R-Brake 100T

The flexible bending cell

100T

SAFAN® DARLEY

The E-volution in sheet metal working

SafanDarley

SafanDarley is the new global brand of sheet metal working machines, created by the merger of Safan and Darley. SafanDarley represents a unique combination of expertise and innovative power. SafanDarley offers innovative solutions for all types of sheet-metal working, applying revolutionary electronic or hydraulic technology. These innovations are the continuation of our previous milestones, such as the first CNCK

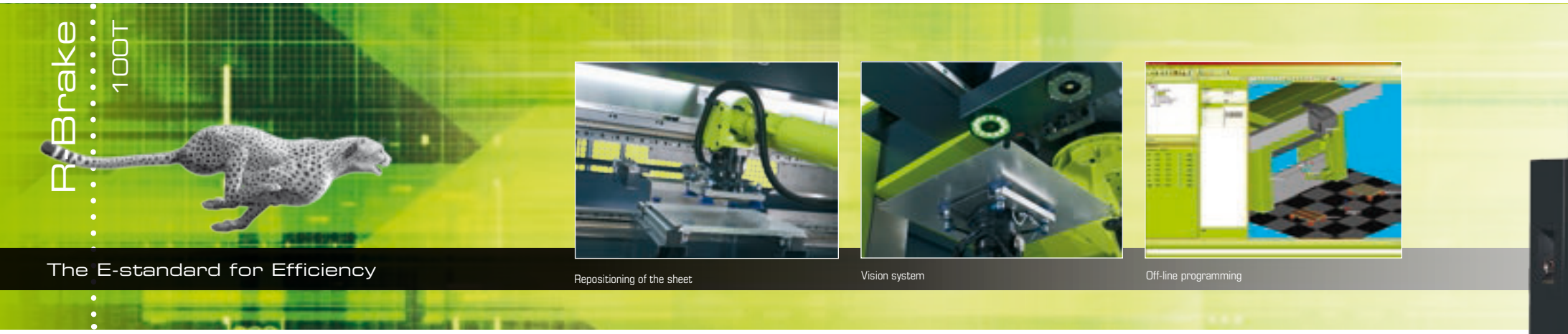
servo-hydraulic brake press in 1980, the first servo-electronic brake press SMK in 1995, the first hybrid guillotine shearing machine in 1999 and the first fully-fledged electronic brake press, the original E-Brake, in 2004. This revolutionary machine concept started a global 'E-volution in sheet-metal working'. SafanDarley now offers a unique programme of electronic brake presses, from the E-Brake 20T Ergonomic to the E-Brake 300T Dual Drive. In the heavier segment too SafanDarley is the leader in innovation, as evidenced by the new generation SafanDarley H-Brake with its unique durable hydraulics.

All SafanDarley machines are operated by means of SafanDarley e-Control or TS Touch Screen control, the most user-friendly Man/Machine interface available. The combined expertise of SafanDarley is particularly strong in the field of automated bending cells and client-specific production solutions, with custom-made machines if so desired.

In a lot of situations, the innovative SafanDarley R-Brake will be the most efficient and economical solution: a unique concept of electronic brake press with integrated robot.

SafanDarley R-Brake: the flexible bending cell

The SafanDarley R-Brake 100T 3100/50 is a unique integrated bending cell for flexible production of a wide variety of sheetmetal products.



Repositioning of the sheet

Vision system

Off-line programming

Compactness

The SafanDarley R-Brake has a compressional force of 100T and a bending length of 3100 mm, the robot arm has a capacity of 50 kilo. The SafanDarley R-Brake's robotic arm can be moved horizontally on a track in front of the machine, which leaves the floor in front of the press brake free for the pallets containing the sheets to be bent and positions to stack the bent products. Other benefit is that the machine also can be operated manually if necessary.

RoboWave bending

Off-Line programming

For the off-line programming SafanDarley offers the RoboWave programming software which enables the user to make programmes for the bending cell and make an accurate simulation. The setup times of the SafanDarley R-Brake are reduced by using this software.

Vision system

The machine is standard equipped with a positioning table but optionally the basic model can be equipped with a vision system (pat. pending) for defining the zero position of the sheet. Double sheet detection is safeguarded by an optional sheet weight sensor which will be mounted in the gripper.

Bending without crowning

As a futher envolvement of the SafanDarley E-Brake, the SafanDarley R-Brake comes with all the benefits of the innovative E-Brake technology. First of all, the unique patented pulley drive in the top beam, which delivers an even, direct distribution of forces. This makes it possible to obtain the most accurate and constant bending angle along the full range of the machine without the need for crowning.

Easy Touch Screen control

Every operator can operate the SafanDarley R-Brake without problems, thanks to the SafanDarley Touch Screen control system. The system can be programmed very quickly and accurately thanks, among other things, to a "self learning" database of materials, tools and previous (corrected) bendings.

Technical specification
SafanDarley R-Brake 100T 3100

R-Brake 100T-3100

R-Brake 100T-3100	Bending force in kN.	Working length in mm.	Stroke press beam in mm.	Approach speed in mm/sec.	Bending speed max.* in mm/sec.	Return speed in mm/sec.	Connected load in kW.	Weight in kg.	Daylight dimension Q in mm.	Robot capacity in kg.	Robot stroke on gantry in mm.
100-3100/50	1000	3100	300	130	10	130	20	15.000	790	50	6000
100-3100/70	1000	3100	300	130	10	130	20	15.000	790	70	6000
100-3100/80	1000	3100	300	130	10	130	22,5	15.250	790	80	6000

* Optional max. bending speed 20 mm/sec.

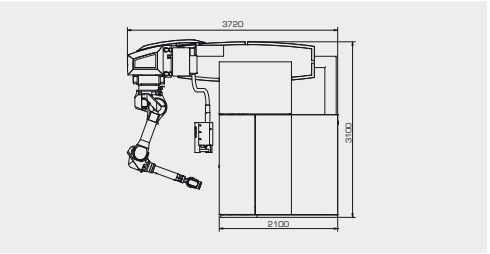
(Subject to modifications)

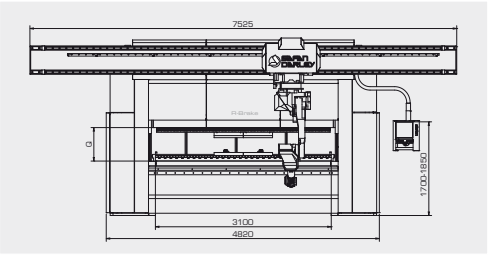
Environmentally friendly and energy-efficient

The absence of hydraulics means that the problems associated with environmentally harmful and risky oil are a thing of the past. What's more, the servo-electronic drive only consumes energy when the beam is actually moving. This can deliver an energy saving of up to 50% compared to conventional hydraulic press brakes.

Reliable and virtually maintenance-free

SafanDarley's servo-electronic technology has more than proven itself in the real world. Besides the much shorter cycle times and more efficient energy consumption, users also praise the reliability and low maintenance costs. You too get all these benefit with the new SafanDarley R-Brake.





E-Brake Ergonomic

E-Brake 35T-200T
E-Brake B 20T-100T

E-Brake 300T Dual Drive

H-Brake 175T-400T

H-Brake HD 500T-1250T

R-Brake

B-Shear & M-Shear

Special cutting lines

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The E-volution in sheet metal working

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