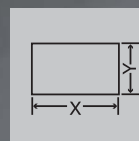
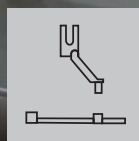
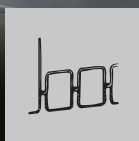
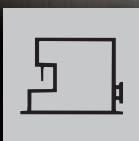
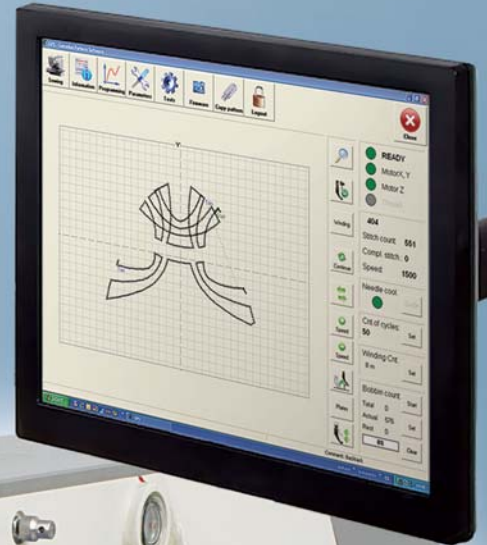


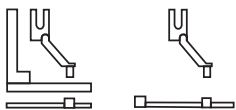
Model

GPS/G - 3525GCF
GPS/G - 4032GCF
GPS/G - 6032GCF
GPS/G - 6040GCF

GARUDAN®

- Electronically controlled pattern sewing machines with middle and large sewing area equipped with the system of LOWER SUBMERSIBLE PRESSER FOOT





GPS/G ... subclass CF

GARUDAN[®]

Mechanism of lower submergible presser foot was developed as a reaction to new trends and use of new materials in shoe industry and in sector of technical materials where programmable machines with conventional type of transport could not ensure anymore the required quality of stitching. GPS machines of subclass CF, equipped with this mechanism, bring remarkable improvement in the stitching quality of such materials.

During the sewing process sewn material is firmly held from both sides by standard upper foot and lower submergible foot and subsequently released for feeding by both foots, thus compensating for elasticity and flexibility of the sewn material.

Conventional type of transport bends the material towards the needle plate. The new solution with two presser foots operating simultaneously from both sides totally eliminates flexibility of the material and ensures that the material will remain within the thickness of the clamp, which is usually in the range of 1-2.2 mm. Stroke of the lower submergible foot is mechanically adjustable between 0-2.5 mm. This scale is sufficient to eliminate fully the described problem.

This solution is suitable mainly for highly elastic, flexible, slippery or adhesive types of materials. All these materials are characterized by limited possibilities to be firmly fixed in the clamp. Thus the application of this solution results in:

- Elimination of uneven stitch length
- Minimalization of flexibility of the sewn material
- More stable stitch composition from the very first stitches
- Solution of the problem with stitching close to the border of material
- Possibility of creating 3-D effect

All models are equipped with pneumatic system of thread trimming which operates with more reliability and precision and allows for better control of thread ends after trimming.

The machines are suitable for the production of shoes, car seats, leather products, technical materials, etc.



Sewing area (X,Y)	GPS/G-3525GCF 350 × 250 mm GPS/G-4032GCF 400 × 320 mm GPS/G-6032GCF 600 × 320 mm GPS/G-6040GCF 600 × 400 mm
Maximum sewing speed	2000 stitches / minute *
Stitch length	0.1–12.7 mm
Needle system and size	135×17, DP×17, Mn. 80-180
Hook type and size	CB shuttle – L (large), horizontally situated
Lift of presser foot	max. 20 mm (stroke 4-7 mm)
Lift of feeding frame	35 mm
Thread trimmer	pneumatic – standard
Memory device	all devices USB compatible (CD-ROM, FDD, card writer/reader...)
Communication interface	USB port
No. of stitches / patterns in memory	without limit
Driving unit	servomotor 750 W
Power supply	220 ÷ 240 V, 50/60 Hz
Air consumption	0.6 Mpa (6 kg/cmq)

* At stitch length up to 3 mm and minimum stroke of lower submergible foot



Lower submergible presser foot in its highest position 2.5 mm above the surface of the needle plate performs maximum compensation for material flexibility.



Deactivated lower submergible presser foot – in zero position and in line with the needle plate. Function of compensation for material flexibility is not used and machine works with conventional type of feeding



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