





SM-375-TA /

Multiple tool digital cutting plotter

A wide choice of precision tools and accessories

Besides the **customizable dimensions** of the cutting frame SM-375-TA installs a selection of **specifically designed accessories** in a **variety of combinations** allowing an **infinity of machine configurations**: a grip-and-pull system to spread the fabric on the work top and completely automate the cutting cycle; a set of pneumatic pressing bars to secure breathing fabrics to the work top and guarantee high precision cuts; a backlit illumination system to detect flaws in the fabric before it is spread on the work top; a fabric roll warehouse installed in the empty space underneath the machine with; a motorized unwinding system with electronic edge control and digitally controlled dancer for automatic fabric tension adjustment; a series of motorized rewinding systems placed on the side or at the back of the machine to roll up the cut panels.

Multiple technologies

SM-375-TA installs a variety of industrial cutting technologies, individually or simultaneously, in a wide range of combinations, providing an enormous versatility of applications. Based on the fabrics you use in your production SM-375-TA allows you to pick just the technology – or combination thereof – you need and create highly professional, quality products.

Vacuum power for total fabric control

A powerful vacuum turbine and specially designed hole patterns of in the worktop ensure optimal grip on the processed materials. The (optional) sectioning of the work top in multiple zones enables the machine to concentrate the full vacuum power in those areas where the processed materials are placed. This option is particularly important when the pieces of material are much smaller than the cutting frame and ensures great precision of the cut.

Top quality parts

Only the best electronic and pneumatic components are installed on our machines. Parts are sourced from first class manufacturers such as Omron, Bosch, ABB, Schneider Electric, Delta, Emerson (Control Technique), SMC and Dell. Spares are available through SMRE but can be purchased locally in your market, against local market prices, so you do not depend on SMRE in case you need to substitute a component.

Enormous versatility

Whether you cut acrylic, polyester or Trevira with a gantry laser, PVC, Soltis and crystal (clear) PVC with a rotary blade or a drag knife, or panels in Screen fabric with ultrasonic knife for perfectly seared edges, its incredible range of cutting technologies allow SM-375-TA to cut and mark an infinite variety of fabrics and materials and deliver the quality and efficiency you are looking for.

INDUSTRIAL

PRECISION TOOLS

CO₂ cutting and marking laser. The processed materials are not physically touched during the cutting cycle, allowing even breathing materials to be cut with high speed and extreme precision. The heat generated by the laser beam sears the fabric, thus preventing it from fraying – another significant advantage of this technology. Laser is suitable for an infinite variety of patterns on a wide range of fabrics and materials: from straight lines to curves, from extremely complex patterns to holes with an extremely small diameter (0,5 mm).

Drag knife. Allows for high cutting speeds on a wide range of fabrics and materials. Suitable for straight cuts, curves, very complex shapes and holes with very small diameters.

Rotary blade. Diameters and extension of the blade and cutting pressure are adjusted according to the thickness of the cut material. Suitable for carbon and glass fiber.

Ultrasonic cutting head. The heat generated by the ultrasonic vibrations sears the fabric during the cut and prevents the edges from fraying. Ultrasonic cutting is typically used on acrylic, polyester, and PVC coated fiber glass (Screen).

Motorized rotating punching tool. Can process heavy fabrics and materials such as industrial conveyor belts or heavy PVC.

Creasing head. Makes a pre-fold or linear mark in the material or fabric by pressing into the surface without actually making a cut.

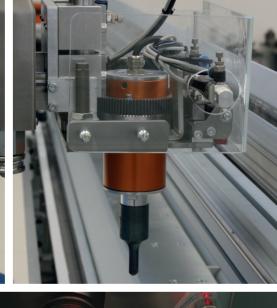
Marker pen. Holds a conventional ballpoint, a felt-tip pen, or any other type of marker. Will make reference marks, draw lines, curves, circles or even highly complex shapes, letters and numbers.

Jet marker with invisible UV ink. Creates marks invisible to the naked eye that become visible under UV light. Draws patterns or identification codes on all absorbent, non-water repellent fabrics such as polyester and acrylic, or natural fibers like cotton and silk.

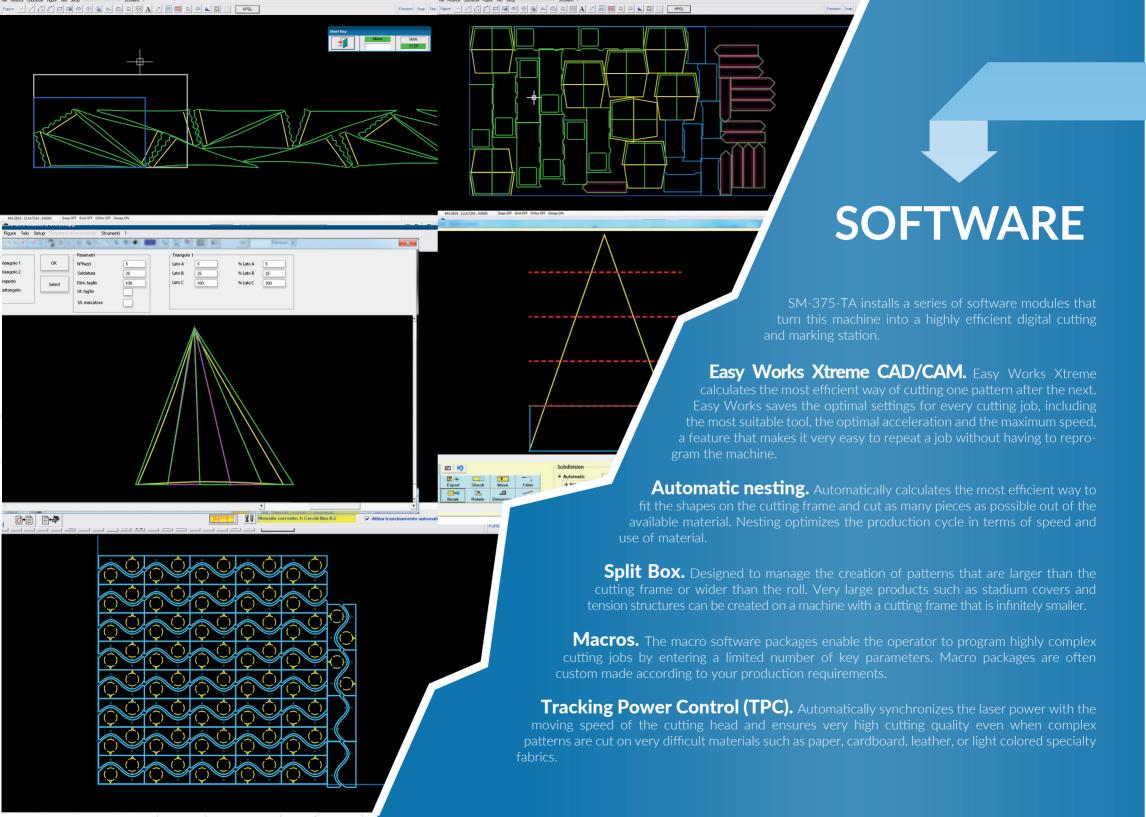
Laser pointer for the dynamic zero

point. By moving a laser dot over the cutting frame with the joystick on the control panel the operator can choose a new ZERO point.











Machine (3,5 x 7,0 m) w/under table warehouse

Power (kW)

10

Voltage (V)

00 (3 phases + N + E)

Circuit breaker (mA)

300

Air (Quality class 1.4.2 ISO 8573) (bar)

6

Air consumption (nl/min)

350

Max. axes speed x/y/z

35/35

(m/min)

. .

repeatibility (mm)

0,1

Certification:

2006/42/EC:2014/30/EU: EN ISO 12100

Footprint Machine (3,5 x 7,0 m) w/under table warehouse

X (mm) 885

Y (mm) 4940

(mm) 898

MAX (mm) 1576

eight (KG) 5500

Images and technical features in this catalogue may differ from the actual product. Some of the images may show machines equipped with optional components, tools and/or accessories. SMRE SpA reserves the right to change or modify the product without any prior notice



SMRE THE GLOBAL MANUFACTURING SOLUTION

Founded in 1999 by Samuele Mazzini, SMRE S.p.a. is a globally operating company based in Italy specialized in the design and construction of industrial manufacturing solutions.

SMRE builds cutting, welding, and sewing machines, and special, custom-made solutions that streamline our customers' manufacturing processes, optimize their efficiency, and increase the quality and output of their production.

More than 1000 manufacturing solutions provided to customers in 40 nations and 6 continents secure our positions as leading supplier of industrial machines.

SMRE is quoted in AIM/Italia since April 2016

