# AUTOMATIC **IFATHER** CUTTING SYSTEM





# AUTOMATIC LEATHER CUTTING SYSTEM









- In 1995, we installed the first FC4. Today there are hundreds of Teseo cutting systems in operation all over the world, inside the most important factories that produce shoes, leather goods, furniture and clathing. These firms have chosen FC4 because:
   1) They can rapidly cut prototypes and patterns of all the complexity, with an absolute precision.
  - 2) They can cut either big lats of production or small ones, without punches, so saving on the costs.
  - 3) They increase the productivity of each manual cutter up to 400%.
  - 4) They save from 4% to10% on the leather cost.
  - En 1995 hemos instalado la primera FC4. Hoy en día hay centenares de sistemas de corte TESEO que trabajan en las mejores firmas de todo el mundo, en zonas de producción de calzado, peletería, mobiliarlo y textil. Estas firmas han elegido FC4 por que: 1) Pueden realizar con rapidez prototipos y modelos de variada complejidad y de perfección absoluta.
    - 2) Cortan partidas de producción, grandes y pequeños, sin traqueles ahorrando los gastos.
  - Aumentan la productividad de cada cortador hasta el 400%.
  - 4) Ahorran del 4% al 10% en el coste de la piel.
  - Nel 1995 abbiamo installato il prima FC4. Oggi sono centinala i sistemi di taglio TESEO che operano nelle migliori aziende di tutto il mondo che producono calzature, pelletteria, arredamento ed abbigliamento. Queste aziende hanno scelto FC4 perché:
    - 1) Possono realizzare velocemente prototipi e campioni di ogni complessità con perfezione assoluta.
    - 2) Tagliano lotti di produzione grandi e piccoli senza fustelle riducendo subito i costi.
    - 3) Aumentano la produttività di ogni tagliatore fino al 400%.
    - 4) Risparmiano dal 4% al 10% sul costo del pellame.







# CUTTING SYSTEM

## Ж

In 1995, we installed the first FC4. Today there are hundreds of Teseo cutting systems in operation all over the world, inside the most important factories that produce shoes, leather goods, furniture and clothing. These firms have chosen FC4 because:

 They can rapidly cut prototypes and patterns of all the complexity, with an absolute precision.

2) They can cut either big lots of production or small ones, without punches, so saving on the costs.
 3) They increase the productivity of each

manual cutter up to 400%.

 They save from 4% to10% on the leather cost. En 1995 hemos instalado la primera FC4. Hoy en da hay centenares de sistemas de corte TESEO que trabajan en las mejores firmas de todo el mundo, en zonas de produccin de calzado, peletera, mobiliarlo y textil. Estas firmas han elegido FC4 parqu:

 Pueden realizar con rapidez prototipos y modelos de variada complejidad y de perfeccin absoluta.

 2) Cortan partidas de produccin, grandes y pequeas, sin troqueles ahorrando los gastos.
 3) Aumentan la productividad de cada cortador hasta el 400%.

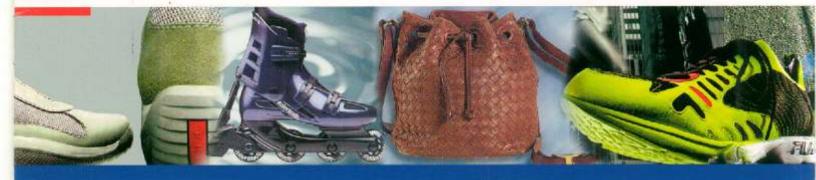
 Ahorran del 4% al 10% en el coste de la piel. Nel 1995 abbiamo installato il primo FC4. Oggi sono centinaia i sistemi di taglio TESEO che operana nelle migliori aziende di tutto il mondo che producana calzature, pelletteria, arredamento ed abbigliamento. Queste aziende hanno scetto FC4 perché:

 Possono realizzare velocemente prototipi e campioni di agni complessità con perfezione assoluta.

 Tagliano lotti di produzione grandi e piccoli senza fustelle riducendo subito i costi.

 Aumentano la produttività di ogni tagliatore fino al 400%.

 Risparmiano dal 4% al 10% sul costo del pellame







## SOFTWARE

The FC4 software is extremely powerful: it makes automatic and assisted placement with customizable strategies. To obtain the maximum production with absolute quality. It automatically optimizes the cutting paths reducing the common lines, minimizing shifts and paths, eliminating "over-cutting" and "putting in order the shapes and the lines sequences. The software, continuously in evolution for 7 years, is also very easy and clear in every part. It requires only a few hours of training to be operative.

El software de la FC4 es extremadamente potente: hace posicionamientos automáticos y asistidos con estrotegias personalizadas. Para obtener la máxima producción y calidad, optimiza automáticamente el recorrido del corte, reduciendo las líneas comunes minimizando desplazamientos y recorridos, eliminando "overcutting" y reordenando la secuencia de las plazas y de las líneas. El software, en continua evalución desde hace 7 años, es también muy simple y claro en cada una de sus partes. Exige sólo pocas horas de aprendizaje para la operatividad del usuario.

Il software di FC4 estremamente potente; esegue piazzamenti automatici ed assistiti con strategie personalizzabili. Per la massima produzione e qualità attimizza automaticamente il percorso di taglio riducendo linee comuni, minimizzando spostamenti e percorsi, eliminando overcutting" e sordinando la sequenza delle sagome e delle linee. Il software, in continua evoluzione da 7 anni, anche motto semplice e chiaro in ogni sua parte. Richiede solo poche are di Istruzione per essere operativi.

UUM

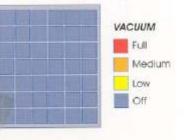
241

## ASPIRACIÓN ASPIRAZIONE

The pump is integrated inside the structure and has reduced waste and low noise. The cutting area consists of a patented system (DCV) of sectorization. This invention of ours dynamically concentrates the vacuum only in the cutting ea, perfectly blacking the leather, to obtain a perfect and quick cut, either on light or on heavy leathers.

La bomba está al interior de la estructura y es de gastos reducidos y bajo ruido. La superficie de corte está dotada de un sistema patentado (DCV) de sectorización. Esta nuestra invención concentra de manera dinámica la fuerza de la aspiración sólo en la zona de corte, bioqueando la plei para un corte perfecto y rápido, tanto en la piel fina como en la piel gruesa.

pompa all'interno della struttura ed ha consumi ridotti e bassa rumorosita. Il piano di taglio dotato di un sistema ettato (DCV) di settorizzazione. Questa nostra invenzione entra dinamicamente la forza aspirante solo nella zona taglio bioccando perfettamente le pelle per un taglio perfetto e veloce sia su pelli leggere che pesanti.





The cutting head consists of 5 tools, specifically planned to obtain the maximum leather yield. The knife, realized with special materials, mantains the cutting edge sharp for a long time. The results are: unequal speed and quality.

El cabezal de corte está dotodo de 5 utensilios específicos para obtener el máximo rendimiento en la plei. La cuchillo está realizada con un materiol especial para mantener afilado el cortante para un largo período de tiempo. Los resultados son una velocidad y una calidad que no tienen comparación.

La testa di faglio dotata di 5 utensili progettati per avere la massima resa sulla pelle. La lama realizzata in un materiale speciale che mantiene attiato il tagliente per lungo tempo. I risultati sono velocità e qualità ineguagliabile.

MULTIUTENSILE

## MULTI-TOOL

## MULTIUTENSILIO

Quality and precision on all the workings
 Calidad y precisión en todas las elaboraciones
 Qualitá e precisione su tutte le lavorazionii

Perfect details also on thick leather
 Particulares perfectos también en la piel gruesa
 Dettagli perfetti anche su pellami spessi

5 punches of different diameters working simultaneously
 Simultáneamente trabaja con boquilias de 5 diámetros diferentes
 Fino a 5 diametri di fustelle diversi simultaneamente



# AUTOMATIC LEATHER CUTTING SYSTEM

## MULTI-TOOL

## MULTIUTENSILIO

## MULTIUTENSILE

The cutting head consists of 5 tools, specifically planned to obtain the maximum leather yield. The knife, realized with special materials, maintains the cutting edge sharp for a long time. The results are:

- Quality an precision on all the workings.
- Perfect details also on thick leather.
- 5 punches of different diameters working simultaneously.
- o para la bi dilatan dan bian ing a

El cobezal de corte está dotado de 5 utensilos específicos para obtener el máximo rendimiento en la piel. La cuchilla está realizada con un material especial para mantener afilado el cortante para un largo período de tiempo. Los resultados son:

- Calidad y precisión en todas las elaboraciones.
- Particulares perfectos también en la piel gruesa.
- Simultáneamente trabaja con boquillas de 5 diámetros diferentes.

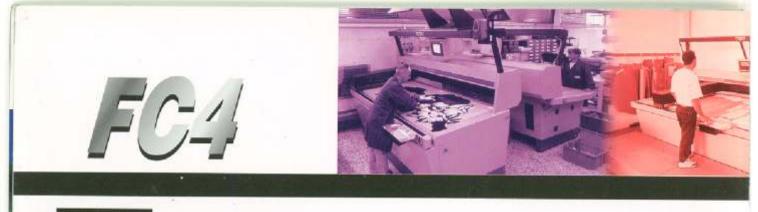
La testa di taglio è dotata di 5 utensili progettati per avere la massima resa sulla pelle. La lama è realizzata in un materiale speciale che mantiene attilato il tagliante per lungo tempo. I risultati sono:

- Qualità e precisione su tutte le lavorazioni.
- Dettagli perfetti anche su peliami spessi.
- · Fino a 5 diametri di fustelle diversi simultaneamente.









## FC4 360

The inon plus utitat in leather cutting. The huge cutting area (3.6 x 1.4 m) and the system of projection, controlled by a microprocessor, make the FC4 360 the most flexible and productive system available in the market. FC4 360 is the ideal instrument to work atther with big shapes and big leathers or also with a lat of small leathers at the same time.

III

| USEFUL AREA:      | 3600 X 1400 mm        |
|-------------------|-----------------------|
| VELOCITY:         | 100 cm/sec (60 m/min) |
| Movoble projector | ron two axes          |
| PUMP:             | 5.5 Kw                |
| WEIGHT            | 2200 Kg               |
| DIMENSIONS        | 4.1 X 2.0 X 2.8 m     |

Es el "non plus ultra" en el corte de la piel. La enarme área de corte (3.6 x 1.4 m) y el sistema de proyección conhicitado par microprocesado; hacen que la FC4 360 sea el sistema más fexible y productivo del mercado. FC4 360 es el instrumento ideal cuando se fisma que trabajar con piszas grandes y pieles grandes a fambién con muchas pieles pequeñas en el mismo flempo.

 AREA URL
 3600

 VELOCIERAD:
 100 e

 Proyector movil en dos elles
 30MBA:

 SOMBA:
 5.5 K

 PISO:
 2200

 DIMENSIÓN:
 4.1 X

3600 X 1400 mm 100 cm/sec (60 m/min) os ejes 5.5 Kw 2200 Kg 4.1 X 2.0 X 2.8 m

0

Il mon plus uttra' nel taglio pelle. L'enorme area di taglio (3.6 x 1.4 m) ed il sistemo di projezione controllato da un microprocessore, rendono FC4 360 il sistema più flessibila e produttivo sul mercato. FC4 360 e lo strumento ideole quando si deve lavorare con sagarne grandi e pelli grandi o anche con molte picable pell nello stesso momento.

 AREA UTILE:
 36001

 VELOCITA:
 100 ci

 Protettore mobile su due casi
 POMPA:

 5.5 Ki
 PESO:

 DIMENSIONE:
 4.1 x 3

3600 X 1400 mim 100 cm/sec (60 m/min) je cssl 5,5 Kw 2200 Kg 4,1 X 2,0 X 2,8 m

360





## FC4 360

The 'non plus uttra' in leather cutting. The huge cutting area (3.6 x 1.4 m) and the system of projection, controlled by a microprocessor, make the FC4 368 the mast flexible and productive system available in the market. FC4 360 is the ideal instrument to work alther with big shapes and big leathers or also with a lat of small leathers at the same time.

m

| USEFUL AREA:     | 3600 X 1400 mm        |
|------------------|-----------------------|
| VELOCITY:        | 100 cm/sec (60 m/min) |
| Movoble projecto | r on two axes         |
| PUMP:            | 5.5 Kw                |
| WEIGHE           | 2200 Kg               |
| DIMENSIONS       | 4.1 X 2.0 X 2.8 m     |
|                  |                       |

Es el 'non plus ultra' en el corte de la piel. La enarme área de corte [3.6 x 1.4 m] y el sistema de proyección controlado par microprocesodor, hacen que la FC4 360 sea el sistema más flexible y productivo del mercado. FC/4 360 es el instrumento ideal cuando se tiane que trabajar con piezas grandes y pieles grandes a también con muchas pieles pequeñas en el mismo tiempo.

AREA UTL: VELOCIDAD: Proyector movilieri dos ejes BOMBA: 5.5 K PESO: DIMENSION:

3600 X 1400 mm 100 cm/sec (60 m/min) 5.5 Kw 2200 Kg 4.1 X 2.0 X 2.8 m

0

📕 📕 Il 'hon plus ultra' nel taglio pelle. L'enorme area di taglio (3.6 x 1.4 m) ed il sistemo di projezione controllato da un microprocessore, rendono FC4 360 il sistemo più flassibila e produttivo sul mercato. FC4 360 e lo strumento ideole quando. si deve lavorate con sagarne grandi e pelli grandi o ariche con motte piccole peti nello stesso momento.

AREA UTILE: 3600 X 1400 mm VELOCITA: Piciettore mobile su due assi POMPA: 5.5 KW PESO: DIMENSIONE:

100 cm/sec (60 m/min) 2200 Kg 4.1 X 2.0 X 2.8 m

360

TESEO

Websterner stra



0

mm. 800

mm. 1800

mm. 1000

TESEO



HЦ



ed projection system to work close to the leather.

| USERIE AREA:      | 2400 X 1000 mm       |
|-------------------|----------------------|
| VELOCITY:         | 75 cm/sec (45 m/min) |
| Movable projector | on one axis          |
| PUMP:             | A Kee                |
| WEIGHR            | 1400 Kg              |
| DIMENSIONS:       | 3.0 X 1.6 X 2.6 m    |

81

240

180



Sistema de proyección invertido para trabajor más cerca de la plej.

| AREA UTIL                 | 2400 X 1000 n    |
|---------------------------|------------------|
| VELOCIEAD:                | 75 CITVISIOC (45 |
| Proyector móvil en un eje |                  |
| BOMBA:                    | -4 Hw            |
| PESC):                    | 1400 Kg          |
| DIMENSIÓN:                | 30×16×26         |

mm 5 m/min) 6 m

📕 📕 Selema di prolezione sibaltata per lavorare più vicino al polloma.

| AREA UTILE           | 2400 X 1000 mm       |
|----------------------|----------------------|
| VELOCITA:            | 75 cm/sec (46 m/m/n) |
| Projettore mobile su | un asse              |
| POMPA:               | -4 KW                |
| PESO                 | 1400 Kg              |
| DIMENSIONE:          | 3.0×1.6×2.6m         |





ct model with innovative characteristics. Cimension and ances suitable to out prototypes and for production. Revibility and are the main paints of this model.

> 1800 X 800 mm 50 cm/sec (30 m/min)

4 KW 1100 Kg 2.1 X 1.4 X 2.2 m

de este modelo.

ÁREA ÚTIL: VELOCIENOS Proyector móvil BOMBA: 100500 DIMENSION:

ONS

1800 X 800 mm 50 cm/sec (30 m/mm) 4 Kw 1100 Kg 2.1 X 1.4 X 2.2 m

Modello compotto con caratterutiche innovative. Dimensiani e prostabani adatto sia per il taglio di prototipi sia per la piccola produzione. Pessibilità ed aconomiattà sono i punti di forza di questa modello.

AREA UTILEI VELOCITA: Protentiale mobile POMPA: PESC: DMENSIONE:

1800 X 800 mm 50 cm/sec (30 m/min)

4 104 1100 Hg 2.1 X 1.4 X 2.2 m



## **OPTIONALS**

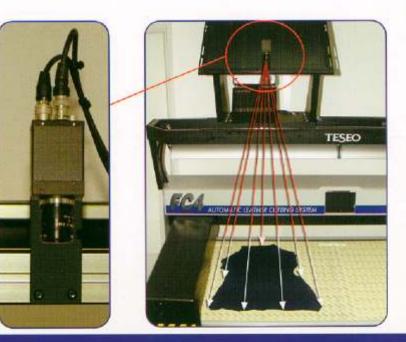


VISION

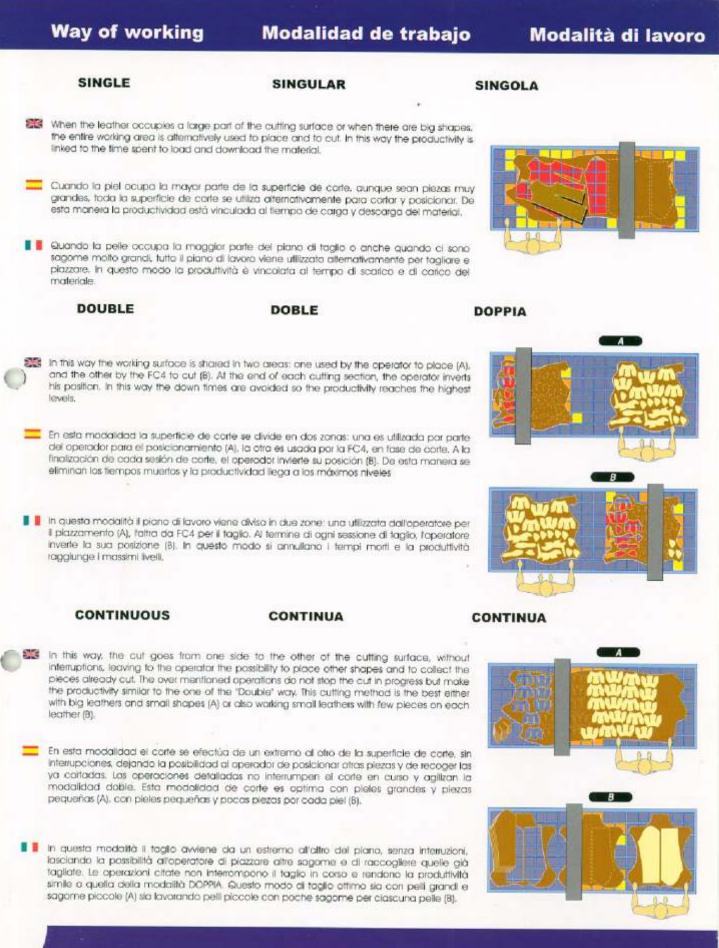
VISIÓN VISIONE

High definition camera to acquire and vectorize the skins at the border of the machine.

- Telecámara de atta definición para adquirir y vectorizar las pieles al borde de la máquina
- Telecamera ad alta diefinizione per l'acquisizione e vettorizzazione del pellame a bardo macchina.

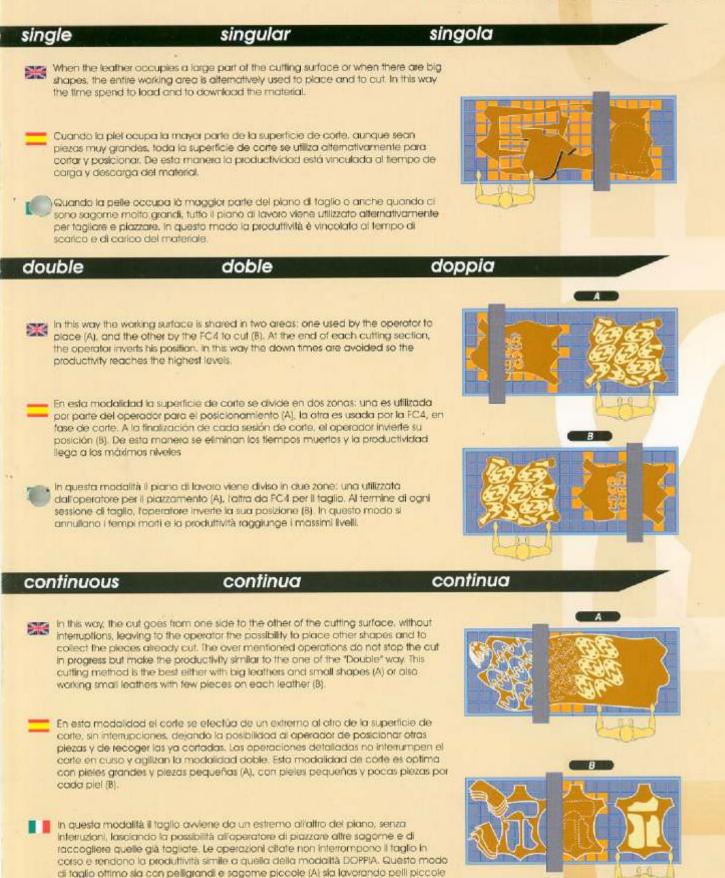


27





# Way of working Modalidad de trabajo Modalità di lavoro



con pache sagome per clascuna pelle (8).



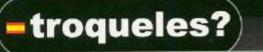
# AUTOMATIC LEATHER CUTTING SYSTEM



Area di lovoto 3600 x 1400 mm. Protettore mobile su due assi Dimensione 4.1 x 2.0 x 2.8 m.



inutili e costose.



inútiles y costosos.





i.

Т

- Cutting head with 5 tools: 1 Knite (Oscillating from 200 to 1000 Hz). 1 Pen (Refl Black, Blue and Silver).
   1 Pin marker (3 marks available), 2 Punches (rotating with Ø from 0.5 to 12mm and bayonet connection). Motions on precision guides and on refaced re-circulating balls lead screw (ISO5).
- CAL Placement resolution +/- 0.01mm.
   Sectorized vacuum surface at dynamic control.

  - Interactive and automatic Nesting software.
     Complete Integration (I/) the CAD and interface from the management system, for the cutting orders.
  - Velocity 100 cm/sec (60 m/min).
  - Integrated lighting system.

- Cabezal de corte con 5 utensilos: 1 Cuchillo (Vibrante de 200 a 1000 Hz), 1 Boligrato (Refi Negro, Azul 60 y Plata), 1 Punzán marcadar (3 improntas disponibles), 2 Boquillas (Giratorias con 97 de 0.5 a 12mm y ataque rápido)

- TEGN - Movimientos en guías de precisión y tomilos a ricirculo de cojinetes rectificadas (ISO6). - Resolución de posicionamiento +/- 0.01mm.
- Superficie aspirante sectorizada a control ainámico.
- DATOS
  - Software de Nesting interactivo y automótico.
     Integración completa con el CAD y interfaces para los órdenes de corte desde sistemas gestionales.
    - Velocidad 100 cm/seg (60 m/min).
       Sistema de illuminación integrada.

    - Testa taglio con 5 utensil: 1 Lorno (Osciliante da 200 a 1000 Hz), 1 Penna (Refil Nero, Biu e Silver), Marcotore (3 impronte disponibil), 2 Fusielle (Rotanti con Ø da 0.5 a 12mm ed attacco rabido).
       Movimentazone su guide di precisione e viti a ricircolo di sfere rettificate (ISO5).
- 25 - Risoluzione di posizionamento +/- 0.01mm.
  - Piano aspirante settorizzato a controllo dinamico.
  - Software al Nesting interattivo ed automatica.
  - integrazione completa con il CAD ed interfaccia per ordini al taglio da sistemi gestionali.
  - Velocità 100 cm/sec (60 m/min).
  - Satema di illuminazione integrata.



15500 spo Z.I. Głoska 53623 FERVIO (44) GALY 161 + 39 0734 620514 Fox + 39 0734 620514 at into \$1 seo con HEADQUARTERS

ò

ISCHOLOGIA ISSO EFARA Goyanes 16 Polgono Indulti 02206 ELCHE JALICANTE ESPA Tel. = 34 96 666 210F Fax. = 34 96 543 2120 nal: into esg

155ED FRANCE and 10. Asimute North Lafetr Sing 45250 LA SEGUINERT (RAVICE Tel: +33 241 560014 Frax: +33 241 560014

TESEC DO BIJASE ado An Nações Bridas, 1955 Sia Branco 92310-500 NOVO HAMERICEO (RA) BIJASE, Noviño: HSS 19 195 4373 e-mail: HSS brighteseo.com

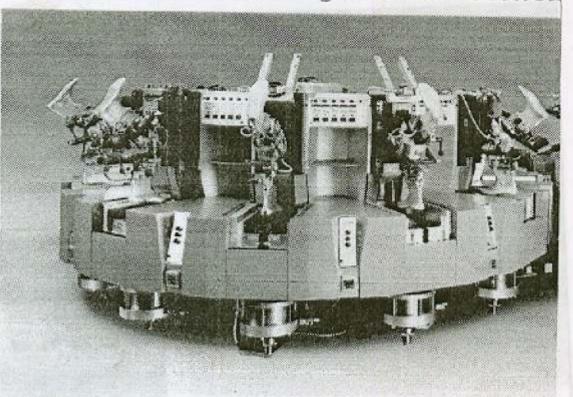
TESEO MENICO La de a v Bied, Addito úbjet Notico 3407 int. 3 Rana de Guadaupe 372801504 (SFC) Tel. + 62 47 77 716210 Fex. + 62 47 77 716211 Fex. + 62 47 77 71621

IISTO TURKEY Fait Cod. Gilterer sol. Money / STANED

- www.teseo.com -

# Rotary Injection machine

# Rotary-table injection moulding machine for direct sol



### St The S as will sum a

## Direct soling

With modern injection seconology for the direct soling of rubber, we offer improved economy and product quality in comparison with the vulcanizing press system.

Important advantages of direct soling with notary table injection moulding machines of the 731/732 series are:

- Labour saving human production
- Injection at high material tempetorures resulting in efficient and very short heating times
- Reduction of rejection and limishing 00545
- Exact material metering without confection and intermediate storage of rubber plates or bricks
- Process orientated extended moulding times
- Absolutely homogeneous vulcani-zation and therefore first-class physical properties
- Application of all listing systems, even string-lasting and sliplasting in combination with excellent adhesion between upper and sale.

The series 731/732 has been developed on the basis of long years of experience and worldwide success in rubber injection moulding tochnology. Therefore, this series fulfils all requirements of process and application technology in combination with high reliability by qualified engineering and control concepts.

Processing of all natural or synthetic rubber compounds and cut-hacks is possible. Applications include all types of shoes from flexible sports shoes to safety shoes even with steel caps and/or steel insplex.

### Standard machine

- Rotary table with 12 mould stations
- Injection unit type PSA 171
- Hydraulie anit
- Control punct and control calinet Safety gate
   Deszna 732 with the-usp device

## Injection Unit

- Reciprocating screw injection unit
   Screw stroke and screw drive all hydraulic
- All functions digitally adjustable on the control cabinet
- Digital adjustment in 99 steps for. itijection speed
- screw speed
- mazzle contact time (holding
- time) injection pressure
- back pressure
- post injection pressure
   post injection speed
- Digital adjustment in 999 steps for. - stroke measurement for the metering stroke independently far each mould station
- Nuzzle heating regulating circuit
  - Rotary slide valve shut-off nozzle
  - 2 heating zones

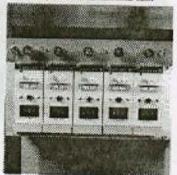
## ing of rubber D 731 S





ManU Mercus or D VII S.

Sleans improve constant and most states



## Mould Station

- Pivoting last head support
- 200 mm x 400 mm mould mounting with quick-action fitting device Mould table with clamping frame
- Mould table with clamping frame and bottom stamper cylinder Automatic pneumatic toggie lever closing system for last stroke and clamping frame Preconaus PLC control using modular printed circuitry with
- Programmed logic functions
   Pash button control at each mould
- stations
- Mould change possible in various positions
- Last support adjustable at 3 levels by pegging into holes spaced 50 mm apart
- Last height correction #3 mm Electronically controlled mould heater in the clamping frame and bottoen stamper support
- Adjustable bottom stamper stroke

- Electric temperature control at each mould station for moulds, lasts and bottom stampers (seperate control) • Adjustable pressure stroke of the
- Sofety reversing switch for all clo-
- sing systems acting in all positions of the rotary table

### Rotary Table

- Machine base in welded steel construction
- 12 fast holders and mouid carriers · Air pressure reservoir for pneu-
- filatic operation \* Electric drive via reduction gearing
- and geneva drive
- Cycling rotation via control cams
   Central energy distributor for; - temperature control mediums - compressed air
- electricity

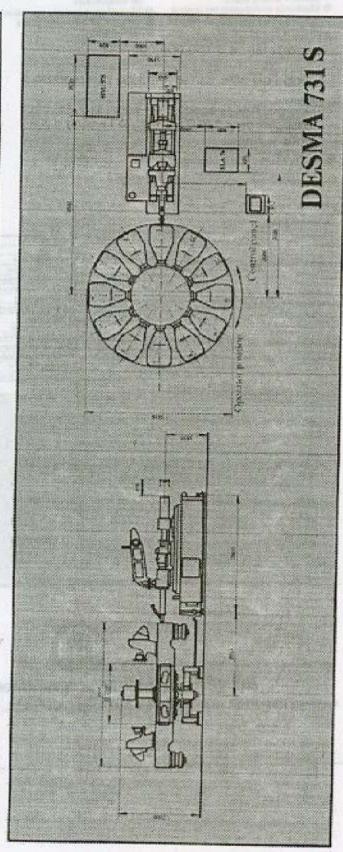


## Hydraulies

- Monoblec hydraulic system
- Stroke control by seal valves and sliding valves .
- Volume and pressure control by position-controlled proportional valves
- Regulating nadial piston pump with combined pressure and supply. How regulators
- Pressure holding pump for con-stant clamping force and nozzle contact pressure
- Automatic machine shut off when the hydrautic oil level fails below minimum
- Automatic control switch off when the permissible oil temperature is exceeded or when the oil filter is dirty

|   | 1 | Ċ, | ţ |
|---|---|----|---|
|   | ÷ | ł  | ł |
|   |   | 7  |   |
| 9 | 2 | ٦  | ì |
| 1 |   | ٠  | ι |
| 1 | - |    | í |
| 1 | 7 | F  | ł |
|   |   |    | b |
|   | S | ź  | 1 |
| 1 | 2 | i  |   |
|   |   |    |   |
|   | ő | 5  |   |
|   | ş | J  |   |
|   | ¢ | 1  |   |
| t |   | -  |   |
| ç | 1 | -  |   |

|  |  | ISA JEL  | Mould cardier  |  | 13111       |
|--|--|--|--|--|-------------|
| SCIEN  | [0/1]  | 65/12  | Last height  |  | Hitl .      |
| Intention pressure, max.   | Prof   | 1100   |  |  | 230/280/330 |
| Internation of the solution of | fand   | 1406   | - WITH distance pleat  | [mm]   | 330/380/430 |
| Supervision of the supervision o | [x00]  | 066  | Bottom stamper streke  | in the second se | 142         |
| Derew stroke   |  | 300  | Reiton annear d'artic Les  | funt   | W           |
| Seren speed  | india 1  | 20-134   | STADI Burdissey sufficient and services  | INI I  | 49          |
| SUTW EMOUE, MAX.   |  | And the second s | Total position sumpor braing   | [KW] =   | 6.6         |
| Street and the street of the   | Env ast  | 172  | Total last heating   | 1.000  |             |
| calculated   | fcm <sup>3</sup> /M  | 26   | Tatal Statistic firmer Acoustan  | - Inv  | 8,4         |
| Fetul hunding enpacies   | 10.11  | The second secon | Stradie sound Screenes was   | [KW]   | 24          |
| Mould camer  | Fuel   | 0  | General data   |  |             |
| And a second sec | and a second sec |  | No. of mould stations  | and the second se  |             |
| Mould theastrements  | (entral)   | 209 x 400 (170 e 165)  | True and the second sec | heboard  | 12 (14)     |
| Heating farme heisht   |  |  | A YOAR SWITTENEON MORE / BEALLIE   | [W]  | 46.5        |
| Onseine states   | Truten)  | 1  | I tital connected load / motors  | 14MM   | 11.6        |
| Syone Shewin   | [mm]   | 2×50   | Otherstine messive Just and a second   |  |             |
| Last stroke  | Invest   | 130  | Illine of a summary of the summer of the second sec | [pqt]  | 300         |
| Last clatisping accessine  | 1 NUM  | No.  | Derated pressure / nr  | [pad]  | 12          |
|  | I WINI   | 60   | Air consumption at 10 sec. coole time  | Tand The   | 10.1        |



## Electronics, Electrical

- Control cabinet and separate
- operator switch board
   Electronic stored-program control system (DPC) with digital input of all machine parameters
   Digital switches with 99 or 999
- stops for:
- movements
- strokes
- speeds
- times
- pressures
   Electronic LED display for:
   program sequence and status
   Cycle time
  - 2 hydraulic pressures
     screw rotation speed

¥

 Switches and regulators for hydraulics, heating and temperature control

- Visual signals for oil fitter, oil level. oli temperature Manual or automatic operation
- Counter for operating hours
- Shot counter

# Additional Equipment Rubber strip feeding unit and

- strip culter
- The cap device for DESMA 7.31
- Automatic starting
   Voltage stabilizer
   Compressor
- Compressor
- Refrigeration unit

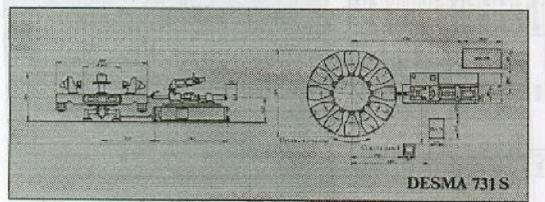
We reserve the right to make changes in dimensions or data.

NUCLEON AND SUCH

4

## **Technical Data**

| Injustices wall                     |            | PSA 125             | Mandal country                         | and the transmission | stelle        |
|-------------------------------------|------------|---------------------|--|----------------------|---------------|
| Line                                | 304.60     | 1971J               | Los hour                               | 1000                 | LORY SHOPE IN |
| Kinds Inde putries IV, stud.        | (Boxt)     | 1+2                 | with distance poor .                   | [ires                | XX4+THF+43P   |
| Interies separate substantial years | 88.2       | 1983                | Easter manper while                    | Constanting          | 10            |
| Sover except                        | IMMC.      | .109                | Basterie realized etcasping sales      | 1626                 | 68            |
| Server grant                        | and "i     | Nazio               | Tintal besiteurs stamper hosting       | 24 M2                | 6.0           |
| Sare Pearl, the                     | şde Neuf i | 172                 | Fwg lad haming                         | prog                 | 6.6           |
| Electricities captering continuous  | \$-#"/YE   | 24                  | T and focatory floars ficaning         | 31931                | Je            |
| Paul success convertion             | 16'61      |                     | Turnerind data                         |                      |               |
| Minerial warring                    |            |                     | Nv of exactle stations                 | (reixid)             | 134141        |
| Manual showed hit Marchal           | 1 MO HOLE  | 2843-004-02703-0409 | Links commenced load / newtong         | (A.S.2 :             | 46.5          |
| Rooting Rooms bergte                | inet.      | 10412459            | Total experience limber shakes         | (4.6)                | 31.5          |
| Opening moles                       | bace-      | 15.00               | Operating pressors a hydraulla upstate | Bool                 | 200           |
| en mes                              | inei :     | 120                 | Opinadop photografiliar                | (Bucg                | 47            |
| Las complex generation              | 10.80      |                     | SP chongo at 12 mil and and            | im de                | 25.3          |





REOCKNER PERROMATIK (DESMA GMBH ) Work Actim : D-DRT Ashes - Dousser, 30 - Telefon (4202) 50-0 - Telex 249-01 Journ d

Oferta de la máquina invectora de caucho directo al corte, rotativa, de 12 puestos, marca DESMA 731:

Precio Total: \$ 3.150.000.000

Anticipo del 30% con la firma del compromiso de compraventa: \$ 945.000.000

Saldo del 70%, pagado a un año: \$ 2.205.000.000, diferido en 12 cheques mensuales de \$ 183.750.000.; ó Leasing a 3 años consiguiendo el Banco el cliente.