

## HPLC Columns

### Wide Range of Stainless Steel HPLC COLUMNS



### Widest Range of Hardware Types and Sizes Available Anywhere

Higgins Analytical manufactures the widest range of column formats in the widest range of hardware types available anywhere. Conventional HPLC columns are offered in stainless steel hardware. Frit materials include stainless steel, Carpenter C, titanium. Standard lengths range from 3.3cm to 25 cm. Custom columns are routinely manufactured in odd length ranging from 3.3 to 50cm. The internal diameters of our entire HPLC column and cartridge offering range from 75µm to 20mm, over two orders of magnitude.

### Guide to Some Standard HPLC Column Part Numbers

xS-xxxx-xxxx	Stainless Steel (ss) column	
xP-xxxx-xxxx	PEEK column	
xS-03xx-xxxx	3.5cm ss column	Shortest standard size
xS-25xx-xxxx	25cm ss column	Longest standard size
xP-05xx-xxxx	5cm PEEK column	Shortest standard size
xP-25xx-xxxx	25cm PEEK column	Longest standard size
xS-xx21-xxxx	2.1mm ss I.D.	Smallest standard I.D.
xP-xx21-xxxx	2.1mm PEEK I.D.	Smallest standard I.D.
xS-xx46-xxxx	4.6mm ss I.D.	Popular standard I.D.
xP-xx46-xxxx	4.6mm PEEK I.D.	Popular standard I.D.

See Page 23 for complete Part Number information

## CLIQUEUS Analytical Columns - Stainless Steel



<b>CLIQUEUS C8 5µm</b>				
<b>4.6, 4.0, 3.0, and 2.1mm I.D. s.s. columns</b>				
30x4.6mm	50x4.6mm	100x4.6mm	150x4.6mm	250x4.6mm
CS-0346-C085	CS-0546-C085	CS-1046-C085	CS-1546-C085	CS-2546-C085
30x4.0mm	50x4.0mm	100x4.0mm	150x4.0mm	250x4.0mm
CS-0340-C085	CS-0540-C085	CS-1040-C085	CS-1540-C085	CS-2540-C085
30x3.0mm	50x3.0mm	100x3.0mm	150x3.0mm	250x3.0mm
CS-0330-C085	CS-0530-C085	CS-1030-C085	CS-1530-C085	CS-2530-C085
30x2.1mm	50x2.1mm	100x2.1mm	150x2.1mm	250x2.1mm
CS-0321-C085	CS-0521-C085	CS-1021-C085	CS-1521-C085	CS-2521-C085
<b>CLIQUEUS C18 10µm</b>				
<b>4.6mm I.D. s.s. columns</b>				
30x4.6mm	50x4.6mm	100x4.6mm	150x4.6mm	250x4.6mm
CS-0346-C181	CS-0546-C181	CS-1046-C181	CS-1546-C181	CS-2546-C181
<b>CLIQUEUS C18 5µm</b>				
<b>4.6, 4.0, 3.0, and 2.1mm I.D. s.s. columns</b>				
30x4.6mm	50x4.6mm	100x4.6mm	150x4.6mm	250x4.6mm
CS-0346-C185	CS-0546-C185	CS-1046-C185	CS-1546-C185	CS-2546-C185
30x4.0mm	50x4.0mm	100x4.0mm	150x4.0mm	250x4.0mm
CS-0340-C185	CS-0540-C185	CS-1040-C185	CS-1540-C185	CS-2540-C185
30x3.0mm	50x3.0mm	100x3.0mm	150x3.0mm	250x3.0mm
CS-0330-C185	CS-0530-C185	CS-1030-C185	CS-1530-C185	CS-2530-C185
30x2.1mm	50x2.1mm	100x2.1mm	150x2.1mm	250x2.1mm
CS-0321-C185	CS-0521-C185	CS-1021-C185	CS-1521-C185	CS-2521-C185



## CLIQUEUS Analytical Columns - Stainless Steel



<b>CLIQUEUS Cyano 5µm</b>	<b>4.6, 4.0, 3.0, and 2.1mm I.D. s.s. columns</b>			
30x4.6mm	50x4.6mm	100x4.6mm	150x4.6mm	250x4.6mm
CS-0346-CNP5	CS-0546-CNP5	CS-1046-CNP5	CS-1546-CNP5	CS-2546-CNP5
30x4.0mm	50x4.0mm	100x4.0mm	150x4.0mm	250x4.0mm
CS-0340-CNP5	CS-0540-CNP5	CS-1040-CNP5	CS-1540-CNP5	CS-2540-CNP5
30x3.0mm	50x3.0mm	100x3.0mm	150x3.0mm	250x3.0mm
CS-0330-CNP5	CS-0530-CNP5	CS-1030-CNP5	CS-1530-CNP5	CS-2530-CNP5
30x2.1mm	50x2.1mm	100x2.1mm	150x2.1mm	250x2.1mm
CS-0321-CNP5	CS-0521-CNP5	CS-1021-CNP5	CS-1521-CNP5	CS-2521-CNP5

<b>CLIQUEUS Phenyl 5µm</b>	<b>4.6, 4.0, 3.0, and 2.1mm I.D. s.s. columns</b>			
30x4.6mm	50x4.6mm	100x4.6mm	150x4.6mm	250x4.6mm
CS-0346-PHN5	CS-0546-PHN5	CS-1046-PHN5	CS-1546-PHN5	CS-2546-PHN5
30x4.0mm	50x4.0mm	100x4.0mm	150x4.0mm	250x4.0mm
CS-0340-PHN5	CS-0540-PHN5	CS-1040-PHN5	CS-1540-PHN5	CS-2540-PHN5
30x3.0mm	50x3.0mm	100x3.0mm	150x3.0mm	250x3.0mm
CS-0330-PHN5	CS-0530-PHN5	CS-1030-PHN5	CS-1530-PHN5	CS-2530-PHN5
30x2.1mm	50x2.1mm	100x2.1mm	150x2.1mm	250x2.1mm
CS-0321-PHN5	CS-0521-PHN5	CS-1021-PHN5	CS-1521-PHN5	CS-2521-PHN5

<b>CLIQUEUS Silica 5µm</b>	<b>4.6, 4.0, 3.0, and 2.1mm I.D. s.s. columns</b>			
30x4.6mm	50x4.6mm	100x4.6mm	150x4.6mm	250x4.6mm
CS-0346-SIL5	CS-0546-SIL5	CS-1046-SIL5	CS-1546-SIL5	CS-2546-SIL5
30x4.0mm	50x4.0mm	100x4.0mm	150x4.0mm	250x4.0mm
CS-0340-SIL5	CS-0540-SIL5	CS-1040-SIL5	CS-1540-SIL5	CS-2540-SIL5
30x3.0mm	50x3.0mm	100x3.0mm	150x3.0mm	250x3.0mm
CS-0330-SIL5	CS-0530-SIL5	CS-1030-SIL5	CS-1530-SIL5	CS-2530-SIL5
30x2.1mm	50x2.1mm	100x2.1mm	150x2.1mm	250x2.1mm
CS-0321-SIL5	CS-0521-SIL5	CS-1021-SIL5	CS-1521-SIL5	CS-2521-SIL5

## HAISIL 100 Analytical Columns - Stainless Steel



<b>HAISIL 100 C8 5µm</b>	<b>4.6, 4.0, 3.0, and 2.1mm I.D. s.s. columns</b>			
30x4.6mm	50x4.6mm	100x4.6mm	150x4.6mm	250x4.6mm
HS-0346-M085	HS-0546-M085	HS-1046-M085	HS-1546-M085	HS-2546-M085
30x4.0mm	50x4.0mm	100x4.0mm	150x4.0mm	250x4.0mm
HS-0340-M085	HS-0540-M085	HS-1040-M085	HS-1540-M085	HS-2540-M085
30x3.0mm	50x3.0mm	100x3.0mm	150x3.0mm	250x3.0mm
HS-0330-M085	HS-0530-M085	HS-1030-M085	HS-1530-M085	HS-2530-M085
30x2.1mm	50x2.1mm	100x2.1mm	150x2.1mm	250x2.1mm
HS-0321-M085	HS-0521-M085	HS-1021-M085	HS-1521-M085	HS-2521-M085

<b>HAISIL 100 C18 5µm</b>	<b>4.6, 4.0, 3.0, and 2.1mm I.D. s.s. columns</b>			
30x4.6mm	50x4.6mm	100x4.6mm	150x4.6mm	250x4.6mm
HS-0346-M185	HS-0546-M185	HS-1046-M185	HS-1546-M185	HS-2546-M185
30x4.0mm	50x4.0mm	100x4.0mm	150x4.0mm	250x4.0mm
HS-0340-M185	HS-0540-M185	HS-1040-M185	HS-1540-M185	HS-2540-M185
30x3.0mm	50x3.0mm	100x3.0mm	150x3.0mm	250x3.0mm
HS-0330-M185	HS-0530-M185	HS-1030-M185	HS-1530-M185	HS-2530-M185
30x2.1mm	50x2.1mm	100x2.1mm	150x2.1mm	250x2.1mm
HS-0321-M185	HS-0521-M185	HS-1021-M185	HS-1521-M185	HS-2521-M185



## HPLC Columns (continued)

Wide Range of Stainless Steel HPLC COLUMNS



### HAISIL100 Analytical Columns - Stainless Steel (cont.)



HAISIL 100 Silica 5µm	4.6, 4.0, 3.0, and 2.1mm I.D. s.s. columns			
30x4.6mm	50x4.6mm	100x4.6mm	150x4.6mm	250x4.6mm
HS-0346-SIL5	HS-0546-SIL5	HS-1046-SIL5	HS-1546-SIL5	HS-2546-SIL5
30x4.0mm	50x4.0mm	100x4.0mm	150x4.0mm	250x4.0mm
HS-0340-SIL5	HS-0540-SIL5	HS-1040-SIL5	HS-1540-SIL5	HS-2540-SIL5
30x3.0mm	50x3.0mm	100x3.0mm	150x3.0mm	250x3.0mm
HS-0330-SIL5	HS-0530-SIL5	HS-1030-SIL5	HS-1530-SIL5	HS-2530-SIL5
30x2.1mm	50x2.1mm	100x2.1mm	150x2.1mm	250x2.1mm
HS-0321-SIL5	HS-0521-SIL5	HS-1021-SIL5	HS-1521-SIL5	HS-2521-SIL5

### HAISIL300 Analytical Columns - Stainless Steel



HAISIL 300 C18 5µm	4.6, 4.0, 3.0, and 2.1mm I.D. s.s. columns			
30x4.6mm	50x4.6mm	100x4.6mm	150x4.6mm	250x4.6mm
HS-0346-W185	HS-0546-W185	HS-1046-W185	HS-1546-W185	HS-2546-W185
30x4.0mm	50x4.0mm	100x4.0mm	150x4.0mm	250x4.0mm
HS-0340-W185	HS-0540-W185	HS-1040-W185	HS-1540-W185	HS-2540-W185
30x3.0mm	50x3.0mm	100x3.0mm	150x3.0mm	250x3.0mm
HS-0330-W185	HS-0530-W185	HS-1030-W185	HS-1530-W185	HS-2530-W185
30x2.1mm	50x2.1mm	100x2.1mm	150x2.1mm	250x2.1mm
HS-0321-W185	HS-0521-W185	HS-1021-W185	HS-1521-W185	HS-2521-W185

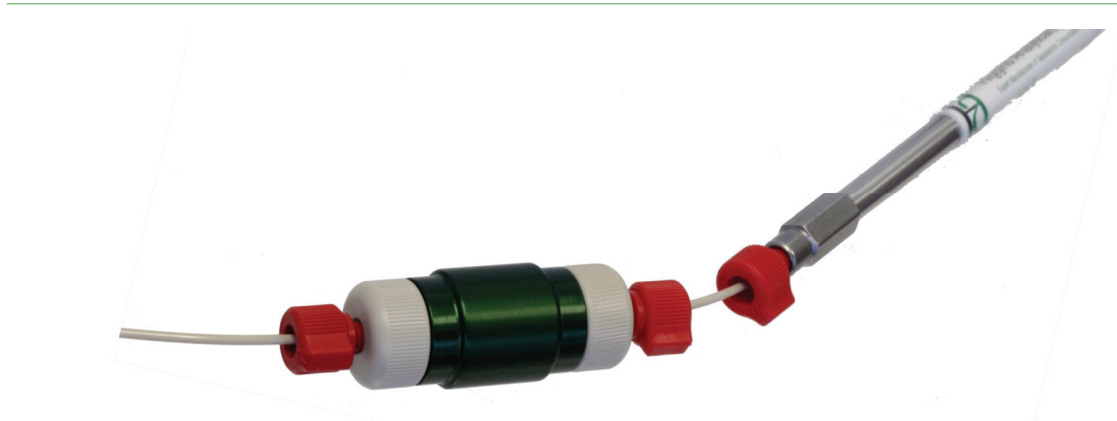
### HAISIL HL Analytical Columns - Stainless Steel



HAISIL HL C18 5µm	4.6, 4.0, 3.0, and 2.1mm I.D. s.s. columns			
30x4.6mm	50x4.6mm	100x4.6mm	150x4.6mm	250x4.6mm
LS-0346-C185	LS-0546-C185	LS-1046-C185	LS-1546-C185	LS-2546-C185
30x4.0mm	50x4.0mm	100x4.0mm	150x4.0mm	250x4.0mm
LS-0340-C185	LS-0540-C185	LS-1040-C185	LS-1540-C185	LS-2540-C185
30x3.0mm	50x3.0mm	100x3.0mm	150x3.0mm	250x3.0mm
LS-0330-C185	LS-0530-C185	LS-1030-C185	LS-1530-C185	LS-2530-C185
30x2.1mm	50x2.1mm	100x2.1mm	150x2.1mm	250x2.1mm
LS-0321-C185	LS-0521-C185	LS-1021-C185	LS-1521-C185	LS-2521-C185



## ANALYTICAL COLUMN ORDERING INFORMATION



See pages 62 - 63 for information on the wide variety of Guard Cartridges available for these Analytical Columns

### PROTO 200 Analytical Columns - Stainless Steel

200

PROTO 200 C4 5µm	4.6, 4.0, 3.0, and 2.1mm I.D. s.s. columns			
30x4.6mm	50x4.6mm	100x4.6mm	150x4.6mm	250x4.6mm
RS-0346-D045	RS-0546-D045	RS-1046-D045	RS-1546-D045	RS-2546-D045
30x4.0mm	50x4.0mm	100x4.0mm	150x4.0mm	250x4.0mm
RS-0340-D045	RS-0540-D045	RS-1040-D045	RS-1540-D045	RS-2540-D045
30x3.0mm	50x3.0mm	100x3.0mm	150x3.0mm	250x3.0mm
RS-0330-D045	RS-0530-D045	RS-1030-D045	RS-1530-D045	RS-2530-D045
30x2.1mm	50x2.1mm	100x2.1mm	150x2.1mm	250x2.1mm
RS-0321-D045	RS-0521-D045	RS-1021-D045	RS-1521-D045	RS-2521-D045

PROTO 200 C18 5µm	4.6, 4.0, 3.0, and 2.1mm I.D. s.s. columns			
30x4.6mm	50x4.6mm	100x4.6mm	150x4.6mm	250x4.6mm
RS-0346-D185	RS-0546-D185	RS-1046-D185	RS-1546-D185	RS-2546-D185
30x4.0mm	50x4.0mm	100x4.0mm	150x4.0mm	250x4.0mm
RS-0340-D185	RS-0540-D185	RS-1040-D185	RS-1540-D185	RS-2540-D185
30x3.0mm	50x3.0mm	100x3.0mm	150x3.0mm	250x3.0mm
RS-0330-D185	RS-0530-D185	RS-1030-D185	RS-1530-D185	RS-2530-D185
30x2.1mm	50x2.1mm	100x2.1mm	150x2.1mm	250x2.1mm
RS-0321-D185	RS-0521-D185	RS-1021-D185	RS-1521-D185	RS-2521-D185

### PROTO 300 Analytical Columns - Stainless Steel



PROTO 300 C4 5µm	4.6, 4.0, 3.0, and 2.1mm I.D. s.s. columns			
30x4.6mm	50x4.6mm	100x4.6mm	150x4.6mm	250x4.6mm
RS-0346-W045	RS-0546-W045	RS-1046-W045	RS-1546-W045	RS-2546-W045
30x4.0mm	50x4.0mm	100x4.0mm	150x4.0mm	250x4.0mm
RS-0340-W045	RS-0540-W045	RS-1040-W045	RS-1540-W045	RS-2540-W045
30x3.0mm	50x3.0mm	100x3.0mm	150x3.0mm	250x3.0mm
RS-0330-W045	RS-0530-W045	RS-1030-W045	RS-1530-W045	RS-2530-W045
30x2.1mm	50x2.1mm	100x2.1mm	150x2.1mm	250x2.1mm
RS-0321-W045	RS-0521-W045	RS-1021-W045	RS-1521-W045	RS-2521-W045

PROTO 300 C18 5µm	4.6, 4.0, 3.0, and 2.1mm I.D. s.s. columns			
30x4.6mm	50x4.6mm	100x4.6mm	150x4.6mm	250x4.6mm
RS-0346-W185	RS-0546-W185	RS-1046-W185	RS-1546-W185	RS-2546-W185
30x4.0mm	50x4.0mm	100x4.0mm	150x4.0mm	250x4.0mm
RS-0340-W185	RS-0540-W185	RS-1040-W185	RS-1540-W185	RS-2540-W185
30x3.0mm	50x3.0mm	100x3.0mm	150x3.0mm	250x3.0mm
RS-0330-W185	RS-0530-W185	RS-1030-W185	RS-1530-W185	RS-2530-W185
30x2.1mm	50x2.1mm	100x2.1mm	150x2.1mm	250x2.1mm
RS-0321-W185	RS-0521-W185	RS-1021-W185	RS-1521-W185	RS-2521-W185



## HPLC Columns (continued)

Wide Range of Stainless Steel HPLC COLUMNS



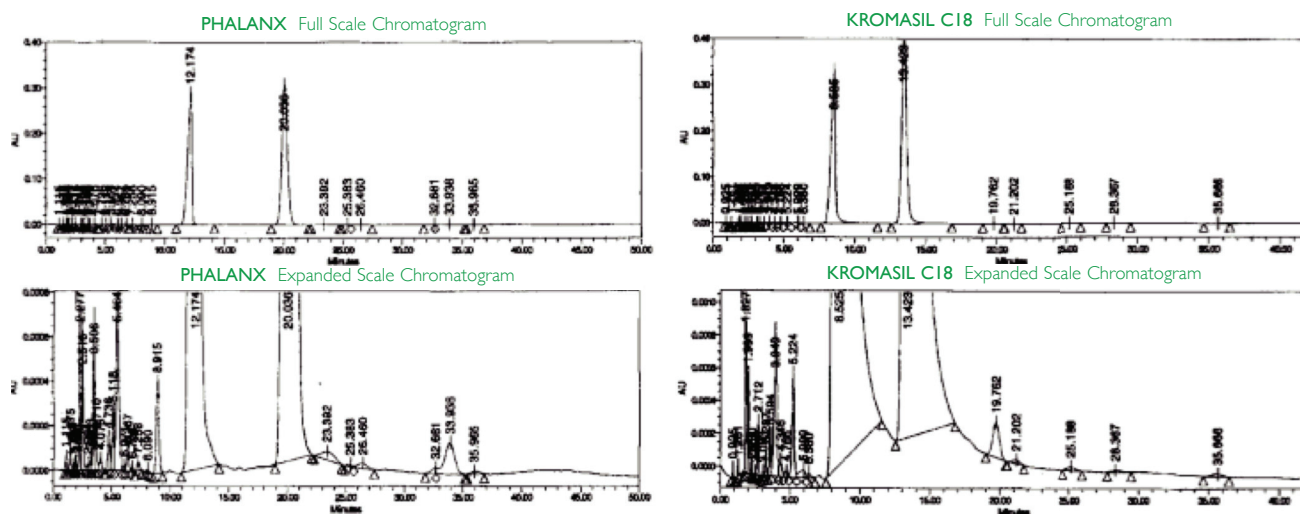
### PHALANX Analytical Columns - Stainless Steel



PHALANX C18 3µm	4.6, 4.0, 3.0, and 2.1mm I.D. s.s. columns			
30x4.6mm	50x4.6mm	100x4.6mm	150x4.6mm	250x4.6mm
PS-0346-C183	PS-0546-C183	PS-1046-C183	PS-1546-C183	PS-2546-C183
30x4.0mm	50x4.0mm	100x4.0mm	150x4.0mm	250x4.0mm
PS-0340-C183	PS-0540-C183	PS-1040-C183	PS-1540-C183	PS-2540-C183
30x3.0mm	50x3.0mm	100x3.0mm	150x3.0mm	250x3.0mm
PS-0330-C183	PS-0530-C183	PS-1030-C183	PS-1530-C183	PS-2530-C183
30x2.1mm	50x2.1mm	100x2.1mm	150x2.1mm	250x2.1mm
PS-0321-C183	PS-0521-C183	PS-1021-C183	PS-1521-C183	PS-2521-C183

PHALANX C18 5µm	4.6, 4.0, 3.0, and 2.1mm I.D. s.s. columns			
30x4.6mm	50x4.6mm	100x4.6mm	150x4.6mm	250x4.6mm
PS-0346-C185	PS-0546-C185	PS-1046-C185	PS-1546-C185	PS-2546-C185
30x4.0mm	50x4.0mm	100x4.0mm	150x4.0mm	250x4.0mm
PS-0340-C185	PS-0540-C185	PS-1040-C185	PS-1540-C185	PS-2540-C185
30x3.0mm	50x3.0mm	100x3.0mm	150x3.0mm	250x3.0mm
PS-0330-C185	PS-0530-C185	PS-1030-C185	PS-1530-C185	PS-2530-C185
30x2.1mm	50x2.1mm	100x2.1mm	150x2.1mm	250x2.1mm
PS-0321-C185	PS-0521-C185	PS-1021-C185	PS-1521-C185	PS-2521-C185

### Comparison of PHALANX to Kromasil C18 for a Pharmaceutical Drug Analysis 150 X 4.6mm Columns, 1mL/min Linear Gradient for 50 minutes



Higgins Analytical thanks Amos Heckendorf of The Nest Group ([www.nestgrp.com](http://www.nestgrp.com)) for these data.

## ANALYTICAL COLUMN ORDERING INFORMATION



See pages 62 - 63 for information on the wide variety of Guard Cartridges available for these Analytical Columns

### TARGA Analytical Columns - Stainless Steel



<b>TARGA C8 5µm</b>	<b>4.6, 4.0, 3.0, and 2.1mm I.D. s.s. columns</b>			
30x4.6mm TS-0346-C085	50x4.6mm TS-0546-C085	100x4.6mm TS-1046-C085	150x4.6mm TS-1546-C085	250x4.6mm TS-2546-C085
30x4.0mm TS-0340-C085	50x4.0mm TS-0540-C085	100x4.0mm TS-1040-C085	150x4.0mm TS-1540-C085	250x4.0mm TS-2540-C085
30x3.0mm TS-0330-C085	50x3.0mm TS-0530-C085	100x3.0mm TS-1030-C085	150x3.0mm TS-1530-C085	250x3.0mm TS-2530-C085
30x2.1mm TS-0321-C085	50x2.1mm TS-0521-C085	100x2.1mm TS-1021-C085	150x2.1mm TS-1521-C085	250x2.1mm TS-2521-C085
<b>TARGA C18 3µm</b>	<b>4.6, 4.0, 3.0, and 2.1mm I.D. s.s. columns</b>			
30x4.6mm TS-0346-C183	50x4.6mm TS-0546-C183	100x4.6mm TS-1046-C183	150x4.6mm TS-1546-C183	250x4.6mm TS-2546-C183
30x4.0mm TS-0340-C183	50x4.0mm TS-0540-C183	100x4.0mm TS-1040-C183	150x4.0mm TS-1540-C183	250x4.0mm TS-2540-C183
30x3.0mm TS-0330-C183	50x3.0mm TS-0530-C183	100x3.0mm TS-1030-C183	150x3.0mm TS-1530-C183	250x3.0mm TS-2530-C183
30x2.1mm TS-0321-C183	50x2.1mm TS-0521-C183	100x2.1mm TS-1021-C183	150x2.1mm TS-1521-C183	250x2.1mm TS-2521-C183
<b>TARGA C18 5µm</b>	<b>4.6, 4.0, 3.0, and 2.1mm I.D. s.s. columns</b>			
30x4.6mm TS-0346-C185	50x4.6mm TS-0546-C185	100x4.6mm TS-1046-C185	150x4.6mm TS-1546-C185	250x4.6mm TS-2546-C185
30x4.0mm TS-0340-C185	50x4.0mm TS-0540-C185	100x4.0mm TS-1040-C185	150x4.0mm TS-1540-C185	250x4.0mm TS-2540-C185
30x3.0mm TS-0330-C185	50x3.0mm TS-0530-C185	100x3.0mm TS-1030-C185	150x3.0mm TS-1530-C185	250x3.0mm TS-2530-C185
30x2.1mm TS-0321-C185	50x2.1mm TS-0521-C185	100x2.1mm TS-1021-C185	150x2.1mm TS-1521-C185	250x2.1mm TS-2521-C185

