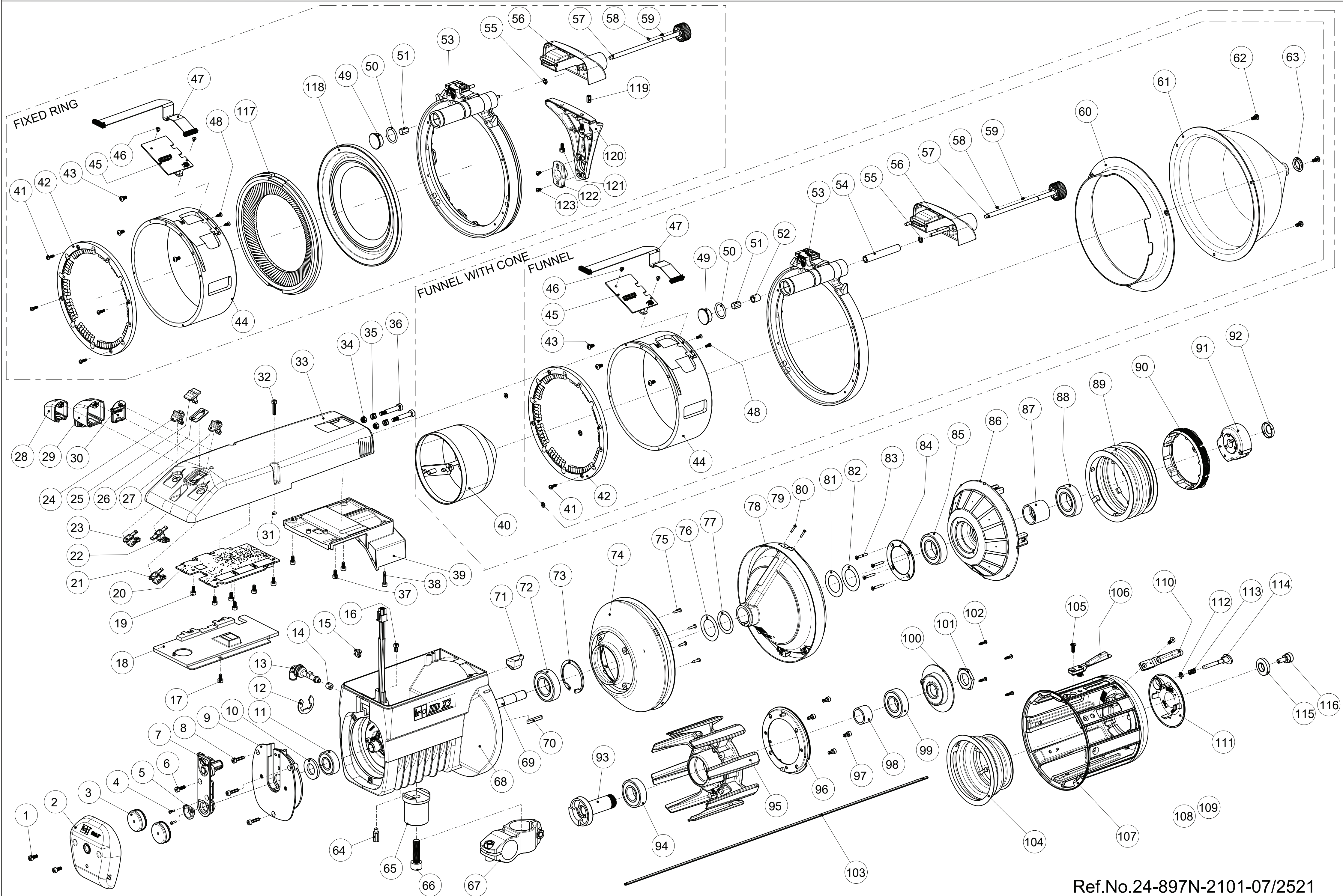


# HD X3 - Exploded view



|                         |               |                                      |                                          |                                                                                    |
|-------------------------|---------------|--------------------------------------|------------------------------------------|------------------------------------------------------------------------------------|
| <b>ROJ</b> <sup>®</sup> | PAGE<br>1 (4) | Spare parts list for<br>HD X3 6724-X | REF. NO.<br>24-897N-<br>2101-<br>07/2521 |  |
|                         |               |                                      |                                          |                                                                                    |

Update: Items pos. 1 and 2 switched places. Pos.69: part no. where 24-0899-003-01 and 24-0899-004-01. Pos. 78: part no. where 24-0783-101-01 and 24-0783-102-01. Several descriptions been changed.

| POS                     | PART NO      | DESCRIPTION                  | Marked with □ if item is specified for |                  |        | REMARKS                             |
|-------------------------|--------------|------------------------------|----------------------------------------|------------------|--------|-------------------------------------|
|                         |              |                              | FIXED RING                             | FUNNEL WITH CONE | FUNNEL |                                     |
| 1                       | 900-0075     | SCREW                        |                                        |                  |        | Package of 10 pcs.                  |
| 2                       | 54R00439     | PIEZO YARN BREAK SENSOR      |                                        |                  |        | TFE 9. Incl. pos. 1, 3              |
| 2                       | 54R00443     | PIEZO YARN BREAK SENSOR      |                                        |                  |        | TFE 9, pol. eyelet. Incl. pos. 1, 3 |
| 3                       | 27A00029     | SHOCK ABSORBER               |                                        |                  |        |                                     |
| 4                       | 900-0588     | SCREW                        |                                        |                  |        | Plast Tite. Package of 10 pcs.      |
| 5                       | 24-0787-001  | CERAMIC EYELET               |                                        |                  |        | Std. Package of 10 pcs.             |
| 5                       | 24-0787-002  | CERAMIC EYELET               |                                        |                  |        | Polished. Package of 10 pcs.        |
| 6                       | 900-0218     | SCREW                        |                                        |                  |        | Package of 10 pcs.                  |
| 7                       | 24-0790-001  | VALVE COMPL                  |                                        |                  |        |                                     |
| 8                       | 900-0187     | SCREW                        |                                        |                  |        | Package of 10 pcs.                  |
| 9                       | 24-0021-001K | MOTOR FLANGE                 |                                        |                  |        |                                     |
| 10                      | 24-0795      | SEAL WASHER                  |                                        |                  |        | Felt material                       |
| 11                      | 900-4069     | BALL BEARING                 |                                        |                  |        | Package of 10 pcs.                  |
| 12                      | 900-9364     | CIRCLIP                      |                                        |                  |        | Package of 10 pcs.                  |
| 13                      | 24-0138      | CONNECTOR COMPL.             |                                        |                  |        | Incl. pos. 12, 14                   |
| 14                      | 24-0173      | GROMMET                      |                                        |                  |        |                                     |
| 15                      | 24-0371      | CABLE INLET                  |                                        |                  |        |                                     |
| 16, 17, 19, 37, 97, 121 | 900-0117     | SCREW                        |                                        |                  |        | Package of 10 pcs.                  |
| 17, 16, 19, 37, 97, 121 | 900-0117     | SCREW                        |                                        |                  |        | Package of 10 pcs.                  |
| 18                      | 24-0809      | PROTECTION COVER             |                                        |                  |        |                                     |
| 19, 16, 17, 37, 97, 121 | 900-0117     | SCREW                        |                                        |                  |        | Package of 10 pcs.                  |
| 20                      | 09E00840     | MOTOR CIRCUIT BOARD          |                                        |                  |        |                                     |
| 21                      | 24-0643      | MAX SPEED MAGNET HOLDER      |                                        |                  |        |                                     |
| 22                      | 24-0721-R    | ON/OFF SWITCH ASSEMBLY KIT   |                                        |                  |        | Incl. pos. 25, 26                   |
| 23                      | 24-0811      | S/Z SWITCH ASSEMBLY KIT      |                                        |                  |        | Incl. pos. 24                       |
| 24                      | 24-0811      | S/Z SWITCH ASSEMBLY KIT      |                                        |                  |        | Incl. pos. 23                       |
| 25                      | 24-0721-R    | ON/OFF SWITCH ASSEMBLY KIT   |                                        |                  |        | Incl. pos. 22, 26                   |
| 26                      | 24-0721-R    | ON/OFF SWITCH ASSEMBLY KIT   |                                        |                  |        | Incl. pos. 22, 25                   |
| 27                      | 24-0810-003  | MAX SPEED HANDLE             |                                        |                  |        |                                     |
| 28                      | 24-0653-R    | CABLE COVER ACCESSORIES CPL. |                                        |                  |        |                                     |
| 29                      | 24-0803-1750 | CONNECTION CABLE             |                                        |                  |        | 1,75m                               |
| 29                      | 24-0803-3000 | CONNECTION CABLE             |                                        |                  |        | 3,00m                               |
| 30                      | 24-0611      | CABLE COVER                  |                                        |                  |        |                                     |
| 31                      | 900-9355     | O-RING                       |                                        |                  |        | Package of 10 pcs.                  |
| 32, 38                  | 900-0260     | SCREW                        |                                        |                  |        | Package of 10 pcs.                  |
| 33                      | 24-0844-001L | TOP COVER COMPLETE           |                                        |                  |        | Incl. pos. 22-26, 28, 30-32, 34-36  |
| 34                      | 900-1016     | LOCK NUT                     |                                        |                  |        | Package of 10 pcs.                  |
| 35                      | 24-0862      | SHOULDER SCREW W. LOCK NUT   |                                        |                  |        | Incl. pos. 34, 36                   |
| 36                      | 24-0862      | SHOULDER SCREW W. LOCK NUT   |                                        |                  |        | Incl. pos. 34, 35                   |
| 37, 16, 17, 19, 97, 121 | 900-0117     | SCREW                        |                                        |                  |        | Package of 10 pcs.                  |
| 38, 32                  | 900-0260     | SCREW                        |                                        |                  |        | Package of 10 pcs.                  |
| 39                      | 34C00306     | SENSOR RING SUPPORT          |                                        |                  |        |                                     |
| 40                      | 54R00435     | ANTI-LOOP KIT FOR HD PP      |                                        | □                |        |                                     |
| 41                      | 900-0646     | SCREW                        |                                        |                  |        | Package of 10 pcs.                  |
| 42                      | 54T00833     | ANTIBALLOON BRUSH RING       |                                        |                  |        |                                     |
| 43, 48                  | 900-0579     | SCREW                        |                                        |                  |        | Package of 10 pcs.                  |



|                         |               |                                      |                                          |                                                                                    |
|-------------------------|---------------|--------------------------------------|------------------------------------------|------------------------------------------------------------------------------------|
| <b>ROJ</b> <sup>®</sup> | PAGE<br>2 (4) | Spare parts list for<br>HD X3 6724-X | REF. NO.<br>24-897N-<br>2101-<br>07/2521 |  |
|                         |               |                                      |                                          |                                                                                    |

| POS     | PART NO      | DESCRIPTION                  | Marked with □ if item is specified for |                  |        | REMARKS                                           |
|---------|--------------|------------------------------|----------------------------------------|------------------|--------|---------------------------------------------------|
|         |              |                              | FIXED RING                             | FUNNEL WITH CONE | FUNNEL |                                                   |
| 44      | 32P00082     | SENSOR RING                  |                                        |                  |        |                                                   |
| 45      | 09E00842     | SENSOR BOARD                 |                                        |                  |        |                                                   |
| 46      | 900-0652     | SCREW                        |                                        |                  |        | Package of 10 pcs.                                |
| 47      | 05R01401     | SENSOR BOARD CABLE           |                                        |                  |        |                                                   |
| 48, 43  | 900-0579     | SCREW                        |                                        |                  |        | Package of 10 pcs.                                |
| 49      | 24-0869      | COVER PISTON WITH O-RING KIT |                                        |                  |        | Incl. pos. 50                                     |
| 50      | 24-0869      | COVER PISTON WITH O-RING KIT |                                        |                  |        | Incl. pos. 49                                     |
| 51      | 27-0226      | NUT                          |                                        |                  |        |                                                   |
| 52      | 24-0860-002L | NOSE SUPPORT KIT             |                                        | □                | □      | Incl. pos. 51, 54-59                              |
| 53      | 24-0845-001L | BRUSH HOLDER COMPLETE        | □                                      |                  |        | Incl. pos. 49-51, 55-59, 119-123                  |
| 53      | 24-0845-002L | BRUSH HOLDER COMPLETE        |                                        | □                | □      | Incl. pos. 49-52, 54-59                           |
| 54      | 24-0860-001L | NOSE SUPPORT KIT             | □                                      |                  |        | Incl. pos. 51, 52, 55-59                          |
| 54      | 24-0860-002L | NOSE SUPPORT KIT             |                                        | □                | □      | Incl. pos. 51, 52, 55-59                          |
| 55, 112 | 900-9058     | CIRCLIP                      |                                        |                  |        | Package of 10 pcs.                                |
| 56      | 24-0860-001L | NOSE SUPPORT KIT             | □                                      |                  |        | Incl. pos. 51, 55, 57-59                          |
| 56      | 24-0860-002L | NOSE SUPPORT KIT             |                                        | □                | □      | Incl. pos. 51, 52, 54, 55, 57-59                  |
| 57      | 24-0860-001L | NOSE SUPPORT KIT             | □                                      |                  |        | Incl. pos. 51, 55, 56, 58, 59                     |
| 57      | 24-0860-002L | NOSE SUPPORT KIT             |                                        | □                | □      | Incl. pos. 51, 52, 54-56, 58, 59                  |
| 58      | 900-4002     | BALL                         |                                        |                  |        | Package of 10 pcs.                                |
| 59      | 24-0860-001L | NOSE SUPPORT KIT             | □                                      |                  |        | Incl. pos. 51, 55-58                              |
| 59      | 24-0860-002L | NOSE SUPPORT KIT             |                                        | □                | □      | Incl. pos. 51, 52, 54-58                          |
| 60      | 35E00313     | ANTI BALLON FUNNEL, REAR     |                                        | □                | □      |                                                   |
| 61      | 24-0871      | CONE WITH CERAMIC KIT        |                                        | □                | □      | Incl. pos. 63                                     |
| 62      | 900-0592     | SCREW                        |                                        | □                | □      | Package of 10 pcs.                                |
| 63      | 27-0479-001  | CERAMIC EYELET               |                                        | □                | □      | Std. Package of 10 pcs.                           |
| 63      | 27-0479-002  | CERAMIC EYELET               |                                        | □                | □      | Polished Package of 10 pcs.                       |
| 64      | 900-0529     | SCREW                        |                                        |                  |        | Package of 10 pcs.                                |
| 65      | 24-0858      | FASTENING AND BAR KIT        |                                        |                  |        | Incl. pos. 66, 67                                 |
| 66      | 24-0858      | FASTENING AND BAR KIT        |                                        |                  |        | Incl. pos. 65, 67                                 |
| 67      | 54M00065     | MOUNT COMPL.                 |                                        |                  |        |                                                   |
| 68      | 24-0806-001K | MOTOR COMPLETE               |                                        |                  |        | Standard Incl. pos. 4-16, 64-66, 69-77, 81, 82    |
| 68      | 24-0806-101K | MOTOR COMPLETE               |                                        |                  |        | Polished Incl. pos. 4-16, 64-66, 69-77, 81, 82    |
| 69      | 24-0899-003  | ROTOR CPL. SPARE PART KIT    |                                        |                  |        | Standard Incl. pos. 10, 11, 70-73, 76, 77, 81, 82 |
| 69      | 24-0899-004  | ROTOR CPL SPARE PART KIT     |                                        |                  |        | Polished Incl. pos. 10, 11, 70-73, 76, 77, 81, 82 |
| 70      | 900-9314     | KEY                          |                                        |                  |        | Package of 10 pcs.                                |
| 71      | 24-0778-001  | CERAMIC EYELET               |                                        |                  |        | Std. Package of 10 pcs.                           |
| 71      | 24-0778-002  | CERAMIC EYELET               |                                        |                  |        | Polished Package of 10 pcs.                       |
| 72      | 900-4067     | BALL BEARING                 |                                        |                  |        | Package of 10 pcs.                                |
| 73      | 900-9099     | CIRCLIP                      |                                        |                  |        | Package of 10 pcs.                                |
| 74      | 24-0025-002  | MAGNET RING COMPL.           |                                        |                  |        |                                                   |
| 75      | 900-0478     | SCREW                        |                                        |                  |        | Package of 10 pcs.                                |
| 76      | 24-0791      | SEAL WASHER                  |                                        |                  |        | Paper small                                       |
| 77      | 24-0792      | SEAL WASHER                  |                                        |                  |        | Brass                                             |
| 78      | 24-0783-101  | WINDING DISC COMPL. HD X3    |                                        |                  |        |                                                   |
| 78      | 24-0783-102  | WINDING DISC COMPL. HD X3    |                                        |                  |        | Polished eyelet                                   |
| 79      | 24-0896-005  | EYELET WINDING DISC KIT      |                                        |                  |        | Incl. pos. 80. Package of 10 set.                 |
| 79      | 24-0896-006  | EYELET WINDING DISC KIT      |                                        |                  |        | Polished Incl. pos. 80. Package of 10 set.        |
| 80      | 900-0623     | SCREW                        |                                        |                  |        | Package of 10 pcs.                                |
| 81      | 24-0794      | SEAL WASHER                  |                                        |                  |        | Plastic film                                      |
| 82      | 24-0791      | SEAL WASHER                  |                                        |                  |        | Paper small                                       |
| 83      | 900-0649     | SCREW                        |                                        |                  |        | Package of 10 pcs.                                |
| 84      | 24-0857      | RING FOR ROTARY LOCKING      |                                        |                  |        |                                                   |
| 85, 88  | 900-4065     | BALL BEARING                 |                                        |                  |        | Package of 10 pcs.                                |

|                         |               |                                      |                                          |                                                                                    |
|-------------------------|---------------|--------------------------------------|------------------------------------------|------------------------------------------------------------------------------------|
| <b>ROJ</b> <sup>®</sup> | PAGE<br>3 (4) | Spare parts list for<br>HD X3 6724-X | REF. NO.<br>24-897N-<br>2101-<br>07/2521 |  |
|-------------------------|---------------|--------------------------------------|------------------------------------------|------------------------------------------------------------------------------------|

| POS                     | PART NO     | DESCRIPTION                         | Marked with □ if item is specified for |                  |        | REMARKS                                                           |
|-------------------------|-------------|-------------------------------------|----------------------------------------|------------------|--------|-------------------------------------------------------------------|
|                         |             |                                     | FIXED RING                             | FUNNEL WITH CONE | FUNNEL |                                                                   |
| 86                      | 24-0287-004 | MAGNET RING COMPL.                  |                                        |                  |        | Incl. pos. 85, 87-90                                              |
| 87                      | 24-0058     | SPACER                              |                                        |                  |        |                                                                   |
| 88, 85                  | 900-4065    | BALL BEARING                        |                                        |                  |        | Package of 10 pcs.                                                |
| 89                      | 24-0573-003 | BELLOW INCL. RING                   |                                        |                  |        | Incl. pos. 90                                                     |
| 90                      | 24-0573-003 | BELLOW INCL. RING                   |                                        |                  |        | Incl. pos. 89                                                     |
| 91                      | 24-0725     | COUNTER WEIGHT ASSEMBLY KIT         |                                        |                  |        | Incl. pos. 92                                                     |
| 92                      | 24-0725     | COUNTER WEIGHT ASSEMBLY KIT         |                                        |                  |        | Incl. pos. 91                                                     |
| 93                      | 24-0724-002 | INCLINED HUB ASSEMBLY KIT           |                                        |                  |        | Std. Incl. pos. 100, 101                                          |
| 93                      | 24-0724-003 | INCLINED HUB ASSEMBLY KIT           |                                        |                  |        | XL. Incl. pos. 100, 101                                           |
| 93                      | 24-0724-005 | INCLINED HUB ASSEMBLY KIT           |                                        |                  |        | 2,2°. Incl. pos. 100, 101                                         |
| 94, 99                  | 900-4068    | BALL BEARING                        |                                        |                  |        | Package of 10 pcs.                                                |
| 95                      | 24-0141-004 | TUMBLE CYLINDER                     |                                        |                  |        | XL. Std for all PP and ROVING applications. Incl. pos. 94, 98, 99 |
| 95                      | 24-0141-005 | TUMBLE CYLINDER                     |                                        |                  |        | XL, Plasma. Incl. pos. 94, 98, 99                                 |
| 95                      | 24-0141-006 | TUMBLE CYLINDER                     |                                        |                  |        | XL, One-way bearing. Incl. pos. 94, 98, 99                        |
| 95                      | 24-0141-007 | TUMBLE CYLINDER                     |                                        |                  |        | XL, One-way bearing, Plasma. Incl. pos. 94, 98, 99                |
| 95                      | 24-0141-008 | TUMBLE CYLINDER                     |                                        |                  |        | XL, Sand blasted. Incl. pos. 94, 98, 99                           |
| 96                      | 24-0680     | FRONT BELLOWS HOLDER                |                                        |                  |        |                                                                   |
| 97, 16, 17, 19, 37, 121 | 900-0117    | SCREW                               |                                        |                  |        | Package of 10 pcs.                                                |
| 98                      | 24-0059     | SPACER                              |                                        |                  |        |                                                                   |
| 99, 94                  | 900-4068    | BALL BEARING                        |                                        |                  |        | Package of 10 pcs.                                                |
| 100                     | 24-0724-002 | INCLINED HUB ASSEMBLY KIT           |                                        |                  |        | Incl. pos. 93, 101                                                |
| 100                     | 24-0724-003 | INCLINED HUB ASSEMBLY KIT           |                                        |                  |        | Incl. pos. 93, 101                                                |
| 100                     | 24-0724-005 | INCLINED HUB ASSEMBLY KIT           |                                        |                  |        | Incl. pos. 93, 101                                                |
| 101                     | 24-0724-002 | INCLINED HUB ASSEMBLY KIT           |                                        |                  |        | Incl. pos. 93, 100                                                |
| 101                     | 24-0724-003 | INCLINED HUB ASSEMBLY KIT           |                                        |                  |        | Incl. pos. 93, 100                                                |
| 101                     | 24-0724-005 | INCLINED HUB ASSEMBLY KIT           |                                        |                  |        | Incl. pos. 93, 100                                                |
| 102                     | 900-0585    | SCREW                               |                                        |                  |        | Package of 10 pcs.                                                |
| 103                     | 24-0174     | TREADING NEEDLE                     |                                        |                  |        |                                                                   |
| 104                     | 24-0242     | BELLOWS                             |                                        |                  |        |                                                                   |
| 105                     | 900-0237    | SCREW                               |                                        |                  |        | Package of 10 pcs.                                                |
| 106                     | 24-0530     | SENSOR FINGER COMPL                 |                                        |                  |        |                                                                   |
| 107                     | 24-0438-001 | SPOOL BODY HD                       |                                        |                  |        | Standard for all PP applications                                  |
| 107                     | 24-0438-003 | SPOOL BODY HD                       |                                        |                  |        | Glass Roving                                                      |
| 107                     | 24-0438-015 | SPOOL BODY HD                       |                                        |                  |        | Modified to fix the cone                                          |
| 107                     | 24-0320-003 | SPOOL BODY HD                       |                                        |                  |        | Plasma. Heavy JUTE application                                    |
| 108                     | 24-0695     | RELAXATION RAMP                     |                                        |                  |        |                                                                   |
| 109                     | 900-0120    | SCREW                               |                                        |                  |        | Package of 10 pcs.                                                |
| 110                     | 24-0530     | SENSOR FINGER COMPL                 | □                                      | □                |        |                                                                   |
| 110                     | 24-0530-001 | SENSOR FINGER COMPL                 |                                        |                  | □      | Only PP, single insertion application                             |
| 111                     | 27-0160     | CONE                                |                                        |                  |        |                                                                   |
| 112, 55                 | 900-9058    | CIRCLIP                             |                                        |                  |        | Package of 10 pcs.                                                |
| 113                     | 24-0723     | S/Z BUTTON ASSEMBLY KIT             |                                        |                  |        | Incl. pos. 112, 114                                               |
| 114                     | 24-0723     | S/Z BUTTON ASSEMBLY KIT             |                                        |                  |        | Incl. pos. 112, 113                                               |
| 115                     | 24-0722     | WASHER PACKAGE AND SCREW            |                                        |                  |        | Incl. pos. 116                                                    |
| 116                     | 24-0722     | WASHER PACKAGE AND SCREW            |                                        |                  |        | Incl. pos. 115                                                    |
| 117                     | 54T00801    | BRUSH RING 135 mm Medium Z-rotation | □                                      |                  |        | Synthetic                                                         |
| 117                     | 54T00802    | BRUSH RING 135 mm Medium S-rotation | □                                      |                  |        | Synthetic                                                         |
| 117                     | 54T00803    | BRUSH RING 135 mm Stiff Z-rotation  | □                                      |                  |        | Synthetic                                                         |
| 117                     | 54T00804    | BRUSH RING 135 mm Stiff S-rotation  | □                                      |                  |        | Synthetic                                                         |
| 118                     | 24-0252-102 | E-FLEX BRAKE 135 mm Medium          | □                                      |                  |        | 30 °                                                              |
| 118                     | 24-0281-003 | E-FLEX BRAKE 135 mm Stiff           | □                                      |                  |        | 30 °                                                              |
| 118                     | 24-0281-103 | E-FLEX BRAKE 135 mm X-stiff         | □                                      |                  |        | 30 °                                                              |

|                         |               |                                      |                                          |                                                                                    |
|-------------------------|---------------|--------------------------------------|------------------------------------------|------------------------------------------------------------------------------------|
| <b>ROJ</b> <sup>®</sup> | PAGE<br>4 (4) | Spare parts list for<br>HD X3 6724-X | REF. NO.<br>24-897N-<br>2101-<br>07/2521 |  |
|                         |               |                                      |                                          |                                                                                    |

| POS                        | PART NO       | DESCRIPTION           | Marked with □ if item is specified for |                     |        | REMARKS                      |
|----------------------------|---------------|-----------------------|----------------------------------------|---------------------|--------|------------------------------|
|                            |               |                       | FIXED<br>RING                          | FUNNEL<br>WITH CONE | FUNNEL |                              |
| 119                        | 900-0495      | SCREW                 | □                                      |                     |        | Package of 10 pcs.           |
| 120                        | 24-0859-001L  | NOSE WITH CERAMIC KIT | □                                      |                     |        | Incl. pos. 121-123           |
| 120                        | 24-0859-002L  | NOSE WITH CERAMIC KIT | □                                      |                     |        | Polished                     |
| 121, 16, 17,<br>19, 37, 97 | 900-0117      | SCREW                 | □                                      |                     |        | Package of 10 pcs.           |
| 122                        | 24-0822-001-R | CERAMIC EYELET        | □                                      |                     |        | Package of 10 pcs.           |
| 122                        | 24-0822-002-R | CERAMIC EYELET        | □                                      |                     |        | Polished. Package of 10 pcs. |
| 123                        | 900-0603      | SCREW                 | □                                      |                     |        | Package of 10 pcs.           |