

## FABORY-SPEDEC Selfdrilling screws

### General

With the FABORY-SPEDEC fastening system of DIRECT ASSEMBLY the correct core hole is drilled, the thread is tapped, and the construction parts are connected reliably in one single operation. Thus no drilling or punching of the hole and no thread tapping.

### Material

The FABORY-SPEDEC self-drilling screws are made of case-hardened steel (min. 560 HV 0.3), with the core remains tough (270-425 HV 0.3). FABORY-SPEDEC self-drilling screws meet the sizes, requirements and tests acc. to DIN 7504.

### System

Every FABORY-SPEDEC self-drilling screw drills the hole with its own integrated self-drilling point. Thus quicker and lighter assembly and no time consuming alignment and positioning of construction parts.

### Recess

FABORY-SPEDEC self-drilling screws are provided with a PHILLIPS recess, hexalobular recess or SR recess, thus equipped for mechanized mass-assembly with electrical setting tools.

### Standards

FABORY-SPEDEC self-drilling screw head forms and dimensions are according to DIN standards of normal screws.

### Threads

FABORY-SPEDEC self-drilling screws with self-tapping threads (designation ST) according to DIN 7970. Full thread to achieve good clamping in the joint.

### Application

Stainless steel A2 FABORY-SPEDEC self-drilling screws are only to be used in aluminium alloys with a Brinell hardness up to 75 HB, aluminium self-drilling screws are only to be used in plastics and aluminium alloys.

Guide values for STEEL FABORY-SPEDEC self-drilling screws type SN

d		ST2,9	ST3,5	ST3,9	ST4,2	ST4,8	ST5,5	ST6,3
Tensile force min. in N		4400	6300	8000	8300	12000	14000	21000
Shear strength min. in N		2100	3700	3600	4100	6800	9000	13300
Breaking torque in Nm		2	3,7	4,5	5,1	9,2	14,5	23
Drillcapacity in steel cross members (St 37/52) incl. intervening space	(min.)	0,5	1	1	1,75	2,75	2,75	2,75
	(max.)	2	2	2,5	3,5/3	5/4	6	6
Drilling machine (unloaded)	r.p.m.	3500	3500	3500	3500	3500	2900	2900
	output watt	340-400	340-400	340-400	340-400	340-400	400-700	400-700
Av. drilling time in St 37	approx. sec.	3,5	4	5,7	4,1	3,6	6,9	13

### Recess types

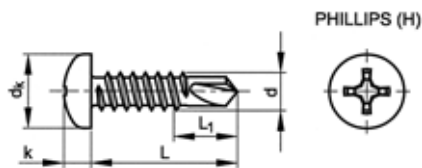
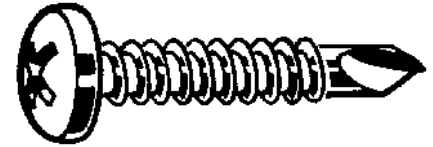
Screws have various types of recess, i.e.: slotted recess, Phillips-cross recess, Pozidriv-cross recess, hexalobular recess and **SR-recess**.

The first five types have one general disadvantage, dimensional deviation of the recess and tool result in excessive clearance between recess and tool, resulting in instability when starting the screw, (vibration and wobble). This excessive clearance can also be a problem when disassembling screws in a difficult location.

### SR-recess

The SR-recess has been developed to eliminate the problem of excessive clearance. The **SR-recess** is in principle a combination of a square-recess and cross-recess. The conical square-recess enables the SR-screw to be attached directly to the SR-tool. The screw, despite its own mass, remains firmly attached to the tool. The excellent connection ensures that wear between the recess and tool (bit) is kept to a minimum. The life expectancy of a SR-tool (bit) is **double** the life of a conventional tool.

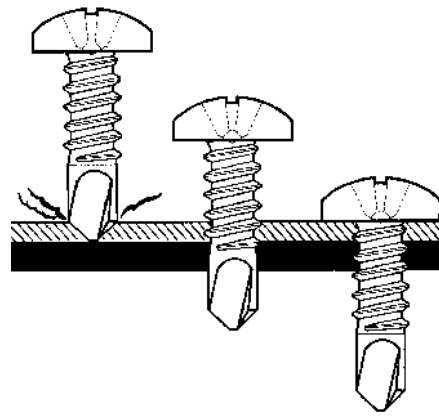
## Self-drilling cross recessed pan head screw


 ISO 15481  
 DIN 7504 M


### Technical data

	ST2,9	ST3,5	ST3,9	ST4,2	ST4,8
d					
P	1,1	1,3	1,4	1,4	1,6
dk	5,6	6,9	7,5	8,2	9,5
k	2,2	2,6	2,8	3,05	3,55
L <sub>1</sub> ≈	4,5	5	6	7	8
No. cross recess	1	2	2	2	2

- Max. grip length KL = L - L<sub>1</sub>.



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### Article groups

Thread	Driving features	Material	Surface treatment	Packaging	Code	Page
ST	Phillips	St	Zipl	Large	31250	6-104
ST	Phillips	St	Zipl	Standard	31255	6-105
ST	Phillips	St.St. A2		Standard	31120	6-105
ST	Phillips	St	Zipl	Standard	31825	6-105
ST	Phillips	St	Zipl	Large	31820	6-105
ST	Phillips	St.St. A2		Standard	31870	6-106

### 31250 SPEDEC SN Self-drilling cross recessed pan head screw Phillips

J09A

**Thread** Self tapping thread  
**Material** Steel  
**Surface treatment** Zinc plated  
**Packaging** Large  
**DIN 7504 M-H**



d x L	☒	Art.number	d x L	☒	Art.number	d x L	☒	Art.number
ST2,9X9,5MM	1000	<a href="#">31250.029.009</a>	ST3,9X25MM	1000	<a href="#">31250.039.025</a>	ST4,8X13MM	1000	<a href="#">31250.048.013</a>
ST3,5X9,5MM	1000	<a href="#">31250.035.009</a>	ST3,9X32MM	1000	<a href="#">31250.039.032</a>	ST4,8X16MM	1000	<a href="#">31250.048.016</a>
ST3,5X13MM	1000	<a href="#">31250.035.013</a>				ST4,8X19MM	1000	<a href="#">31250.048.019</a>
ST3,5X16MM	1000	<a href="#">31250.035.016</a>	ST4,2X13MM	1000	<a href="#">31250.042.013</a>	ST4,8X22MM	1000	<a href="#">31250.048.022</a>
ST3,5X19MM	1000	<a href="#">31250.035.019</a>	ST4,2X16MM	1000	<a href="#">31250.042.016</a>	ST4,8X25MM	1000	<a href="#">31250.048.025</a>
ST3,5X25MM	1000	<a href="#">31250.035.025</a>	ST4,2X19MM	1000	<a href="#">31250.042.019</a>	ST4,8X32MM	1000	<a href="#">31250.048.032</a>
			ST4,2X22MM	1000	<a href="#">31250.042.022</a>	ST4,8X38MM	500	<a href="#">31250.048.038</a>
ST3,9X13MM	1000	<a href="#">31250.039.013</a>	ST4,2X25MM	1000	<a href="#">31250.042.025</a>	ST4,8X50MM	500	<a href="#">31250.048.050</a>
ST3,9X16MM	1000	<a href="#">31250.039.016</a>	ST4,2X32MM	1000	<a href="#">31250.042.032</a>			
ST3,9X19MM	1000	<a href="#">31250.039.019</a>						

- Warning: electro-galvanizing of these products may cause hydrogen embrittlement.

<b>31255</b>	<b>SPEDEC SN Self-drilling cross recessed pan head screw Phillips</b>	<b>J09A</b>
<b>Thread</b>	Self tapping thread	
<b>Material</b>	Steel	
<b>Surface treatment</b>	Zinc plated	
<b>Packaging</b>	Standard DIN 7504 M-H	

d x L	☒	Art.number	d x L	☒	Art.number	d x L	☒	Art.number	
ST3,5X9,5MM	200	<a href="#">31255.035.009</a>	ST3,9X19MM	200	<a href="#">31255.039.019</a>	ST4,8X13MM	200	<a href="#">31255.048.013</a>	
ST3,5X13MM	200	<a href="#">31255.035.013</a>	ST4,2X13MM	200	<a href="#">31255.042.013</a>		ST4,8X16MM	200	<a href="#">31255.048.016</a>
ST3,5X16MM	200	<a href="#">31255.035.016</a>	ST4,2X16MM	200	<a href="#">31255.042.016</a>		ST4,8X19MM	200	<a href="#">31255.048.019</a>
ST3,5X19MM	200	<a href="#">31255.035.019</a>	ST4,2X19MM	200	<a href="#">31255.042.019</a>				
ST3,5X25MM	200	<a href="#">31255.035.025</a>	ST4,2X25MM	200	<a href="#">31255.042.025</a>				
ST3,9X16MM	200	<a href="#">31255.039.016</a>	ST4,2X32MM	200	<a href="#">31255.042.032</a>				

• Warning: electro-galvanizing of these products may cause hydrogen embrittlement.

<b>31120</b>	<b>SPEDEC SN Self-drilling cross recessed pan head screw Phillips</b>	<b>J09A</b>
<b>Thread</b>	Self tapping thread	
<b>Material</b>	Stainless steel A2	
<b>Packaging</b>	Standard DIN 7504 M-H	

d x L	☒	Art.number	d x L	☒	Art.number	d x L	☒	Art.number
ST2,9X13MM	1000	<a href="#">31120.029.013</a>	ST3,9X25MM	1000	<a href="#">31120.039.025</a>	ST4,8X16MM	1000	<a href="#">31120.048.016</a>
ST3,5X9,5MM	1000	<a href="#">31120.035.009</a>	ST4,2X13MM	1000	<a href="#">31120.042.013</a>		ST4,8X22MM	1000
ST3,5X13MM	1000	<a href="#">31120.035.013</a>	ST4,2X16MM	1000	<a href="#">31120.042.016</a>			
ST3,5X19MM	1000	<a href="#">31120.035.019</a>	ST4,2X19MM	1000	<a href="#">31120.042.019</a>			
ST3,9X16MM	1000	<a href="#">31120.039.016</a>	ST4,2X25MM	1000	<a href="#">31120.042.025</a>			

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<b>31825</b>	<b>Self-drilling cross recessed pan head screw</b>	<b>J09B</b>
<b>Thread</b>	Self tapping thread	
<b>Material</b>	Steel	
<b>Surface treatment</b>	Zinc plated	
<b>Packaging</b>	Standard DIN 7504 M-H	

d x L	☒	Art.number	d x L	☒	Art.number	d x L	☒	Art.number
ST3,5X9,5MM	1000	<a href="#">31825.035.009</a>	ST4,2X16MM	1000	<a href="#">31825.042.016</a>	ST4,8X19MM	1000	<a href="#">31825.048.019</a>
ST3,5X13MM	1000	<a href="#">31825.035.013</a>	ST4,2X19MM	1000	<a href="#">31825.042.019</a>		ST4,8X22MM	1000
ST3,5X16MM	1000	<a href="#">31825.035.016</a>	ST4,2X25MM	1000	<a href="#">31825.042.025</a>	ST4,8X25MM	1000	<a href="#">31825.048.025</a>
ST3,5X19MM	1000	<a href="#">31825.035.019</a>						
ST4,2X13MM	1000	<a href="#">31825.042.013</a>	ST4,8X13MM	1000	<a href="#">31825.048.013</a>			
			ST4,8X16MM	1000	<a href="#">31825.048.016</a>			

• Warning: electro-galvanizing of these products may cause hydrogen embrittlement.

<b>31820</b>	<b>Self-drilling cross recessed pan head screw</b>	<b>J09B</b>
<b>Thread</b>	Self tapping thread	
<b>Material</b>	Steel	
<b>Surface treatment</b>	Zinc plated	
<b>Packaging</b>	Large DIN 7504 M-H	

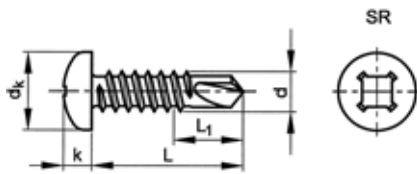
d x L	☒	Art.number	d x L	☒	Art.number	d x L	☒	Art.number
ST3,5X9,5MM	2000	<a href="#">31820.035.009</a>	ST3,9X19MM	2000	<a href="#">31820.039.019</a>	ST4,8X13MM	2000	<a href="#">31820.048.013</a>
ST3,5X13MM	2000	<a href="#">31820.035.013</a>	ST4,2X13MM	2000	<a href="#">31820.042.013</a>		ST4,8X16MM	2000
ST3,5X16MM	2000	<a href="#">31820.035.016</a>	ST4,2X16MM	2000	<a href="#">31820.042.016</a>	ST4,8X19MM	2000	<a href="#">31820.048.019</a>
ST3,5X19MM	2000	<a href="#">31820.035.019</a>	ST4,2X19MM	2000	<a href="#">31820.042.019</a>	ST4,8X25MM	2000	<a href="#">31820.048.025</a>
ST3,5X25MM	2000	<a href="#">31820.035.025</a>	ST4,2X25MM	2000	<a href="#">31820.042.025</a>			
ST3,9X16MM	2000	<a href="#">31820.039.016</a>	ST4,2X32MM	2000	<a href="#">31820.042.032</a>			

• Warning: electro-galvanizing of these products may cause hydrogen embrittlement.

<b>31870</b>	<b>Self-drilling cross recessed pan head screw</b>	<b>J09B</b>
<b>Thread</b>	Self tapping thread	
<b>Material</b>	Stainless steel A2	
<b>Packaging</b>	Standard DIN 7504 M-H	

d x L	☒	Art.number	d x L	☒	Art.number	d x L	☒	Art.number
ST3,5X9,5MM	2000	<a href="#">31870.035.009</a>	ST3,9X25MM	2000	<a href="#">31870.039.025</a>	ST4,2X25MM	2000	<a href="#">31870.042.025</a>
ST3,5X13MM	2000	<a href="#">31870.035.013</a>	ST4,2X13MM	2000	<a href="#">31870.042.013</a>	ST4,8X16MM	2000	<a href="#">31870.048.016</a>
ST3,5X19MM	2000	<a href="#">31870.035.019</a>	ST4,2X16MM	2000	<a href="#">31870.042.016</a>	ST4,8X22MM	2000	<a href="#">31870.048.022</a>
ST3,9X16MM	2000	<a href="#">31870.039.016</a>	ST4,2X19MM	2000	<a href="#">31870.042.019</a>			

**Self-drilling pan head screw with SR-recess**



ISO ≈15481  
DIN ≈7504 M



**Technical data**

	ST3,5	ST3,9	ST4,2	ST4,8
d				
P	1,3	1,4	1,4	1,6
dk	7	7,5	8	9,5
k	2,6	2,95	3,25	3,7
L <sub>1</sub> ≈	5	6	7	8
No. SR	1	2	2	2

- SR-recess is a cross recess/square recess combination. Assembly with the electric setting tool DI 320 and with SR screwdriver bits, see group codes 31535 and 31640.
- Max. grip length KL = L – L<sub>1</sub>.
- Warning: electro-galvanizing of these products may cause hydrogen embrittlement.



**31480 SPEDEC SN Self-drilling pan head screw with SR-recess**

J08A

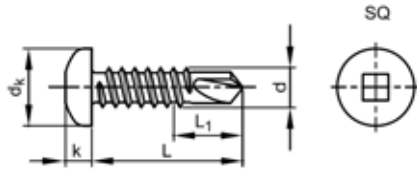
**Thread** Self tapping thread  
**Material** Steel  
**Surface treatment** Zinc plated  
**Packaging** Standard



d x L	☒	Art.number	d x L	☒	Art.number	d x L	☒	Art.number
ST3,5X13MM	1000	<a href="#">31480.035.013</a>	ST3,9X25MM	1000	<a href="#">31480.039.025</a>	ST4,8X13MM	1000	<a href="#">31480.048.013</a>
ST3,5X16MM	1000	<a href="#">31480.035.016</a>				ST4,8X16MM	1000	<a href="#">31480.048.016</a>
ST3,5X19MM	1000	<a href="#">31480.035.019</a>	ST4,2X13MM	1000	<a href="#">31480.042.013</a>	ST4,8X19MM	1000	<a href="#">31480.048.019</a>
ST3,5X25MM	1000	<a href="#">31480.035.025</a>	ST4,2X16MM	1000	<a href="#">31480.042.016</a>	ST4,8X25MM	1000	<a href="#">31480.048.025</a>
			ST4,2X19MM	1000	<a href="#">31480.042.019</a>	ST4,8X32MM	1000	<a href="#">31480.048.032</a>
ST3,9X13MM	1000	<a href="#">31480.039.013</a>	ST4,2X25MM	1000	<a href="#">31480.042.025</a>	ST4,8X38MM	1000	<a href="#">31480.048.038</a>
ST3,9X16MM	1000	<a href="#">31480.039.016</a>	ST4,2X32MM	1000	<a href="#">31480.042.032</a>			
ST3,9X19MM	1000	<a href="#">31480.039.019</a>						

## Self-drilling pan head screw with square socket

ISO ≈15481  
 DIN ≈7504 M



### Technical data

	ST3,5	ST4,2	ST4,8
d			
P	1,3	1,4	1,6
dk	6,7	7,9	9,3
k	2,6	3,25	3,7
L <sub>1</sub> ≈	2	3	4
No. Square	1	2	2

### 26820 Self-drilling pan head screw with square socket

J61A

**Thread** Self tapping thread  
**Material** Steel  
**Surface treatment** Zinc plated  
**Packaging** Standard



d x L	☒	Art.number	d x L	☒	Art.number	d x L	☒	Art.number
3,5X9,5MM	200	<a href="#">26820.035.009</a>	4,2X13MM	200	<a href="#">26820.042.013</a>	4,2X32MM	200	<a href="#">26820.042.032</a>
3,5X13MM	200	<a href="#">26820.035.013</a>	4,2X19MM	200	<a href="#">26820.042.019</a>			
			4,2X25MM	200	<a href="#">26820.042.025</a>	4,8X16MM	200	<a href="#">26820.048.016</a>

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## Square screwdriver bit



### 26828 Square screwdriver bit

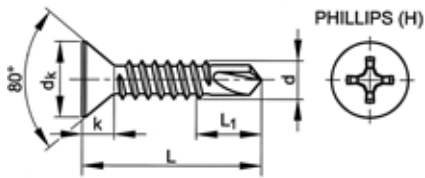
J61A

**Material** Steel  
**Packaging** Standard



Size	☒	Art.number	Size	☒	Art.number	Size	☒	Art.number
1 - 3,5MM	1	<a href="#">26828.035.001</a>						
2 - 4,2MM	1	<a href="#">26828.042.001</a>						

## Self-drilling cross recessed countersunk head screw



ISO 15482  
 DIN 7504 O-H



### Technical data

d	P	dk	L <sub>1</sub> ≈	No. cross recess
ST3,5	1,3	6,8	5	2
ST3,9	1,4	7,5	6	2
ST4,2	1,4	8,1	7	2
ST4,8	1,6	9,5	8	2
ST5,5	1,8	10,8	10	3
ST6,3	1,8	12,4	11	3

- Max. grip length KL = L - L<sub>1</sub>.

### Article groups


Thread	Driving features	Material	Surface treatment	Packaging	Code	Page
ST	Phillips	St	Zipl	Standard	31256	6-109
ST	Phillips	St	Zipl	Large	31260	6-109
ST	Phillips	St	Zipl	Standard	31830	6-110
ST	Phillips	St.St. A2		Standard	31140	6-110
ST	Phillips	St.St. A2		Standard	31880	6-110

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<b>31256 SPEDEC SN Self-drilling cross recessed countersunk head screw Phillips</b>						<b>J09A</b>
<b>Thread</b>	Self tapping thread					
<b>Material</b>	Steel					
<b>Surface treatment</b>	Zinc plated					
<b>Packaging</b>	Standard					

d x L	☒	Art.number	d x L	☒	Art.number	d x L	☒	Art.number
ST3,5X13MM	200	<a href="#">31256.035.013</a>						
ST4,2X19MM	200	<a href="#">31256.042.019</a>	ST4,8X32MM	200	<a href="#">31256.048.032</a>			
ST4,2X32MM	200	<a href="#">31256.042.032</a>	ST4,8X38MM	200	<a href="#">31256.048.038</a>			

- Warning: electro-galvanizing of these products may cause hydrogen embrittlement.

<b>31260 SPEDEC SN Self-drilling cross recessed countersunk head screw Phillips</b>						<b>J09A</b>
<b>Thread</b>	Self tapping thread					
<b>Material</b>	Steel					
<b>Surface treatment</b>	Zinc plated					
<b>Packaging</b>	Large					


d x L	☒	Art.number	d x L	☒	Art.number	d x L	☒	Art.number
ST3,5X13MM	1000	<a href="#">31260.035.013</a>	ST3,9X32MM	1000	<a href="#">31260.039.032</a>	ST4,8X38MM	500	<a href="#">31260.048.038</a>
ST3,5X16MM	1000	<a href="#">31260.035.016</a>				ST4,8X45MM	500	<a href="#">31260.048.045</a>
ST3,5X19MM	1000	<a href="#">31260.035.019</a>	ST4,2X16MM	1000	<a href="#">31260.042.016</a>	ST4,8X50MM	500	<a href="#">31260.048.050</a>
ST3,5X25MM	1000	<a href="#">31260.035.025</a>	ST4,2X19MM	1000	<a href="#">31260.042.019</a>			
			ST4,2X22MM	1000	<a href="#">31260.042.022</a>	ST5,5X32MM	500	<a href="#">31260.055.032</a>
ST3,9X13MM	1000	<a href="#">31260.039.013</a>	ST4,2X25MM	1000	<a href="#">31260.042.025</a>	ST6,3X45MM	500	<a href="#">31260.063.045</a>
ST3,9X16MM	1000	<a href="#">31260.039.016</a>	ST4,2X32MM	1000	<a href="#">31260.042.032</a>	ST6,3X50MM	500	<a href="#">31260.063.050</a>
ST3,9X19MM	1000	<a href="#">31260.039.019</a>				ST6,3X55MM	500	<a href="#">31260.063.055</a>
ST3,9X22MM	1000	<a href="#">31260.039.022</a>	ST4,8X25MM	1000	<a href="#">31260.048.025</a>			
ST3,9X25MM	1000	<a href="#">31260.039.025</a>	ST4,8X32MM	1000	<a href="#">31260.048.032</a>			

- Warning: electro-galvanizing of these products may cause hydrogen embrittlement.

31830 Self-drilling cross recessed countersunk head screw Phillips		J09B
<b>Thread</b>	Self tapping thread	
<b>Material</b>	Steel	
<b>Surface treatment</b>	Zinc plated	
<b>Packaging</b>	Standard	


d x L	☒	Art.number	d x L	☒	Art.number	d x L	☒	Art.number
ST3,5X13MM	2000	<a href="#">31830.035.013</a>	ST3,9X25MM	2000	<a href="#">31830.039.025</a>	ST4,8X32MM	2000	<a href="#">31830.048.032</a>
ST3,5X16MM	2000	<a href="#">31830.035.016</a>	ST3,9X32MM	2000	<a href="#">31830.039.032</a>	ST4,8X38MM	2000	<a href="#">31830.048.038</a>
ST3,5X19MM	2000	<a href="#">31830.035.019</a>				ST4,8X45MM	2000	<a href="#">31830.048.045</a>
ST3,5X25MM	2000	<a href="#">31830.035.025</a>	ST4,2X16MM	2000	<a href="#">31830.042.016</a>	ST4,8X50MM	2000	<a href="#">31830.048.050</a>
			ST4,2X25MM	2000	<a href="#">31830.042.025</a>			
ST3,9X13MM	2000	<a href="#">31830.039.013</a>	ST4,2X32MM	2000	<a href="#">31830.042.032</a>			
ST3,9X16MM	2000	<a href="#">31830.039.016</a>						
ST3,9X19MM	2000	<a href="#">31830.039.019</a>	ST4,8X25MM	2000	<a href="#">31830.048.025</a>			

- Warning: electro-galvanizing of these products may cause hydrogen embrittlement.

31140 SPEDEC SN Self-drilling cross recessed countersunk head screw Phillips		J09A
<b>Thread</b>	Self tapping thread	
<b>Material</b>	Stainless steel A2	
<b>Packaging</b>	Standard	

d x L	☒	Art.number	d x L	☒	Art.number	d x L	☒	Art.number
ST3,5X16MM	1000	<a href="#">31140.035.016</a>	ST4,2X25MM	1000	<a href="#">31140.042.025</a>			
ST3,9X19MM	1000	<a href="#">31140.039.019</a>	ST4,8X25MM	1000	<a href="#">31140.048.025</a>			

6

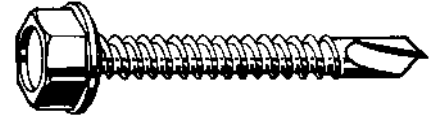
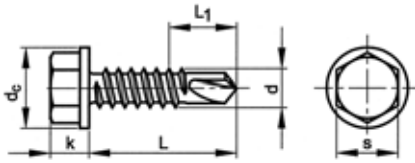
31880 Self-drilling cross recessed countersunk head screw Phillips		J09B
<b>Thread</b>	Self tapping thread	
<b>Material</b>	Stainless steel A2	
<b>Packaging</b>	Standard	

d x L	☒	Art.number	d x L	☒	Art.number	d x L	☒	Art.number
ST3,5X16MM	1000	<a href="#">31880.035.016</a>	ST3,9X19MM	1000	<a href="#">31880.039.019</a>	ST4,2X25MM	1000	<a href="#">31880.042.025</a>



## Self-drilling hexagon head screw with washer faced

ISO 15480  
 DIN 7504 K



### Technical data

d	P	d <sub>c</sub>	k (max.)	s	L <sub>1</sub> ≈
ST3,5	-	-	-	-	-
ST3,9	-	-	-	-	-
ST4,2	1,4	8,8	4,25	7	7
ST4,8	1,6	10,5	4,45	8	8
ST5,5	1,8	11	5,45	8	10
ST6,3	1,8	13,2	6,45	10	11

- Max. grip length KL = L - L<sub>1</sub>.

### Article groups

Thread	Driving features	Material	Surface treatment	Packaging	Code	Page
ST	hexagon	St	Zipl	Standard	31235	6-111
ST	hexagon	St	Zipl	Large	31230	6-111
ST	hexagon	St	Zipl	Standard	31815	6-112
ST	hexagon	St	Zipl	Large	31810	6-112
ST	hexagon	St.St. A2		Standard	31100	6-112
ST	hexagon	St.St. A2		Standard	31860	6-112

6

#### 31235 SPEDEC SN Self-drilling hexagon head screw washer faced

J09A

**Thread** Self tapping thread  
**Material** Steel  
**Surface treatment** Zinc plated  
**Packaging** Standard



d x L	☒	Art.number	d x L	☒	Art.number	d x L	☒	Art.number
ST4,2X13MM	200	<a href="#">31235.042.013</a>	ST4,8X25MM	200	<a href="#">31235.048.025</a>	ST6,3X19MM	200	<a href="#">31235.063.019</a>
ST4,2X16MM	200	<a href="#">31235.042.016</a>	ST4,8X32MM	200	<a href="#">31235.048.032</a>	ST6,3X22MM	200	<a href="#">31235.063.022</a>
ST4,2X19MM	200	<a href="#">31235.042.019</a>	ST4,8X38MM	100	<a href="#">31235.048.038</a>	ST6,3X25MM	200	<a href="#">31235.063.025</a>
ST4,2X25MM	200	<a href="#">31235.042.025</a>	ST4,8X45MM	100	<a href="#">31235.048.045</a>	ST6,3X32MM	100	<a href="#">31235.063.032</a>
ST4,2X32MM	200	<a href="#">31235.042.032</a>	ST4,8X50MM	100	<a href="#">31235.048.050</a>	ST6,3X38MM	100	<a href="#">31235.063.038</a>
ST4,8X13MM	200	<a href="#">31235.048.013</a>	ST5,5X19MM	200	<a href="#">31235.055.019</a>	ST6,3X45MM	100	<a href="#">31235.063.045</a>
ST4,8X16MM	200	<a href="#">31235.048.016</a>	ST5,5X22MM	200	<a href="#">31235.055.022</a>	ST6,3X50MM	100	<a href="#">31235.063.050</a>
ST4,8X19MM	200	<a href="#">31235.048.019</a>	ST5,5X25MM	200	<a href="#">31235.055.025</a>			
ST4,8X22MM	200	<a href="#">31235.048.022</a>	ST5,5X32MM	100	<a href="#">31235.055.032</a>			

- Warning: electro-galvanizing of these products may cause hydrogen embrittlement.

#### 31230 SPEDEC SN Self-drilling hexagon head screw washer faced

J09A

**Thread** Self tapping thread  
**Material** Steel  
**Surface treatment** Zinc plated  
**Packaging** Large



d x L	☒	Art.number	d x L	☒	Art.number	d x L	☒	Art.number
ST4,2X13MM	1000	<a href="#">31230.042.013</a>	ST4,8X25MM	1000	<a href="#">31230.048.025</a>	ST5,5X38MM	500	<a href="#">31230.055.038</a>
ST4,2X16MM	1000	<a href="#">31230.042.016</a>	ST4,8X32MM	1000	<a href="#">31230.048.032</a>	ST6,3X19MM	500	<a href="#">31230.063.019</a>
ST4,2X19MM	1000	<a href="#">31230.042.019</a>	ST4,8X38MM	500	<a href="#">31230.048.038</a>	ST6,3X22MM	500	<a href="#">31230.063.022</a>
ST4,2X25MM	1000	<a href="#">31230.042.025</a>	ST4,8X45MM	500	<a href="#">31230.048.045</a>	ST6,3X25MM	500	<a href="#">31230.063.025</a>
ST4,2X32MM	1000	<a href="#">31230.042.032</a>	ST4,8X50MM	500	<a href="#">31230.048.050</a>	ST6,3X32MM	500	<a href="#">31230.063.032</a>
ST4,8X13MM	1000	<a href="#">31230.048.013</a>	ST5,5X19MM	1000	<a href="#">31230.055.019</a>	ST6,3X38MM	500	<a href="#">31230.063.038</a>
ST4,8X16MM	1000	<a href="#">31230.048.016</a>	ST5,5X22MM	1000	<a href="#">31230.055.022</a>	ST6,3X45MM	500	<a href="#">31230.063.045</a>
ST4,8X19MM	1000	<a href="#">31230.048.019</a>	ST5,5X25MM	500	<a href="#">31230.055.025</a>	ST6,3X50MM	500	<a href="#">31230.063.050</a>
ST4,8X22MM	1000	<a href="#">31230.048.022</a>	ST5,5X32MM	500	<a href="#">31230.055.032</a>			

**31230 SPEDEC SN Self-drilling hexagon head screw washer faced**

d x L	☒	Art.number	d x L	☒	Art.number	d x L	☒	Art.number
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- Warning: electro-galvanizing of these products may cause hydrogen embrittlement.

**31815 Self-drilling hexagon head screw with washer faced**
**J09B**

<b>Thread</b>	Self tapping thread
<b>Material</b>	Steel
<b>Surface treatment</b>	Zinc plated
<b>Packaging</b>	Standard



d x L	☒	Art.number	d x L	☒	Art.number	d x L	☒	Art.number
ST4,2X13MM	1000	<a href="#">31815.042.013</a>	ST4,8X19MM	1000	<a href="#">31815.048.019</a>	ST6,3X19MM	500	<a href="#">31815.063.019</a>
ST4,2X16MM	1000	<a href="#">31815.042.016</a>	ST4,8X25MM	1000	<a href="#">31815.048.025</a>	ST6,3X25MM	500	<a href="#">31815.063.025</a>
ST4,2X19MM	1000	<a href="#">31815.042.019</a>	ST4,8X32MM	1000	<a href="#">31815.048.032</a>	ST6,3X32MM	500	<a href="#">31815.063.032</a>
ST4,2X25MM	1000	<a href="#">31815.042.025</a>	ST4,8X38MM	1000	<a href="#">31815.048.038</a>	ST6,3X38MM	500	<a href="#">31815.063.038</a>
ST4,2X32MM	1000	<a href="#">31815.042.032</a>				ST6,3X50MM	500	<a href="#">31815.063.050</a>
ST4,8X13MM	1000	<a href="#">31815.048.013</a>	ST5,5X19MM	1000	<a href="#">31815.055.019</a>			
ST4,8X16MM	1000	<a href="#">31815.048.016</a>	ST5,5X25MM	500	<a href="#">31815.055.025</a>			

- Warning: electro-galvanizing of these products may cause hydrogen embrittlement.

**31810 Self-drilling hexagon head screw with washer faced**
**J09B**

<b>Thread</b>	Self tapping thread
<b>Material</b>	Steel
<b>Surface treatment</b>	Zinc plated
<b>Packaging</b>	Large



d x L	☒	Art.number	d x L	☒	Art.number	d x L	☒	Art.number
ST4,2X13MM	2000	<a href="#">31810.042.013</a>	ST4,8X19MM	2000	<a href="#">31810.048.019</a>	ST6,3X19MM	1000	<a href="#">31810.063.019</a>
ST4,2X16MM	2000	<a href="#">31810.042.016</a>	ST4,8X25MM	2000	<a href="#">31810.048.025</a>	ST6,3X25MM	1000	<a href="#">31810.063.025</a>
ST4,2X19MM	2000	<a href="#">31810.042.019</a>	ST4,8X32MM	2000	<a href="#">31810.048.032</a>	ST6,3X32MM	1000	<a href="#">31810.063.032</a>
ST4,2X25MM	2000	<a href="#">31810.042.025</a>	ST4,8X38MM	2000	<a href="#">31810.048.038</a>	ST6,3X38MM	1000	<a href="#">31810.063.038</a>
ST4,2X32MM	2000	<a href="#">31810.042.032</a>				ST6,3X50MM	1000	<a href="#">31810.063.050</a>
ST4,8X13MM	2000	<a href="#">31810.048.013</a>	ST5,5X19MM	2000	<a href="#">31810.055.019</a>			
ST4,8X16MM	2000	<a href="#">31810.048.016</a>	ST5,5X25MM	1000	<a href="#">31810.055.025</a>			

- Warning: electro-galvanizing of these products may cause hydrogen embrittlement.

**31100 SPEDEC SN Self-drilling hexagon head screw washer faced**
**J09A**

<b>Thread</b>	Self tapping thread
<b>Material</b>	Stainless steel A2
<b>Packaging</b>	Standard



d x L	☒	Art.number	d x L	☒	Art.number	d x L	☒	Art.number
ST4,2X25MM	1000	<a href="#">31100.042.025</a>	ST4,8X32MM	1000	<a href="#">31100.048.032</a>	ST6,3X22MM	500	<a href="#">31100.063.022</a>
ST4,8X19MM	1000	<a href="#">31100.048.019</a>						

**31860 Self-drilling hexagon head screw with washer faced**
**J09B**

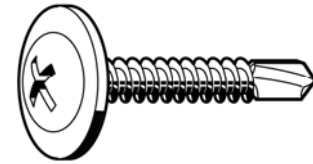
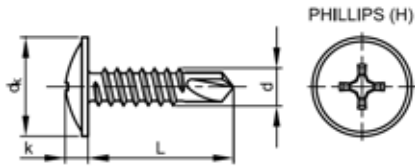
<b>Thread</b>	Self tapping thread
<b>Material</b>	Stainless steel A2
<b>Packaging</b>	Standard



d x L	☒	Art.number	d x L	☒	Art.number	d x L	☒	Art.number
ST4,2X25MM	2000	<a href="#">31860.042.025</a>	ST4,8X32MM	1000	<a href="#">31860.048.032</a>	ST5,5X22MM	1000	<a href="#">31860.055.022</a>
ST4,8X19MM	1000	<a href="#">31860.048.019</a>						

**6**

**Self drilling cross recessed screw for back panels**



Technical data	
d	4,2
dk	11
k	2,5
c	1,27
No. cross recess	2

Article groups						
Thread	Driving features	Material	Surface treatment	Packaging	Code	Page
ST	Phillips	St	Zipl	Standard	29580	6-113
ST	Phillips	St	Zipl blk p.	Standard	29581	6-113

<b>29580</b>	<b>Self drilling cross recessed screw for back panels</b>	<b>K04A</b>
<b>Thread</b>	Self tapping thread	
<b>Material</b>	Steel	
<b>Surface treatment</b>	Zinc plated	
<b>Packaging</b>	Standard	

d x L	☒	Art.number	d x L	☒	Art.number	d x L	☒	Art.number
4,2X13MM	200	<a href="#">29580.042.013</a>	4,2X19MM	200	<a href="#">29580.042.019</a>			
4,2X16MM	200	<a href="#">29580.042.016</a>	4,2X25MM	200	<a href="#">29580.042.025</a>			

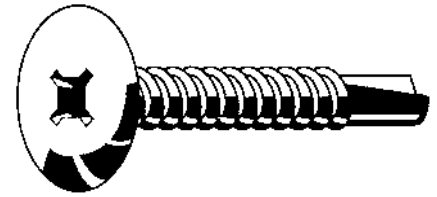
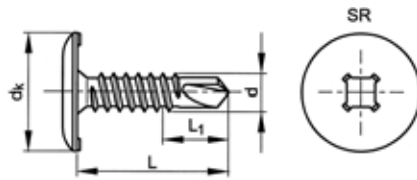
• Warning: electro-galvanizing of these products may cause hydrogen embrittlement.

<b>29581</b>	<b>Self drilling cross recessed screw for back panels</b>	<b>K04A</b>
<b>Thread</b>	Self tapping thread	
<b>Material</b>	Steel	
<b>Surface treatment</b>	Zinc plated black passivated	
<b>Packaging</b>	Standard	

d x L	☒	Art.number	d x L	☒	Art.number	d x L	☒	Art.number
4,2X13MM	200	<a href="#">29581.042.013</a>	4,2X19MM	200	<a href="#">29581.042.019</a>	4,2X25MM	200	<a href="#">29581.042.025</a>
4,2X16MM	200	<a href="#">29581.042.016</a>						

• Warning: electro-galvanizing of these products may cause hydrogen embrittlement.

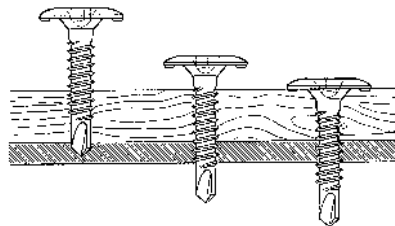
## Self-drilling mushroom head screw with SR recess



### Technical data

d x L	ST4,8x16	ST4,8x19	ST4,8x25	ST4,8x32
P	1,6	1,6	1,6	1,6
dk	13	15	15	15
L <sub>1</sub> ≈	9	9	9	9
No. SR	2	2	2	2
A	9000	9000	9000	9000
B	6000	6000	6000	6000
C	6,5	6,5	6,5	6,5
D	1	1	1	1
E	3	3	3	3
F	1,5	1,5	1,5	1,5
G	4	4	4	4

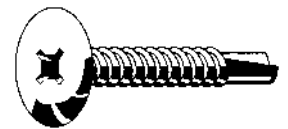
- A = Breaking load min. in N.
- B = Shear strength min. in N.
- C = Ultimate moment in Nm.
- D = Drillcap. in steel cross cross members (min.).
- E = Drillcap. in steel cross cross members (max.).
- F = Drillcap. in aluminium cross cross members (min.).
- G = Drillcap. in aluminium cross cross members (max.).
- Applicable for direct-assembly of plywood and particleboard liners on aluminium and steel cross members.
- Max. grip length KL = L – L<sub>1</sub>
- SR-recess is a cross recess/square recess combination. Assembly with the electric setting tool DI 320 and with SR screwdriver bits, see group code 31630 and 31640.
- Steel with pull-out force max. 540 N/mm<sup>2</sup>.



### 31445 SPEDEC SCI Self-drilling mushroom head screw with SR recess

J12A

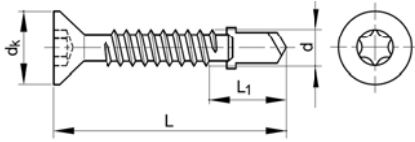
<b>Thread</b>	Self tapping thread
<b>Material</b>	Steel
<b>Surface treatment</b>	Zinc plated
<b>Packaging</b>	Standard



d x L	☒	Art.number	d x L	☒	Art.number	d x L	☒	Art.number
ST4,8X16MM	1000	<a href="#">31445.048.016</a>	ST4,8X25MM	1000	<a href="#">31445.048.025</a>	ST4,8X32MM	1000	<a href="#">31445.048.032</a>
ST4,8X19MM	1000	<a href="#">31445.048.019</a>						

- Warning: electro-galvanizing of these products may cause hydrogen embrittlement.

**Self-drilling counter screw with wings and Torx® metric**



**Technical data**

d	ST6,3
P	1,8
dk	12
L <sub>1</sub> ≈	25
No. Torx®	T30

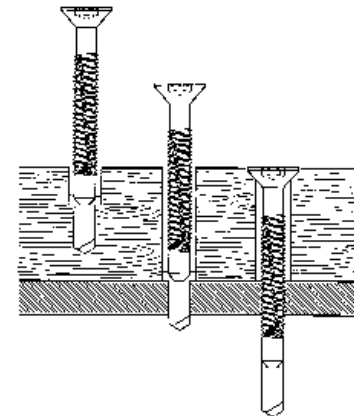
d	ST6,3
A	17000
B	10000
C	16
D	3

d	ST6,3
E	10
F	3
G	6

- A = Breaking load min. in N.
- B = Shear strength min. in N.
- C = Ultimate moment in Nm.
- D = Drillcap. in steel cross cross members St37 (min.).
- E = Drillcap. in steel cross cross members St37 (max.).
- F = Drillcap. in steel cross cross members St52 (min.).
- G = Drillcap. in steel cross cross members St52 (max.).
- Applicable for direct-assembly of soft wooden beams on steel cross members.
- Max. grip length KL = L – L<sub>1</sub>
- St52: With higher steelqualities the max. drilling thickness is reduced.

Special features of FABORY-SPEDEC self-drilling screws type **SCT**:

- the normal drilling point has been replaced by a drilling plate of special hardened steel. This type ensures, when the SC self-drilling screws cause problems, that the area of application can be extended considerably
- in one single operation: start of assembly, drilling through wood, drilling through steel, wings breaking off, forming thread, tightening screw, assembly finished (see assembly sequence)
- assembly with electric setting tool type type CF 250(P), see group codes 31570 (31572).



6

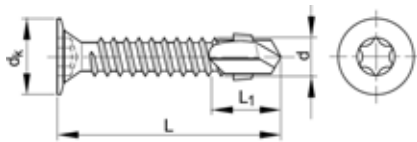
<b>31460</b>	<b>SPEDEC SCT Self-drilling countersunk screw with wings and Torx®</b>	<b>J10A</b>
<b>Thread</b>	Self tapping thread	
<b>Material</b>	Steel	
<b>Surface treatment</b>	Zinc plated	
<b>Packaging</b>	Standard	



d x L	☒	Art.number	d x L	☒	Art.number	d x L	☒	Art.number
ST6,3X50MM	500	<a href="#">31460.063.050</a>	ST6,3X70MM	500	<a href="#">31460.063.070</a>	ST6,3X90MM	250	<a href="#">31460.063.090</a>
ST6,3X60MM	500	<a href="#">31460.063.060</a>	ST6,3X80MM	500	<a href="#">31460.063.080</a>			

- Warning: electro-galvanizing of these products may cause hydrogen embrittlement.

## Self-drilling countersunk screw with wings Torx®



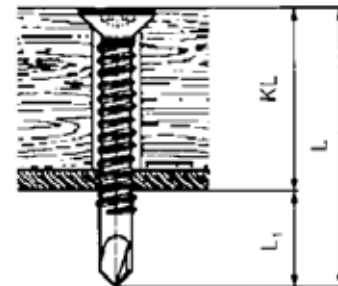
### Technical data

d	ST5,5	d	ST5,5	d	ST5,5
P	1,8	No. Torx®	T30	C	10
dk	12	A	10000	D	2
L <sub>1</sub> ≈	15	B	8000	E	5

- A = Breaking load min. in N.
- B = Shear strength min. in N.
- C = Ultimate moment in Nm.
- D = Drillcap. in steel cross cross members St37 (min.).
- E = Drillcap. in steel cross cross members St37 (max.).
- Applicable for direct-assembly of soft wooden beams on steel cross members.
- Max. grip length KL = L – L<sub>1</sub>
- St37 With higher steelqualities the max. drilling thickness is reduced.

Special features of FABORY-SPEDEC self-drilling screws type **SC**:

- with **pressed** drilling point
- with a **double countersunk head** (31411) for a better bearing surface in soft wood
- with **underhead ribs** (31416) for countersinking in wood
- assembly with electric setting tool type type CF 250(P), see group codes 31570 (31572)



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### Article groups

Thread	Driving features	Material	Surface treatment	Packaging	Code	Page
ST	Torx®	St	Zipl	Standard	31416	6-116
ST	Torx®	St	Zipl	double countersunk	31411	6-116

#### 31416 SPEDEC SC Self-drilling countersunk screw with wings and Torx® recessed

J10A

<b>Thread</b>	Self tapping thread
<b>Material</b>	Steel
<b>Surface treatment</b>	Zinc plated
<b>Packaging</b>	Standard



d x L	✉	Art.number	d x L	✉	Art.number	d x L	✉	Art.number
ST5,5X38MM	1000	<a href="#">31416.055.038</a>	ST5,5X50MM	1000	<a href="#">31416.055.050</a>			
ST5,5X45MM	1000	<a href="#">31416.055.045</a>	ST5,5X55MM	1000	<a href="#">31416.055.055</a>			

- Warning: electro-galvanizing of these products may cause hydrogen embrittlement.

#### 31411 SPEDEC SC Self-drilling countersunk screw with wings and Torx® recessed

J10A

<b>Thread</b>	Self tapping thread
<b>Material</b>	Steel
<b>Surface treatment</b>	Zinc plated
<b>Packaging</b>	Standard

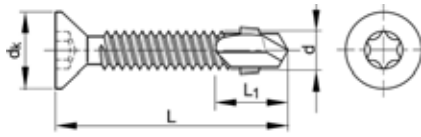


d x L	✉	Art.number	d x L	✉	Art.number	d x L	✉	Art.number
ST5,5X38MM	1000	<a href="#">31411.055.038</a>	ST5,5X50MM	1000	<a href="#">31411.055.050</a>			
ST5,5X45MM	1000	<a href="#">31411.055.045</a>	ST5,5X55MM	1000	<a href="#">31411.055.055</a>			

31411 SPEDEC SC Self-drilling countersunk screw with wings and Torx® recessed			
d x L	Art.number	d x L	Art.number
ST5,5X60MM	1000	<a href="#">31411.055.060</a>	

- Warning: electro-galvanizing of these products may cause hydrogen embrittlement.

## Self-drilling countersunk screw with wings Torx® UNC



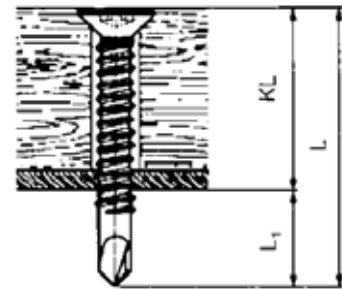
### Technical data

<b>d</b>	U6,3 (1/4)	<b>d</b>	U6,3 (1/4)	<b>d</b>	U6,3 (1/4)
<b>Threads per inch</b>	20	<b>No. Torx®</b>	T30	<b>C</b>	16
<b>d<sub>k</sub></b>	12	<b>A</b>	17000	<b>D</b>	2,5
<b>L<sub>1</sub> ≈</b>	16	<b>B</b>	10000	<b>E</b>	6

- A = Breaking load min. in N.
- B = Shear strength min. in N.
- C = Ultimate moment in Nm.
- D = Drillcap. in steel cross cross members St37 (min.).
- E = Drillcap. in steel cross cross members St37 (max.).
- Applicable for direct-assembly of soft wooden beams on steel cross members.
- Max. grip length KL = L – L<sub>1</sub>
- St37 With higher steelqualities the max. drilling thickness is reduced.

Special features of FABORY-SPEDEC self-drilling screws type **SC**:

- with **pressed** drilling point
- with **under head ribs** for countersinking in wood
- assembly with electric setting tool type type CF 250(P), see group codes 31570 (31572)



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<b>31426</b>	<b>SPEDEC SC Self-drilling countersunk screw with wings and Torx®</b>	<b>J10A</b>
<b>Thread</b>	Unified National Coarse	
<b>Material</b>	Steel	
<b>Surface treatment</b>	Zinc plated	
<b>Packaging</b>	Standard	

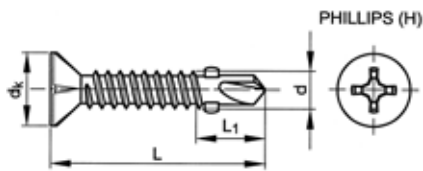


d x L	✉	Art.number	d x L	✉	Art.number	d x L	✉	Art.number
U6,3X45MM	1000	<a href="#">31426.063.045</a>	U6,3X60MM	1000	<a href="#">31426.063.060</a>	U6,3X80MM	500	<a href="#">31426.063.080</a>
U6,3X50MM	1000	<a href="#">31426.063.050</a>	U6,3X65MM	1000	<a href="#">31426.063.065</a>	U6,3X85MM	500	<a href="#">31426.063.085</a>
U6,3X55MM	1000	<a href="#">31426.063.055</a>	U6,3X70MM	500	<a href="#">31426.063.070</a>			

- Warning: electro-galvanizing of these products may cause hydrogen embrittlement.



## Self-drilling cross recessed countersunk screw with wings



### Technical data

	ST4,2	ST4,8
d		
P	1,4	1,6
dk	8,1	9,5
L ≈	9	10

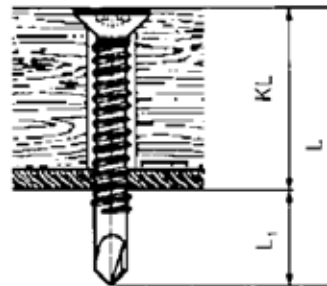
	ST4,2	ST4,8
d		
No. cross recess	2	2
A	7500	11000
B	3500	6000

	ST4,2	ST4,8
d		
C	5	8,5
D	0,7	2
E	2	3

- A = Breaking load min. in N.
- B = Shear strength min. in N.
- C = Ultimate moment in Nm.
- D = Drillcap. in steel cross cross members St37 (min.).
- E = Drillcap. in steel cross cross members St37 (max.).
- Applicable for direct-assembly of soft wooden beams on steel cross members.
- Max. grip length  $KL = L - L_1$
- St37: With higher steel qualities the max. drilling thickness is reduced.

Special features of FABORY-SPEDEC self-drilling screws type **SC**:

- with **underhead ribs** for countersinking in wood



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### 31282 SPEDEC SC Self-drilling cross recessed countersunk screw with wings Phillips

J10A

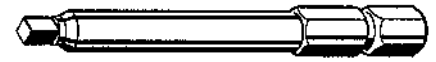
Thread	Self tapping thread
Material	Steel
Surface treatment	Zinc plated
Packaging	Standard



d x L	☒	Art.number	d x L	☒	Art.number	d x L	☒	Art.number
ST4,2X30MM	500	<a href="#">31282.042.030</a>	ST4,8X35MM	500	<a href="#">31282.048.035</a>	ST4,8X65MM	500	<a href="#">31282.048.065</a>
ST4,2X40MM	500	<a href="#">31282.042.040</a>	ST4,8X45MM	500	<a href="#">31282.048.045</a>			

- Warning: electro-galvanizing of these products may cause hydrogen embrittlement.

## Self-drilling screws installation tool



### Article groups

Driving features	Packaging	Code	Page
SR	Standard	31535	6-120
	CF 250	31570	6-120
	CF 250P	31572	6-120
hexagon	Standard	31536	6-121
SR	Standard	31640	6-121

#### 31535 SPEDEC Screwdriver bit type SR J90A

**Packaging** Standard

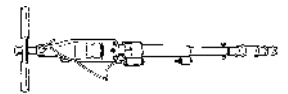


Type	Art.number	Type	Art.number
SR2-49	2 <a href="#">31535.001.770</a>	SR1-49	2 <a href="#">31535.001.771</a>

- For all setting tools with the exception of type DI 320
- With 1/4 inch hexagon drive
- Suitable for self-drilling screws with SR recess (cross recess/square recess combination)
- Length 49 mm

#### 31570 SPEDEC Setting tool type CF 250 J91A

**Packaging** Standard

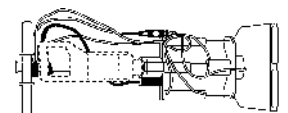


Type	Art.number
COMPLETE TOOL	1 <a href="#">31570.001.770</a>

- Suitable for self-drilling screws type SC (with Torx® TX30) and type SCT (with Torx® TX30)
- Manufacturer screwdriver: Fein ASze 648 d
- Input 740 W
- Voltage 220 V/50 Hz
- Revolutions 0 - 1560 r.p.m. (loaded) and 1250-2600 r.p.m. (unloaded)
- Total length 1080 mm
- Weight 9,8 kg
- Right hand turning
- Adjustable depth-stop
- Upright working position
- Ergonomical
- Theoretical production 250 self-drilling screws by the hour!!

#### 31572 SPEDEC Pneumatic unit type CF 250 P J91A

**Packaging** Standard



Type	Art.number
CF250	1 <a href="#">31572.001.770</a>

- To rebuild type CF 250.

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**31572 SPEDEC Pneumatic unit type CF 250 P** ←

Type	Art.number	Type	Art.number	Type	Art.number
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- No human power necessary!!
- Weight 16,3 kg.

**31536 SPEDEC Fix socket type E480** J90A

**Packaging** Standard



Type	Art.number	Type	Art.number	Type	Art.number
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E480	1	<a href="#">31536.001.770</a>
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- With 1/4 inch hexagon drive
- Self-clamping
- Suitable for self drilling hexagon head screws with collar type SN with a width across flats of 8 mm
- Length 73 mm

**31640 SPEDEC Screwdriver bit type SR 2** J90A

**Packaging** Standard



Type	Art.number	Type	Art.number	Type	Art.number
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SR2	1	<a href="#">31640.001.770</a>
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- With special connection for setting tool type DI 320
- Suitable for self-drilling screws with SR recess (cross recess/square recess combination)