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Why you need Orisol.

**Orisol shoemaking machinery:
Globalization, concept, technology and benefits.**

Shoemaking and Globalization

**Shoemaking is a millenary tradition according to which the qualities and abilities of human hands play a crucial role:
In fact human hands have the ability of making objects by working on a three-dimensional manipulation basis, but they can achieve the finished product only in a slow sequence of movements and tasks, by stitching part after part and eventually building a complete shoe.
For centuries the traditional shoe stitching methods have based the main work of shoemaking, i.e stitching, on rudimentary techniques: hand stitching or manual machine stitching.
Nevertheless this manual work method is not able to respond to the increasing market need for higher production volumes and higher and constant quality. Nowadays the globalization and the opening of frontiers is pushing the producer into a fierce worldwide competition, raising both the production and quality crossbar, therefore there is a strong need for new technological concepts such as the ones developed by Orisol which offer a different “methodology” for making shoes, far better than the “traditional” one.**

Orisol vs. competition

First of all Orisol is a company establishing a new concept in shoemaking and secondly a unique machinery developer and marketer with no competition worldwide, for the following reasons:

- 1. Orisol Asia is a well known company constantly developing machinery and solutions specifically for the shoemaking industry, consolidating its place of prominence as an Industry Standard.**
- 2. Orisol Asia is the Only Company worldwide offering sophisticated Vision guided machines with artificial intelligence for Multi-parts high accuracy and quality stitching. The quality provided by the vision eliminates the**

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- need for high precision and complex pallets to hold the material during stitching operations.
3. Orisol Asia is the only company offering accurate shoemaking oriented large sew area machines (500x350mm) with AC servo and ball screw mechanism as in CNC advanced systems. The mechanical robustness of Orisol machines ensures stability, reliability and long production life.
 4. Orisol Asia is the only company offering a versatile array of OCS model sewing machines to be adapted to Flat or 3 Dimensional sewing with up to 12mm stitch length.
 5. Orisol Asia is the only company offering complete shoe-assembly solutions following the entire shoemaking process: This includes the design on a proprietary CAD system, the designing and making of easy and accurate clamps and supporting the factory throughout production.
 6. Orisol workflow involves a triangle of three unique elements: A. Sewcad PC Cad-cam for importing / exporting shoe design geometry data and produce sewing programs and pallet making programs. B. "Orimill" a proprietary Orisol Milling machine that receives the data from the Sewcad and mills the pallet in perfect synchronization with sewing accuracy requirements and upper components relativity (this is especially important when non vision machines are used). C. Any type of Orisol machine that receives the pallet and the sewing program.
 7. Orisol Asia machinery range is the only one in the market to interconnect directly through a digital link to all Footwear Cad/Cam shoe design Softwares such as Crispin, Shoemaster, Teseo, Sipeco, Caligula, Atom, Procam, etc . Orisol system has a bilateral import / export feature to communicate the shoe-designer geometrical data to Orisol proprietary CAD System "Sewcad". The geometry is converted into a sewing program and pallet program ready to be produced on a proprietary Orisol milling machine for making pallets. The more complex the design requirements are, the easier is for Orisol system to process prepare and operate.
 8. Orisol Asia is the only company that takes care of customer education in its regular service application, taking actively part to the customer's production to solve and fulfill its requirements and challenges by communicating its long acquired shoemaking expertise to the customer's manpower. Orisol team gives support to its customer throughout the entire production process: from design to production.
 9. Other shoemaking machinery companies which just sell machines, do not take care of teaching customers how to properly use them, letting them facing the challenges of the application phase all alone and with no expertise whatsoever. Customers' unawareness in this complicated phase can lead to down-times and production failures. Because of our constant commitment in technical assistance, we have no competitors in this market segment at all.
 10. All Orisol machinery is build up and constantly updated with the latest leading technologies and operational systems such as windows XP and

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Linux. As well as **digital and intuitive graphical MMI (Man Machine Interface)** modules that makes work easy and FUN to unskilled operators.

11. **Obstacles Avoidance Feature** – for military shoes this may be important. The clamp may be complicated and we are the only company that adds obstacles avoidance software to protect the clamps from collision damage during sewing.
12. Orisol machinery provides outstanding control over sewing editing with windows / Linux Graphic editor for modifying programs throughout two levels: *A.* First level on Orisol proprietary software **SewCad** for major and complex changes. *B.* Second level on the machine itself with a User friendly color graphic interface that makes processing much easier, if compared to our competitors' applications.
13. Easy maintenance of programs using USB disk on key devices that provide high speed Data transference.
 - For information on additional differences from our competitors, please check: "**Orisol machinery brochures.** "
 - For customer testimonial information please visit: www.orisol.co.il

Customer Benefits with Orisol.

1. High and constant quality
2. Higher production output
3. Less rejects and more efficiency
4. Less pre-fitting sequences (marking, erasing, sticking, etc)
5. Non skilled sewing-operators needed
6. Less production space
7. Less energy consumption
8. Easy and Modular maintenance
9. Better and faster control over data processing as it connects digitally to any footwear Cad/Cam design system.
10. More design freedom to make complex stitching for no additional costs.
11. Lower production and labor costs per pair. In the range of 35% to 65% (50% average)
12. Fast return of investments.

The producer that will survive the globalization era is the one who will be capable to absorb technology, implement it, and develop new "value added" elements to production.

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Orisol shoemaking production concept.

Only Orisol applies the "flattening" method for shoe production, which consist in opening the whole upper flat and maximizing the stitching through computerized vision / non vision stitching machines and then making all the required complementary work to "close" the shoe and achieve its normal three-dimensional shape.

In this way Orisol can cover from the 75% up to the 95% of the stitching work with high efficiency, speed, and quality that no human hand is able to achieve.

In order to comply with this new way of work, the conventional and traditional shoe pattern design has to be slightly modified. Indeed the differences from the traditional upper pattern design differs mainly in minor but smartly applied technical changes, that do not imply any change or modification whatsoever in the final outlook of the shoe, by on the other hand enhancing its quality while visibly reducing faulty uppers.

Orisol machines are equipped with Artificial Intelligence and image processing capabilities to SEE the material components, stitch and apply corrections in real time for any displacement or deformation. Our machines have a built-in quality control in the form of an "Online tolerance control." When the machine detects large material deformation or displacements, it will halt, although the final decision on disqualifying the part or continuing is left then to the operator.

For smaller production volumes where flexibility is particularly needed Orisol involves its small and mid range array of machines with 1010 up to 2520cm working areas. The upper is split up into two or three major work bulks and then assembled for a final shoe buildup.

Orisol computerized sewing machines are divided into two lines: a vision endowed line and a blind machines line, depending on the type of application and shoe material (leather or synthetic), to maximize customer's cost-benefit investment ratio.

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Boosting Competitiveness in Today's Market

The use of Orisol 'state of the art' technology will provide you with the competitive edge to successfully conquer the market in the 21st Century, by delivering consistent high quality stitched material, while reducing costs in production and marketing, since your production itself will provide sufficient answers to keep ahead in the competition with global producers. An ever increasing number of buyers strongly recommend Orisol systems in the Stitching Process.

The use of Orisol systems will give designers the opportunity to provide models which until now were economically not feasible due to high labor costs.

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