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## High-Speed PVC Fabric Doors of SPEEDROLL series with DOORHAN, GFA, BMP drives



Installation and Operation Manual

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## **DoorH**AN<sup>®</sup>

## **1. GENERAL INFORMATION**

The information contained in this manual will familiarize you with construction, operation and maintenance of high-speed PVC fabric door (further — the product). The manufacturer does not directly control installation, operation and maintenance of the product. The operator shall be held responsible for safe operation and maintenance of the product. It shall be the responsibility

## **2. SAFETY RULES**

## **A** ATTENTION!

Only trained personnel should operate or service this equipment! Carefully follow the instructions provided in this manual when performing installation or operation of the doors.

this manual.

without prior notice.

- Always maintain proper lighting in the work area.
- Keep the work area clean of people and objects during installation and operation of the doors.
- Install control unit at such a place that operator be able

## **3. MODIFICATIONS**

 SpeedRoll doors with DoorHan drive are compatible with control units of HSDC 181900, HSDC 18191, HSDC 18192, HSDC 18193, HSDC 18191(N) series. HSDC 18191(N) control unit is used with doors opened in emergency with counterbalance mechanizm.

## **4. CONSTRUCTION**

to clearly see the door when operating it. The control unit shall always be kept closed.

of the operator to comply with the instructions listed in

We recommend that installation, operation and

The manufacturer reserves the right to modify the product

maintenance be performed by a qualified technician.

- Turn OFF electrical power before making any electrical connections.
- SpeedRoll doors with GFA drive are compatible with control units of TS 970 series (2 types).
- SpeedRoll doors with BMP drive are compatible with control units of HSD 1800, HSD 18001 series.



**CONSTRUCTION** 



### Fig. 3. Optional (counterbalance)



- 1. Shaft box
- 2. Shaft
- 3. Electric drive
- 4. Door curtain
- 5. Control unit
- 6. Door curtain guide
- 7. Vertical track
- 8. Transparent insert (window)
- 9. Photocells
- 10. Bottom bar assembly
- 11. Counterbalance

## **DoorHan**\*

## 4.1. SPECIFICATIONS

### Table 1. Technical data

| Parameters                 | SpeedRoll SDI  | SpeedRoll SDO   | SpeedRoll SDC   | SpeedRoll SDF  |  |
|----------------------------|--|---|---|--|--|
| Application                | interior   | exterior  | freezers  | food industry  |  |
| Maximum size, $W \times H$ | 5,700 × 5,800 mm   |   | 3,500 × 4,000 mm  | 3,800 × 4,000 mm   |  |
| Wind load                  | for door width<br>• up to 3,500 mm — CL/<br>• up to 4,500 mm — CL/   | ASS3 (120 km/h)<br>ASS2 (90 km/h)   | for door width<br>• up to 3,500 mm —<br>CLASS2 (120 km/h) | for door width<br>• up to 3,800 mm —<br>CLASS1 (120 km/h)                        |  |
| Opening speed              | for door width<br>• up to 3,000 mm — 2.0 m/s<br>• up to 5,000 mm — 1.8 m/s   |   | for door width<br>• up to 3,000 mm —<br>1.0 m/s           | for door width<br>• up to 3,000 mm —<br>2.0 m/s<br>• up to 4,000 mm —<br>1.8 m/s |  |
| Closing speed              | 0.8 m/s  |   |   |  |  |
| Operating temperature      | <ul> <li>from -5 to +70 °C — di</li> <li>from -15 to +70 °C — di</li> <li>from -35 to +70 °C — di</li> </ul>   | rive installed outside the p<br>drive installed inside the p<br>with heating system | remise<br>remise  |  |  |
| Control unit               | <ul> <li>DoorHan drive HSDC18</li> <li>GFA drive: 155 × 386 ×</li> <li>BMP drive: 300 × 400 ×</li> </ul>   | 319** — 462 × 230 × 165<br>90 mm (plastic)<br>× 150 mm (painted steel)              | i mm (painted steel / stainl                              | ess steel AISI304-option)  |  |
| Drive                      | <ul> <li>supply voltage — 220 V/50 Hz, single phase; 380 V/50 Hz, three phase</li> <li>power — 1.5–2.2 kW</li> <li>protection class — IP65</li> <li>end positions are monitored by an encoder</li> </ul>   |   |   |  |  |
| Safety devices             | <ul> <li>the doors comply with EN 13241 CE directive</li> <li>photocells are installed at 500 mm from the floor level</li> <li>it's possible to install a second pair of photocells at the top of vertical tracks to detect incorrect unwinding of the curtain</li> <li>if the sensitive lower edge touches an obstruction when the door is closing, then a signal is transmitted to the control unit to open the door (option)</li> <li>in case of power outage the door opens 2 000 mm automaticaly with a counterweight (option)</li> </ul> |   |   |  |  |
| Durability                 | 1,500,000 cycles   |   |   |  |  |

\* Wind speed is given for a closed door

\*\* HSDC 181900, HSDC 18191, HSDC 18192, HSDC 18193, HSDC 18191(N)

## 4.2. COMPONENTS SET

- 1. Upper door part 1 pc
- 2. Left track 1 pc
- 3. Right track 1 pc
- 4. Control unit 1 pc
- 5. Connection cables
- 6. Technical data 1 pc
- 7. Installation and operation manual for high-speed door 1 pc
- 8. Installation and operation manual for control unit 1 pc

## **5. INSTALLATION**

## 5.1. UNLOADING AND RECEIVING THE PRODUCT

Unload the product using a forklift or a crane. Make sure the components delivered correspond to the list provided in Components Set section of the manual.

## **5.2. GENERAL RULES**

Make sure you observe all applicable safety regulations during installation of the product. We recommend that installation of the product be performed by DoorHan service department or DoorHan dealer.

Check whether door dimensions correspond to opening

width, height, and diagonal before proceeding to installation.

## 5.3. LOADING EQUIPMENT

- Forklift: minimum load capacity 35 kN; fork length — not less than 2,000 mm.
- Crane, minimum lifting capacity 20 kN.

## 5.4. TOOLS

- Tape measure
- Water level
- Set of screwdrivers
- Set of wrenches (17, 13, 10 and 8 mm)
- Hexagon set (17, 13, 10 and 8 mm)

### Fig. 1. Side drive

- Hammer
- Rotary hammer
- Electric drill
- Stone and metal bits for rotary hammer
- Multimeter
- Scissors
- Wire cutters
- Pliers
- Stepladder

## **5.5. OPENING DIMENSIONS**

- W opening width.
- H opening height.



### Fig. 2. Front drive



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### Fig. 3. Side drive, counterbalance



### Fig. 4. Front drive, counterbalance



## 5.6. DOOR FRAME INSTALLATION

It is important to prepare fasteners appropriate to the type of wall before starting with the installation. Make sure the lifting equipment is able to raise the door frame to the necessary height before starting to lift it.

### ▲ ATTENTION!

Maximum dimensions of the door assembled on a horiszontal surface and lifted with a forklift should not exceed 3,500 (W)  $\times$  3,500 (H) mm.

If door dimensions exceed the listed above figures install vertical tracks at first, than lift the door upper part, and fix it to the vertical tracks and wall.

### 5.6.1. DOOR DIMENSIONS LESS THAN 3,500 $\times$ 3,500 MM

- 1. Place all door frame parts on a horizontal surface.
- 2. Dismantle tracks casing, shaft box and drive casing.
- 3. Fasten vertical tracks to shaft box with angles and screws.
- 4. Carefully raise assembled frame with a forklift and move it to the door opening.
- 5. Level all parts of the door frame with water level (put a pad under a track if necessary).
- 6. Temporarily attach the frame (vertical tracks, shaft box) to the wall with fasteners.
- 7. Fix the shaft box and drive casing.









**INSTALLATION** 



![](_page_8_Picture_2.jpeg)

![](_page_8_Figure_3.jpeg)

![](_page_8_Figure_4.jpeg)

![](_page_8_Figure_5.jpeg)

![](_page_9_Picture_2.jpeg)

Fig. 7

![](_page_9_Picture_4.jpeg)

![](_page_10_Picture_1.jpeg)

Fig. 8A

![](_page_10_Picture_3.jpeg)

![](_page_11_Picture_2.jpeg)

![](_page_11_Picture_3.jpeg)

![](_page_11_Picture_4.jpeg)

## 5.6.2. DOOR DIMENSIONS MORE THAN 3,500 $\times$ 3,500 MM

- 1. Place all door frame parts on a horizontal surface.
- 2. Dismantle tracks casing, shaft box and drive casing.
- 3. Level vertical tracks with water level (put a pad under a track if necesssary) and temporarily fix them to the wall with fasteners.
- 4. Carefully raise the door upper part with a forklift and place it on vertical tracks.
- 5. Fasten vertical tracks to shaft box with angles and screws.
- 6. Attach door upper part to the wall with fasteners.
- $7. \quad \mbox{Fix the shaft box and drive casing.}$

![](_page_12_Figure_9.jpeg)

![](_page_12_Figure_10.jpeg)

![](_page_13_Picture_1.jpeg)

![](_page_13_Figure_2.jpeg)

![](_page_14_Picture_1.jpeg)

![](_page_14_Picture_2.jpeg)

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# 

![](_page_15_Picture_2.jpeg)

Fig. 7A

![](_page_15_Picture_4.jpeg)

![](_page_16_Picture_1.jpeg)

![](_page_16_Picture_2.jpeg)

![](_page_16_Figure_3.jpeg)

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![](_page_17_Picture_2.jpeg)

Fig. 10

![](_page_17_Picture_4.jpeg)

![](_page_17_Picture_5.jpeg)

## 5.7. HOW TO INSERT DOOR CURTAIN INTO VERTICAL TRACKS

![](_page_18_Picture_2.jpeg)

![](_page_18_Picture_3.jpeg)

Left vertical track

Bend the plastic curtain guide to the right (in the upper part). Slide the curtain into the guide about 50 mm.

![](_page_18_Picture_6.jpeg)

Right vertical track Connect the cranck with motor shaft. Rotate the cranck and lower the curtain till it slides into the guide about 50 mm.

## **5.8. ADJUSTMENT OF CURTAIN TENSION**

- 1. Moving the tracks along adjustment holes, adjust curtain tension so that the gap between the track and the guide is 5 mm.
- 2. Once adjustment of curtain tension is completed check whether the curtain is properly tensioned, fasten the vetical tracks firmly through all mounting holes, and install tracks casing.

![](_page_19_Figure_4.jpeg)

Once curtain is inserted into the door guides adjust door limit positions (see Installation and Operation Manual for Control Unit).

## **5.9. MANUAL CLOSING/OPENING**

Door drive has a special cranck used for emergency opening/closing of the door in case of power outage. Rotate the cranck clockwise to open the door, and counterclockwise to close it.

## **6. MAINTENANCE**

- 1. Before door service and maintenance technician should:
- barricade the door and its working area from any form of traffic.
- turn OFF power supply.
- 2. Maintenance and troubleshooting should only be performed by trained technicians.
- 3. Read these instructions thoroughly before service and maintenance of the door.
- 4. Never use open fire or heat source that may cause fire when performing maintenance.
- 5. Never use solvents of any kind.
- 6. No personel should be in the immediate vicinity of the serviced door unless maintenance technician needs help.

Service interval depends on operating conditions but it's necessary to carry out standard maintenance procedures every six months.

| Service item                     | Procedure  | Interval   |
|----------------------------------|--|--|
| General condition of<br>the door | <ul> <li>Visually inspect:</li> <li>door curtain (clean door curtain with water and soap)</li> <li>vertical tracks</li> <li>if necessary, clean the structure with compressed air</li> </ul> | every six months<br>(more often if<br>necessary) |

### Table 1. Service and maintenance highlights

## Table 1. Service and maintenance highlights (continued)

| Service item             | Procedure   | Interval   |
|--------------------------|---|--|
| Electrical<br>components | <ul> <li>inspect wiring conduit and cables in control unit</li> <li>inspect wiring conduit and cables inside junction box</li> <li>inspect safety sensors (photocells, sensing edge and emergency stop button)</li> <li>verify the opening/closing system functions properly (buttons and other optional devices, if present)</li> <li>verify that electric cables are in good working condition</li> <li>clean photocells at least once a month or more often if necessary</li> </ul>  | every six months<br>(more often if<br>necessary) |
| Mechanical<br>components | <ul> <li>inspect motor</li> <li>inspect motor brakes and perform their adjustment if necessary</li> <li>inspect reducer chain for wear and tension (front drive)</li> <li>inspect reducer for oil leakage; inspect mounting of the reducer to motor and to the unit for tightness</li> <li>inspect limit switch for: wear of toothed belt, wear and mounting tightness of pulley, correct functioning of arms and microswitches</li> <li>check all screws and bolts for tightness</li> <li>check the axial alignment of the counterweight belt coil (door with counterbalance)</li> <li>inspect bearings, lubricate if necessary</li> <li>check traks sealing for signs of wear</li> <li>check curtain guides alignment (can be cleaned with compressed air)</li> </ul> | every six months<br>(more often if<br>necessary) |
| Door curtain             | <ul> <li>inpsect door curtain for signs of wear</li> <li>check curtain for damage</li> <li>verify that door curtain rolls up properly</li> <li>adjust door curtain tension; check door mounting assembly for signs of wear and tear</li> <li>regularly clean the door curtain with soft wet cloth and mild detergent approved for acrylic fabric</li> </ul>   | every six months<br>(more often if<br>necessary) |

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## **APPENDICES**

## APPENDIX 1. DOOR UPPER PART (SIDE DRIVE, WITHOUT COUNTERBALANCE)

![](_page_21_Figure_3.jpeg)

Fig. 1. Exploded view

![](_page_22_Picture_0.jpeg)

### Table 1. Parts list

| #            | Name   |   | Condition   | Part number    | Qty | Note                                 |
|--------------|--|---|---|----------------|-----|--------------------------------------|
| 1            | Hex bolt: D = M10<br>non-galvanized                      | ), L = 30 mm,                           |   | DHM0177        | 8   | for bearing support                  |
| 2            | Round head bolt  | (M8 × 16)                               |   | 14016          | 6   | fastening of shaft box<br>back cover |
|              | Shaft assembly: [<br>drive)                              | ) = 90 mm (side                         | $H \le 3,800, W \le 3,000$  | HSD112/M       |     |                                      |
| 3            | Shaft assembly: [<br>drive)                              | ) = 127 mm (side                        | $\begin{array}{l} 4,500 < W \leq 5,000, \\ H \leq 3,800 \text{ or } W \leq 5,000, \\ H > 3,800 \end{array}$ | HSD1114/M      | 1   | total length = 115 + W<br>+ 285      |
| 4            | Screw: D = M8, L<br>socket cylinder he<br>non-galvanized | = 14 mm, hex<br>ead,                    |   | DHM0659        | 2   | for encoder fastening                |
| 5            | Nut: D = M10, sel<br>galvanized                          | f-locking,                              |   | 153-17         | 8   | for bearing support                  |
| 6            | Flange nut (M8)  |   |   | 14015          | 6   | fastening of shaft box<br>back cover |
|              | JM motor   | R15 reducer,<br>part number<br>HSDC R15 | with heating W $\leq$ 4,000, H $\leq$ 3,800   |                | 1   |                                      |
| 7            | (1.5 KW) with heating                                    | R30 reducer,<br>part number<br>HSDC R30 | with heating W $\leq$ 4,000,<br>H > 3,800, or W > 4,000   | - HSDC 18186   |     |                                      |
|              | JM motor with<br>R15 reducer                             |   | $W \le 4,000, H \le 3,800$  | HSDC 18180     |     |                                      |
|              | JM motor with<br>R30 reducer                             |   | $W \le 4,000, H > 3,800 \text{ or}$<br>W > 4,000  | HSDC18181      |     |                                      |
|              | Shaft box 250, L   | = 3,250 mm                              | $W \le 3,000, H \le 3,800$  | HSD 1400/250   |     |                                      |
|              | Shaft box 250, L   | = 3,750 mm                              | $3,000 < W \le 3,500$ and $H \le 3,800$   | HSD 1401/250   |     |                                      |
|              | Shaft box 250, L   | = 4,250 mm                              | $3,500 < W \le 4,000$ and $H \le 3,800$   | HSD 1402/250   |     |                                      |
|              | Shaft box 250, L   | = 4,250 mm                              | W $\leq$ 3,000 and H > 3,800  | HSD 1400/350   |     |                                      |
| 8            | Shaft box 350, L   | = 3,750 mm                              | $3,000 < W \le 3,500$ and $H > 3,800$   | HSD 1401/350   | 1   | L = W + 250                          |
|              | Shaft box 350, L   | = 4,250 mm                              | $3,500 < W \le 4,000$ and $H > 3,800$   | HSD 1402/350   |     |                                      |
|              | Shaft box 350, L   | = 5,250 mm                              | 4,000 < W < = 4,500<br>and H > 3,800 or<br>$4,500 < W \le 5,000$  | HSD 1403/350   |     |                                      |
|              | Shaft box 350, L   | = 6,250 mm                              | $5,000 < W \le 6,000$   | HSD 1404/350   |     |                                      |
| Shaft box 35 | Shaft box 350, L   | = 7,250 mm                              | 6,000 < W   | HSD 1404-1/350 |     |                                      |

| #  | Name   | Condition   | Part number  | Qty | Note  |
|----|--|---|--------------|-----|---|
|    | Shaft box, back cover 250,<br>L = 3,250 mm                       | $W \leq 3{,}000$ and $H \leq 3{,}800$   | HSD 1500/250 |     |   |
|    | Shaft box, back cover 250,<br>L = 3,750 mm                       | $3,000 < W \le 3,500$ and $H \le 3,800$   | HSD 1501/250 |     |   |
|    | Shaft box, back cover 250,<br>L = 4,250 mm                       | $3,500 < W \le 4,000$ and $H \le 3,800$   | HSD 1502/250 | -   |   |
|    | Shaft box, back cover 350,<br>L = 3,250 mm                       | $W \leq 3,000$ and $H > 3,800$  | HSD 1500/350 | -   |   |
| 9  | Shaft box, back cover 350,<br>L = 3,750 mm                       | $3,000 < W \le 3,500$ and $H > 3,800$   | HSD 1501/350 | 1   | L = W + 250                                 |
|    | Shaft box, back cover 350,<br>L = 4,250 mm                       | $3,500 < W \le 4,000$ and $H > 3,800$   | HSD 1502/350 |     |   |
|    | Shaft box, back cover 350,<br>L = 5,250 mm                       | $\begin{array}{l} 4,000 < W \leq 4,500 \\ and \ H > 3,800; \\ 4,500 < W \leq 5,000 \end{array}$ | HSD 1503/350 |     |   |
|    | Shaft box, back cover 350,<br>L = 6,250 mm                       | 5,000 < W ≤ 6,000   | HSD 1504/350 | -   |   |
|    | Shaft box, back cover 350,<br>L = 7,250 mm                       | 6,000 < W   | HSD 1505/350 |     |   |
| 10 | Motor housing $360 \times 580 \text{ mm}$                        |   | HSD 1830-2   | 1   | side drive                                  |
|    | End plate 250  | $W \leq 4{,}500$ and $H \leq 3{,}800$   | HSD 1405     |     | side drive                                  |
| 11 | End plate 350  | $W \leq 4,500$ and $H > 3,800$ or $W > 4,500$   | HSD 1406     | 2   |   |
| 12 | Drive casing front cover $360 \times 580 \text{ mm}$             |   | HSD 1836-2   | 1   |   |
|    | Drive casing back cover $360 \times 580$ mm, left                | drive to the left   | HSD 1838-2 L |     |   |
| 10 | Drive casing back cover $360 \times 580$ mm, right               | drive to the right  | HSD 1838-2R  | 4   |   |
| 15 | Left back cover 250 of Joytech drive casing                      | drive to the left   | HSD 1837-2L  |     |   |
|    | Right back cover 250 of Joytech drive casing                     | drive to the right  | HSD 1837-2R  |     |   |
| 14 | Bearing support assembly   |   | HSD 2100     | 2   |   |
| 15 | Curtain assembly   |   |              | 1   | for parts list refer to Table 1, Appendix 2 |
| 16 | Self-tapping screw for metal $4,2 \times 16$                     |   | DHM0504      | 16  |   |
| 17 | Self-tapping screw for metal $6,3 \times 25$ mm, for door panels |   | 14019        | 7   | for front box                               |
| 18 | Key $7 \times 8 \times 80$                                       |   | HSD 2120     | 1   | for "without<br>counterbalance"             |
| 19 | Tofi encoder   |   | HSDC 18190   | 1   |   |

## APPENDIX 2. SPEEDROLL HIGH-SPEED DOOR (SIDE DRIVE)

![](_page_24_Picture_2.jpeg)

## **APPENDICES**

Table 1. Parts list

| #  | Name  |   | Condition   | Part number    | Qty | Note                                     |
|----|---|---|---|----------------|-----|--|
| 1  | Door upper part   |   |   |                | 1   |  |
| 2  | Left track assemb   | ly                                      |   |                | 1   |  |
| 3  | Right track assem   | bly                                     |   |                | 1   |  |
| 4  | Cranck for Joytech drive<br>L = 1,500 mm                                  |   | H ≤ 3,500   | 147-1983       | 4   |  |
| 4  | Cranck for Joytec<br>L = 3,000 mm   | h drive                                 | H > 3,500   | 147-1984       | 1   |  |
| 5  | Round head bolt (   | M8 × 16)                                |   | 14016          | 6   | for tracks fastening to door upper part  |
| 6  | Flange nut (M8)   |   |   | 14015          | 6   | for tracks fastening to door upper part  |
| 7  | Installation and or<br>for high-speed do                                  | oeration manual<br>or                   |   | IN055          | 1   |  |
| 8  | Technical data for  | high-speed door                         |   | PSP25          | 1   |  |
|    |   |   | Door upper pa   | rt             |     |  |
| 9  | Hex bolt: D = M10<br>non-galvanized                                       | ), L = 30 mm,                           |   | DHM0177        | 8   | for bearing support                      |
| 10 | Round head bolt (   | M8 × 16)                                |   | 14016          | 6   | for fastening of shaft<br>box back cover |
|    | Shaft assembly, D<br>drive)   | ) = 90 mm (side                         | $H \leq$ 3,800 and $W \leq$ 3,000   | HSD112/M       |     | total longth - 115 , W                   |
| 11 | Shaft assembly, D = 127 mm (side drive)                                   |   | $4{,}500 < W \leq 5{,}000$ and $H \leq 3{,}800$ or $W \leq 5{,}000$ and $H > 3{,}800$ | HSD1114/M      | 1   | + 285                                    |
| 12 | Screw: D = M8, L = 14 mm,<br>hex socket cylinder head, non-<br>galvanized |   |   | DHM0659        | 2   | for encoder fastening                    |
| 13 | Nut: D = M10, self<br>galvanized  | f-locking,                              |   | 153-17         | 8   | for bearing support                      |
| 14 | Flange nut (M8)   |   |   | 14015          | 6   | for fastening of shaft<br>box back cover |
|    | JM motor (1.5<br>kW) with heating   | R15 reducer,<br>part number<br>HSDC R15 | with heating W <= 4,000<br>and H <= 3,800   | HSDC 18186     | 1   |  |
| 15 |   | R30 reducer,<br>part number<br>HSDC R30 | with heating W <= 4,000<br>and H > 3,800 or W > 4,000                                 |                |     |  |
|    | JM motor with R1  | 5 reducer                               | W <= 4,000 and H <= 3,800   | HSDC 18180     |     |  |
|    | JM motor with R3  | 0 reducer                               | W <= 4,000 and H > 3,800<br>or W > 4,000  | HSDC18181      | 1   |  |
|    | Shaft box 250 L =   | 3,250 mm                                | W <= 3,000 and H <= 3,800   | HSD 1400/250   |     |  |
|    | Shaft box 250 L =   | 3,750 mm                                | 3,000 < W <= 3,500 and<br>H <= 3,800  | HSD 1401/250   |     |  |
|    | Shaft box 250 L =   | 4,250 mm                                | 3,500 < W <= 4,000 and<br>H <= 3,800  | HSD 1402/250   |     |  |
|    | Shaft box 350 L =   | 3,250 mm                                | W <= 3,000 and H > 3,800  | HSD 1400/350   |     |  |
| 16 | Shaft box 350 L =   | 3,750 mm                                | 3,000 < W <= 3,500 and<br>H > 3,800   | HSD 1401/350   | 1   | L = W + 250                              |
|    | Shaft box 350 L =   | 4,250 mm                                | 3,500 < W <= 4,000 and<br>H > 3,800   | HSD 1402/350   |     |  |
|    | Shaft box 350 L =   | 5,250 mm                                | 3,500 < W <= 4,000 and<br>H > 3,800   | HSD 1403/350   |     |  |
|    | Shaft box 350 L =   | 6,250 mm                                | 5,000 < W <= 6,000  | HSD 1404/350   |     |  |
|    | Shaft box 350 L =   | 7,250 mm                                | 6,000 < W   | HSD 1404-1/350 |     |  |

![](_page_26_Picture_0.jpeg)

| #  | Name   | Condition   | Part number  | Qty   | Note   |
|----|--|---|--------------|-------|--|
|    | Shaft box, back cover 250<br>L = 3,250 mm                        | W <= 3,000 and H <= 3,800                                 | HSD 1500/250 |       |  |
|    | Shaft box, back cover 250<br>L = 3,750 mm                        | 3,000 < W <= 3,500 and<br>H <= 3,800                      | HSD 1501/250 |       |  |
|    | Shaft box, back cover 250<br>L = 4,250 mm                        | 3,500 < W <= 4,000 and<br>H <= 3,800                      | HSD 1502/250 |       |  |
|    | Shaft box, back cover 350<br>L = 3,250 mm                        | W <= 3,000 and H > 3,800                                  | HSD 1500/350 |       |  |
| 17 | Shaft box, back cover 350<br>L = 3,750 mm                        | 3,000 < W <= 3,500 and<br>H > 3800                        | HSD 1501/350 | 1     | L = W + 250  |
|    | Shaft box, back cover 350<br>L = 4,250 mm                        | 3,500 < W <= 4,000 and<br>H > 3,800                       | HSD 1502/350 |       |  |
|    | Shaft box, back cover 350<br>L = 5,250 mm                        | 4,000 < W <= 4500<br>and H > 3,800;<br>4,500 < W <= 5,000 | HSD 1503/350 |       |  |
|    | Shaft box, back cover 350<br>L = 6,250 mm                        | 5,000 < W <= 6,000  | HSD 1504/350 |       |  |
|    | Shaft box, back cover 350<br>L = 7,250 mm                        | 6,000 < W   | HSD 1505/350 |       |  |
| 18 | Motor housing $360 \times 580 \text{ mm}$                        |   | HSD 1830-2   | 1     | side drive   |
|    | End plate 250  | W <= 4,500 and H <= 3,800                                 | HSD 1405     |       |  |
| 19 | End plate 350  | W <= 4,500 and H > 3,800<br>or W > 4,500                  | HSD 1406     | 2     | side drive   |
| 20 | Drive casing front cover $360 \times 580 \text{ mm}$             |   | HSD 1836-2   | 1     |  |
|    | Drive casing back cover $360 \times 580$ mm, left                |   | HSD 1838-2L  |       | side drive   |
| 21 | Drive casing back cover $360 \times 580$ mm, right               | drive to the left   | HSD 1838-2R  | - 1   |  |
| 21 | Left back cover 250 of Joytech drive casing                      |   | HSD 1837-2L  |       |  |
|    | Right back cover 250 of Joytech drive casing                     |   | HSD 1837-2R  |       |  |
| 22 | Bearing support assembly   |   | HSD 2100     | 2     |  |
| 23 | Self-tapping screw for metal $4,2 \times 16$                     |   | DHM0504      | 16    |  |
| 24 | Self-tapping screw for metal $6,3 \times 25$ mm, for door panels |   | 14019        | 7     | for front drive casing   |
| 25 | Key $7 \times 8 \times 80$                                       |   | HSD 2120     | 1     | for drive, without counterbalance  |
| 26 | Tofi encoder   |   | HSDC 18190   | 1     |  |
|    |  | Door curtain  | 1            |       |  |
| 27 | Velcro closure with PVC base                                     |   | SHVX008      | 1     | for receiver fixation<br>in door pocket and<br>for locking of bottom<br>pocket sides |
| 28 | COSMOFEN CA 12 glue  |   | CA 12        | 0.007 |  |
| 29 | Set of plugs for safety edge assembly                            |   | SET_BAND     | 1     | safety edge —<br>optional  |
| 00 | Toothed edge   |   | HSD 1901K    | 0     | L = H + 200  |
| 30 | Toothed edge with reinforcement                                  |   | HSD 19010    | 2     | optional for freezers  |
| 31 | DoorHan logo for high-speed door $280 \times 45 \text{ mm}$      |   | RP 77N       | 2     |  |
| 32 | DoorHan sticker for high-speed door                              |   | RP 77        | 1     |  |

| #   | Name  | Condition           | Part number    | Qty             | Note  |
|-----|---|---------------------|----------------|-----------------|---|
|     | PVC reinforcement (band), double,<br>RAL9010 pure white | W . 0 100           | HSD 1902/9010N | 0               |   |
|     | PVC reinforcement (band),<br>RAL1003 signal yellow      | VV <= 2,100         | HSD 1902/1003  | 2               |   |
| 33  | PVC reinforcement (band),<br>RAL6026 opal green         | 2 100 × W/ <= 4 250 | HSD 1902/6026  | 2               | L = H + 700   |
|     | PVC reinforcement (band),<br>RAL3002 carmine red        | 2,100 < W <= 4,250  | HSD 1902/3002  | 3               |   |
|     | PVC reinforcement (band),<br>RAL2004 pure orange        | 4,250 < W < 6,000   | HSD 1902/2004  | 4               |   |
| 34  | Black PVC-fabric, width — 730 mm                        |                     | SHVH004        | 730*(W-20)      | curtain bottom part, cutting: (W - 20) $\times$ 400                     |
| 35  | Black PVC-fabric, width — 730 mm                        |                     | SHVH004        | 730*(W-100)     | sand pocket<br>holder, cutting:<br>(W - 100) × 100                      |
|     | Black PVC-fabric, width — 730 mm                        |                     |                | 730*(W-100)     | sand pocket<br>(W - 100) × 230  |
| 36  | Black PVC-fabric, width — 730 mm                        |                     | SHVH004        | 730*(W-20)      | safety edge, optional;<br>sand pocket<br>(W - 300) × 260                |
| 37  | Black PVC-fabric, width — 730 mm                        |                     | SHVH004        | 730*(W-100)     | safety edge, optional; safety edge pocket, cutting (W-100) $\times$ 150 |
| 38  | Quarry sand   |                     | RMC241         | 0.002*(W-100)   |   |
| 39  | Transmitter of safety edge signal                       |                     | TR_BAND        | 1               | safety edge, optional   |
| 40  | Receiver of safety edge signal                          |                     | REC_BAND       | 1               | safety edge, optional   |
| 41  | Rubber safety edge                                      |                     | BAND1          | L=(W-100)       | safety edge, optional   |
|     | Awning fabric RAL9010 pure white                        |                     | TT9010         |                 |   |
|     | Awning fabric, RAL1003 signal yellow                    |                     | HSD 1908       |                 |   |
|     | Awning fabric, RAL6026 opal green                       |                     | HSD 1904       |                 |   |
| 42  | Awning fabric, RAL3002 carmine red                      |                     | HSD 1906       | . 1             | W - 20; H + 820   |
|     | Awning fabric, RAL2004 pure orange                      |                     | HSD 1907       |                 |   |
|     | Awning fabric, RAL9006 white aluminium                  |                     | TT9006         |                 |   |
|     | Awning fabric, RAL5002<br>ultramarine blue              |                     | TT5002         |                 |   |
| 13  | Bolt (M6 $\times$ 80)                                   | H <= 4,000          | DHM0183        | every<br>250 mm |   |
| 70  |   | H > 4,000           |                | every<br>250 mm |   |
| 44  | Round head bolt (M8 $	imes$ 16)                         |                     | 14016          | 6               | for perforated angles fastening   |
| 15  | M6 self-locking nut (with nylon                         | H <= 4,000          | DHM0230        | every<br>250 mm |   |
| -10 | insert)   | H > 4,000           | DTIMO200       | every<br>250 mm |   |
| 46  | Flange nut (M8)   |                     | 14015          | 6               | for perforated angles fastening   |
|     |   | H <= 2,050          |                | 1               |   |
| 47  | Plastic guide holder<br>I = 4.500  mm                   | 2,050 < H <= 4,300  | HSD 1750       | 2               |   |
|     | L = 4,000 IIIII   | H > 4,300           |                | 3               |   |

![](_page_28_Picture_0.jpeg)

| #  | Name   | Condition          | Part number | Qty             | Note  |
|----|--|--------------------|-------------|-----------------|---|
| 48 | 5-core cable                                 |                    | HSD 5005    | L=(H+3,000)     | cable from drive to<br>control unit             |
|    | Track casing L = 3,200 mm                    |                    | HSD 1300    |                 |   |
|    | Track casing L = 3,700 mm                    |                    | HSD 1301    |                 |   |
| 10 | Track casing L = 4,000 mm                    | Ц 2 005            | HSD 1375    | 0               |   |
| 49 | Track casing L = 4,200 mm                    | п <= 3,005         | HSD 1302    | 2               | $L = H + 195, H = 2 \mu cs$                     |
|    | Track casing L = 5,200 mm                    |                    | HSD 1303    |                 |   |
|    | Track casing L = 6,200 mm                    |                    | HSD 1304    |                 |   |
| 50 | Rubber o-ring                                |                    | МПО 283     | 8               | for photocells                                  |
| 51 | Perforated bracket                           |                    | HSD 2112    | 2               |   |
| 52 | ATTENTION sticker                            |                    | МПРП 026    | 1               |   |
|    |  | H <= 1,800         |             | 1               | L = H + 200                                     |
| 53 | Plastic guide L = 4,000 mm                   | 1,800 < H <= 3,800 | HSD 1900K   | 2               |   |
|    |  | H > 3,800          | _           | 3               |   |
| 54 | Self-tapping screw for metal $4,2 \times 16$ |                    | DHM0504     | every<br>250 mm | for fastening of shaft<br>box to vertical track |
|    | Vertical track L = 3,200 mm                  | H <= 3,000         | HSD 1100    |                 |   |
|    | Vertical track L = 3,700 mm                  | 3,000 < H <= 3,500 | HSD 1101    |                 |   |
| 55 | Vertical track L = 4,000 mm                  | 3,500 < H <= 4,000 | HSD 1180    | 2               |   |
|    | Vertical track L = 5,200 mm                  | 4,000 < H <= 5,000 | HSD 1103    |                 |   |
|    | Vertical track L = 6,200 mm                  | 5,000 < H          | HSD 1104    |                 |   |
| 56 | Black cable tie 9,650 mm                     |                    | KCC 9-650   | 8               |   |
| 57 | Spring                                       | H <= 4,000         | - 450 2122  | every<br>250 mm |   |
| 57 | Spring                                       | H > 4,000          | 1100 2122   | every<br>250 mm |   |
| 58 | E3FA-TP11-D photocells                       |                    | HSDC 18200  | 1               |   |
| 50 | Elat galvanized washer $D = 6.0$ mm          | H <= 4,000         |             | every<br>250 mm |   |
| 59 | Flat galvanized washer $D = 6.0 \text{ mm}$  | H > 4,000          | DHM0309     | every<br>250 mm |   |

## APPENDIX 3. DOOR UPPER PART (FRONT DRIVE, WITHOUT COUNTERBALANCE)

![](_page_29_Figure_2.jpeg)

### Table 1. Parts list

| Nº | Name   |   | Condition   | Part number    | Qty | Note  |
|----|--|---|---|----------------|-----|---|
|    | Side bracket 250   |   | $W \leq 4{,}000$ and $H \leq 3{,}800$   | HSD250PMF      |     |   |
| 1  | Side bracket 350   |   | $W \leq 4,000$ and H $> 3,800$ or $W > 4,000$   | HSD350PMF      | 1   |   |
| 2  | Hex bolt: D = M10, L = 20 mm,<br>galvanized,             |   |   | DHM0122        | 4   | for bracket fastening                             |
| 3  | Hex bolt: D = M10<br>non-galvanized                      | , L = 30 mm,                            |   | DHM0177        | 8   | for bearing support                               |
| 4  | Round head bolt (  | M8 × 16)                                |   | 14016          | 6   | fastening of shaft box<br>back cover              |
|    | Shaft assembly: D<br>drive)                              | 9 = 90 mm (front                        | $H \leq$ 3,800 and $W \leq$ 3,000   | HSD1124/M      |     |   |
| 5  | Shaft assembly: D<br>drive)                              | ) = 127 mm (front                       | $4{,}500 < W \leq 5{,}000 \text{ and} \\ H \leq 3{,}800 \text{ or } W \leq 5{,}000 \text{ and} \\ H > 3{,}800$  | HSD1128/M      | 1   | total length = 130 + W<br>+ 130                   |
| 6  | Transmission shat  | ft                                      |   | HSD 1833       | 1   |   |
| 7  | Screw: D = M8, L<br>socket cylinder he<br>non-galvanized | = 14 mm, hex<br>ad,                     |   | DHM0659        | 2   | for encoder fastening                             |
| 8  | Set screw (M6 $\times$ 1                                 | 16)                                     |   | DHM 0901       | 2   |   |
| 9  | Nut: D = M10, self<br>galvanized                         | f-locking,                              |   | 153-17         | 12  | 8 for bearing support,<br>4 for bracket fastening |
| 10 | Flange nut (M8)  |   |   | 14015          | 6   | fastening of shaft box<br>back cover              |
|    | JM motor<br>(1.5 kW) with<br>heating                     | R15 reducer,<br>part number<br>HSDC R15 | with heating W $\leq$ 4,000 and H $\leq$ 3,800  |                | 1   |   |
| 11 |  | R30 reducer,<br>part number<br>HSDC R30 | with heating W $\leq$ 4,000 and H $>$ 3,800 or W $>$ 4,000  | 11306 10100    |     |   |
|    | JM motor with R1   | 5 reducer                               | W $\leq$ 4,000 and H $\leq$ 3,800   | HSDC 18180     |     |   |
|    | JM motor with R3   | 0 reducer                               | $W \leq 4,000$ and $H > 3,800$ or $W > 4,000$   | HSDC18181      |     |   |
| 12 | Chain lock   |   |   | HSD 1835       | 1   |   |
|    | Shaft box 250, L =                                       | = 3,250 mm                              | $W \leq$ 3,000 and H $\leq$ 3,800   | HSD 1400/250   |     |   |
|    | Shaft box 250, L =                                       | = 3,750 mm                              | $3,000 < W \le 3,500$ and $H \le 3,800$   | HSD 1401/250   |     |   |
|    | Shaft box 250, L =                                       | = 4,250 mm                              | $3,500 < W \le 4,000$ and $H \le 3,800$   | HSD 1402/250   | -   |   |
|    | Shaft box 350, L =                                       | = 3,250 mm                              | $W \leq$ 3,000 and H $>$ 3,800  | HSD 1400/350   |     |   |
| 13 | Shaft box 350, L =                                       | = 3,750 mm                              | 3,000 < W ≤ 3,500 and H > 3,800   | HSD 1401/350   | 1   | L = W + 250                                       |
|    | Shaft box 350, L =                                       | = 4,250 mm                              | $3,500 < W \le 4,000$ and $H > 3,800$   | HSD 1402/350   |     |   |
|    | Shaft box 350, L =                                       | = 5,250 mm                              | $\begin{array}{l} 4,000 < W \leq 4,500 \\ \text{and } H > 3,800 \text{ or} \\ 4,500 < W \leq 5,000 \end{array}$ | HSD 1403/350   |     |   |
|    | Shaft box 350, L =                                       | = 6,250 mm                              | 5,000 < W ≤ 6,000   | HSD 1404/350   |     |   |
|    | Shaft box 350, L =                                       | = 7,250 mm                              | 6,000 < W   | HSD 1404-1/350 |     |   |

| N⁰ | Name   | Condition   | Part number   | Qty | Note                   |
|----|--|---|---------------|-----|------------------------|
|    | Shaft box, back cover 250,<br>L = 3,250 mm               | $W \leq$ 3,000 and $H \leq$ 3800                              | HSD 1500/250  |     |                        |
|    | Shaft box, back cover 250,<br>L = 3,750 mm               | 3,000 < W $\leq$ 3,500 and H $\leq$ 3,800                     | HSD 1501/250  |     |                        |
|    | Shaft box, back cover 250,<br>L = 4,250 mm               | $3{,}500 < W \leq 4{,}000$ and $H \leq 3{,}800$               | HSD 1502/250  |     |                        |
|    | Shaft box, back cover 350,<br>L = 3,250 mm               | $W \leq$ 3,000 and H > 3,800                                  | HSD 1500/350  |     |                        |
| 14 | Shaft box, back cover 350,<br>L = 3,750 mm               | $3,000 < W \le 3,500$ and $H > 3,800$                         | HSD 1501/350  | 1   | L = W + 250            |
|    | Shaft box, back cover 350,<br>L = 4,250 mm               | $3,500 < W \le 4,000$ and $H > 3,800$                         | HSD 1502/350  |     |                        |
|    | Shaft box, back cover 350,<br>L = 5,250 mm               | $4,000 < W \leq 4,500$ and $H > 3,800;  4,500 < W \leq 5,000$ | HSD 1503/350  |     |                        |
|    | Shaft box, back cover 350,<br>L = 6,250 mm               | 5,000 < W ≤ 6,000   | HSD 1504/350  |     |                        |
|    | Shaft box, back cover 350,<br>L = 7,250 mm               | 6,000 < W   | HSD 1505/350  |     |                        |
| 15 | External locking ring $\times$ 25                        |   | DHM0320       | 4   | for transmission shaft |
| 16 | Front cover 250 for Joytech drive                        |   | HSD 250TLCF-J | 1   | front drive            |
|    | End plate 250  | $W \leq 4,500$ and $H \leq 3,800$                             | HSD 1405      |     | front drive            |
| 17 | End plate 350  | $W \leq 4{,}500$ and H $>$ 3,800 or $W > 4{,}500$             | HSD 1406      | 1   |                        |
|    | End plate 250 for Joytech drive (right)                  | $W \leq 4{,}000$ and $H \leq 3{,}800$                         | HSD 1837FR-J  |     | front drive            |
| 10 | End plate 250 for Joytech drive (left)                   | $W \leq 4{,}000$ and $H \leq 3{,}800$                         | HSD 1837FL-J  | 4   |                        |
| 10 | End plate 350 for Joytech drive (right)                  | $W \leq 4,000$ and H $> 3,800$ or $W > 4,000$                 | HSD 1838FR-J  |     |                        |
|    | End plate 350 for Joytech drive (left)                   | $W \leq 4,000$ and H $>$ 3,800 or $W > 4,000$                 | HSD 1838FL-J  |     |                        |
|    | Back cover 350 for Joytech drive (right)                 | $W \leq 4{,}000$ and $H \leq 3{,}800$                         | HSD 1838FIR-J |     |                        |
| 19 | Back cover 350 for Joytech drive (left)                  | $W \leq 4,000$ and $H \leq 3,800$                             | HSD 1838FIL-J |     |                        |
| 10 | Back cover 250 for Joytech drive (right)                 | W ≤ 4,000 and H > 3,800 or<br>W > 4,000                       | HSD 1837FIR-J |     |                        |
|    | Back cover 250 for Joytech drive (left)                  | W ≤ 4,000 and H > 3,800 or<br>W > 4,000                       | HSD 1837FIL-J |     |                        |
| 20 | Drive bracket (for front installation)                   |   | HSD 18330     | 1   |                        |
| 21 | Bearing support assembly                                 |   | HSD 2100      | 2   |                        |
| 22 | Curtain assembly   |   |               | 1   |                        |
| 23 | Self-tapping screw for metal $4,2 \times 16$             |   | DHM0504       | 16  |                        |
| 24 | Self-tapping screw for metal 6,3 × 25 mm for door panels |   | 14019         | 7   |                        |
|    | 25-links chain (250)                                     | $W \leq 4{,}000$ and $H \leq 3{,}800$                         | HSD 2118      | 1   |                        |
| 25 | 30-links chain (350)                                     | $W \leq 4{,}000$ and H $>$ 3,800 or W $>$ 4,000               | HSD 21180     |     |                        |
| 26 | Gear pinion: D = 85 mm                                   |   | HSD 2113      | 2   |                        |
| 27 | Key 7 $\times$ 8 $\times$ 80 mm                          |   | HSD 2120      | 2   |                        |
| 28 | Tofi encoder   |   | HSDC 18190    | 1   |                        |

## **APPENDIX 4. SPEEDROLL HIGH-SPEED DOOR (FRONT DRIVE)**

![](_page_32_Figure_2.jpeg)

Fig. 1. Exploded view

## **DoorH**AN<sup>®</sup>

Table 1. Parts list

| #  | Name   |  | Condition  | Part number  | Qty   | Note   |
|----|--|--|--|--------------|-------|--|
| 1  | Door upper part                                      |  |  |              | 1     |  |
| 2  | Left track assemb                                    | lly  |  |              | 1     |  |
| 3  | Right track assem                                    | ıbly   |  |              | 1     |  |
| 4  | Cranck for Joytec<br>L = 1,500 mm                    | h drive  | H <= 3,500   | 147-1983     | 4     |  |
| 4  | Cranck for Joytec<br>L = 3,000 mm                    | h drive  | H > 3,500  | 147-1984     |       |  |
| 5  | Round head bolt (                                    | (M8 × 16)  |  | 14016        | 6     | for tracks fastening to door upper part                      |
| 6  | Flange nut (M8)                                      |  |  | 14015        | 6     | for tracks fastening to door upper part                      |
| 7  | Installation and or for high-speed do                | peration manual<br>for   |  | IN055        | 1     |  |
| 8  | Technical data for                                   | high-speed door  |  | PSP25        | 1     |  |
|    |  |  | Door upper pa  | rt           |       |  |
| 0  | Side bracket 250                                     |  | W <= 4,000 and<br>H <= 3,800   | HSD250PMF    | 1     |  |
| 9  | Side bracket 350                                     |  | W <= 4,000 and H > 3,800<br>or W > 4,000   | HSD350PMF    |       |  |
| 10 | Hex bolt: D = M10<br>galvanized                      | ), L = 20 mm,  |  | DHM0122      | 4     | крепление кронштей-<br>на                                    |
| 11 | Hex bolt: D = M10<br>non-galvanized                  | ), L = 30 mm,  |  | DHM0177      | 8     | for bearing support  |
| 12 | Round head bolt (                                    | (M8 × 16)  |  | 14016        | 6     |  |
|    | Shaft assembly D drive)                              | = 90 mm (front   | H <= 3,800 and<br>W <= 3,000   | HSD1124/M    |       | total longth - 120 i   |
| 13 | Shaft assembly D drive)                              | = 127 mm (front  | 4,500 < W <= 5,000 and<br>H <= 3,800 or W <= 5,000<br>and H > 3,800                                | HSD1128/M    | 1 "W" | "W" + 130  |
| 14 | Transmission sha                                     | ft   |  | HSD 1833     | 1     |  |
| 15 | Screw: D = M8, L<br>hex socket cylinde<br>galvanized | = 14 mm,<br>er head, non-  |  | DHM0659      | 2     | for encoder fastening  |
| 16 | Set screw (M6 × <sup>-</sup>                         | 16)  |  | DHM 0901     | 2     |  |
| 17 | Nut: D = M10, sel<br>galvanized                      | f-locking,   |  | 153-17       | 12    | 8 pcs for bearing<br>support; 4 pcs for<br>bracket fastening |
| 18 | Flange nut (M8)                                      |  |  | 14015        | 6     |  |
| 19 | JM motor (1.5<br>kW) with heating                    | R15 reducer,<br>part number<br>HSDC R15<br>R30 reducer,<br>part number<br>HSDC R30 | with heating W <= 4,000<br>and H <= 3,800<br>with heating W <= 4,000<br>and H > 3,800 or W > 4,000 | - HSDC 18186 | 1     |  |
|    | JM motor with R1                                     | 5 reducer  | W <= 4,000 and H <= 3,800  | HSDC 18180   | -     |  |
|    | JM motor with R3                                     | 80 reducer   | W <= 4,000 and H > 3,800<br>or W > 4,000   | HSDC 18181   |       |  |

| #  | Name                                      | Condition  | Part number    | Qty | Note                   |
|----|---|--|----------------|-----|------------------------|
| 20 | Chain lock                                |  | HSD 1835       |     |                        |
|    | Shaft box 250 L = 3,250 mm                | W <= 3,000 and H <= 3,800                                    | HSD 1400/250   |     |                        |
|    | Shaft box 250 L = 3,750 mm                | 3,000 < W <= 3,500 and<br>H <= 3,800                         | HSD 1401/250   |     |                        |
|    | Shaft box 250 L = 4,250 mm                | 3,500 <w <="4,000" and<br="">H &lt;= 3,800</w>               | HSD 1402/250   |     |                        |
|    | Shaft box 350 L = 3,250 mm                | W <= 3,000 and H > 3,800                                     | HSD 1400/350   | _   |                        |
| 21 | Shaft box 350 L = 3,750 mm                | 3,000 < W <= 3,500 and<br>H > 3,800                          | HSD 1401/350   | 1   | L = W + 250            |
|    | Shaft box 350 L = 4,250 mm                | 3,500 < W <= 4,000 and<br>H > 3,800                          | HSD 1402/350   |     |                        |
|    | Shaft box 350 L = 5,250 mm                | 4,000 < W <= 4,500<br>and H > 3,800 or<br>4,500 < W <= 5,000 | HSD 1403/350   |     |                        |
|    | Shaft box 350 L = 6,250 mm                | 5,000 < W <= 6,000   | HSD 1404/350   |     |                        |
|    | Shaft box 350 L = 7,250 mm                | 6,000 < W  | HSD 1404-1/350 |     |                        |
|    | Shaft box, back cover 250<br>L = 3,250 mm | W <= 3,000 and H <= 3,800                                    | HSD 1500/250   |     |                        |
|    | Shaft box, back cover 250<br>L = 3,750 mm | 3,000 < W <= 3,500 and<br>H <= 3,800                         | HSD 1501/250   |     |                        |
|    | Shaft box, back cover 250<br>L = 4,250 mm | 3,500 <w <="4,000" and<br="">H &lt;= 3,800</w>               | HSD 1502/250   |     |                        |
|    | Shaft box, back cover 350<br>L = 3,250 mm | W <= 3,000 and H > 3,800                                     | HSD 1500/350   |     |                        |
| 22 | Shaft box, back cover 350<br>L = 3,750 mm | 3,000 < W <= 3,500 and<br>H > 3,800                          | HSD 1501/350   | 1   | L = W + 250            |
|    | Shaft box, back cover 350<br>L = 4,250 mm | 3,500 <w <="4,000" and<br="">H &gt; 3,800</w>                | HSD 1502/350   |     |                        |
|    | Shaft box, back cover 350<br>L = 5,250 mm | 4,000 < W <= 4,500<br>and H > 3,800;<br>4,500 < W <= 5,000   | HSD 1503/350   |     |                        |
|    | Shaft box, back cover 350<br>L = 6,250 mm | 5,000 < W <= 6,000   | HSD 1504/350   |     |                        |
|    | Shaft box, back cover 350<br>L = 7,250 mm | 6,000 < W  | HSD 1505/350   |     |                        |
| 23 | External lock ring 25                     |  | DHM0320        | 4   | for transmission shaft |
| 24 | Front cover 250 for Joytech drive         |  | HSD 250TLCF-J  | 1   | front drive            |
|    | End plate 250                             | W <= 4,500 and H <= 3,800                                    | HSD 1405       |     | front drive            |
| 25 | End plate 350                             | W <= 4,500 and H > 3,800<br>or W > 4,500                     | HSD 1406       | 1   |                        |
|    | End plate 250 for Joytech drive (right)   | W <= 4,000 and H <= 3,800                                    | HSD 1837FR-J   |     |                        |
| 06 | End plate 250 for Joytech drive (left)    | W <= 4,000 and H <= 3,800                                    | HSD 1837FL-J   |     | front drive            |
| 20 | End plate 350 for Joytech drive (right)   | W <= 4,000 and H > 3,800<br>or W > 4,000                     | HSD 1838FR-J   |     |                        |
|    | End plate 350 for Joytech drive (left)    | W <= 4,000 and H > 3,800<br>or W > 4,000                     | HSD 1838FL-J   |     |                        |

## Table 1. Parts list (continued)

| #  | Name  | Condition                                | Part number    | Qty         | Note   |
|----|---|--|----------------|-------------|--|
|    | Back cover 350 for Joytech drive (right)                        | W <= 4,000 and H <= 3,800                | HSD 1838FIR-J  |             |  |
| 07 | Back cover 350 for Joytech drive (left)                         | W <= 4,000 and H <= 3,800                | HSD 1838FIL-J  |             | front drive  |
| 21 | Back cover 250 for Joytech drive (right)                        | W <= 4,000 and H > 3,800<br>or W > 4,000 | HSD 1837FIR-J  |             |  |
|    | Back cover 250 for Joytech drive (left)                         | W <= 4,000 and H > 3,800<br>or W > 4,000 | HSD 1837FIL-J  |             |  |
| 28 | Drive bracket (for front installation)                          |  | HSD 18330      | 1           |  |
| 29 | Bearing support assembly  |  | HSD 2100       | 2           |  |
| 30 | Self-tapping screw for metal $4,2 \times 16$                    |  | DHM0504        | 16          |  |
| 31 | Self-tapping screw for metal $6,3 \times 25$ mm for door panels |  | 14019          | 7           | for front shaft box  |
|    | 25-links chain (250)  | W <= 4,000 and H <= 3,800                | HSD 2118       | 1           |  |
| 32 | 30-links chain (350)  | W <= 4,000 and H > 3,800<br>or W > 4,000 | HSD 21180      | 1           |  |
| 33 | Pinion gear D = 85 mm   |  | HSD 2113       | 2           |  |
| 34 | Key $7 \times 8 \times 80 \text{ mm}$                           |  | HSD 2120       | 2           |  |
| 35 | Tofi encoder  |  | HSDC 18190     | 1           |  |
|    | 1   | Door curtain                             |                |             | 1  |
| 36 | Velcro closure with PVC base                                    |  | SHVX008        | 1           | for receiver fixation<br>in door pocket and<br>for locking of bottom<br>pocket sides |
| 37 | COSMOFEN CA 12 glue   |  | CA 12          | 0.007       |  |
| 38 | Set of plugs for safety edge assembly                           |  | SET_BAND       | 1           | safety edge —<br>optional  |
| 20 | Toothed edge  |  | HSD 1901K      | 2           | L = H + 200  |
| 39 | Toothed edge with reinforcement                                 |  | HSD 19010      | 2           | optional for freezers  |
| 40 | DoorHan logo for high-speed door $280 \times 45 \text{ mm}$     |  | RP 77N         | 2           |  |
| 41 | Toothed edge with reinforcement                                 |  | RP 77          | 1           |  |
|    | Double PVC reinforcement (band),<br>RAL9010 pure white          | W/ <= 2 100                              | HSD 1902/9010N | ŋ           |  |
|    | PVC reinforcement (band),<br>RAL1003 signal yellow              | VV <= 2,100                              | HSD 1902/1003  | ۷           |  |
|    | PVC reinforcement (band),<br>RAL6026 opal green                 | 2 100 < W <= 4 250                       | HSD 1902/6026  | - 3         |  |
| 42 | PVC reinforcement (band),<br>RAL3002 carmine red                | 2,100 ( W (= 1,200                       | HSD 1902/3002  |             | L = H + 700  |
| 72 | PVC reinforcement (band),<br>RAL2004 pure orange                | -  | HSD 1902/2004  | -           |  |
|    | PVC reinforcement (band),<br>RAL9006 white aluminium            | 4,250 < W < 6,000                        | HSD 1902/9006  | 4           |  |
|    | PVC reinforcement (band),<br>RAL5002 ultramarine blue           |  | HSD 1902/5002  |             |  |
|    | PVC reinforcement (band), double transparent                    | 2,100 < W <= 4,250<br>4,250 < W < 6,000  | HSD 1902N      | 1           | optional for freezers  |
| 43 | Black PVC-fabric, width — 730 mm                                |  | SHVH004        | 730*(W-20)  | curtain bottom part, cutting: W - $20 \times 400$                                    |
| 44 | Black PVC-fabric, width — 730 mm                                |  | SHVH004        | 730*(W-100) | sand pocket holder,<br>cutting: W - 100 × 100  |

![](_page_36_Picture_0.jpeg)

| #  | Name                                       | Condition          | Part number | Qty             | Note   |
|----|--|--------------------|-------------|-----------------|--|
|    | Black PVC-fabric, width — 730 mm           |                    | SHVH004     | 730*(W-100)     | sand pocket<br>(W - 100) × 230                           |
| 45 | Black PVC-fabric, width — 730 mm           |                    | SHVH004     | 730*(W-300)     | safety edge, optional;<br>sand pocket<br>(W - 300) × 260 |
| 46 | Black PVC-fabric, width — 730 mm           |                    | SHVH004     | 730*(W-100)     |  |
| 47 | Quarry sand                                |                    | RMC241      | 0,002*W         |  |
| 48 | Transmitter of safety edge signal          |                    | TR_BAND     | 1               | safety edge, optional                                    |
| 49 | Receiver of safety edge signal             |                    | REC_BAND    | 1               | safety edge, optional                                    |
| 50 | Rubber safety edge                         |                    | BAND1       | L=(W-100)       | safety edge, optional                                    |
|    | Awning fabric RAL9010 pure white           |                    | TT9010      |                 |  |
|    | Awning fabric, RAL1003 signal yellow       |                    | HSD 1908    |                 |  |
|    | Awning fabric, RAL6026 opal green          |                    | HSD 1904    |                 |  |
| 51 | Awning fabric, RAL3002 carmine red         |                    | HSD 1906    | 1               | W - 20; H + 820  |
|    | Awning fabric, RAL2004 pure orange         |                    | HSD 1907    |                 |  |
|    | Awning fabric, RAL9006 white aluminium     |                    | ТТ9006      |                 |  |
|    | Awning fabric, RAL5002<br>ultramarine blue |                    | TT5002      |                 |  |
|    |  | Vertical track, 2  | pcs         | 1               |  |
| 50 | Polt (MG 90)                               | H <= 4,000         |             | every<br>250 mm |  |
| 52 | BUIL (INIO × 80)                           | H > 4,000          | DHIVIU183   | every<br>250 mm |  |
| 53 | Round head bolt (M8 $\times$ 16)           |                    | 14016       | 6               | for perforated angles fastening                          |
| 54 | M6 self-locking nut (with nylon            | H <= 4,000         |             | every<br>250 mm |  |
| J4 | insert)                                    | H <= 4,000         | 01100230    | every<br>250 mm |  |
| 55 | Flange nut (M8)                            |                    | 14015       | 6               | for perforated angles fastening                          |
|    |  |                    |             | 1               |  |
| 56 | Plastic guide holder L = 4,500 mm          | 2,050 < H <= 4,300 | HSD 1750    | 2               |  |
|    |  | H > 4,300          |             | 3               |  |
| 57 | 5-core cable                               |                    | HSD 5005    | L=(H+3,000)     | cable from drive to<br>control unit                      |
|    | Track casing L = 3,200 mm                  | H <= 3,005         | HSD 1300    |                 |  |
|    | Track casing L = 3,700 mm                  | 3,005 < H <= 3,505 | HSD 1301    |                 |  |
| 58 | Track casing L = 4,000 mm                  | 3,005 < H <= 3,805 | HSD 1375    | 2               | L = H + 105; n = 2 pcs                                   |
| 50 | Track casing L = 4,200 mm                  | 3,805 < H <= 4,005 | HSD 1302    | ۷.              | L = 11 + 195, 11 = 2 pcs                                 |
|    | Track casing L = 5,200 mm                  | 4,005 < H <= 5,005 | HSD 1303    |                 |  |
|    | Track casing L = 6,200 mm                  | 5,005 < H          | HSD 1304    |                 |  |
| 59 | Rubber o-ring                              |                    | МПО 283     |                 | for photocells   |
| 60 | Perforated bracket                         |                    | HSD 2112    |                 |  |
| 61 | ATTENTION sticker                          |                    | МПРП 026    |                 |  |

| #  | Name   | Condition  | Part number | Qty             | Note                     |
|----|--|--|-------------|-----------------|--------------------------|
| 62 | Plastic guide L = 4,000 mm                   | H <= 1,800   |             | 1               |                          |
|    |  | 1,800 < H <= 3,800   | HSD 1900K   | 2               | L = H + 200              |
|    |  | H > 3,800  | -           | 3               |                          |
| 63 | Self-tapping screw for metal $4,2 \times 16$ |  |             |                 |                          |
| 64 | Vertical track L = 3,200 mm                  | H <= 3,000   | HSD 1100    |                 |                          |
|    | Vertical track L = 3,700 mm                  | 3,000 < H <= 3,500   | HSD 1101    |                 |                          |
|    | Vertical track L = 4,000 mm                  | 3,500 <h <="4,000&lt;/td"><td>HSD 1180</td><td>2</td><td></td></h> | HSD 1180    | 2               |                          |
|    | Vertical track L = 5,200 mm                  | 4,000 < H <= 5,000   | HSD 1103    |                 |                          |
|    | Vertical track L = 6,200 mm                  | 5,000 < H  | HSD 1104    |                 |                          |
| 65 | Black cable tie 9,650 mm                     |  | KCC 9-650   | 8               | photocell cable fixation |
| 66 | Spring                                       | H <= 4,000   |             | every<br>250 mm |                          |
| 00 | Spring                                       | H > 4,000  | NOD 2122    | every<br>250 mm | L = H + 200              |
| 67 | E3FA-TP11-D photocells                       |  | HSDC 18200  | 1               |                          |
| 69 | Elat galvanizad washar D = 6.0 mm            | H <= 4,000   |             | every<br>250 mm |                          |
| 68 | Fiat gaivanized washer $D = 6.0 \text{ mm}$  | H > 4,000  | - DHM0309   | every<br>250 mm |                          |

## **APPENDIX 5. DOOR UPPER PART (GFA DRIVE)**

![](_page_38_Figure_2.jpeg)

Table 1. Parts list

| #  | Name  | Condition   | Part number    | Qty | Note  |
|----|---|---|----------------|-----|---|
| 1  | Hex bolt: D = M8, L = 16 mm,<br>galvanized  | W $\leq$ 4,000 and H $\leq$ 3,800   | DHM0112        | 4   | for drive bracket<br>fastening  |
| 2  | Hex bolt: D = M10, L = 20 mm,<br>non-galvanized   |   | DHM0122        | 4   | for drive fastening to bracket and side cap   |
| 3  | Hex bolt: D = M10, L = 30 mm,<br>non-galvanized   |   | DHM0177        | 8   | for bearing support   |
| 4  | Round head bolt (M8 $\times$ 16)  |   | 14016          | 6   | fastening of shaft box<br>back cover  |
|    | Shaft assembly: D = 90 mm (GFA drive)   | $W \le 4,000 H \le 3,800$   | HSD 911/M      | 1   | 130 + W + 295   |
| 5  | Shaft assembly: D = 127 mm (GFA drive)  | $4,000 < W \le 5,000$ and $H \le 3,800$ or $W \le 5,000$ and $H > 3,800$  | HSD 915/M      | 1   | 130 + W + 296   |
| 6  | Set screw: D = 4,0 mm, L = 10 mm,<br>with a hex socket head and cone<br>point, galvanized |   | 163-825        | 1   | for encoder axis<br>locking   |
| 7  | Nut: D = M10, self-locking,<br>galvanized   |   | 153-17         | 12  | 4 pcs for drive<br>fastening to bracket<br>and side cap; 8 pcs for<br>bearing support |
| 8  | Flange nut (M8)   |   | 14015          | 6   | fastening of shaft box<br>back cover  |
| 9  | Flange nut (M8)   |   | 14016          | 4   | for drive bracket<br>fastening  |
|    | Shaft box 250, L = 3,250 mm   | W $\leq$ 3,000 and H $\leq$ 3,800   | HSD 1400/250   |     |   |
|    | Shaft box 250, L = 3,750 mm   | $3,000 < W \le 3,500$ and $H \le 3,800$   | HSD 1401/250   |     |   |
|    | Shaft box 250, L = 4,250 mm   | $3,500 < W \le 4,000$ and $H \le 3,800$   | HSD 1402/250   |     |   |
|    | Shaft box 350, L = 3,250 mm   | $W \leq$ 3,000 and H $>$ 3,800  | HSD 1400/350   |     |   |
| 10 | Shaft box 350, L = 3,750 mm   | $3,000 < W \le 3,500$ and H > 3,800   | HSD 1401/350   | 1   | L = W + 250   |
|    | Shaft box 350, L = 4,250 mm   | $3,500 < W \le 4,000$ and $H > 3,800$   | HSD 1402/350   |     |   |
|    | Shaft box 350, L = 5,250 mm   | $\begin{array}{l} 4,000 < W \leq 4,500 \\ \text{and } H > 3,800 \mbox{ or} \\ 4,500 < W \leq 5,000 \end{array}$ | HSD 1403/350   |     |   |
|    | Shaft box 350, L = 6,250 mm   | $5,000 < W \le 6,000$   | HSD 1404/350   | -   |   |
|    | Shaft box 350. L = 7.250 mm   | 6.000 < W   | HSD 1404-1/350 |     |   |

| #    | Name   | Condition   | Part number  | Qty | Note          |
|------|--|---|--------------|-----|---------------|
|      | Shaft box, back cover 250,<br>L = 3,250 mm               | $W \leq$ 3,000 and $H \leq$ 3,800   | HSD 1500/250 |     |               |
|      | Shaft box, back cover 250,<br>L = 3,750 mm               | $3{,}000 < W \leq 3{,}500$ and $H \leq 3{,}800$   | HSD 1501/250 |     |               |
|      | Shaft box, back cover 250,<br>L = 4,250 mm               | $3,500 < W \le 4,000$ and $H \le 3,800$   | HSD 1502/250 |     |               |
|      | Shaft box, back cover 350,<br>L = 3,250 mm               | W $\leq$ 3,000 and H > 3,800  | HSD 1500/350 |     |               |
| 11   | Shaft box, back cover 350,<br>L = 3,750 mm               | $3,000 < W \le 3,500$ and $H > 3,800$   | HSD 1501/350 | 1   | L = W + 250   |
|      | Shaft box, back cover 350,<br>L = 4,250 mm               | $3,500 < W \le 4,000$ and $H > 3,800$   | HSD 1502/350 |     |               |
|      | Shaft box, back cover 350,<br>L = 5,250 mm               | $\begin{array}{l} 4,000 < W \leq 4,500 \\ and \ H > 3,800; \\ 4,500 < W \leq 5,000 \end{array}$ | HSD 1503/350 |     |               |
|      | Shaft box, back cover 350,<br>L = 6,250 mm               | 5,000 < W ≤ 6,000   | HSD 1504/350 |     |               |
|      | Shaft box, back cover 350,<br>L = 7,250 mm               | 6,000 < W   | HSD 1505/350 |     |               |
| 12   | Drive bracket  |   | HSD 1802     |     |               |
| 10   | Drive bracket SI 5.250                                   | $W{\cdot}H \leq 9{,}000{,}000$  | HSD 9102     | 4   |               |
| 13   | Drive bracket SI 8.300                                   | W·H > 9,000,000   | HSD11101     | I   |               |
| -1.4 | End plate 250 (for shaft with<br>D = 30 mm)              | W $\leq$ 4,000 and H $\leq$ 3,800   | HSD 9101     | 0   |               |
| 14   | End plate 350 (for shaft with<br>D = 30 mm)              | $W \leq 4{,}000$ and H $>$ 3,800 or W $>$ 4,000   | HSD 9103     | 2   |               |
| 15   | UCF 206 bearing support assembly                         |   | HSD9100      | 2   |               |
| 16   | ELEKTROMAT drive «Safedrive»<br>SI5.250-30               | W H > 0.000.000   | SI5.250-30   | 4   |               |
| 10   | ELEKTROMAT drive «Safedrive»<br>SI8.300-30               | vv·ri > 3,000,000   | SI8.300-30   | I   |               |
| 17   | Self-tapping screw for metal 6,3 × 25 mm for door panels |   | 14019        | 7   | for front box |
| 18   | Key $7 \times 8 \times 80$                               | HSD 2120  | HSD 2120     | 1   |               |

## **DoorH**AN<sup>°</sup>

## **APPENDIX 6. SPEEDROLL HIGH-SPEED DOOR (GFA DRIVE)**

![](_page_41_Figure_2.jpeg)

**APPENDICES** 

Table 1. Parts list

| #  | Name  | Condition   | Part number    | Qty | Note  |
|----|---|---|----------------|-----|---|
| 1  | Door upper part   |   |                | 1   |   |
| 2  | Left track assembly   |   |                | 1   |   |
| 3  | Right track assembly  |   |                | 1   |   |
| 4  | Round head bolt (M8 $\times$ 16)  |   | 14016          | 6   | for tracks fastening to door upper part   |
| 5  | Flange nut (M8)   |   | 14015          | 6   | for tracks fastening to door upper part   |
| 6  | Installation and operation manual for high-speed door                                     |   | IN055          | 1   |   |
| 7  | Technical data for high-speed door  |   | PSP25          | 1   |   |
|    |   | Door upper pa   | rt             |     |   |
| 8  | Hex bolt: D = M8, L = 16 mm,<br>galvanized  |   | DHM0112        | 4   | for drive bracket fastening   |
| 9  | Hex bolt: D = M10, L = 20 mm,<br>non-galvanized   |   | DHM0122        | 4   | for drive fastening to bracket and side cap   |
| 10 | Hex bolt: D = M10, L = 30 mm,<br>non-galvanized   |   | DHM0177        | 8   | for bearing support   |
| 11 | Round head bolt (M8 x 16)   |   | 14016          | 6   | fastening of shaft box<br>back cover  |
|    | Shaft assembly D = 90 mm (GFA drive)  | W <= 4,000 H <= 3,800   | HSD 911/M      | 1   | 130 + W + 295   |
| 12 | Shaft assembly D = 127 mm (GFA drive)   | 4,000 < W <= 5,000 and<br>H <= 3,800 or W <= 5,000<br>and H > 3,800 | HSD 915/M      | 1   | 130 + W+ 296  |
| 13 | Set screw: D = 4,0 mm, L = 10 mm,<br>with a hex socket head and cone<br>point, galvanized |   | 163-825        | 1   | for encoder axis<br>locking   |
| 14 | Nut: D = M10, self-locking,<br>galvanized   |   | 153-17         | 12  | 4 pcs for drive<br>fastening to bracket<br>and side cap; 8 pcs for<br>bearing support |
| 15 | Flange nut (M8)   |   | 14015          | 6   | fastening of shaft box<br>back cover  |
| 16 | Flange nut (M8)   |   | 14016          | 4   | for drive bracket fastening   |
|    | Shaft box 250 L = 3,250 mm  | W <= 3,000 and H <= 3,800   | HSD 1400/250   |     |   |
|    | Shaft box 250 L = 3,750 mm  | 3,000 < W <= 3,500 and<br>H <= 3,800                                | HSD 1401/250   |     |   |
|    | Shaft box 250 L = 4,250 mm  | 3,500 <w <="4,000" and<br="">H &lt;= 3,800</w>                      | HSD 1402/250   |     |   |
|    | Shaft box 350 L = 3,250 mm  | W <= 3,000 and H > 3,800  | HSD 1400/350   |     |   |
| 17 | Shaft box 350 L = 3,750 mm  | 3,000 < W <= 3,500 and<br>H > 3,800                                 | HSD 1401/350   | 1   | L = W + 250   |
|    | Shaft box 350 L = 4,250 mm  | 3,500 < W <= 4,000 and<br>H > 3,800                                 | HSD 1402/350   |     |   |
|    | Shaft box 350 L = 5,250 mm  | 4,000 < W <= 4,500<br>and H > 3,800 or<br>4,500 < W <= 5,000        | HSD 1403/350   |     |   |
|    | Shaft box 350 L = 6,250 mm  | 5,000 < W <= 6,000  | HSD 1404/350   |     |   |
|    | Shaft box 350 L = 7,250 mm  | 6,000 < W   | HSD 1404-1/350 |     |   |

## **DoorH**AN<sup>®</sup>

## Table 1. Parts list (continued)

| #  | Name   | Condition  | Part number  | Qty   | Note   |
|----|--|--|--------------|-------|--|
|    | Shaft box, back cover 250                                      | W <= 3,000 and H <= 3,800                                  | HSD 1500/250 |       |  |
|    | Shaft box, back cover 250<br>L = 3,750  mm                     | 3,000 < W <= 3,500 and<br>H <= 3,800                       | HSD 1501/250 |       |  |
|    | Shaft box, back cover 250<br>L = 4,250 mm                      | 3,500 < W <= 4,000 and<br>H <= 3,800                       | HSD 1502/250 |       |  |
|    | Shaft box, back cover 350<br>L = 3,250 mm                      | W <= 3,000 and H > 3,800                                   | HSD 1500/350 |       |  |
| 18 | Shaft box, back cover 350<br>L = 3,750 mm                      | 3,000 < W <= 3,500 and<br>H > 3,800                        | HSD 1501/350 | 1     | L= W + 250   |
|    | Shaft box, back cover 350<br>L = 4,250 mm                      | 3,500 < W <= 4,000 and<br>H > 3,800                        | HSD 1502/350 |       |  |
|    | Shaft box, back cover 350<br>L = 5,250 mm                      | 4,000 < W <= 4,500<br>and H > 3,800;<br>4,500 < W <= 5,000 | HSD 1503/350 |       |  |
|    | Shaft box, back cover 350<br>L = 6,250 mm                      | 5,000 < W <= 6,000   | HSD 1504/350 |       |  |
|    | Shaft box, back cover 350<br>L = 7,250 mm                      | 6,000 < W  | HSD 1505/350 |       |  |
| 19 | Drive bracket  |  | HSD 1802     | 1     | for fastening to side<br>cap   |
| 20 | Drive bracket SI 5.250   | W*H <= 9,000,000   | HSD 9102     | 4     |  |
| 20 | Drive bracket SI 8.300   | W*H > 9,000,000  | HSD11101     |       |  |
|    | End plate 250 (for shaft with<br>D = 30 mm)                    | W <= 4,000 and H <= 3,800                                  | HSD 9101     |       |  |
| 21 | End plate 350 (for shaft with<br>D = 30 mm)                    | W <= 4,000 and H > 3,800<br>or W > 4,000                   | HSD 9103     | 2     |  |
| 22 | UCF 206 bearing support assembly                               |  | HSD9100      | 2     |  |
| 00 | ELEKTROMAT drive "Safedrive"<br>SI5.250-30                     | W*H <= 9,000,000   | SI5.250-30   | - 1   |  |
| 23 | ELEKTROMAT drive "Safedrive"<br>SI8.300-30                     | W*H > 9,000,000  | SI8.300-30   |       |  |
| 24 | Self-tapping screw for metal $6,3 \times 25$ mm or door panels |  | 14019        | 7     | for front box  |
| 25 | Key $7 \times 8 \times 80$                                     |  | HSD 2120     | 1     |  |
|    |  | Door curtain   |              | -     |  |
| 26 | Velcro closure with PVC base                                   |  | SHVX008      | 1     | for receiver fixation<br>in door pocket and<br>for locking of bottom<br>pocket sides |
| 27 | COSMOFEN CA 12 glue  |  | CA 12        | 0.007 |  |
| 28 | Set of plugs for safety edge assembly                          |  | SET_BAND     | 1     | safety edge, optional  |
| 00 | Toothed edge   |  | HSD 1901K    | 2     | L = H + 200  |
| 29 | Toothed edge with reinforcement                                |  | HSD 19010    | 2     | optional for freezers  |
| 20 | DoorHan logo for high-speed door                               |  |              | 0     |  |

**RP 77N** 

RP 77

2

1

30

31

280 × 45 mm

door

DoorHan sticker for high-speed

![](_page_44_Picture_0.jpeg)

| #  | Name  | Condition           | Part number    | Qty             | Note  |
|----|---|---------------------|----------------|-----------------|---|
|    | PVC reinforcement (band), double,<br>RAL9010 pure white | W 0 100             | HSD 1902/9010N | 0               |   |
|    | PVC reinforcement (band),<br>RAL1003 signal yellow      | ₩ <= 2,100          | HSD 1902/ 1003 | 2               |   |
|    | PVC reinforcement (band),<br>RAL6026 opal green         | 2 100 < W/ <= 4 250 | HSD 1902/6026  | 0               |   |
|    | PVC reinforcement (band),<br>RAL3002 carmine red        | 2,100 < W <= 4,250  | HSD 1902/3002  | 3               | L = H + 700   |
| 32 | PVC reinforcement (band),<br>RAL2004 pure orange        |                     | HSD 1902/2004  |                 |   |
|    | PVC reinforcement (band)<br>RAL9006 white aluminium     | 4,250 < W < 6,000   | HSD 1902/9006  | 4               |   |
|    | PVC reinforcement (band),<br>RAL5002 ultramarine blue   |                     | HSD 1902/5002  |                 |   |
|    | PVC reinforcement (band), double,                       | 2,100 < W <= 4,250  | 1002N          | 1               | optional for fraggers   |
|    | transparent   | 4,250 < W < 6,000   | HOD 1902N      | 2               | optional for neezers  |
| 33 | Black PVC-fabric, width — 730 mm                        |                     | SHVH004        | 730*(W-20)      | curtain bottom part,<br>cutting: (W - 20) × 400                 |
| 34 | ELEKTROMAT drive "Safedrive"<br>SI8.300-30              |                     | SHVH004        | 730*(W-100)     | sand pocket holder (W - 100) $\times$ 100                       |
|    | Black PVC-fabric, width — 730 mm                        |                     | SHVH004        | 730*(W-100)     | sand pocket<br>(W - 100) × 230                                  |
| 35 | Black PVC-fabric, width — 730 mm                        |                     | SHVH004        | 730*(W-300)     | safety edge, optional;<br>sand pocket<br>(W - 300) × 260        |
| 36 | Black PVC-fabric, width — 730 mm                        |                     | SHVH004        | 730*(W-100)     | safety edge, optional,<br>safety edge pocket<br>(W - 100) × 150 |
| 37 | Quarry sand   |                     | RMC241         | 0.002*W         |   |
| 38 | Transmitter of safety edge signal                       |                     | TR_BAND        | 1               | safety edge, optional   |
| 39 | Receiver of safety edge signal                          |                     | REC_BAND       | 1               | safety edge, optional   |
| 40 | Rubber safety edge                                      |                     | BAND1          | L = (W - 100)   | safety edge, optional   |
|    | Awning fabric RAL9010 pure white                        |                     | TT9010         |                 |   |
|    | Awning fabric, RAL1003 signal yellow                    |                     | HSD 1908       |                 |   |
|    | Awning fabric, RAL6026 opal green                       |                     | HSD 1904       |                 |   |
| 41 | Awning fabric, RAL3002 carmine red                      |                     | HSD 1906       | . 1             | W - 20; H + 820   |
|    | Awning fabric, RAL2004 pure orange                      |                     | HSD 1907       |                 |   |
|    | Awning fabric, RAL9006 white aluminium                  |                     | TT9006         |                 |   |
|    | Awning fabric, RAL5002<br>ultramarine blue              |                     | TT5002         |                 |   |
|    | 1   | Vertical track, 2   | ocs            | 1               |   |
| 42 | Bolt (M6 × 80)  | H <= 4,000 mm       | DUMO100        | every<br>250 mm |   |
|    |   | H > 4,000 mm        | 21100100       | every<br>250 mm |   |
| 43 | Round head bolt (M8 $\times$ 16)                        |                     | 14016          | 6               | for perforated angles fastening                                 |
| 44 | Screw (M4 $\times$ 10)                                  |                     | SH 86          | 4               | for photocell fastening<br>to vertical track                    |

| #  | Name   | Condition          | Part number  | Qty             | Note  |
|----|--|--------------------|--------------|-----------------|---|
| 45 | Hex nut: D = M4, non-galvanized                                    |                    | DHM0204      | 4               | for photocell fastening to vertical track         |
| 46 | M6 self-locking nut (with nylon                                    | H <= 4,000         |              | every<br>250 mm |   |
| 40 | insert)  | H > 4,000          | D1110230     | every<br>250 mm |   |
| 47 | Flange nut (M8)  |                    | 14015        | 6               | for perforated angles<br>fastening                |
|    | Directio sucido holdos   | H <= 2,050         |              | 1               |   |
| 48 | Plastic guide holder $I = 4.500 \text{ mm}$                        | 2,050 < H <= 4,300 | HSD 1750     | 2               | _   |
|    |  | H > 4,300          |              | 3               |   |
| 49 | Connecting cable $2 \times 0.75$ (twisted pair control cable)      |                    | RMK002       | 2               | L = 2*H - 100 + W;<br>from photocells to<br>drive |
| 50 | 5-core cable   |                    | HSD 5005     | L=(H+3,000)     | cable from drive to control unit                  |
|    | Track casing L = 3,200 mm  | H <= 3,005         | HSD 1300     |                 |   |
|    | Track casing L = 3,700 mm  | 3,005 < H <= 3,505 | HSD 1301     |                 |   |
| 51 | Track casing L = 4,000 mm  | 3,005 < H <= 3,805 | HSD 1375     | 0               | 1 11 105  |
| 51 | Track casing L = 4200 mm   | 3,805 < H <= 4,005 | HSD 1302     | 2               | L = H + 195                                       |
|    | Track casing L = 5,200 mm  | 4,005 < H <= 5,005 | HSD 1303     |                 |   |
|    | Track casing L = 6,200 mm  | 5,005 < H          | HSD 1304     |                 |   |
| 52 | Rubber o-ring  |                    | МПО 283      | 2               | for photocells                                    |
| 53 | Perforated bracket   |                    | HSD 2112     | 2               |   |
| 54 | Grommet  |                    | SHLS001      | 4               | for framing of the hole<br>for phocoell ray       |
| 55 | ATTENTION sticker  |                    | МПРП 026     | 1               |   |
|    |  | H <= 1,800         |              | 1               |   |
| 56 | Plastic guide L = 4,000 mm   | 1,800 < H <= 3,800 | HSD 1900K    | 2               | L = H + 200                                       |
|    |  | H > 3,800          |              | 3               |   |
| 57 | Self-tapping screw for metal $4,2 \times 16$                       |                    | DHM 0504     | every<br>250 mm | for fastening of the box to vertical track        |
|    | Vertical track L = 3,200 mm  | H <= 3,000         | HSD 1100     |                 |   |
|    | Vertical track L = 3,700 mm  | 3,000 < H <= 3,500 | HSD 1101     |                 |   |
| 58 | Vertical track L = 4,000 mm  | 3,500 < H <= 4,000 | HSD 1180     | 2               |   |
|    | Vertical track L = 5,200 mm  | 4,000 < H <= 5,000 | HSD 1103     |                 |   |
|    | Vertical track L = 6,200 mm  | 5,000 < H          | HSD 1104     |                 |   |
| 59 | Black cable tie 9,650 mm   |                    | KCC 9-650    | 8               | photocell cable fixation                          |
| 60 | Spring   | H <= 4,000         | - 460 0100   | every<br>250 mm |   |
| 00 | Spring   | H > 4,000          | 1130 2122    | every<br>250 mm |   |
| 61 | PHOTOCELL-N photocells,<br>operating range up to 20 m<br>(DoorHan) |                    | PHOTOCELL- N | 2               |   |
| 62 | Flat galvanized washer D = 6.0 mm                                  | H <= 4,000         | - DHM0309    | every<br>250 mm |   |
|    | Fiat galvanized washer D = 6.0 mm                                  | H > 4,000          | DHM0309      | every<br>250 mm |   |

NOTES

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![](_page_47_Picture_0.jpeg)

We thank you for purchasing the DoorHan product. We hope that you will be satisfied with its quality.

For acquisition, distribution and maintenance please contact your local DoorHan representative or the central office at:

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