Hilti S-MD Self-drilling Screw (Stainless steel)

Product Information
- S-MD 03S (A2 stainless steel)
- S-MD 03SS (A4 stainless steel)
- ST 1800 Metal construction screwdriver

Technical Manual
- Hilti S-MD screw features
- Mobile tool ST1800
- Selection of the right screw

Country of Origin

Job Reference

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S-MD self-drilling screw, without washer

Applications
- Fastening steel sections and sheet steel to steel framing

Advantages
- Fast and robust drill tip featuring Racing Tip technology

Applications
- Fastening steel sections and sheet steel to steel framing

Advantages
- Fast and robust drill tip featuring Racing Tip technology

A2 stainless steel version, with hardened carbon steel drill point

Ordering designation | Drilling capacity range (DC) | Thickness fastened range (MF) | Screw diameter (d) | Screw length (L) | Head size (SW) | Sales pack quantity | Item number
---|---|---|---|---|---|---|---
S-MD03S 5.5x25 | 2.1 - 6 mm | 2.1 - 10 mm | 5.5 mm | 25 mm | 8 | 500 pc | 413408

Please visit Hilti website for the latest item numbers and related products

A4 stainless steel version, with hardened carbon steel drill point

Ordering designation | Drilling capacity range (DC) | Thickness fastened range (MF) | Screw diameter (d) | Screw length (L) | Head size (SW) | Sales pack quantity | Item number
---|---|---|---|---|---|---|---
S-MD 03 SS 5.5x25 | 2.1 - 6 mm | 2.1 - 10 mm | 5.5 mm | 25 mm | AF8 | 500 pc | 2114790

Please visit Hilti website for the latest item numbers and related products
Cordless metal construction screwdriver ST 1800-A22

Applications
- Driving self-drilling and self-tapping screws in various materials including steel, aluminium and wood
- Fastening profile metal sheets
- Fastening sandwich panels
- Fastening liner trays
- Screwing steel or aluminium profiles together
- Driving collated screws at side laps

Technical data
- No-load speed - range: 0 - 2000 rpm
- Max. torque: 12 Nm
- Dimensions (LxWxH): 252 x 94 x 268 mm
- Weight: 2.5 kg
- Control switch lock: Yes
- Chuck type: Quick-release chuck 1/4 in
- Reversing switch: Yes
- Spindle lock: Yes

Advantages
- High-performance cordless screwdriver with the features of a corded tool, specially designed for metal construction work
- Compact and well-balanced design with practical and comfortable in-line grip
- Built-in torque clutch and depth gauge for driving self-drilling screws (torque-controlled and depth-controlled driving)
- Perfectly matched power and speed for maximum productivity in steel and metal screwdriving applications
- Higher cordless productivity and greater working comfort with the SDT30 stand-up tool and ST-SG screw guide
- Batteries are compatible with other tools in the Hilti 22V Li-ion cordless system

Ordering designation | Package contents | Sales pack quantity | Item number
--- | --- | --- | ---
ST 1800-A22 case | 1x Cordl. metal screwdr. ST 1800-A22, 1x Socket wrench insert S-NSD 8, 1x Cap, 1x Case | 1 pc | 437867

Please visit Hilti website for the latest item numbers and related products
Metal construction screwdriver ST 1800

Applications
- Sheet metal to sheet metal
- Sheet metal on steel or aluminum substructures
- Trapezoidal profile sheets on liner trays

Advantages
- Universal screwdriver for a wide range of applications in metal construction
- The torque clutch prevents over-driving or screw head breakage
- Depth gauge function for controlled compression of the sealing washer and thus optimum sealing

Technical data

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
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<tbody>
<tr>
<td>Mains frequency</td>
<td>50/60 Hz</td>
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<td>No-load speed - range</td>
<td>0 - 1900 rpm</td>
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<tr>
<td>Max. torque</td>
<td>22 Nm</td>
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<tr>
<td>Dimensions (LxWxH)</td>
<td>308 x 72 x 265 mm</td>
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<td>Weight</td>
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<td>Control switch lock</td>
<td>Yes</td>
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<tr>
<td>Chuck type</td>
<td>Quick-release chuck 1/4 in</td>
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<tr>
<td>Reversing switch</td>
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Ordering designation | Package contents | Sales pack quantity | Item number |
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Please visit Hilti website for the latest item numbers and related products.

Lifetime Service  Fleet Management
## Accessories for Metal screwdrivers

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Please visit Hilti website for the latest item numbers and related products

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Hilti online: www.hilti.com.hk
2.2 Make reliable, high-speed screw fastenings without tip failure, even in high-strength steel

Hilti screw fastening technology sets new standards because, on the one hand, virtually no drill point failure occurs even in high-strength steel with a thickness of up to 15 mm and, on the other, because sealing washers are always perfectly and reliably compressed even when the screws are driven at high speed.

We offer an immediate solution for all of your screw fastening applications where a drilling capacity of greater than 3 mm is required.

„PS” sealing through customized below-head geometry

The sealing washers at screws on decking, siding and facades are often over compressed. Excessive pressure between the screw head and the sheets fastened causes fine cracks to occur in the EPDM sealing washer. This leads to leakage through the outer skin of the building at the fastening point and thus to an increase in the amount of subsequent remedial work required. The innovative and patented “PS” feature incorporated in all Hilti self-drilling screws with a drilling capacity of more than 3 mm provides a simple solution to the problem of over compression. Hilti screws with this new feature can be identified by the “PS” logo on the package.

The Hilti „RT“-drill point for fast, reliable screwdriving characteristics

Burned out or broken drill points are not only a thorn in the side of the user. The remedial work required is costly and time-consuming. Thanks to the new, patented, RT wave-form cutting edge, burned out drill points become a thing of the past, even in high-strength S355 steel. Rapid removal of the drilling chips allows the screw to penetrate the base material more quickly and prevents point burn-out in materials with a thickness of up to 15 mm. All screws featuring the new technology carry the “RT” logo on the package.
With the power of a corded tool, the new Hilti ST 1800-A22 cordless metal construction screwdriver makes light work of the toughest jobs, even on thick, solid steel beams. With Hilti’s comprehensive range of screws and matching accessories it forms an unrivalled cordless system that’s unique in this field. Go mobile and raise your productivity – with the Hilti Screw Fastening System and this outstanding cordless tool from the Hilti 22 volt range.

With the power of a corded tool, the ST 1800-A22 makes light work of the toughest jobs

Ideal for driving screws in sheet metal or aluminium structures and for fastening profile metal sheets to steel or timber supports, the red dot design award-winning ST 1800-A22 brings mobile power to decking and siding work. Thanks also to the Hilti ST-SG screw guide, sandwich panel screws can now be driven more efficiently and reliably than ever before. Developed specially for this application and single-hand use, the ST-SG screw guide enables you to drive long sandwich panel screws with ease, accuracy and without scratching or denting the sensitive panel surface.

Compact and perfectly balanced
The tool’s comfortable in-line grip allows optimum power transmission and a relaxed hand position.

Extremely cost-efficient
The SDT 5 helps you increase your output by up to 300%. It lets you work cordlessly while maintaining a comfortable, upright stance.

Optimum screw guidance
The practical ST-SG screw guide lets you drive sandwich panel screws accurately with one hand and without denting the panels.
3.1 Selection of the right screw

Selection of the right screw depends on a number of factors determined by the application and the circumstances or conditions under which the screw is to be used. If the application is known, the Hilti screw designation system provides a quick and reliable screw selection aid.

| S | M | D | 6 | 3 | S | 5.5x40 |

To quickly find the most suitable product for the specific application on hand, simply ask yourself the following questions.

1. Which type of Hilti fastener do you wish to use?
   S: Screw

2. Which material is to be fastened?
   M: Metal
   C: Sandwich panel
   W: Wood
   I: Insulation
   A: Aluminium

3. Do you wish to use a self-tapping, self-drilling or pointed self-piercing (chipless) screw?
   S: Pointed, self-piercing (Speedy function)
   D: Self-drilling
   DU: Self-drilling undercut
   DW: Self-drilling wood
   P: Pre-drilling (self-tapping)
   T: Treadfast
   DP: Plastic plug pre-mounted screw

4. Is a sealing washer or a pressed-on washer required?
   0: No sealing washer
   1: Countersunk head
   2: Pressed-on flange
   3: 12 mm sealing washer
   4: 14 mm sealing washer
   5: 16 mm sealing washer
   6: 19 mm sealing washer
   7: 22 mm sealing washer
   8: 29 mm sealing washer

Example: S-M 5.5x40
Example: Self-drilling
Example: 19 mm sealing washer
5. How thick is the material to be drilled through by the screw?

**S-MS stitching screw**
1: Drilling capacity 2 x 0.4 mm up to 2 x 1.25 mm

**Self-drilling screw**
1: Drilling capacity 1.0 up to 4.0 mm
3: Drilling capacity 2.1 up to 6.0 mm
5: Drilling capacity 4.6 up to 15.0 mm

**Self-tapping screw**
2: Blunt thread run-out >1.25 mm steel substructure
3: Pointed thread run-out <3 mm steel substructure
   Timber substructure
4: Blunt, hardened thread run-out, suitable for S355/ST52 high strength steel > 1.25 mm steel substructure

### Example: Drilling capacity 5 mm
S-MD 63

6. Which type of corrosion protection and head geometry are required.

**Material:**
Z: Galvanized carbon steel
C: Duplex coated carbon steel
S: A2 grade stainless steel
SS: A4 grade stainless steel
S-A: A2 with alu washer
SS-A: A4 with alu washer

### Example: Stainless steel
S-MD 63 S

**Head geometry:**
PS: Pan head, stainless steel
PS-A: Pan head with alu washer
LS: Long drill point / A2 Drilling capacity 1.0 to approx. 4.0 mm
LZ: Long drill point / galvanized carbon steel Drilling capacity 1.0 to approx. 4.0 mm
ZW: Wafer head, galvanized
GZ: Coarse thread galvanized
GS: Coarse thread stainless

### Example: 5.5 mm diameter length 55 mm
S-MD 63 S 5.5x40

7. Dimensions and screw diameter

**Screw diameter:**
3.8 / 4.2 mm / 4.8 mm / 5.5 mm / 6.3 mm / 6.5 mm

**Screw length:**
13 mm – 102 mm S-MD screws
75 mm – 300 mm S-CD screws
19 mm – 275 mm S-MP screws
### 3.2 Screw type

<p>| | | | | |</p>
<table>
<thead>
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<td><img src="image4.png" alt="Image" /></td>
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<td>S-CD_3/5</td>
<td>S-AD 01</td>
<td>S-IDP_4.8/6.7</td>
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<td>S-MS_1</td>
<td>S-MP_2</td>
<td>S-MP_4</td>
<td>S-MP_3</td>
<td>S-IT_1</td>
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### 3.3 Screw head & recess

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<td><img src="image8.png" alt="Image" /></td>
<td><img src="image9.png" alt="Image" /></td>
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<tr>
<td>Hexagon head</td>
<td>Hexagon head with pressed-on flange</td>
<td>Hexagon head with sealing washer</td>
<td>Hexagon head with sealing washer and supporting thread</td>
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<td></td>
</tr>
<tr>
<td>Pan head</td>
<td>Pan head with sealing washer</td>
<td>Wafer head</td>
<td>Countersunk head</td>
<td></td>
</tr>
</tbody>
</table>
3.4 Determining the screw length

All values from this manual need to be verified with actual jobsite situation and adapted if additional distances e.g. gaps occur on site.

3.4.1 Definition of the screw length (L)

The screw length is measured from the start of the screw (drill point) to below the screw head. However, the screw length alone says nothing about the screw’s clamping area.

The screw length is selected depending on
• the thickness of the base material,
• the thickness of the building component to be fastened,
• the thickness of possible intermediate layers such as thermal separation, and
• additional building components such as calottes.

It must also be noted that when determining the screw length, the drill point, thread cut and (if necessary, in the case of bi-metal screws) the welding zone must be taken into account.

3.4.2 Definition of the drilling performance (DC)

The drilling performance is the sum of the building component thicknesses, consisting of building component I and building component II, which can be drilled through by the drill point. The length of the drill point must always be selected such that the total material thickness is completely drilled through before the thread starts to mold.

3.4.3 Calculating the fastening height (MF)

The fastening height MF (clamping area) is understood to mean the total height, consisting of:
+ the thickness of building component I
+ the thickness of possible intermediate layers, such as thermal separation
+ the thickness of additional building components, such as calottes
+ the embedment depth in building component II (steel)

Note: in wood embedment is not part of MF

The embedment depth in building component II depends on the base material thickness and the base material itself. It is calculated as follows:
• Sheet metal or steel < 6 mm ➔ embedment depth = existing material thickness
• Steel ≥ 6 mm ➔ Self-tapping screws: embedment depth = 6 mm ➔ Self-drilling screws: embedment depth = existing material thickness
• Wood ➔ embedment depth ≥ 22 mm

Special features:
• Sandwich elements fastened with S-CD screws: The fastening height (MF) or clamping length is only specified with the maximum sandwich element thickness that is relevant to the fastening.
• Calottes: If using calottes, 3 mm must be taken into account when calculating the fastening height (MF).

The fastening height (MF) is not included in the screw approvals. For this, please refer to the Hilti technical manual for metal construction screws for use in roofs/walls.
## 3.6 Hilti Screw Nomenclature

The easy way to find the right screw

<table>
<thead>
<tr>
<th>S</th>
<th>M</th>
<th>D</th>
<th>5</th>
<th>3</th>
<th>Z</th>
<th>5,5x25</th>
<th>M</th>
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### Screw Fastening

- Application
  - M: Metall
  - C: Composite/Sandwich
  - W: Wood
  - I: Insulation
  - A: Aluminium

- Function
  - S: Speedy function
  - D: Self-drilling
  - DU: Self-drilling undercut
  - DW: Self-drilling wood
  - P: Pre-drilling
  - T: Treadfast
  - DP: Plastic plug pre-mounted screw

- Information about washers
  - 0: No washer
  - 1: Countersunk head
  - 2: Pressed on flange
  - 3: Washer 12 mm
  - 4: Washer 14 mm
  - 5: Washer 16 mm
  - 6: Washer 19 mm
  - 7: Washer 22 mm
  - 8: Washer 29 mm

- Dimensions
  - Thread Diameter x Length

- Further Information
  - M: Collated
  - RAL: Color Code

### Material
- Z: Galvanized
- C: Duplex coated
- S: Stainless (A2)
- SS: Stainless (A4)
- S-A: A2 with alu
- SS-A: A4 with alu

### Add on
- PS: Pan head / Stainless
- PS-A: Pan head / Alu
- LS: Long point / Stainless
- LZ: Long point / galvanized
- ZW: Wafer head / galvanized
- GZ: Coarse thread galvanized
- GS: Coarse thread stainless

### Information about the screw point

#### Self-piercing (S-MS)
- 1: Drilling capacity 2 x 0.4 mm – 2 x 1.25 mm

#### Self-drilling screw (S-MD / S-CD)
- 1: Drilling capacity 1.0 – 4.0 mm
- 3: Drilling capacity 2.1 – 6.0 mm
- 5: Drilling capacity 4.6 – 15.0 mm

#### Self-tapping screw (S-MP)
- 2: >1.25 mm steel base material
- 3: <3.00 mm steel base material and wood base material
- 4: >1.25 mm steel base material, in high strength
**S-MD 03S/SS 5.5xL**  
**stainless steel self-drilling screw**

### Load data

**Design data**

**Drilling capacity \( \Sigma t \)**  
max. 6.0 mm

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<th>Component II steel with ( t_i ) [mm]</th>
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<td>S280GD or S320GD (DIN EN 10326)</td>
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<table>
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<tr>
<th>Component I steel with ( t_i ) [mm]</th>
<th>Shear force ( V_{Rk} ) [kN]</th>
<th>Tensile force ( N_{Rk} ) [kN]</th>
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<td>0.63</td>
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<td>1.00</td>
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Safety factors according to EN 1993-1-3 and CUAP 06.02/07

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<tr>
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<td>Partial safety factor</td>
<td>( Y_M = 1.33 )</td>
<td>( Y_M = 1.33 )</td>
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<tr>
<td>Influence of cyclic loading</td>
<td>( \alpha_{cyclic} = 1.0 )</td>
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<tr>
<td>Design load</td>
<td>( N_{Rd} = 1.0 \cdot N_{Rk} / 1.33 )</td>
<td>( V_{Rd} = V_{Rk} / 1.33 )</td>
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**Global safety concept**

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<th>( Y_{GLOB} = 2.0 )</th>
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*Note: The global safety factor of 2.0 includes a partial safety factor of \( \gamma_l = 1.5 \) for wind load. For other loads safety factors should be applied in accordance with the appropriate standards.*
Attn. : To whom it may concern

Date : 20 Nov 2016
Ref. : 143/MA/FL/16

Subject : Country of Origin - Hilti S-MD Self-drilling Screw

Dear Sir / Madam,

Enclosed please find the information of Hilti S-MD self-drilling screw.

Brand Name : Hilti
Model Name : Hilti Self-drilling screw
Manufacturer : Hilti Corporation
Address of Manufacturer : FL-9494, Principality of Liechtenstein.
Supplier : Hilti (Hong Kong) Ltd
Address of Supplier : 701-704, 7/F, Tower A, Manulife Financial Centre, 223 Wai Yip Street, Kwun Tong, Hong Kong
Country of Origin : Taiwan

Should you have further question, please do not hesitate to contact our Technical Representatives or Customer Service Hotline at 8228-8118.

Yours faithfully,

Fean Lee
Product Manager
Hilti (Hong Kong) Ltd.
<table>
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<th>Date</th>
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<th>Contractor</th>
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<td>2015</td>
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<td>MTR-SCL</td>
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<td>MTR-SIL</td>
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