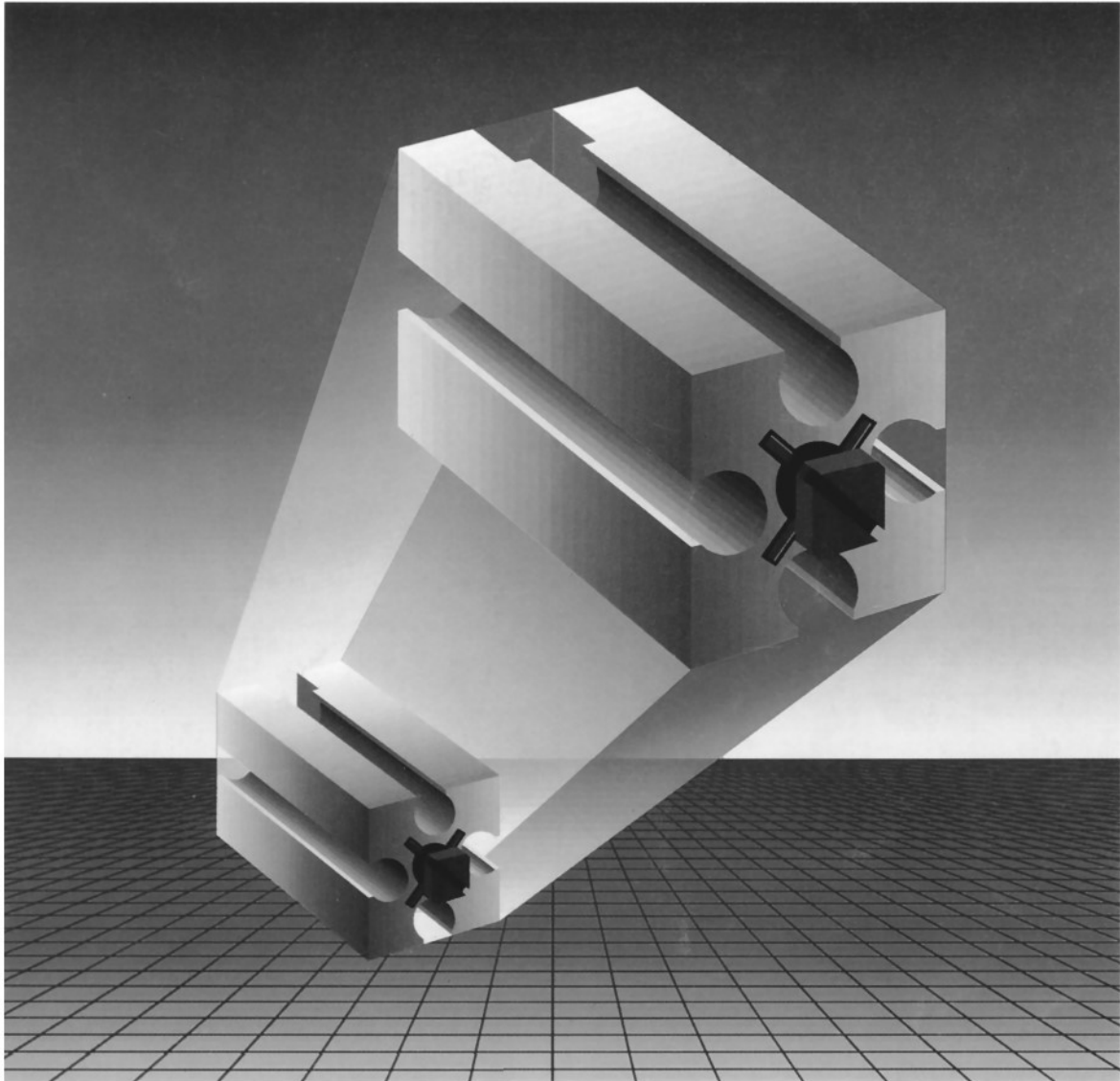
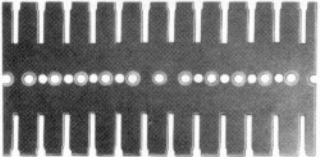
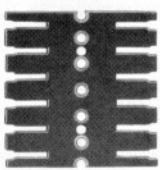
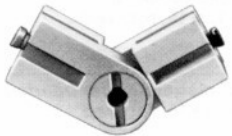
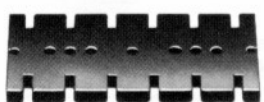
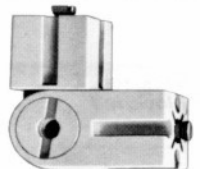
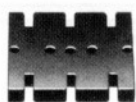
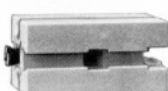
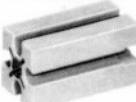
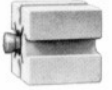
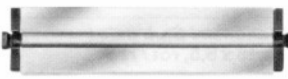


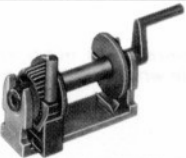
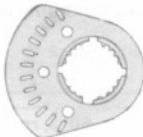
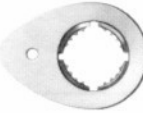


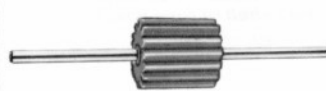
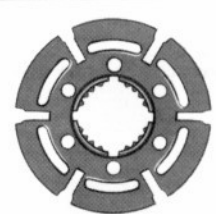
Einzelteilübersicht  
Spare part list



| Abbildung / Illustration                                                            | Art. No. | Bezeichnung / Description                                                                 | Abbildung / Illustration                                                             | Art. No. | Bezeichnung / Description                                                             |
|-------------------------------------------------------------------------------------|----------|-------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|----------|---------------------------------------------------------------------------------------|
| <b>Bausteine und Grundplatten / Building Blocks and Base Plates</b>                 |          |                                                                                           |                                                                                      |          |                                                                                       |
|     | 31001    | Grundplatte / Base plate<br>180 x 90 x 5,5, rot / red                                     |    | 31008    | Gelenkstein / Hinged block<br>15 x 15 x 45                                            |
|    | 31002    | Grundplatte / Base plate<br>90 x 90 x 5,5, rot / red                                      |    | 31009    | Gelenkstein, Zapfen rund und eckig<br>Hinged block with one round pin<br>15 x 15 x 45 |
|     | 36576    | Grundplatte / Base plate<br>90 x 45 x 5,5, rot / red                                      |    | 31308    | Feder-Gelenkstein<br>Spring hinged block<br>15 x 15 x 45                              |
|    | 36593    | Grundplatte / Base plate<br>45 x 45 x 5,5, rot / red                                      |     | 38309    | Stein 15, 60°, rot<br>Block 15, 60°, red                                              |
|    | 31612    | Grundplatte / Base plate<br>15 x 45 x 5,5, rot / red                                      |    | 31010    | Winkelstein gleichseitig, 60°, rot<br>Angle block equilateral, 60°, red               |
|    | 31003    | Baustein 30<br>Building block 30<br>30 x 15 x 15                                          |    | 31011    | Winkelstein gleichschenkelig,<br>30°, rot<br>Angle block isosceles,<br>30°, red       |
|  | 31004    | Baustein 30 mit Bohrung<br>Building block 30 with hole<br>30 x 15 x 15                    |   | 31981    | Winkelstein 15°, rot<br>Angular block 15°, red                                        |
|  | 35001    | Stein 30, ohne Zapfen<br>Building block 30,<br>without peg                                |  | 32071    | Winkelstein 7,5°, rot<br>Angular block 7,5°, red                                      |
|  | 31005    | Baustein 15<br>Building block 15<br>15 x 15 x 15                                          |  | 31918    | Winkelstein 60°<br>mit 3 Nuten, rot<br>Angular block 60°<br>with grooves, red         |
|  | 31059    | Baustein 15<br>mit rundem Zapfen<br>Building block 15<br>with round pin<br>15 x 15 x 15   |  | 38423    | Winkelstein / Angle block<br>10 x 15 x 15, rot / red                                  |
|  | 35003    | Stein 15, ohne Zapfen<br>Building block 15,<br>without peg                                |  | 38424    | Zwischenstück / Connector<br>5 x 15 x 30, rot / red                                   |
|  | 31006    | Baustein 15 mit 2 Zapfen<br>Double ended block 15<br>15 x 15 x 15                         |  | 38240    | Baustein V 15 Eck<br>Building block V15<br>15 x 15 x 15, rot / red                    |
|  | 31007    | Baustein 15<br>mit 2 runden Zapfen<br>Double ended block 15<br>round pins<br>15 x 15 x 15 |  | 31220    | Aluprofil / Aluminium strut<br>60 lang / long                                         |
|  | 32064    | Baustein 15 mit Bohrung<br>Building block with bore<br>15 x 15 x 15, rot / red            |                                                                                      | 31222    | 75 lang / long                                                                        |
|  | 37468    | Baustein 7,5<br>Building block 7,5<br>15 x 15 x 7,5, rot / red                            |                                                                                      | 31221    | 90 lang / long                                                                        |
|  | 37237    | Baustein 5<br>Building block 5<br>15 x 15 x 5, rot / red                                  |                                                                                      | 31224    | 105 lang / long                                                                       |
|                                                                                     |          |                                                                                           |                                                                                      | 31225    | 120 lang / long                                                                       |
|                                                                                     |          |                                                                                           |                                                                                      | 31228    | 150 lang / long                                                                       |
|                                                                                     |          |                                                                                           |                                                                                      | 31229    | 180 lang / long                                                                       |
|                                                                                     |          |                                                                                           |                                                                                      | 31226    | 210 lang / long                                                                       |
|                                                                                     |          |                                                                                           |                                                                                      | 31227    | 270 lang / long                                                                       |
|                                                                                     |          |                                                                                           |                                                                                      | 31230    | 390 lang / long                                                                       |
|                                                                                     |          |                                                                                           |  | 31942    | Stirnzapfen, schwarz<br>Trunnion, black                                               |

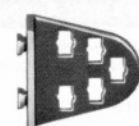
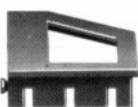
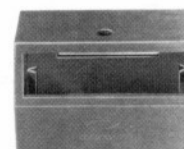
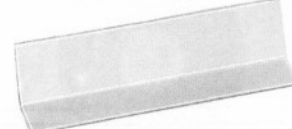
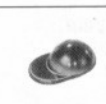
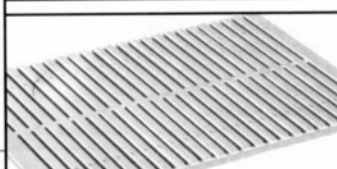
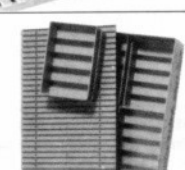
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| <b>Diverse Teile / Different Parts</b>                                              |                |                                                                                                         |                                                                                      |                |                                                                          |
|    | 31423          | Gelenkwürfel 15<br>Hinged block 15<br>15 x 15 x 15                                                      |    | 32615          | Anbauwinkel<br>Building angle                                            |
|    | 38459          | Gelenkstein 15<br>Hinged block 15<br>15 x 15 x 15, rot / red                                            |     | 31982          | Federnocken / Spring cam                                                 |
|    | 37636          | Rollenlager / Roller bearing<br>15 x 15 x 15, rot / red                                                 |     | 31060          | Verbindungsstück 15, rot<br>Link 15, red                                 |
|    | 32085          | Rollenbock, rot<br>Roller block, red                                                                    |    | 31061          | Verbindungsstück 30, rot<br>Link 30, red                                 |
|    | 35795<br>35794 | Seilrolle / Rope pulley<br>21 $\phi$<br>rot / red<br>schwarz / black                                    |    | 31330          | Verbindungsstück 45, rot<br>Link 45, red                                 |
|    | 38255<br>39258 | Seilrolle / Rope pulley<br>12 $\phi$<br>rot / red<br>schwarz / black                                    |    | 35262          | Verbinder, gelb<br>Connector, yellow                                     |
|   | 35677          | O-Ring, 8 x 3, schwarz,<br>für Seilrolle 12 $\phi$<br>O-ring, 8 x 3, black<br>for rope pulley 12 $\phi$ |     | 31771          | Lagerstück 1, rot<br>Bearing unit 1, red                                 |
|  | 31602          | Kufe, rot / Skid, red                                                                                   |     | 31772          | Lagerstück 2, rot<br>Bearing unit 2, red                                 |
|  | 31592          | Kesselhalter, rot<br>Holder for tubular sleeve, red                                                     |    | 31690          | Rastachse, rot / Wheel axle, red<br>4 x 17 mm                            |
|  | 31588          | Rungen, rot / Stakes, red                                                                               |   | 38418          | Lenkbalken, rot<br>Steering bar, red                                     |
|  | 38471          | Radstift, rot / Wheel pin, red                                                                          |  | 38412          | K-Achse mit 4-Kantansatz,<br>grau<br>K-axle with edged shoulder,<br>grey |
|  | 31124          | Aufnahmeachse, rot<br>Holding axle, red                                                                 |  | 37354          | Schaufelteil links, rot<br>Left part of blade, red                       |
|  | 36586          | Radachse / Stub axle<br>15 x 15 x 5,5, rot / red                                                        |  | 37353          | Schaufelteil rechts, rot<br>Right part of blade, red                     |
|  | 36581          | Rad 23, rot / Wheel 23, red                                                                             |  | 37355          | Schaufel-Zwischenteil, rot<br>Intermediate part of blade, red            |
|  | 35668          | Radhalter, rot<br>Wheel support, red                                                                    |  | 38256<br>38257 | Flügelachse / Winged axle<br>45 lang / 45 long<br>75 lang / 75 long      |
|  | 36573          | Rad 14, schwarz<br>Wheel 14, black                                                                      |  | 38472          | Zahnpurstange, schwarz<br>Toothed track rod, black                       |
|                                                                                     |                |                                                                                                         |  | 38473          | Lenkhebel, rot<br>Steering lever, red                                    |
|                                                                                     |                |                                                                                                         |                                                                                      |                |                                                                          |

| Abbildung / Illustration                                                                       | Art. No. | Bezeichnung / Description                                                                                                                                            | Abbildung / Illustration                                                             | Art. No.                                                                                                 | Bezeichnung / Description                                                                                                                                                                                                                                                     |
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| <b>Achsen, Achsenzubehör und Windenteile</b><br><b>Axles, Axle-accessories and Winch Parts</b> |          |                                                                                                                                                                      |                                                                                      |                                                                                                          |                                                                                                                                                                                                                                                                               |
|               | 31016    | Seiltrommel, rot<br>Winch drum, red                                                                                                                                  |    | 31034<br>31033<br>31032<br>37384<br>31040<br>31031<br>31036<br>31030<br>35696<br>35697<br>32355<br>32356 | Metall-Achse, 4 $\phi$<br>Metal-axle, 4 $\phi$<br>30 lang / long<br>50 lang / long<br>60 lang / long<br>80 lang / long<br>90 lang / long<br>110 lang / long<br>125 lang / long<br>150 lang / long<br>170 lang / long<br>200 lang / long<br>315 lang / long<br>435 lang / long |
|               | 31020    | Klemmring für Seiltrommel,<br>rot<br>Clamping ring for rope drum,<br>red                                                                                             |    | 38413<br>38414<br>38415<br>38416                                                                         | Kunststoff-Achse, 4 $\phi$<br>Plastic-axle, 4 $\phi$<br>30 lang / long<br>40 lang / long<br>50 lang / long<br>60 lang / long                                                                                                                                                  |
|               | 31026    | Handkurbel, rot<br>Hand crank, red                                                                                                                                   |    | 35405<br>35404<br>35408                                                                                  | V-Achse / V-axle<br>4 x 80 rot / red<br>V-Achse / V-axle<br>4 x 17, rot / red<br>V-Achse / V-axle<br>4 x 28, gelb / yellow                                                                                                                                                    |
|                | 38239    | Kurbel 60 / Crank 60                                                                                                                                                 |    | 32622                                                                                                    | Steckachse 40<br>Plugging axle 40                                                                                                                                                                                                                                             |
|               | 38225    | Seilhaken rot / Hook red                                                                                                                                             |    | 31035                                                                                                    | Winkelachse, 4 $\phi$<br>Angle axle, 4 $\phi$                                                                                                                                                                                                                                 |
|               | 38226    | Seilklemmstift<br>Rope clamping pin                                                                                                                                  |  | 31080                                                                                                    | Kurbelwelle, 4 $\phi$<br>Crank shaft, 4 $\phi$                                                                                                                                                                                                                                |
|              | 31195    | Seilwinde komplett<br>Rope winch, complete                                                                                                                           |  | 31044                                                                                                    | Kardangeln mit 2 Spann-<br>zangen Z 22, m 0,5<br>Universal joint with 2 screws<br>each 22 teeth                                                                                                                                                                               |
|             | 32086    | Seilwinden-Halbschale<br>Half shell of rope winch                                                                                                                    |  | 37728                                                                                                    | Schaltscheibe / Index cams                                                                                                                                                                                                                                                    |
|              | 32081    | Achse mit Vierkant, Zahnrad<br>Z 44, m 0,5, für Stufengetriebe<br>31048 und 32621<br>Axle with square, toothed<br>wheel Z 44, m 0,5, for gear-box<br>31048 and 32621 |  | 31037                                                                                                    | Segmentscheibe Z 12, m 1,5<br>Toothed cam Z 12, 1,5                                                                                                                                                                                                                           |
|             | 37679    | Klemmbuchse 5<br>mit Federring, rot<br>Clip 5 with spring ring, red                                                                                                  |  | 31038                                                                                                    | Nockenscheibe / Disk cam                                                                                                                                                                                                                                                      |
|             | 31023    | Klemmbuchse 10<br>mit Federring, rot<br>Clip 10 with spring ring, red                                                                                                |                                                                                      |                                                                                                          |                                                                                                                                                                                                                                                                               |
|             | 31024    | Klemmkupplung 8 $\phi$ , rot<br>Axle coupling clip 8 $\phi$ , red                                                                                                    |                                                                                      |                                                                                                          |                                                                                                                                                                                                                                                                               |
|             | 31983    | Hülse 15 / Sleeve 15                                                                                                                                                 |                                                                                      |                                                                                                          |                                                                                                                                                                                                                                                                               |
|             | 31597    | Abstandsring, rot<br>Spacer ring, red<br>3,5 x $\phi$ 6                                                                                                              |                                                                                      |                                                                                                          |                                                                                                                                                                                                                                                                               |
|             | 31647    | Scheibe 4 / Disk 4<br>1 x $\phi$ 15,5                                                                                                                                |                                                                                      |                                                                                                          |                                                                                                                                                                                                                                                                               |

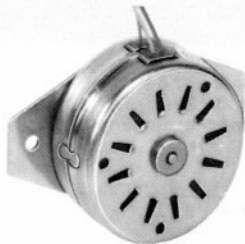
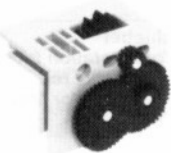
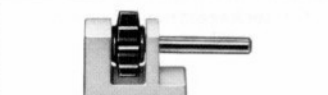
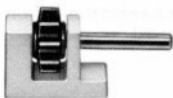
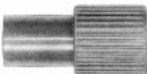
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| <b>Naben, Räder und Zahnräder / Hubs, Wheels and Gear Wheels</b>                    |          |                                                                                            |                                                                                      |                |                                                                                                                                 |
|    | 31058    | Nabenmutter / Hub nut                                                                      |    | 36264          | Zahnrad Z 30, m 1,5, schwarz<br>Gear wheel Z 30, m 1,5, black                                                                   |
|    | 35031    | Flachnabenzange<br>Flat hub chuck                                                          |    | 31021          | Zahnrad Z 20, m 1,5, schwarz<br>Gear wheel Z 20, m 1,5, black                                                                   |
|    | 35030    | Nabenzange / Hub chuck                                                                     |                                                                                      |                |                                                                                                                                 |
|    | 31017    | Reifen 30, schwarz<br>Tyre 30, black                                                       |    | 35694          | Innenzahnrad Z 30, m 1,5,<br>Außen- $\phi$ 69 mm, schwarz<br>Intertoothed gear Z 30, m 1,5,<br>outside- $\phi$ 69 mm, black     |
|    | 31018    | Reifen 45, schwarz<br>Tyre 45, black                                                       |    | 37685          | Klemmzahnrad Z 15, m 1,5,<br>Zahnbreite: 5 mm, schwarz<br>Clamping toothed wheel Z 15,<br>m 1,5, width of tooth: 5 mm,<br>black |
| Ohne Abbildung                                                                      | 36051    | Gummiring für Reifen 45,<br>schwarz<br>Rubber ring for tyre 45, black                      |    | 35695          | Zahnrad Z 15, m 1,5,<br>Zahnbreite: 5 mm, innen Z 22,<br>m 0,5, schwarz<br>Idler gear Z 15                                      |
|    | 37236    | Reifen 60, schwarz<br>Tyre 60, black                                                       |    | 31779          | Kettenrad Z 20, m 1,5, schwarz<br>Chain wheel Z 20, m 1,5, black                                                                |
| Ohne Abbildung                                                                      | 37240    | Gummiring für Reifen 60,<br>schwarz<br>Rubber ring for tyre 60, black                      |  | 31043          | Differentialgetriebe Z 15, m 1,5<br>und Achse 110<br>Differential gear Z 15, m 1,5<br>and axle 110                              |
|  | 36331    | Spurkranz, 34 x 30 $\phi$ , schwarz<br>Wheel flange, 34 x 30 $\phi$ , black                |  | 31053<br>31054 | Zahnstange / Rack<br>60, m 1,5, rot / red<br>30, m 1,5, rot / red                                                               |
| Ohne Abbildung                                                                      | 36332    | Gummiring für Spurkranz,<br>schwarz<br>Rubber ring, black                                  |   | 35113          | Spannzange / Collet chuck<br>für / for 31915, 35112, 35146<br>und / and 38843                                                   |
|   | 31019    | Drehscheibe, 60 $\phi$ , rot<br>Breite: 5,5<br>Large pulley, 60 $\phi$ , red<br>Width: 5,5 |  | 31915          | Zangenmutter / Hub nut                                                                                                          |
|  | 35678    | O-Ring 54 x 3<br>O-Ring 54 x 3                                                             |  | 35112          | Ritzel Z 10 / Cog wheel Z 10                                                                                                    |
|  | 31022    | Zahnrad Z 40/32, m 1,5,<br>schwarz<br>Gear wheel Z 40/32, m 1,5,<br>black                  |  | 35146          | Kegelzahnrad Z 12<br>Bevel gear Z 12                                                                                            |
|                                                                                     |          |                                                                                            |  | 38843          | Achsverschraubung<br>Axle screwing                                                                                              |

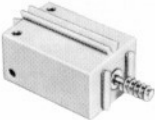
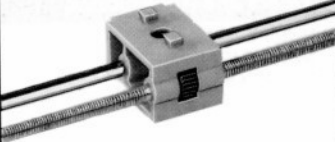
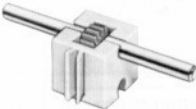
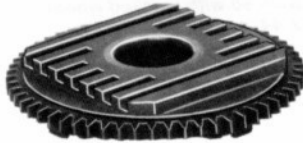
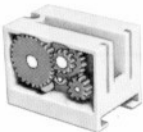
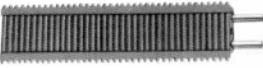
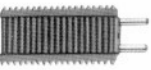


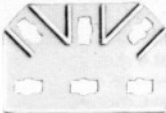
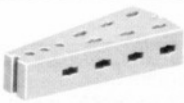
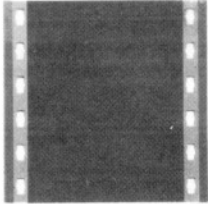
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| <b>Bauplatten und Ausstattungsteile / Mounting Plates and Accessories</b> |                         |                                                                                                          |                          |                |                                                                         |
|                                                                           | 38263<br>38246<br>38236 | Bauplatte mit Zapfen<br>Mounting plate with peg<br>15 x 15<br>weiß / white<br>rot / red<br>gelb / yellow |                          | 31013          | Flachstein 30 / Flat panel 30<br>30 x 30, rot / red                     |
|                                                                           | 38241<br>38268          | Bauplatte mit Zapfen<br>Mounting plate with peg<br>15 x 30<br>rot / red<br>gelb / yellow                 |                          | 31555          | Flachstein 60 / Flat panel 60<br>30 x 60, rot / red                     |
|                                                                           | 38242<br>38243          | Bauplatte mit Zapfen<br>Mounting plate with peg<br>15 x 45<br>rot / red<br>gelb / yellow                 |                          | 38287          | V-Stein, gelb<br>V-block, yellow<br>30 x 30 x 30                        |
|                                                                           | 38464<br>38474          | Bauplatte mit Zapfen<br>Mounting plate with peg<br>15 x 60<br>rot / red<br>gelb / yellow                 |                          | 38289          | V-Stein, gelb<br>V-block, yellow<br>30 x 30 x 15                        |
|                                                                           | 38244<br>38250          | Bauplatte mit Zapfen<br>Mounting plate with peg<br>15 x 75<br>rot / red<br>gelb / yellow                 |                          | 38440          | V-Adapterplatte, gelb<br>V-adapter plate, yellow                        |
|                                                                           | 38245<br>38486          | Bauplatte mit Zapfen<br>Mounting plate with peg<br>15 x 90<br>rot / red<br>gelb / yellow                 |                          | 35235          | Tür 30 komplett, gelb<br>Door 30 complete, yellow                       |
|                                                                           | 38247                   | Bauplatte mit Zapfen (2)<br>Mounting plate with peg (2)<br>30 x 30, rot / red                            |                          | 35390<br>35389 | Rohrhülse / Tubular sleeve<br>ø 30 x 43<br>blau / blue<br>gelb / yellow |
|                                                                           | 38259<br>38266          | Bauplatte mit Zapfen (4)<br>Mounting plate with peg (4)<br>30 x 30<br>rot / red<br>gelb / yellow         |                          | 31707<br>31943 | V-Deckel / V-lid<br>gelb / yellow<br>blau / blue                        |
|                                                                           | 38248<br>38238          | Bauplatte mit Zapfen<br>Mounting plate with peg<br>30 x 45<br>rot / red<br>gelb / yellow                 |                          | 38850          | V-Adapterplatte rund, gelb<br>V-adapter plate, round, yellow            |
|                                                                           | 38249<br>38432          | Bauplatte mit Zapfen<br>Mounting plate with peg<br>30 x 60<br>rot / red<br>gelb / yellow                 |                          | 38848          | V-Deckel rund, steckbar, gelb<br>V-lid round, pluggable, yellow         |
|                                                                           | 38251<br>38485          | Bauplatte mit Zapfen<br>Mounting plate with peg<br>30 x 90<br>rot / red<br>gelb / yellow                 |                          | 38433          | Motorhaube, rot<br>Engine hood, red<br>45 x 30 x 15                     |
|                                                                           | 32366                   | Bauplatte, grau, 15 x 15<br>Mounting plate, grey, 15 x 15                                                |                          | 38411          | Schaufelhalter, rot<br>Blade support, red                               |
|                                                                           | 32315                   | Bauplatte 15 x 15 x 3,75 mit Nut<br>Building plate 15 x 15 x 3,75<br>with slot                           |                          |                |                                                                         |
|                                                                           | 32330                   | Bauplatte 15 x 30 x 3,75<br>Mounting plate 15 x 30 x 3,75                                                |                          |                |                                                                         |
|                                                                           | 31917                   | Winkelbauplatte, rot, 60°<br>Angular mounting plate,<br>red, 60°                                         |                          |                |                                                                         |

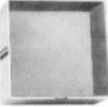
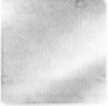
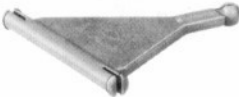
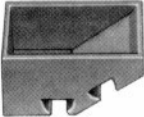
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| <b>Spezialteile / Special Parts</b>                                                                                                                                        |                |                                                                                  |                                                                                     |          |                                                                                                |
|                                                                                           | 38435          | Führerhaus, rot<br>Seitenteil links<br><i>Driver's cab,<br/>left side, red</i>   |   | 38252    | Lagerbock, rot<br><i>Coupling bracket, red</i>                                                 |
|                                                                                           | 38436          | Führerhaus, rot<br>Seitenteil rechts<br><i>Driver's cab,<br/>right side, red</i> |   | 38260    | Kupplungsstück 30, rot<br><i>Coupling 30, red</i>                                              |
|                                                                                            | 38443          | Führerhaus 45 mit Loch, rot<br><i>Cab 45 with hole, red</i>                      |   | 38253    | Kupplungsstück 2, rot<br><i>Coupling 2, red</i>                                                |
|                                                                                            | 31846          | Schaufel 120, gelb<br><i>Shovel 120, yellow</i>                                  |   | 38254    | Kupplungsstück 1, rot<br><i>Coupling 1, red</i>                                                |
|                                                                                           | 31774          | Planierschild 150, gelb<br><i>Earth levelling scoop 150, yellow</i>              |   | 38069    | Bauplatte 259 x 187<br><i>Base plate 259 x 187</i>                                             |
| <br> | 32853<br>32871 | Männchen, blau / Man, blue<br>Männchen, rot / Man, red                           |   | 30381    | Bauplatte 390 x 270<br><i>Base plate 390 x 270</i>                                             |
|                                                                                         | 31854          | Kappe, gelb / Cap, yellow                                                        |  | 30383    | Sammelkasten mit Sortier-<br>wanne und Zwischenwänden<br><i>Box with innerbox and dividers</i> |
|                                                                                         | 31910          | Integralhelm, gelb<br><i>Integral helmet, yellow</i>                             | Ohne Abbildung                                                                      | 30380    | Sammelkasten ohne<br>Sortierwanne<br><i>Box without innerbox</i>                               |
|                                                                                         | 31905          | Visier, klar<br><i>Visor, clear</i>                                              | Ohne Abbildung                                                                      | 36587    | Sortierwanne 128 x 188<br><i>Innerbox 128 x 188</i>                                            |
|                                                                                         | 32065          | Stellplatte 15 x 30 für Männchen<br><i>Platform 15 x 30 for man</i>              | Ohne Abbildung                                                                      | 36588    | Zwischenwand für<br>Sortierwanne<br><i>Divider for innerbox</i>                                |
|                                                                                                                                                                            |                |                                                                                  |                                                                                     |          |                                                                                                |

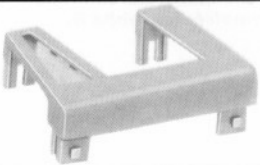
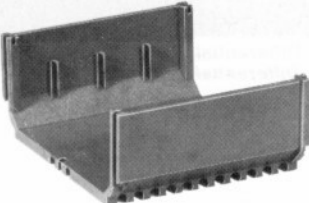
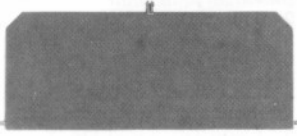
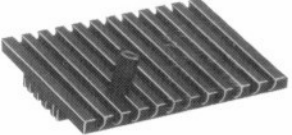
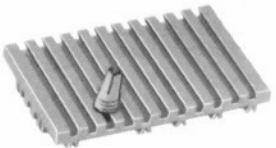
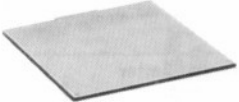


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| <b>Motoren, Getriebe und Zubehör / Motors, Gears and Accessories</b>                |          |                                                                                                                     |                                                                                      |          |                                                                                                                                                         |
|    | 32618    | Motor 6 V, schwarz<br>Motor 6 V, black<br>30 x 30 x 45                                                              |    | 32311    | Schrittmotor, bipolar, 6 V,<br>7,5° Schrittwinkel,<br>11 Ω Strangwiderstand<br>Stepper motor, bipolar, 6 V,<br>7,5° step angle,<br>11 Ω coil resistance |
|    | 32621    | Stufengetriebe 3-Gang,<br>steckbar, schwarz<br>3-speed gear box,<br>stickable, black<br>240 : 1<br>77 : 1<br>32 : 1 |    | 32359    | Beutel mit Wellenkupplung,<br>2 Stück<br>Damped axle coupling,<br>2 pieces                                                                              |
|     | 31039    | Motor 6 V / Motor 6 V<br>30 x 37,5 x 45<br>Schnecke: eingängig, m 1,5                                               |    | 11278    | Zyl.-Schraube M 4 x 50,<br>DIN 912<br>Socketed head cap screw,<br>M 4 x 50                                                                              |
|    | 31048    | Stufengetriebe / Gear box<br>30 x 45 x 30<br>Umsteckbar für / Stickable for<br>240 : 1<br>77 : 1<br>32 : 1          |    | 11279    | Zyl.-Schraube M 4 x 16,<br>DIN 912<br>Socketed head cap screw<br>M 4 x 16                                                                               |
|    | 31049    | Achse 110 mit Zahnrad Z 44,<br>m 0,5<br>Axle 110 with toothed wheel<br>Z 44, m 0,5                                  |    | 11280    | Zahnscheibe DIN 6797<br>Locking washer                                                                                                                  |
|   | 31050    | Achse 50 mit Zahnrad Z 44,<br>m 0,5<br>Axle 50 with toothed wheel<br>Z 44, m 0,5                                    |   | 32346    | Schraubendreher (Innen-<br>sechskant), DIN 911 – 3 GZ<br>Allen key, 3 mm A/F                                                                            |
|   | 32628    | Achse 125 mit Zahnrad Z 44<br>Axle 125 with toothed wheel Z 44                                                      |  | 31333    | Kupplungshülse, rot<br>für Motor 31039<br>Coupling sleeve, red<br>for motor 31039                                                                       |
|  | 31046    | Getriebehalter ohne Schnecke<br>Geared support without worm                                                         |  | 35830    | Motor-Schieber, rot,<br>aus Motor 31039<br>Motor slide, red,<br>from motor 31039                                                                        |
|  | 31045    | Getriebehalter mit Schnecke,<br>m 1,5<br>Geared support with worm,<br>m 1,5                                         |                                                                                      |          |                                                                                                                                                         |
|   | 38201    | Getriebehalter mit Welle 80<br>Geared support with shaft 80                                                         |                                                                                      |          |                                                                                                                                                         |
|  | 38203    | Adapter, rot, Breite: 5,<br>für Motor 31039<br>Adaptor, red, width: 5,<br>for motor 31039                           |                                                                                      |          |                                                                                                                                                         |
|  | 31710    | Motor-Steckplatte, rot<br>Motor plug-in plate, red                                                                  |                                                                                      |          |                                                                                                                                                         |
|  | 31717    | Schneckenspannzange, rot<br>Worm collet chuck, red                                                                  |                                                                                      |          |                                                                                                                                                         |
|  | 31711    | Kontermutter, rot<br>Counternut, red                                                                                |                                                                                      |          |                                                                                                                                                         |

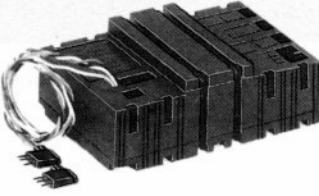
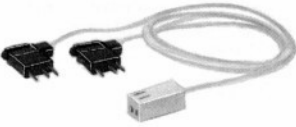
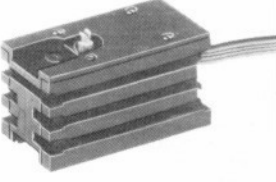
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| <b>Mini-Motor, S-Motor und Zubehör</b><br><b>Mini-Motor, S-Motor and Accessories</b> |                         |                                                                                                                                                                           |                                                                                      |                |                                                                                                          |
|     | 31062                   | Mini-Motor 6 V<br>Mini-Motor 6 V<br>30 x 15 x 20<br>Schnecke: eingängig, m 0,5                                                                                            |    | 32342          | Greifzangengetriebe<br>Gripper drive                                                                     |
|     | 32240                   | S-Motor 6 V<br>S-Motor 6 V<br>37 x 30 x 22                                                                                                                                |     | 32327          | Baustein 15 mit Buchse, grau<br>Rechtsgewinde<br>Building block 15, grey, with<br>right-hand thread      |
|      | 32242                   | S-Getriebehalter<br>S-Geared support                                                                                                                                      |     | 32328          | Baustein 15 mit Buchse,<br>schwarz, Linksgewinde<br>Building block 15, black,<br>with left-hand thread   |
|     | 31066                   | Getriebehalter mini<br>mit Schnecke, m 1,5<br>Geared support mini with<br>worm, m 1,5                                                                                     |    | 32338          | U-Getriebe Mini, mit Achse 160<br>Gear box for Mini-Motor,<br>with axle 160                              |
|      | 31067                   | Getriebehalter mini<br>ohne Schnecke<br>Geared support mini without<br>worm                                                                                               |    | 31070          | Drehschieber<br>Mini-Motor rotation block<br>30 x 7,5 x 15, rot / red<br>für Mini-Motor / for Mini-Motor |
|    | 31068                   | U-Getriebe mini<br>Mini-Motor gear box<br>30 x 15 x 15<br>4,6 : 1, m 0,5                                                                                                  |    | 37282          | Hub-Gelenk mit Spannzange<br>Linking hub with tightening                                                 |
|   | 31063<br>31064<br>31065 | U-Achse 60 mit Zahnrad Z 28,<br>m 0,5 / Mini mot axle 60<br>U-Achse 40 mit Zahnrad Z 28,<br>m 0,5 / Mini mot axle 40<br>U-Achse 135 mit Zahnrad Z 28<br>Mini mot axle 135 |  | 31390<br>31391 | Drehkranz Oberteil<br>Turntable top<br>Drehkranz Unterteil<br>Turntable base<br>Z 58, m 1,5              |
|   | 31069                   | Getriebehalter mini mit<br>Schnecke, m 0,5<br>Geared support mini with<br>worm, m 0,5                                                                                     |  | 31394          | Schneckenantrieb / Worm drive<br>m 1,5, $\phi$ 20                                                        |
|   | 37268                   | Hub-Getriebe / Mini-Motor rack<br>30 x 22,5 x 20, 181, 4 : 1; m 0,5<br>1 U/min $\approx$ 22 mm                                                                            |  | 32370          | Schneckenantrieb, m 1,5,<br>$\phi$ 20, schwarz<br>Worm drive, m 1,5,<br>diam. 20, black                  |
| Ohne Abbildung                                                                       | 37263                   | Hubgetriebe-Gehäuse<br>Mini-Motor rack without gear                                                                                                                       |   | 37925          | Schneckenmutter / Worm nut<br>15 x 15 x 15, rot / red                                                    |
|    | 37351                   | Hub-Zahnstange 60<br>mit Rändelstiften, rot<br>Rack & pinion 60, red                                                                                                      |  | 37926          | Schneckenenteil eingängig,<br>m 1,5, rot<br>Worm, m 1,5, red                                             |
|   | 37457                   | Hub-Zahnstange 30<br>mit Rändelstiften, rot<br>Rack & pinion 30, red                                                                                                      |  | 37858          | Klemmbare Schnecke<br>Locking worm                                                                       |
|   | 37276                   | Schubstange 30<br>Connecting rod 30                                                                                                                                       |                                                                                      |                |                                                                                                          |
|    | 37283                   | Schubstange 60<br>Connecting rod 60                                                                                                                                       |                                                                                      |                |                                                                                                          |

| Abbildung / Illustration                                                            | Art. No.                                                    | Bezeichnung / Description                                                   | Abbildung / Illustration                                                             | Art. No.       | Bezeichnung / Description                                                                           |
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| <b>Statikteile / Statics Parts</b>                                                  |                                                             |                                                                             |                                                                                      |                |                                                                                                     |
|     | 36303                                                       | Winkelträger 120<br>Angle girder 120<br>120 x 15 x 15                       |    | 31664          | Doppelknotenplatte, rot<br>Double gusset plate, red                                                 |
|    | 36302                                                       | Winkelträger 60<br>Angle girder 60<br>60 x 15 x 15                          |    | 31665          | Kreuzknotenplatte, rot<br>Reef knot plate, red                                                      |
|    | 36301                                                       | Winkelträger 30<br>Angle girder 30<br>30 x 15 x 15                          |    | 31666          | Eckknotenplatte, rot<br>Corner knot plate, red                                                      |
|    | 36300                                                       | Winkelträger 15<br>Angle girder 15<br>15 x 15 x 15                          |    | 31667          | Lasche 15, rot<br>Connecting strip 15, red                                                          |
|    | 36304                                                       | Winkelträger 15 mit 2 Zapfen<br>Angle girder 15 with 2 pins<br>15 x 15 x 15 |    | 31668          | Lasche 21,3, rot<br>Lug 21,3, red                                                                   |
|    | 32070                                                       | Winkelträger 7,5°<br>Angular support 7,5°                                   |    | 31670          | Winkellasche, rot<br>Angular lug, red                                                               |
|     | 36305                                                       | Flachträger 120<br>Flat girder 120                                          |    | 31671          | L-Lasche, rot<br>L-shaped lug, red                                                                  |
|    | 36307                                                       | Flachstück 120<br>Beam 120                                                  |  | 31672          | T-Lasche, rot<br>T-shaped lug, red                                                                  |
|   | 36308                                                       | Bogenstück 60°<br>Bow shaped beam 60°                                       |  | 31673          | Sternlasche, rot<br>Star-shaped lug, red                                                            |
|   | 36306                                                       | Bogenstück 30°<br>Bow shaped beam 30°                                       |  | 31675          | Kreuzlasche, rot<br>Cross-shaped lug, red                                                           |
|  | 31576                                                       | Winkelverbinder 30<br>Angle spike 30                                        |  | 31674          | Adapterlasche, rot<br>Adapter-girth, red                                                            |
|  | 31577                                                       | Eckverbinder<br>Angular connector                                           |  | 31848          | Strebenadapter, rot<br>Strut adapter, red                                                           |
|   | 38577<br>36309<br>36310<br>36311<br>36312<br>36313<br>36314 | I-Strebe / I-strut<br>15<br>30<br>45<br>60<br>75<br>90<br>120               |  | 36321<br>35431 | Platte 180 / Plate 180<br>180 x 90 x 2, rot / red<br>Platte 90 / Plate 90<br>90 x 90 x 2, rot / red |
|   | 36315<br>36316<br>36317<br>36318<br>36319<br>36320          | X-Strebe / X-strut<br>42,4<br>63,6<br>84,8<br>106,0<br>127,2<br>169,6       |  | 36333          | Laufschiene, rot<br>Guide rail, red<br>Länge / Length: 240<br>Höhe / Height: 23,5                   |
|   | 38537<br>36536<br>36535<br>36534<br>36533<br>36532          | I-Strebe mit Loch<br>I-strut with hole<br>30<br>45<br>60<br>75<br>90<br>120 |                                                                                      |                |                                                                                                     |

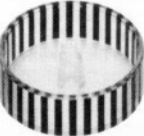
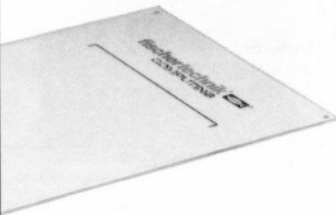
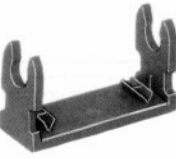
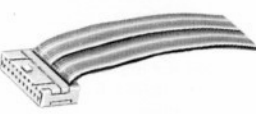
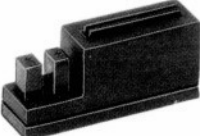
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| <b>Kettenteile, Statikteile und Zubehör</b><br><b>Chainparts, Statics Parts and Accessories</b> |                |                                                                                                          |                                                                                    |                |                                                                                                                               |
|                | 36323          | S-Riegel 4 mm, rot<br><i>Single rivet 4 mm, red</i>                                                      |   | 36248          | Rastkettenglied, rot<br><i>Link of catching chain, red</i>                                                                    |
|                                                                                                 | 36324          | S-Riegel 6 mm, rot<br><i>Double rivet 6 mm, red</i>                                                      | Ohne Abbildung                                                                     | 32649          | Beutel mit 152 Stück<br>Rastkettengliedern<br><i>Bag with 152 pieces links<br/>of catching chain</i>                          |
|                                                                                                 | 36457          | S-Riegel 8 mm, rot<br><i>Riple rivet 8 mm, red</i>                                                       |  | 31762<br>31763 | Rastraupenbelag<br><i>Coating of catching caterpillar</i><br>29,5 x 4 x 9<br>44,5 x 4 x 9                                     |
|                | 35800          | S-Riegelschlüssel<br><i>Rivet holder</i>                                                                 | Ohne Abbildung                                                                     | 32656          | Beutel mit 76 Stück (29,5 mm)<br>Rastraupenbeläge<br><i>Bag with 76 pieces (29,5 mm)<br/>coatings of catching caterpillar</i> |
|                | 37232          | Verschlußriegel, rot<br><i>Locking pin, red</i>                                                          |  | 31028          | Antriebsfeder 270<br><i>Drive spring 270</i>                                                                                  |
|                | 36334          | Riegelscheibe, rot<br><i>Locking washer, red</i>                                                         |  | 31027          | Nylonseil / Nylon rope<br>blau / blue, 2000 lang / long<br>Ø 0,5                                                              |
|                | 32316          | Verbindungsstopfen<br><i>Connecting plug</i>                                                             |  | 31057          | Raupeband, schwarz,<br>230 lang, 12 breit<br><i>Flexible track, 230 long,<br/>12 width</i>                                    |
|                 | 32317          | Dreieck-Verbindungsplatte<br><i>Triangular connecting plate</i>                                          |                                                                                    |                |                                                                                                                               |
|                | 36329          | Scharnier / Hinge                                                                                        |                                                                                    |                |                                                                                                                               |
|              | 35359          | Kassetten-Unterteil<br><i>Bottom of cassette</i><br>60 x 60 x 28                                         |                                                                                    |                |                                                                                                                               |
|              | 35360          | Kassetten-Deckel, klar<br><i>Cassette cover, transparent</i><br>60 x 60 x 2                              |                                                                                    |                |                                                                                                                               |
|               | 31720          | Aufhängebügel, rot<br><i>Suspension yoke, red</i>                                                        |                                                                                    |                |                                                                                                                               |
|               | 31713          | Gondelhalter, rot<br><i>Gondola support, red</i>                                                         |                                                                                    |                |                                                                                                                               |
|              | 31712          | Mitnehmer, schwarz<br><i>Driver, black</i>                                                               |                                                                                    |                |                                                                                                                               |
|              | 37210<br>31777 | Raupeband<br><i>Crawler track link</i><br>14,5 x 4 x 9, schwarz / black<br>29,5 x 4 x 9, schwarz / black |                                                                                    |                |                                                                                                                               |
|              | 37192          | Förderglied für m 1,5<br>Kettenbreite: außen 9 mm,<br>innen 5 mm, rot<br><i>Conveyor link for m 1,5</i>  |                                                                                    |                |                                                                                                                               |
|              | 37209          | Förderbecher / Bucket<br>15 x 15 x 24, rot / red                                                         |                                                                                    |                |                                                                                                                               |

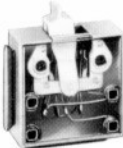
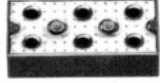
| Abbildung / Illustration                                                                       | Art. No.                | Bezeichnung / Description                                                                                                                                        | Abbildung / Illustration                                                             | Art. No.       | Bezeichnung / Description                                                       |
|------------------------------------------------------------------------------------------------|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|----------------|---------------------------------------------------------------------------------|
| <b>Fahrzeugteile und Motor-Controller-Teile</b><br><b>Car Parts and Motor Controller Parts</b> |                         |                                                                                                                                                                  |                                                                                      |                |                                                                                 |
|                | 38181<br>38182          | Führerhaus Seitenteil links<br>Driver's cab lateral part, left side<br>rot / red<br>gelb / yellow                                                                |    | 31844          | Kippermulde, rot<br>Tipper bucket (dump body), red                              |
|                | 38183<br>38184          | Führerhaus Seitenteil rechts<br>Driver's cab lateral part, right side<br>rot / red<br>gelb / yellow                                                              |    | 31845<br>31953 | Klappe / Flap<br>rot / red<br>gelb / yellow                                     |
|                | 31889<br>31890          | Bodenplatte / Bottom plate<br>75 x 90<br>rot / red<br>gelb / yellow                                                                                              |    | 31263          | Aufliegerkupplung Unterteil,<br>rot<br>Trailer coupling, bottom part,<br>red    |
|                | 32625                   | Bodenplatte / Bottom plate<br>60 x 90, gelb / yellow                                                                                                             |    | 31264          | Aufliegerkupplung Oberteil,<br>rot<br>Trailer coupling, upper part,<br>red      |
|               | 31881<br>31907<br>31906 | Front-/Heckscheibe 100<br>Windshield/rear window 100<br>Front-/Heckscheibe 85<br>Windshield/rear window 85<br>Front-/Heckscheibe 70<br>Windshield/rear window 70 |   | 38446          | Gelenkklaue<br>für Aufliegerkupplung<br>Articulated jaw<br>for trailer coupling |
|             | 31934                   | V-Stein mit Zapfen, schwarz<br>V-block with peg, black<br>15 x 15 x 15                                                                                           |  | 38190          | Reifen 65 $\phi$<br>Tyre 65 $\phi$                                              |
|             | 31766                   | Sitz, schwarz / Seat, black                                                                                                                                      |  | 31879<br>31878 | Felge 45 / Wheel rim 45<br>rot / red<br>gelb / yellow                           |
|             | 31994                   | Schalthebel, schwarz<br>Gear lever, black                                                                                                                        |  | 32626          | Reifen 45 / Tyre 45                                                             |
|             | 31916                   | Lenkrad 2<br>Steering wheel 2                                                                                                                                    |  | 32627          | Felge 30, gelb<br>Wheel rim 30, yellow                                          |
|             | 31258                   | Radaufhängung<br>Wheel suspension                                                                                                                                |  | 35033<br>31913 | Nabenmutter / Hub nut<br>rot / red<br>gelb / yellow                             |
|             | 38634                   | Kunststoff-Feder 20, schwarz<br>Plastic spring 20, black                                                                                                         |  | 38437          | Klebeetikett / Sticker                                                          |
|             | 31895<br>31896          | Kotflügel / Mudguard<br>gelb / yellow<br>rot / red                                                                                                               |                                                                                      |                |                                                                                 |
|                                                                                                |                         |                                                                                                                                                                  |                                                                                      |                |                                                                                 |

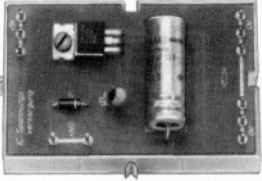
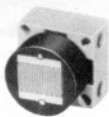
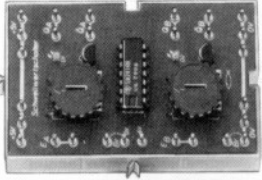
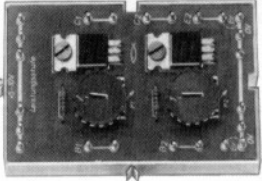


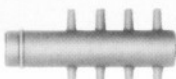
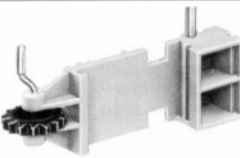
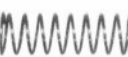
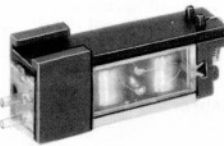
| Abbildung / Illustration                                                                       | Art. No.                | Bezeichnung / Description                                                                                                                                 | Abbildung / Illustration                                                             | Art. No. | Bezeichnung / Description                                                                                 |
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| <b>Fahrzeugteile und Motor-Controller-Teile</b><br><b>Car Parts and Motor Controller Parts</b> |                         |                                                                                                                                                           |                                                                                      |          |                                                                                                           |
|                | 31500                   | Differential<br>Differential gear unit                                                                                                                    |    | 32466    | 4-Kanal-Motor-Controller,<br>komplett für robbe RC<br>4-channel-motorcontroller,<br>complete for robbe RC |
|               | 31416<br>31417<br>31418 | Gelenkwelle<br>Universal joint shaft<br>22,5 lang / long<br>37,5 lang / long<br>67,5 lang / long                                                          |    | 32467    | Kabel, Kanal 3 + 4<br>Cable, channel 3 + 4                                                                |
|               | 31397                   | Vierkantmitnehmer, schwarz,<br>für Felge 31878 und 31879<br>Square driver, black,<br>for wheel rim 31878 and 31879                                        |    | 31242    | Motor-Controller-Deckel, gelb<br>Motor-controller lid, yellow                                             |
|               | 31419                   | Spannzange für Gelenkwelle<br>in Verbindung mit Spannzange<br>35113<br>Collet chuck for universal<br>joint shaft in connection with<br>collet chuck 35113 |    | 32470    | Motor-Controller-Kabel<br>mit Buchsen<br>Motor-controller cable<br>with flat bushings                     |
|               | 31103                   | Lenkwürfel und Klaue,<br>komplett (Feder), rot<br>Steering cube and jaw,<br>complete (spring), red                                                        |   | 32471    | Motor-Controller-Kabel<br>mit Steckern<br>Motor-controller cable<br>with flat plugs                       |
|              | 31894                   | Anlenkhebel, rot<br>Wrist pin, red                                                                                                                        |  | 32472    | Antennenhalter<br>Aerial-support                                                                          |
|             | 31888                   | Gelenkstück, schwarz<br>Articulated piece, black                                                                                                          |  | 32469    | Motor-Controller-Kabel<br>mit Schalter<br>Motor-controller cable<br>with switch                           |
|             | 38133<br>38636          | Lenksäule, rot, mit<br>Säulenhebel, 70 lang<br>Column lever, 70 long<br>Säulenhebel, 55 lang<br>Column lever, 55 long                                     |  | 32468    | Bauplatte 30 x 30, schwarz,<br>mit Klebepunkt<br>Mounting plate 30 x 30, black,<br>with adhesive tape     |
|              | 31614                   | Spurstange für Servo, schwarz<br>Track rod for servo, black                                                                                               |                                                                                      |          |                                                                                                           |
|             | 32623                   | Lenksäule / Steering column                                                                                                                               |                                                                                      |          |                                                                                                           |
|             | 32624                   | Gelenkstange / Hinged rod                                                                                                                                 |                                                                                      |          |                                                                                                           |
|              | 31495                   | Servo / Servo                                                                                                                                             |                                                                                      |          |                                                                                                           |
|             | 32104                   | Aufsteckzahnrad, rot<br>Detachable toothed wheel, red                                                                                                     |                                                                                      |          |                                                                                                           |
|             | 32108<br>32109          | Hebel, rot / Lever, red<br>15 lang / long<br>22,5 lang / long                                                                                             |                                                                                      |          |                                                                                                           |



| Abbildung / Illustration                                                            | Art. No.       | Bezeichnung / Description                                                                                                                     | Abbildung / Illustration                                                            | Art. No.       | Bezeichnung / Description                                                                          |
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| <b>Zubehörteile für Computing / Accessories for Computing</b>                       |                |                                                                                                                                               |                                                                                     |                |                                                                                                    |
|     | 32348          | Kasten, schwarz, bedruckt<br>Box, black, printed                                                                                              |   | 31198          | Achse 50 mit Rändel<br>Axle 50 with knurled end                                                    |
|    | 32367          | Walzenrad, bedruckt<br>Cylindrical wheel, printed                                                                                             |    | 32360<br>35796 | Druckfeder<br>Compression spring<br>5,3 x 10 x 0,3<br>30 x 5 x 0,3                                 |
|    | 63411          | Spanplattenschraube 3,5 x 20<br>Self-tapping cross head screw<br>3,5 x 20                                                                     |   | 32351          | Schaumstoff-Klebestreifen<br>9 x 3 x 150<br>Self-adhesive foam strip<br>9 x 3 x 150                |
|     | 32350          | Plexiglasplatte 300 x 420 x 3,<br>bedruckt<br>Acrylic sheet, 300 x 420 x 3,<br>printed                                                        |   | 32117          | Drehschalter, Oberteil mit<br>Verzahnung<br>Upper part of rotary switch<br>with toothing           |
|    | 33582          | Tesa-Klebe Punkt, $\varnothing$ 12,5,<br>1 Stück<br>Self-adhesive disc, diam. 12,5,<br>1 piece                                                |   | 11034          | Papierdrahtband, 50 mm lang<br>Paper clip, 50 mm long                                              |
|  | 31997          | Seilwindengestell/Stifthalter<br>Holder for fiber pen                                                                                         |    | 32322          | Baustein 15 mit Ansenkung<br>Building block 15 with counter-<br>bore                               |
|   | 32121          | Fasermine / Fiber pen insert                                                                                                                  |   | 32247          | Luftschraube / Propeller                                                                           |
|  | 32116          | Flachstein 30 mit Bohrung<br>Flat block 30 with bore                                                                                          |  | 32680          | Netzgerät (nur für Computing<br>Experimental)<br>Power supply (for Computing<br>Experimental only) |
|  | 32235          | Potentiometer / Potentiometer                                                                                                                 |                                                                                     |                |                                                                                                    |
|  | 32657<br>32793 | Steckerbuchse 28polig<br>Plug socket<br>Steckerbuchsengehäuse<br>Plug socket housing<br>Teilebeutel für 28polige<br>Steckerbuchse / Parts-Bag |                                                                                     |                |                                                                                                    |
|   | 32114<br>32119 | Flachbandkabel<br>Rainbow cable<br>2 m, 20 adr.<br>1,2 m, 20 adr.                                                                             |                                                                                     |                |                                                                                                    |
|  | 32357          | Gabellichtschranke, 5 V,<br>Impuls Ausgang: pnp-open-<br>collector<br>Photo-interrupter, 5 V,<br>pulse output: pnp-open-<br>collector         |                                                                                     |                |                                                                                                    |

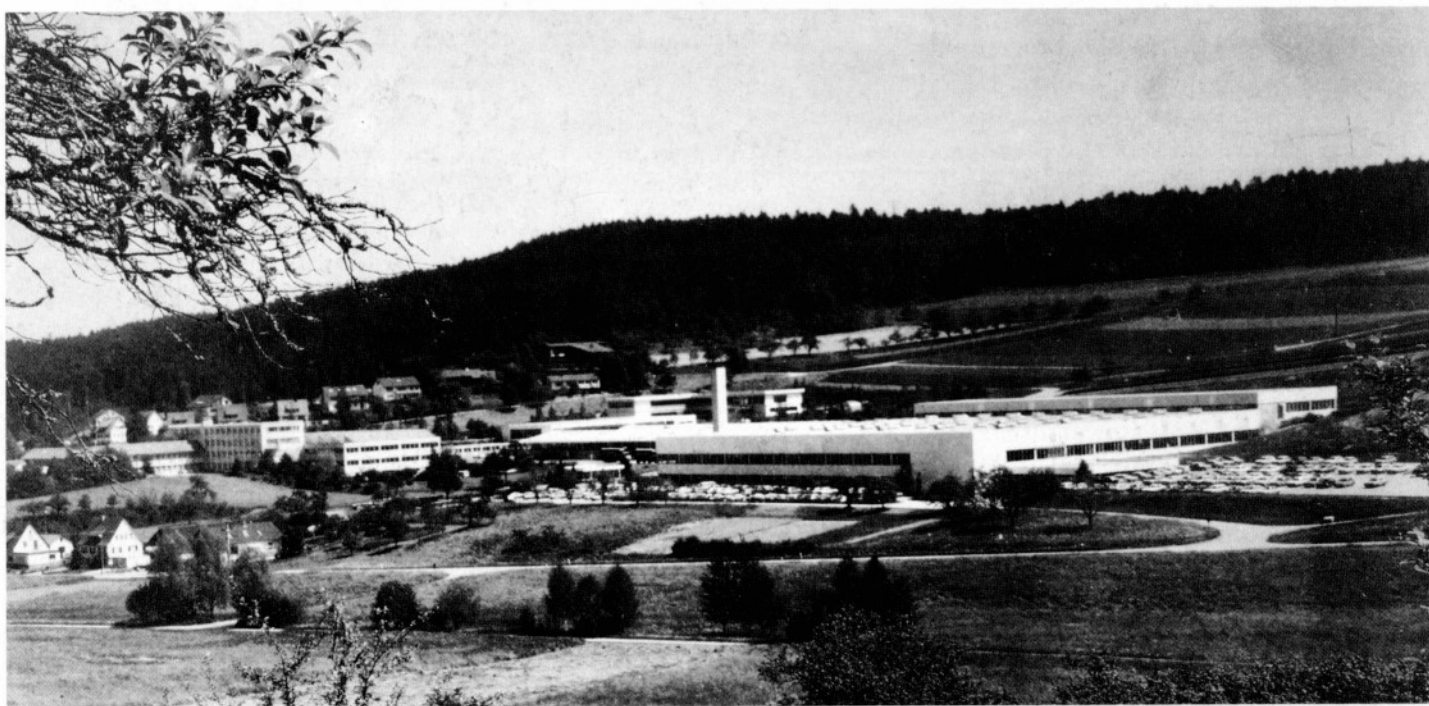
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| <b>Elektromechanikteile: Schalter, Litzen, Magnete</b><br><b>Electromechanical Parts: Switches, Laces, Magnets</b> |                |                                                                                                                           |                                                                                      |                |                                                                                                                    |
|                                   | 31350          | Polwendeschalter/Taster<br><i>Polechanging key</i>                                                                        |    | 31325          | Rückschlußplatte rechteckig<br>30 x 15<br><i>Rear end plate, rectangular<br/>30 x 15</i>                           |
|                                   | 36707          | Polwendeschalter<br><i>Pole commutator</i>                                                                                |    | 31326          | Rückschlußplatte rund, $\phi$ 25<br><i>Rear end plate, round, <math>\phi</math> 25</i>                             |
|                                   | 31331          | Polwendeschalter, max. 1 A<br><i>Reversing switch, max. 1 amp<br/>30 x 30 x 15</i>                                        |    | 31327<br>31328 | Verteilerplatte 30 x 15<br><i>Distr. plate 30 x 15</i><br>einpolig, grün / green<br>einpolig, rot / red            |
|                                   | 31332          | Taster, max. 1 A<br><i>on/off press switch,<br/>max 1 amp</i>                                                             |    | 31301          | Schleifring mit Buchsen, 44 $\phi$<br><i>Slipring with bushes, 44 <math>\phi</math></i>                            |
|                                   | 37780          | mini-Taster, max. 1 A<br><i>Mini switch 1 amp<br/>30 x 15 x 7,5</i>                                                       |    | 31303          | Unterbrecherstück<br>einseitig, 60°<br><i>Unilateral interruptor, 60°</i>                                          |
|                                 | 32394          | Reedkontakt mit<br>Leuchtstein-Unterteil<br><i>Reed contact with<br/>plug in light holder</i>                             |    | 31304          | Unterbrecherstück<br>zweiseitig, 60°<br><i>Double-sided interruptor, 60°</i>                                       |
|                                 | 31322<br>31323 | Dauermagnet 30 x 15<br><i>Permanent magnet 30 x 15</i><br>grün / green<br>rot / red                                       |    | 31305          | Kontaktstück / <i>Slipring contact</i>                                                                             |
|                                  | 31329          | Schwingfeder<br><i>Rocking spring<br/>127 x 15 x 0,3</i>                                                                  |   | 31306          | Federkontakt / <i>Spring contact</i>                                                                               |
|                                  | 35792          | Thermo-Bimetall<br><i>Thermostatic bimetal<br/>122 x 15</i>                                                               |  | 31307          | Federfuß / <i>Spring coupling</i>                                                                                  |
|                                  | 31309          | Steckachse 180, 4 $\phi$ ,<br>mit Stecker und Buchse,<br>2,5 mm $\phi$<br><i>Connecting axle 180, 4 <math>\phi</math></i> |  | 31338          | Klemmkontakt<br><i>Terminal contact</i>                                                                            |
|                                  | 31364<br>31360 | Litze / <i>Lace</i> , 1 m, 0,14 mm <sup>2</sup><br>Litze / <i>Lace</i> , 2 m, 0,14 mm <sup>2</sup>                        |  |                | Elektromagnet mit Anker, 6 V,<br>bestehend aus:<br><i>Electromagnet with actuator<br/>arm, 6 V, consisting of:</i> |
| Ohne Abbildung                                                                                                     | 32362          | Litze 2 x 0,25, schwarz,<br>1500 lang<br><i>Lace 2 x 0,25, black,<br/>1500 long</i>                                       |  | 32363          | Elektromagnet / <i>Electromagnet</i>                                                                               |
| Ohne Abbildung                                                                                                     | 36384          | Litze, 1-adrig, rot,<br>2000 lang<br><i>Lace, red, 2000 long</i>                                                          |  | 32320          | Ankerlagerstein<br><i>Fixing block for electro-<br/>magnet actuator arm</i>                                        |
|                                                                                                                    |                |                                                                                                                           |  | 32353          | Magnet-Ankerblech<br><i>Actuator arm for electro-<br/>magnet</i>                                                   |
|                                                                                                                    |                |                                                                                                                           |  | 32354          | Zugfeder für Elektromagnet<br><i>Extension spring for<br/>electromagnet</i>                                        |
|                                                                                                                    |                |                                                                                                                           |  | 32455          | Führungsplatte für<br>Elektromagnet<br><i>Guide plate for electromagnet</i>                                        |

| Abbildung / Illustration                                                                 | Art. No.                                                             | Bezeichnung / Description                                                                                                                                                                                                                                                                            | Abbildung / Illustration                                                             | Art. No.                                                                               | Bezeichnung / Description                                                                                                                                                                                                                                                                                                                                                                                                               |
|------------------------------------------------------------------------------------------|----------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Elektronikteile, Lampen und Stecker</b><br><b>Electronical Parts, Lamps and Plugs</b> |                                                                      |                                                                                                                                                                                                                                                                                                      |                                                                                      |                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|          | 35732                                                                | IC-Spannungsversorgung<br>IC voltage supply                                                                                                                                                                                                                                                          |    | 32698                                                                                  | Fotowiderstand LDR 03<br>Photo resistor LDR 03<br>15 x 15 x 10                                                                                                                                                                                                                                                                                                                                                                          |
|          | 36295                                                                | Schwellwertschalter<br>Threshold switch                                                                                                                                                                                                                                                              |    | 36478<br>36531<br>31362<br>36532<br>37604                                              | Störlichtkappe, schwarz<br>Masking light cap, black<br>Bohrung / Hole 1,0<br>Bohrung / Hole 2,5<br>Bohrung / Hole 4,0<br>Bohrung / Hole 6,0<br>Bohrung / Hole 8,0                                                                                                                                                                                                                                                                       |
|          | 36296                                                                | Leistungsstufe<br>Power stage                                                                                                                                                                                                                                                                        |     | 38217                                                                                  | Leuchtstein mit Steckfassung<br>Plug in light holder                                                                                                                                                                                                                                                                                                                                                                                    |
|          | 36533                                                                | Diode, 1 N 4001 mit<br>2 Steckhülsen<br>Diode with 2 plugs                                                                                                                                                                                                                                           |     | 37869                                                                                  | Kugelstecklampe / Ball lamp<br>6 V; 0,1 A                                                                                                                                                                                                                                                                                                                                                                                               |
|        | 37452<br>36554<br>36552<br>36551<br>36537<br>36535                   | Widerstand, 0,25 W, 5 %,<br>mit 2 Steckhülsen<br>Resistor with 2 plugs<br>100 $\Omega$<br>1 k $\Omega$<br>4,7 k $\Omega$<br>10 k $\Omega$<br>22 k $\Omega$<br>100 k $\Omega$                                                                                                                         |     | 37875                                                                                  | Linsenstecklampe<br>Lens bulb plug in<br>6 V; 0,2 A                                                                                                                                                                                                                                                                                                                                                                                     |
|        | 37154<br>38500                                                       | Elektrolyt-Kondensator 16 V<br>mit 2 Steckhülsen<br>Capacitor 16 V with 2 pins<br>47 $\mu$ F<br>470 $\mu$ F                                                                                                                                                                                          |    | 31321<br>31914                                                                         | Leuchtkappe, Bohrung $\varnothing$ 8<br>für Linsenlampe<br>Luminous cap 8 $\varnothing$<br>for lenstype lamp<br>rot / red<br>gelb / yellow                                                                                                                                                                                                                                                                                              |
|       | 38855                                                                | Steckhülse mit Lötflanke<br>Pin                                                                                                                                                                                                                                                                      |   | 31316<br>31317<br>31318<br>31319<br>31320                                              | Leuchtkappe / Light cap<br>rot / red<br>gelb / yellow<br>grün / green<br>blau / blue<br>weiß / white                                                                                                                                                                                                                                                                                                                                    |
|       | 38653<br>36477<br>36501<br>38649                                     | Kabel mit 2 Steckhülsen<br>Cable with 2 pins<br>100 lang / long, gelb / yellow<br>100 lang / long, rot / red<br>60 lang / long, gelb / yellow<br>60 lang / long, blau / blue                                                                                                                         |  | 31336<br>31337<br>31546<br>31547<br>31548<br>31549<br>31550<br>31551<br>31552<br>31553 | Flachstecker, grün<br>Flat plug, green<br>Flachstecker, rot<br>Flat plug, red<br>Flachstecker, orange<br>Flat plug, orange<br>Flachstecker, gelb<br>Flat plug, yellow<br>Flachstecker, blau<br>Flat plug, blue<br>Flachstecker, violett<br>Flat plug, violet<br>Flachstecker, grau<br>Flat plug, grey<br>Flachstecker, schwarz<br>Flat plug, black<br>Flachstecker, weiß<br>Flat plug, white<br>Flachstecker, braun<br>Flat plug, brown |
|       | 36367<br>36368<br>36446<br>36445<br>36369<br>36444<br>38654<br>38656 | Kabel mit 1 Steckhülse<br>Cable with 1 pin<br>80 lang / long, blau / blue<br>120 lang / long, blau / blue<br>120 lang / long, rot / red<br>120 lang / long, grün / green<br>200 lang / long, blau / blue<br>200 lang / long, rot / red<br>300 lang / long, rot / red<br>300 lang / long, blau / blue |  | 31253<br>31254                                                                         | Flachbuchse, grün<br>Flat bushing, green<br>Flachbuchse, rot<br>Flat bushing, red                                                                                                                                                                                                                                                                                                                                                       |
|       | 36936                                                                | Lautsprecher / Loudspeaker                                                                                                                                                                                                                                                                           |  | 36443<br>36442                                                                         | Schraubendreher<br>Screw driver<br>Schraubendreher für<br>Gabellichtschranke<br>Screw driver                                                                                                                                                                                                                                                                                                                                            |
|                                                                                          |                                                                      |                                                                                                                                                                                                                                                                                                      |  | 37677                                                                                  | Krokodilklemme / Spring clip                                                                                                                                                                                                                                                                                                                                                                                                            |
|                                                                                          |                                                                      |                                                                                                                                                                                                                                                                                                      |  | 36437                                                                                  | Heißleiter / NTC resistor                                                                                                                                                                                                                                                                                                                                                                                                               |

| Abbildung / Illustration                                                            | Art. No.       | Bezeichnung / Description                                                                             | Abbildung / Illustration                                                             | Art. No.       | Bezeichnung / Description                                                                                  |
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| <b>Pneumatik- und Hydraulikteile / Pneumatic- and Hydraulic Parts</b>               |                |                                                                                                       |                                                                                      |                |                                                                                                            |
|    | 36073<br>36074 | Pneumatik-Zylinder, blau<br><i>Pneumatic-Cylinder, blue</i><br>45 lang / long<br>60 lang / long       |    | 31646          | P-Verteiler, blau<br><i>P-distributor, blue</i>                                                            |
|    | 36239          | Pneumatik-Zylinder, blau, mit Feder, 45 lang<br><i>Pneumatic-Cylinder, blue, with spring, 45 long</i> |    | 36079          | Schlauch, blau / Hose, blue<br>10 $\phi$ x 0,5, 50 lang / long                                             |
|    | 36082<br>36083 | Ventil / Valve<br>geschlossen, blau / closed, blue<br>offen, rot / open, red                          |     | 36200          | P-Schlauchanschluß<br><i>P-Hoseconnector</i>                                                               |
|    | 31641          | Rollenhebel, schwarz<br><i>Roller lever, black</i>                                                    |     | 31642<br>31653 | T-Stück / T-piece<br>blau / blue<br>grün / green                                                           |
|                                                                                     |                |                                                                                                       | Ohne Abbildung                                                                       | 36078          | PVC-Schlauch / PVC-Hose<br>2 x 0,4 x 2000, blau / blue                                                     |
|    | 36075          | Betätiger, blau<br><i>Actuator, blue</i>                                                              |     | 32456          | Gelenk für Pneumatik-Zylinder<br><i>Link for pneumatic cylinder</i>                                        |
|    | 36076          | Doppelbetätiger, blau<br><i>Double actuator, blue</i>                                                 |     | 31719          | Zylinderanschlußstück, rot<br><i>Cylinder connecting piece, red</i>                                        |
|   | 36077          | P-Drossel, blau<br><i>P-throttle, blue</i>                                                            |   | 31718          | Schwungscheibe, schwarz<br><i>Large round pivot base, black</i>                                            |
|  | 31632          | Düse / Nozzle<br>blau / blue                                                                          |                                                                                      |                |                                                                                                            |
|   | 32063          | Kompressor-Chassis<br><i>Compressor chassis</i>                                                       |  | 31104<br>31105 | Hydraulik-Zylinder, grün<br><i>Hydraulic cylinder, green</i><br>45 lang / long<br>60 lang / long           |
|  | 31422          | Achsadapter, rot<br><i>Adapter, red</i>                                                               |  | 31847          | Rastschiene, rot / Rail, red                                                                               |
|  | 31908          | Puffer, grün / Buffer, green                                                                          |   | 31849          | Rastgelenk, grün<br><i>Switch, green</i>                                                                   |
|  | 32061          | Rückschlagventil<br><i>Nonreturn valve</i>                                                            | Ohne Abbildung                                                                       | 32272          | PVC-Schlauch / PVC-Hose<br>2 x 0,4 x 1000, grün / green                                                    |
|  | 36147          | Druckfeder / Pressure spring<br>15 x 5 x 0,4                                                          |  |                | Magnetventil / Magnet valve<br>besteht aus / consisting of:<br>36082, 32320, 32353, 32354,<br>32455, 32363 |
|  | 31106          | Mini-Taster, abgestimmt auf Kompressor-Bausatz<br><i>Mini-switch, for compressor kit only</i>         |                                                                                      |                |                                                                                                            |
|   | 36190          | Luftspeicher, blau<br><i>Air cell, blue</i>                                                           |                                                                                      |                |                                                                                                            |
|  | 31708<br>31737 | P-Stopfen / P-plug<br>blau / blue<br>grün / green                                                     |                                                                                      |                |                                                                                                            |







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