SII SERIES

Direct drive, super high speed, overlock machine

SCD9204 - 04 / 233 - 3 X 5

SCD92

Series	
SCD92	Over-edge
SCD93	Safety stitch

04

Stitch type	
03	#503
04	#504
05	#505
12	#512
14	#514
15	#515
16	#516
41	#401
44	#401+#514

– 0

Operation type	
0	Plain seaming
1	Blind stitch
2	Serging
3	Hemming
4	Shirring
5	Attaching tape
6	Attaching zipper
8	Back Tacking
9	Versatile
A	Car mate sewing
B	Edge sewing
C	Piping

4

Application	
1	Extra light material~Light material
2	Light material~Medium material
3	Medium material~Heavy material
4	Heavy material~Extra heavy material
5	Extra heavy material

/ 2

Lift of the presser foot	
2	5mm
3	5.5mm
4	7mm
5	7mm

3

Rows of feed dogs			
1	1-Row standard	6	1-Row special
2	2-Rows standard	7	2-Rows Special
3	3-Rows standard	8	3-Rows special
4	4-Rows standard	9	4-Rows special
5	5-Rows standard	0	5-Rows special

3

Pitch of feed dog	
1	1mm
2	1.25mm
3	1.6mm
4	2mm
5	2.5mm

– 3

Needle distance	
0	1-Needle
2	2mm
3	3mm
5	5mm

× 5

Edge width	
3	3mm
4	4mm
5	5mm
6	6mm
7	7mm

Specification

Model	SCD9204-01/223	SCD9212-02/333	SCD9214-03/333	SCD9316-03/233
Application [material]	Extra light~Light	Light~Medium	Medium~Heavy	Medium~Heavy
Max. sewing speed [spm]	8,000	7,500	7,500	7,500
Stitch length [mm]	1.4~3.8	1.4~3.8	1.4~3.8	1.4~3.8
Lift of the presser foot [mm] Auto	5	5.5	5.5	5.5
Needle bar stroke [mm]	25	25	25	25
No. of needles	1	2	2	2
No. of threads	3	4	4	5
Needle distance [mm]	-	2	2	3
Edge width [mm]	3,4,5	3,4,5	3,4,5	5,6
Differential feed Ratio	0.7~2	0.7~2	0.7~2	0.7~2
Stitch type	ISO 504, 514	ISO 504, 514	ISO 504, 514	ISO 516, 401 + 514
Needle	Organ DCx27 Nm 65	Organ DCx27 Nm 65	Organ DCx27 Nm 65	Organ DCx27 Nm 75~130
Lubrication	Auto	Auto	Auto	Auto
Motor	Servo motor (Direct)	Servo motor (Direct)	Servo motor (Direct)	Servo motor (Direct)

Model	SCD9316-03/333	SCD9316-A4/435	SCD9204-02/223
Application [material]	Medium~Heavy	Heavy~Extra heavy	Light~Medium
Max. sewing speed [spm]	7,000	6,500	8,000
Stitch length [mm]	1.4~3.8	1.4~5	1.4~3.8
Lift of the presser foot [mm] Auto	5	7	5
Needle bar stroke [mm]	25	25	25
No. of needles	2	2	1
No. of threads	5	5	3
Needle distance [mm]	5	5	-
Edge width [mm]	5	5,6	3,4,5
Differential feed Ratio	0.7~2	0.8~1.5	0.7~2
Stitch type	ISO 516, 401 + 514	ISO 516, 401 + 514	ISO 504, 514
Needle	Organ DCx27 Nm 75~130	Organ DCx27 Nm 75~130	Organ DCx27 Nm 65
Lubrication	Auto	Auto	Auto
Motor	Servo motor (Direct)	Servo motor (Direct)	Servo motor (Direct)

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SII SERIES

Direct drive, super high speed, overlock machine

SunStar

FEATURES

01



Direct drive motor

It is easy to install of sewing machine by removing a V-belt and there is no concern about the vibration and noise by the belt during high-speed operation. In addition, there is no contamination of the material by the V-belt dust and no matter by belt slip from the long-term use.

02



Oil return system at the needle bar

Installation of the oil return system at the needle bar prevents the contamination of the material by blocking oil leaking near the needle bar.

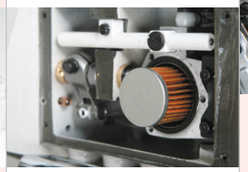
03



High efficiency oil pump

We offer the stable sewing environment even at high speed and the durability improvement using the high efficiency oil pump.

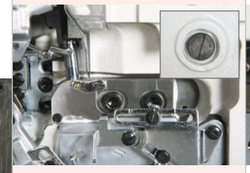
04



Durability improvement by oil filter

We improve the durability of the machine by filtering polluted oil and supplying it to the driving part.

05



Oil flow control device of the upper looper

Through the regular oil supply from the upper looper, the durability is improved and the oil leaking is blocked.

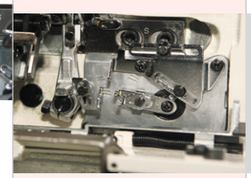
06



Oil return system at the feed

The forced return of the remaining oil at the feed bar minimizes the contamination of the material from the oil.

07



Various thread tension adjustments

It is feasible for variable sewing materials to adjust thread tension property due to the possible thread tension adjustment of the upper/lower looper.

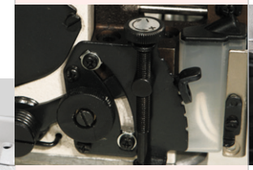
08



Embedded thread tension adjustment device

For the seamless sewing operation of swimming & hiking apparel

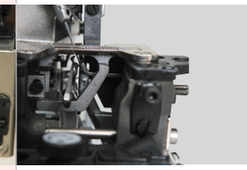
09



Simple differential feed adjuster

Simply adjust the differential feed of the saw teeth through the differential feed adjuster and apply it to various working conditions with ease.

10



Needle cooling devices

Needle and thread breakage problems are decreased during high speed stitching so the productivity is increasing.

- **Super high-speed overlock sewing machine developed by the advanced technology of Sunstar.**

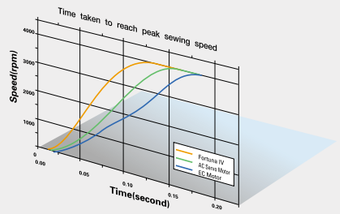
Noise and vibration caused by the high speed of the sewing machine are reduced due to the optimal design for overlock drive through the 3D Motion Test and 3D structural analysis.

DIRECT DRIVE

- **300W AC servo motor installation, strong power dealing with heavy materials**

We apply the more stable motor installation structure than competitors' products (patent pending).
We realize the low noise and vibration by the 3-D CAD&CAE analysis and promote productivity improvement through the stop accuracy and soft responsiveness.





FORTUNA-6

- **Installation of high-tech Fortuna AC servo motor series 6!**

Model	Input Voltage	Main Functions	Standard Accessories
S6AC55 - 2 B - □□□	1ø 220V	• Simple sewing machine using the program unit Variable speed function • Categorized speed adjustment of start/finish back-tack • Adjustment Function of sewing machine speed increase curve • Adjustment Function of the remaining upper thread's length after thread trimming • Adjustment Function of the pressure for pedal operation	• Position Detector (Synchronizer) • Pedal Connecting Rod (Pair) • Power Supply Switch Box etc.

MOTOR SPECIFICATION

Rated Power Generatin (W)	300W
Rated Rotation Speed	6,500rpm
Maximum Rotation Speed	8,000rpm
Insulation Grade	B Grade
System Protection	IP 40

FEATURES

- **Fast and precise position control, Fast responsiveness** (Excellent Rapid Acceleration/Deceleration feature)
- **Powerful program unit**
- **Simple speed change function**
- **Enhanced pattern stitching function**
- **Precise retrogressing stitch revision function**