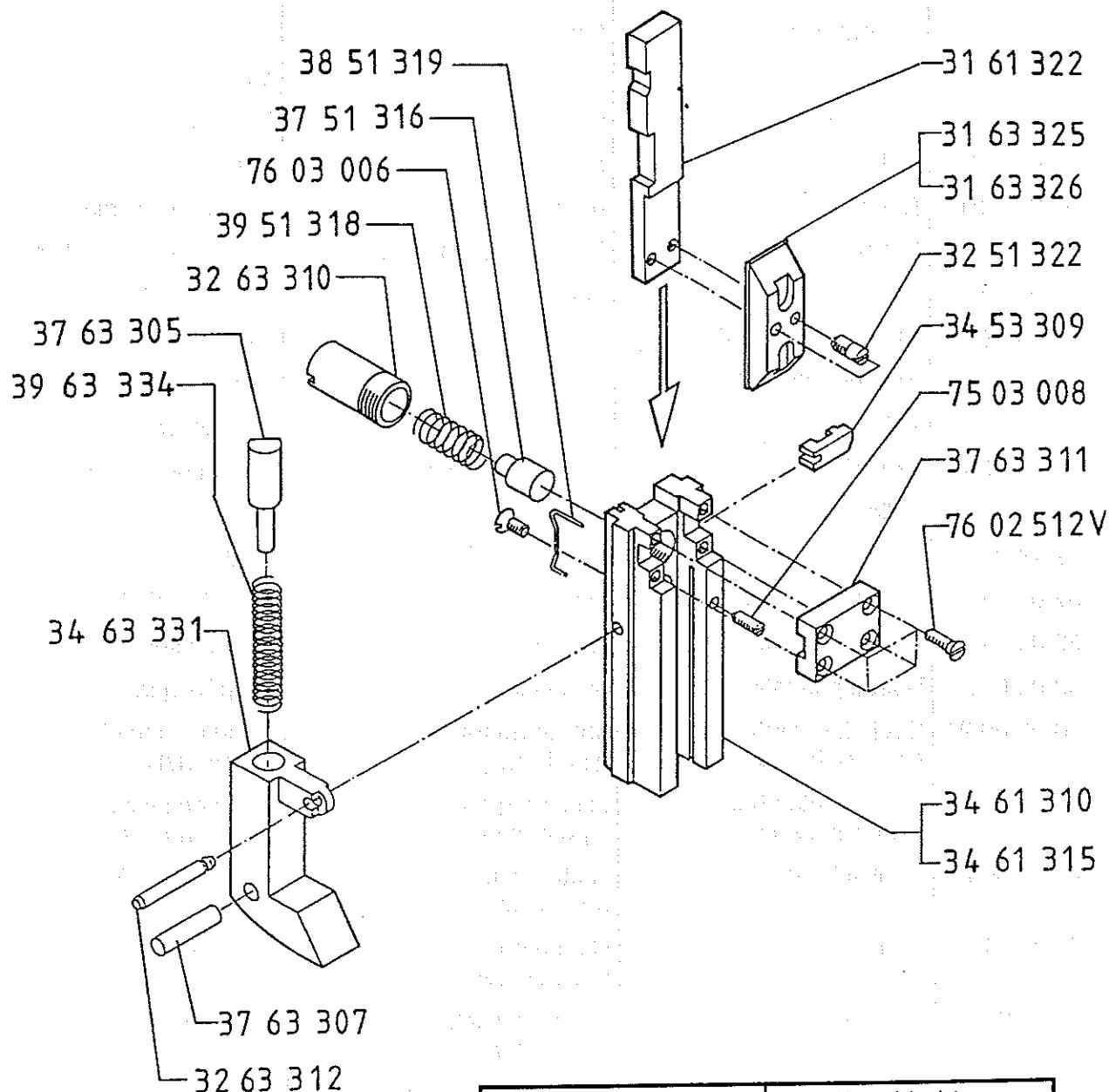


99 61 324

(99 63 342)

99 61 120

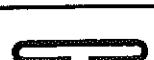
| Art.-No. | Bezeichnung | Description | Description |
|------------|------------------------------|--|--------------------------------------|
| 31 61 322 | Mittelschieber | center slide bar | curseur du milieu |
| 31 63 325 | Treiber | driver | pousseur |
| 31 63 326 | Treiber | driver | pousseur |
| 32 51 322 | Gewindegelenk | threaded bolt | boulon fileté |
| 32 63 310 | Federbuchse | spring bushing | douille de ressort |
| 32 63 312 | Achse | axle | axe |
| 34 53 309 | Schaltzunge | actuating piece | pièce commutateur |
| 34 61 310 | Umbieger | bender | plieur |
| 34 61 315 | Umbieger | bender | plieur |
| 34 63 331 | Schuhzunge, kurz | shoe tongue, short | langue chaussure, court |
| 37 51 316 | Bremsbolzen | brake bolt | boulon de frein |
| 37 63 305 | Druckbolzen | compression bolt | boulon de pression |
| 37 63 307 | Gleitstift | sliding pin | cheville coulissante |
| 37 63 311 | Deckel | cover | couvercle |
| 38 51 319 | Spangenfeder | hook spring | ressort agrafe |
| 39 51 318 | Druckfeder | compression spring | ressort de pression |
| 39 63 334 | Druckfeder | compression spring | ressort de pression |
| 75 03 008 | Gewindestift mit Spitze | slotted set screw with cone point | vis sans tête, pointu |
| 76 02 512V | Senkschraube, selbstsichernd | slotted countersunk head screw, self locking | vis à tête conique, freinage interne |
| 76 03 006 | Senkschraube mit Schlitz | slotted countersunk head screw | vis à tête conique à fente |
| 99 61 311 | Umbieger, kpl. | bender, cpl. | plieur, cpl. |
| 99 61 316 | Umbieger, kpl. | bender, cpl. | plieur, cpl. |



• Runddraht •
 • round wire •
 • fil rond •
 No. 24 - 28
 (USA No. 23 - 26)

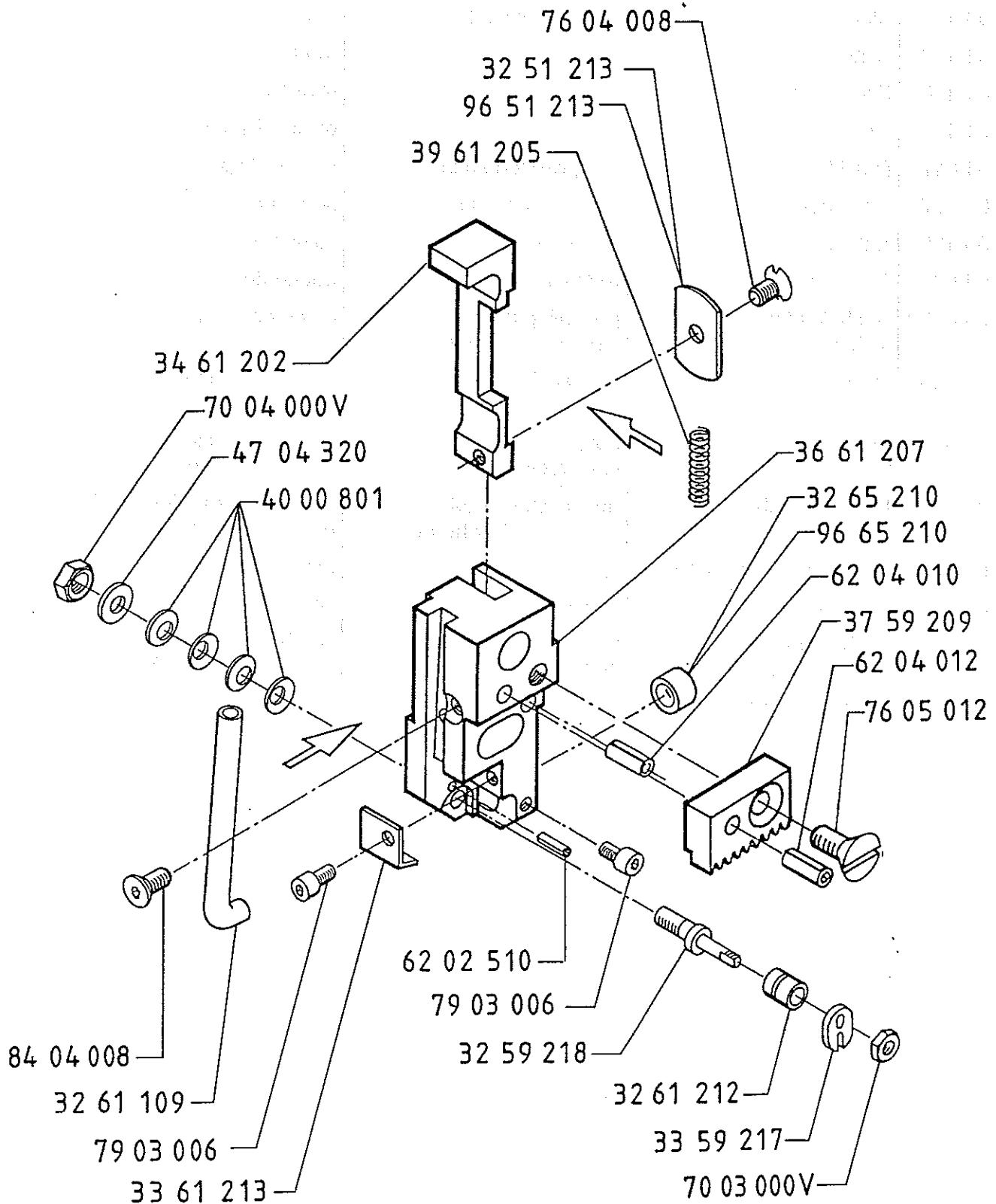
• Runddraht •
 • round wire •
 • fil rond •
 No. 26 - 30
 (USA No. 25 - 28)

| | | |
|-----------|---|---|
| 31 63 325 | O | |
| 31 63 326 | | O |
| 34 61 310 | O | |
| 34 61 315 | | O |
| 99 61 311 | O | |
| 99 61 316 | | O |



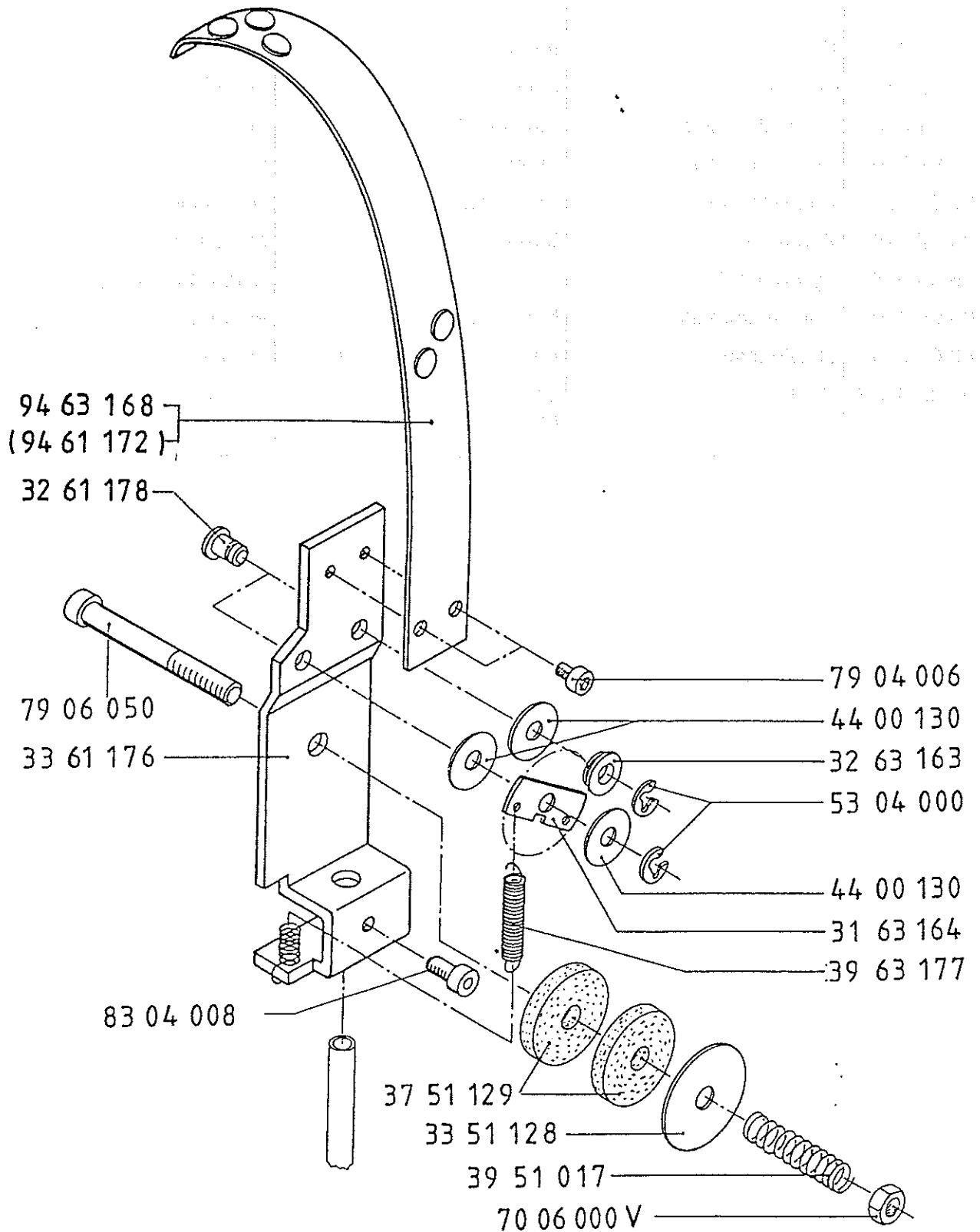
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| Art.-No. | Bezeichnung | Description | Description |
|------------|------------------------------------|--|--|
| 32 51 213 | Schermesser | flat blade | couteau plat |
| 32 59 218 | Exzenterbolzen | eccentric bolt | boulon excentrique |
| 32 61 109 | Drahtrohr, unten | wire tube, lower | tube de fil, en bas |
| 32 61 212 | Rolle | roll | rouleau |
| 32 65 210 | Rundmesser | revolving blade | couteau circulaire |
| 33 59 217 | Drahtrichtlasche | bracket wire straightener | fixation ajusteur, du fil |
| 33 61 213 | Einlaufblech | guide plate | tôle de guidage |
| 34 61 202 | Abschneideschieber | cutting pusher | curseur de coupe |
| 36 61 207 | Abschneidekasten | cut off box | boîtier de découpage |
| 37 59 209 | Zahnstange | toothed rack | crémaillère |
| 39 61 205 | Druckfeder | compression spring | ressort de pression |
| 40 00 801 | Tellerfeder | disc spring | ressort à disques |
| 47 04 320 | Scheibe | washer | rondelle |
| 62 02 510 | Spiralspannstift | spiral pin | goupille spiralée |
| 62 04 010 | Spiralspannstift | spiral pin | goupille spiralée |
| 62 04 012 | Spiralspannstift | spiral pin | goupille spiralée |
| 70 03 000V | Sechskantmutter, selbstsichernd | prevailing torque type hexagon nut | écrou de sécurité, hexagonal à frein |
| 70 04 000V | Sechskantmutter, selbstsichernd | prevailing torque type hexagon nut | écrou de sécurité, hexagonal à frein |
| 76 04 008 | Senkschraube | slotted countersunk head screw | vis à tête conique |
| 76 05 012 | Senkschraube | slotted countersunk head screw | vis à tête conique |
| 79 03 006 | Inbusschraube | hexagon socket head cap screw | vis à tête cylindrique à six pans creux |
| 84 04 008 | Senkschraube | hexagon socket counter- sunk head screw | vis à six pans creux, tête fraisée |
| 96 51 213 | Schermesser | flat blade | couteau plat |
| 96 65 210 | Rundmesser | revolving blade | couteau circulaire |
| 99 61 208 | Abschneideblock, kpl. | cutting bloc, cpl. | bloc de coupe, cpl. |



99 61 208

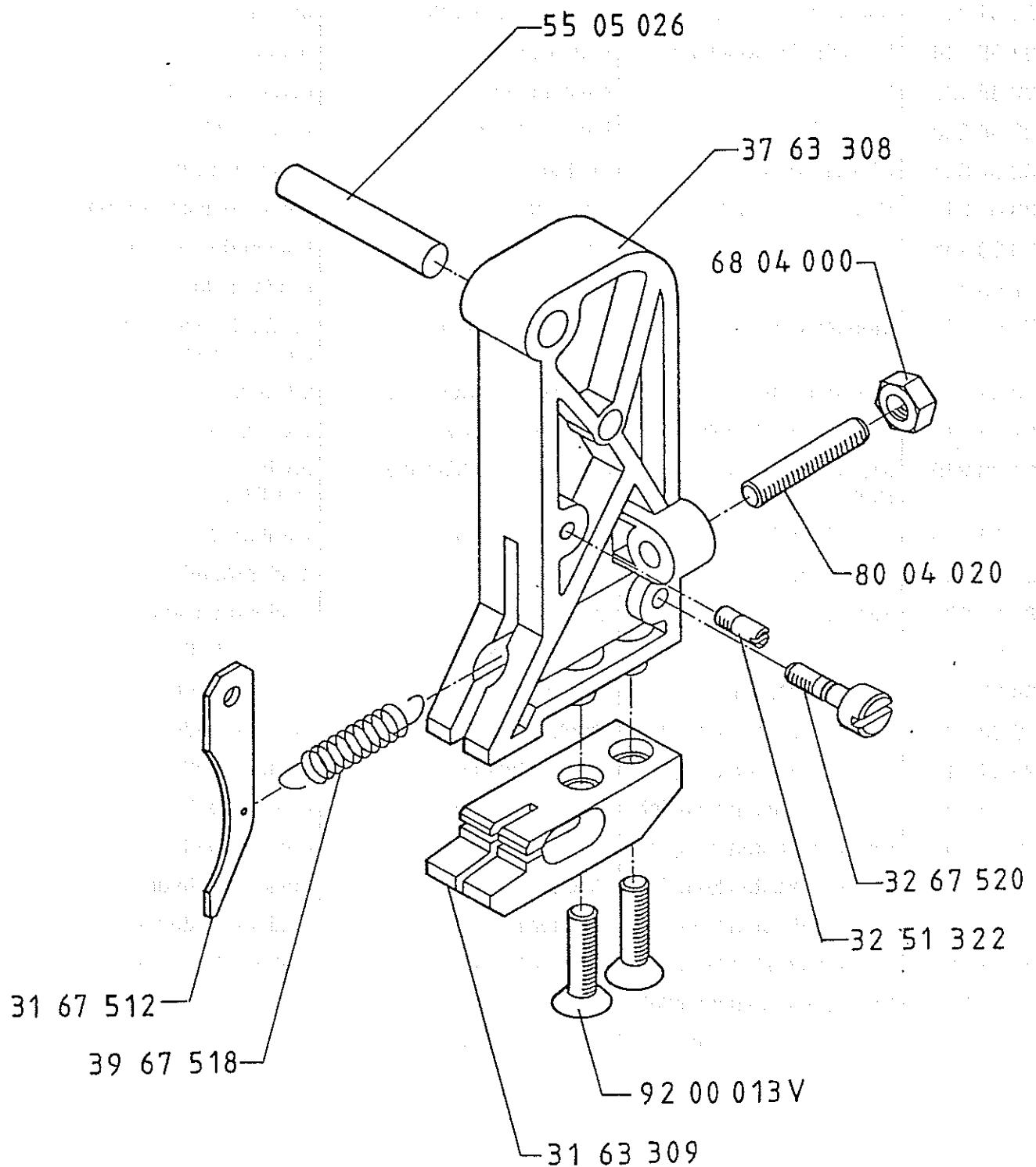
| Art.-No. | Bezeichnung | Description | Description |
|-------------|---|---|--|
| 31 63 164 | Bremskeil | brake key | clavette de frein |
| 32 61 178 | Bremsstift | brake pin | boulon de frein |
| 32 63 163 | Klemmrolle | clamping wheel | rouleau de serrage |
| 33 51 128 | Scheibe | disc | rondelle |
| 33 61 176 | Federlasche | spring bracket | fixation à ressort |
| 37 51 129 | Filzscheibe | felt disc | disque à feutre |
| 39 51 017 | Druckfeder | compression spring | ressort de pression |
| 39 63 177 | Zugfeder | extension spring | ressort de traction |
| 44 00 130 | Anlaufsscheibe | spacer, feed wheel | disque axiale |
| 53 04 000 | Sicherungsscheibe | retaining washer | baguette de frein |
| 70 06 000V | Sechskantmutter selbstsichernd | prevailing torque type hexagon nut | écrou de sécurité hexagonal à frein |
| 79 04 006 | Inbusschraube | hex. socket head cap screw | vis à tête cylindrique à six pans creux |
| 79 06 050 | Inbusschraube | hex. socket head cap screw | vis à tête cylindrique à six pans creux |
| 83 04 008 | Inbusschraube | hex. socket head cap screw, low head | vis à tête cylindrique à six pans creux, tête basse |
| (94 61 172) | Federbügel, gewendelt | spring bracket | fixation à ressort |
| 94 63 168 | Federbügel | spring bow | courbe de ressort |
| (91 61 170) | Drahtbügel, mit gewendeltem Federbügel | wire bow, with coiled spring bow | courbe du fil, avec courbe de ressort boudinée |
| 99 61 175 | Drahtbügel, komplett | wire bow, cpl. | courbe du fil, cpl. |



99 61 175

(99 61 170)

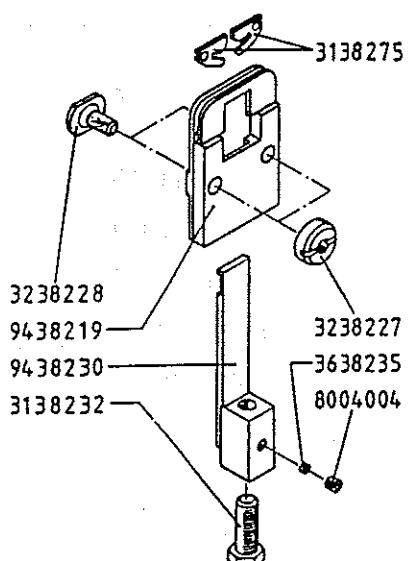
| Art.-No. | Bezeichnung | Description | Description |
|------------|------------------|-----------------------------------|----------------------|
| 31 63 309 | Formerschuh | former shoe | façonneur |
| 31 67 512 | Greifer | gripper | grappin |
| 32 51 322 | Gewindebolzen | threaded bolt | boulon fileté |
| 32 67 520 | Kerbschraube | grooved screw | vis cannelée |
| 37 63 308 | Formerschaft | former shank | tige façonneur |
| 39 67 518 | Zugfeder | tension spring | ressort de traction |
| 55 05 026 | Zylinderstift | parallel pin | goupille cylindrique |
| 68 04 000 | Sechskantmutter | hexagon nut | écrou hexagonal |
| 80 04 020 | Gewindestift | hex. socket set screw | vis sans tête |
| 92 00 013V | Senkschraube, | slotted countersunk head screw | vis à tête conique, |
| 99 63 343 | Former, komplett | former, cpl. | façonneur, cpl. |



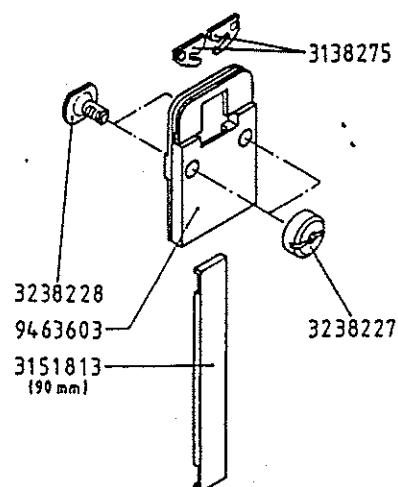
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| Art.-No. | Bezeichnung | Description | Description |
|-----------|--------------------------|----------------------------|---|
| 31 38 232 | Stößelschraube | pusher screw | vis coulisseau |
| 31 38 275 | Klinscher | clincher | rabatteur |
| 31 51 803 | Klinscherstößel 91 | clincher pusher 91 | tirant rabatteur 91 |
| 31 51 813 | Klinscherstößel 90 | clincher pusher 90 | tirant rabatteur 90 |
| 31 65 014 | Klinscherkastenplatte | plate clincher-box | plaque de boîtier-rabatteur |
| 32 38 227 | Klemmutter | clamping nut | écrou de serrage |
| 32 38 228 | Gewindestift | hex. socket set screw | vis sans tête |
| 32 52 826 | Stößelschraube | pusher screw | vis coulisseau |
| 33 63 612 | Einlaufblech, unten | guide plate, below | tôle de guidage en bas |
| 36 38 235 | Druckbolzen | compression bolt | boulon de pression |
| 47 05 320 | Scheibe | washer | rondelle plate |
| 79 05 016 | Inbusschraube | hex. socket head cap screw | vis à tête cylindrique à six pans creux |
| 80 04 004 | Gewindestift | hex. socket set screw | vis sans tête |
| 87 05 014 | Sechskantschraube | hex. head screw | vis à six pans |
| 94 38 219 | Klinscherkasten HOHNER | clincher-box HOHNER | boîtier rabatteur HOHNER |
| 94 38 230 | Klinscherstößel | clincher pusher | tirant rabatteur |
| 94 52 824 | Klinscherkasten | clincher-box | boîtier rabatteur |
| 94 61 605 | Klinscherkasten | clincher box | boîtier rabatteur |
| 94 63 603 | Klinscherkasten | clincher-box | boîtier rabatteur |
| 94 63 624 | Klinscherstößel | clincher pusher | tirant rabatteur |
| 99 38 220 | Klinscherkasten komplett | clincher-box cpl. | boîtier rabatteur cpl. |
| 99 51 810 | Klinscherkasten komplett | clincher-box cpl. | boîtier rabatteur cpl. |
| 99 52 800 | Klinscherkasten komplett | clincher-box cpl. | boîtier rabatteur cpl. |
| 99 52 801 | Klinscherkasten komplett | clincher-box cpl. | boîtier rabatteur cpl. |
| 99 52 821 | Klinscherkasten komplett | clincher-box cpl. | boîtier rabatteur cpl. |
| 99 61 600 | Klinscherkasten komplett | clincher-box cpl. | boîtier rabatteur cpl. |
| 99 63 610 | Klinscherkasten komplett | clincher-box cpl. | boîtier rabatteur cpl. |
| 99 63 615 | Klinscherkasten komplett | clincher-box cpl. | boîtier rabatteur cpl. |
| 99 63 625 | Klinscherkasten komplett | clincher-box cpl. | boîtier rabatteur cpl. |

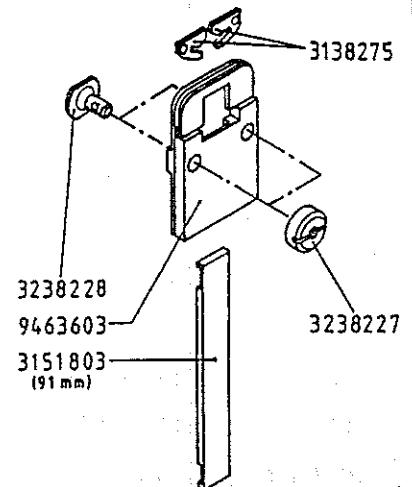
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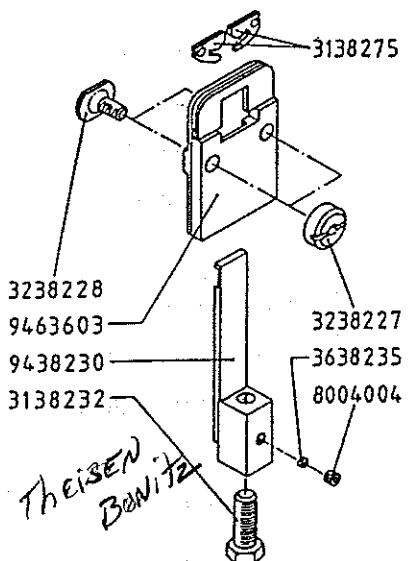
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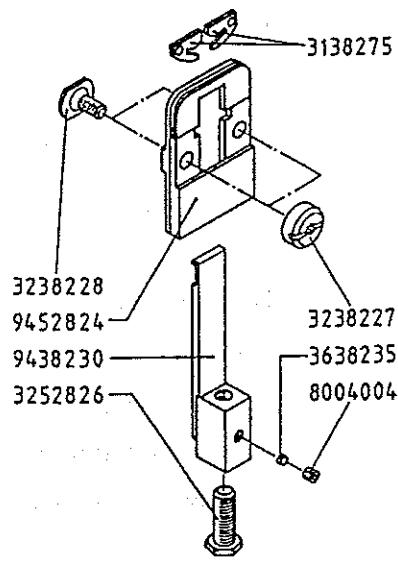
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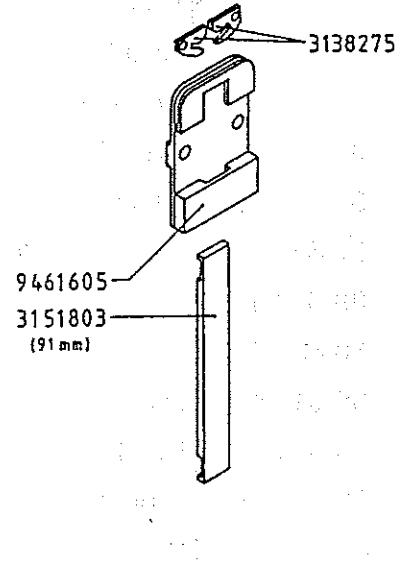
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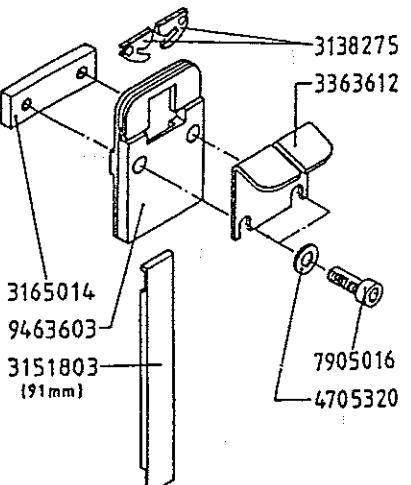
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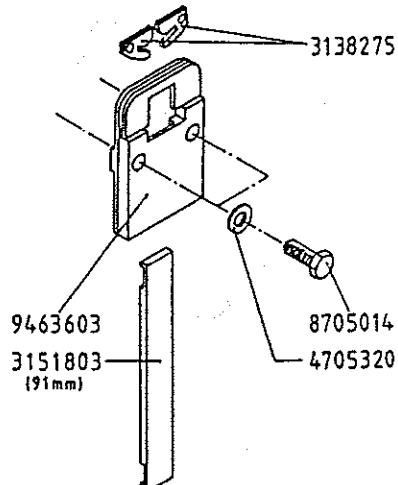
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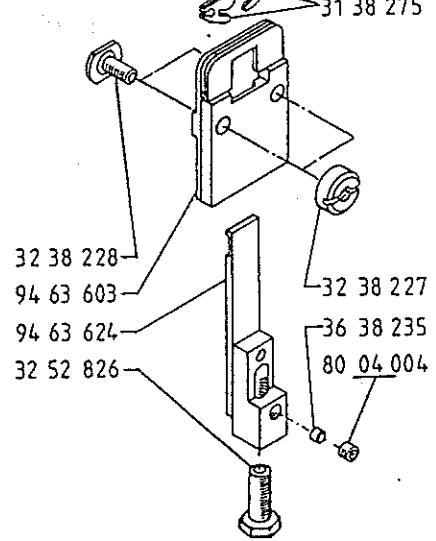
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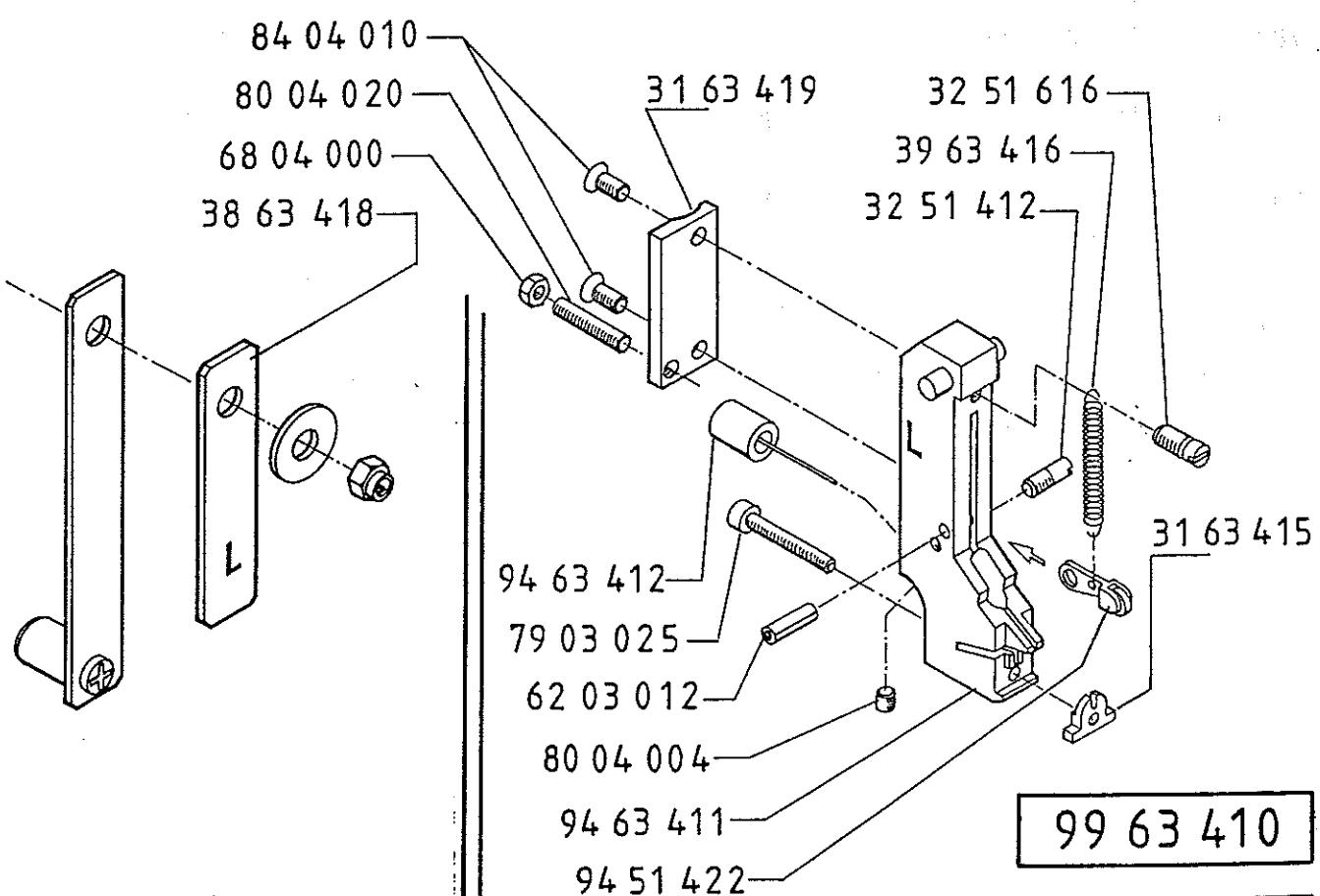
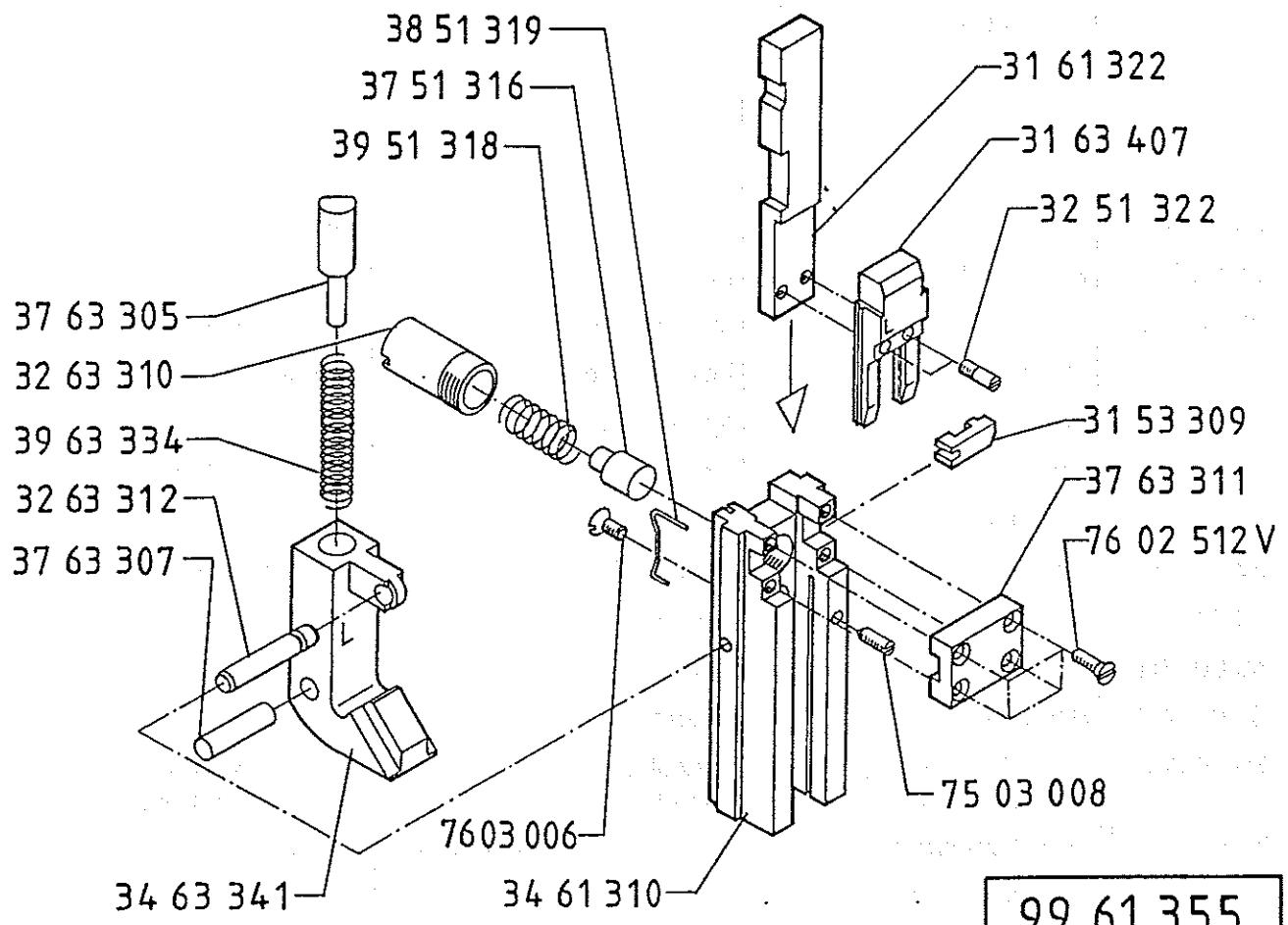
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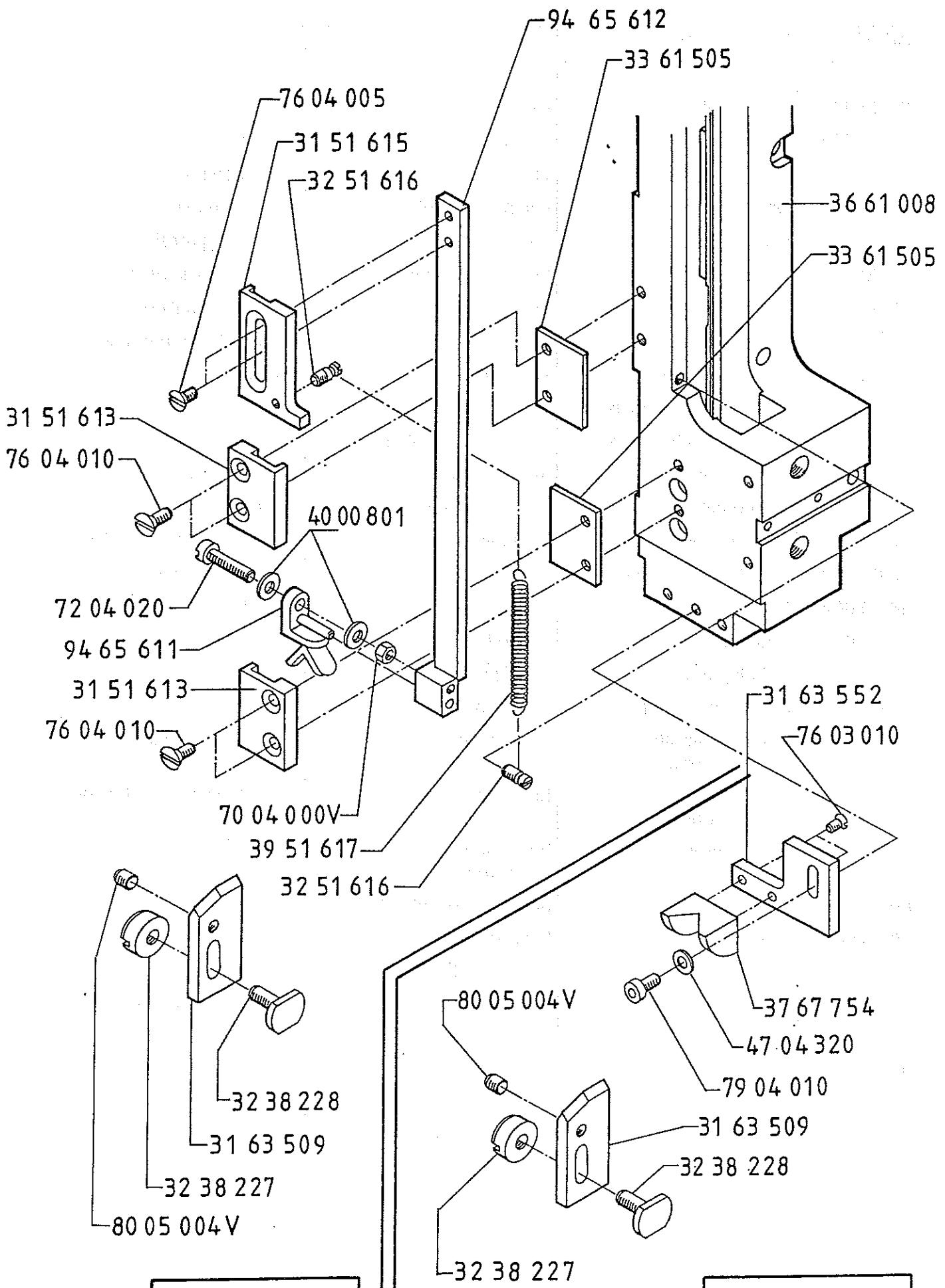
- 99 63 625 -



| Art.-No. | Bezeichnung | Description | Description |
|------------|--------------------------------|---|---|
| 05 48 051 | Ringösen, Wechselteilesatz | set for loop stitching | set pour agrafage à boucles |
| 31 53 309 | Schaltzunge | actuating piece | pièce commutateur |
| 31 61 322 | Mittelschieber | center slide bar | curseur du milieu |
| 31 63 407 | Treiber | driver | pousseur |
| 31 63 415 | Formernase | former nose | nez façonneur |
| 31 63 419 | Formerrücken | former back | dos façonneur |
| 32 51 322 | Gewindegelenk | threaded bolt | boulon fileté |
| 32 51 412 | Bolzen | bolt | boulon |
| 32 51 616 | Federbolzen | spring bolt | boulon de frein |
| 32 63 310 | Federbuchse | spring bushing | douille de ressort |
| 32 63 312 | Achse | axle | axe |
| 34 61 310 | Umbieger | bender | plieur |
| 34 63 341 | Schuhzunge | shoe tongue | langue chaussure |
| 37 51 316 | Bremsbolzen | brake bolt | boulon de frein |
| 37 63 305 | Druckbolzen | compression bolt | boulon de pression |
| 37 63 307 | Gleitstift | sliding pin | cheville coulissante |
| 37 63 311 | Deckel | cover | couvercle |
| 38 51 319 | Spangenfeder | hook spring | ressort agrafe |
| 38 63 418 | Blattfeder, kurz | leaf spring, short | ressort à lames, court |
| 39 51 318 | Druckfeder | compression spring | ressort de pression |
| 39 63 334 | Druckfeder | compression spring | ressort de pression |
| 39 63 416 | Druckfeder | compression spring | ressort de pression |
| 62 03 012 | Spiralspannstift | spiral pin | goupille spiralée |
| 68 04 000 | Sechskantmutter | hexagon nut | écrou hexagonal |
| 75 03 008 | Gewindestift | hexagon socket set screw | vis sans tête |
| 76 02 512V | Senkschraube selbstsichernd | slotted countersunk head screw self locking | vis à tête conique, freinage interne |
| 76 03 006 | Senkschraube mit Schlitz | slotted countersunk head screw | vis à tête conique |
| 79 03 025 | Inbusschraube | hex. sock. head cap screw | vis à tête cylindrique |
| 80 04 004 | Gewindestift | hex. socket set screw | vis sans tête |
| 80 04 020 | Gewindestift | hex. socket set screw | vis sans tête |
| 84 04 010 | Senkschraube | hex. socket countersunk head screw | vis à six pans creux |
| 94 51 422 | Rollenhebel | roller lever | levier rouleau |
| 94 63 411 | Former | former | façonneur |
| 94 63 412 | Greifer | gripper | grappin |
| 99 61 355 | Umbieger, kpl. | bender, cpl. | plieur, cpl. |
| 99 63 410 | Former, kpl. | former, cpl. | façonneur, cpl. |



| Art.-No. | Bezeichnung | Description | Description |
|------------|------------------------------------|---|--|
| 31 51 613 | Halter | holder | support |
| 31 51 615 | Lasche | bracket | fixation |
| 31 63 509 | Reiter | slide | cavalier |
| 31 63 552 | Haltelasche | holder | support |
| 32 38 227 | Klemmutter | clamping nut | écrou de serrage |
| 32 38 228 | Gewindestift | hexagon socket set screw | vis sans tête |
| 32 51 616 | Federbolzen | spring bolt | boulon à ressort |
| 33 61 505 | Distanzplatte | distance plate | plaque de distance |
| 36 61 008 | Gehäuse | housing | boîtier |
| 37 67 754 | Papierführung | paper guide | guidage de papier |
| 39 51 617 | Zugfeder | extension spring | ressort de traction |
| 40 00 801 | Tellerfeder | disc spring | ressort à disque |
| 47 04 320 | Scheibe | washer | rondelle |
| 70 04 000V | Sechskantmutter, selbstsichernd | prevailing torque type hexagon nut | écrou de sécurité hexagonal à frein |
| 72 04 020 | Zylinderschraube | slotted cheese head screw | vis à tête cylindr. fendue |
| 76 03 010 | Senkschraube | slotted countersunk head screw | vis à tête conique à fente |
| 76 04 005 | Senkschraube | slotted countersunk head screw | vis à tête conique à fente |
| 76 04 010 | Senkschraube | slotted countersunk head screw | vis à tête conique à fente |
| 79 04 010 | Inbusschraube | hexagon socket head cap screw | vis à tête cylindrique à six pans creux |
| 80 05 004V | Gewindestift, selbstsichernd | hexagon socket set screw, self locking | vis sans tête, freinage interne |
| 94 65 611 | Zentrierbacken | centering cheeks | joues de centrage |
| 94 65 612 | Zugstange | extension bar | barre de traction |
| 99 61 501 | Niederhalter, komplett | centering device, cpl. | dispositif d'appui, cpl. |
| 99 63 550 | Zentrierstück, komplett | centering piece, cpl. | pièce de centrage, cpl. |



99 61 501

99 63 550

| Art.-No. | Bezeichnung | Description | Description |
|-----------|----------------------------------|----------------------------------|--|
| 32 65 809 | Klemmhülse | clamping sleeve | douille de serrage |
| 32 65 810 | Schaltstange | switch rod | barre de commande |
| 32 67 812 | Mitnehmerbolzen | driving pin | boulon de retenue |
| 36 67 813 | Druckstück | compression piece | pièce de pression |
| 39 65 834 | Druckfeder | compression spring | ressort de pression |
| 42 00 049 | Pneumatikzylinder | pneumatic cylinder | cylindre pneumatique |
| 42 00 050 | Pneumatikventil | pneumatic valve | valve pneumatique |
| 42 00 051 | Magnetspule | magnetic coil | bobine électromagnétique |
| 42 00 052 | Verschraubung | screw fitting | vissage |
| 42 00 053 | Winkelverschraubung | angular screw fitting | raccord à vis coudé |
| 42 00 054 | Winkelverschraubung | angular screw fitting | raccord à vis coudé |
| 42 00 061 | Magnetspule | magnetic coil | bobine électromagnétique |
| 42 00 062 | Pneumatikschlauch | pneumatic hose | tuyau pneumatique |
| 42 00 063 | Magnetspule | magnetic coil | bobine électromagnétique |
| 43 00 098 | Kabelverschraubung | conduit fitting | passécâble à vis |
| 44 00 002 | Lagerbuchse | bearing bush | coussinet |
| 48 10 010 | Federring | spring lock washer | rondelle élastique |
| 62 03 016 | Spiralspannstift | spiral pin | goupille spiralée |
| 68 08 000 | Sechskantmutter | hexagon nut | écrou hexagonal |
| 69 10 100 | Sechskantmutter niedrige Form | hexagon thin nut | écrou hexagonale, basse |
| 69 20 150 | Sechskantmutter niedrige Form | hexagon thin nut | écrou hexagonale, basse |
| 79 04 030 | Inbusschraube | hexagon socket head cap screw | vis à tête cylindrique à six pans creux |
| 80 05 006 | Gewindestift | hexagon socket set screw | vis sans tête |
| 80 06 006 | Gewindestift | hexagon socket set screw | vis sans tête |
| 94 63 803 | Führungslager | guide bearing | palier guide |
| 94 63 807 | Aufnahmelager | receiver bearing | palier de réception |
| 94 63 809 | Schaltstück | switch piece | pièce de mise au point |
| 94 67 809 | Schaltstück | switch piece | pièce de mise au point |
| 94 67 815 | Drehsperrre | turning stop | pièce d'arrêt |
| 99 63 800 | stop-stitch cpl. | stop-stitch cpl. | stop-stitch cpl. |
| 99 63 801 | stop-stitch cpl. | stop-stitch cpl. | stop-stitch cpl. |

