



KARAT - CMS's jewel

- KARAT Series -

The series of Fixed Bridge Machining Centres and the KARAT mobile table, an evolution of the PF 2000 series, encompass all the characteristics that distinguish CMS products: accuracy, reliability, sturdiness, high productivity, flexibility and technological innovation. The design modularity permits countless table versions and working strokes, which may be configured according to the requirements of each Customer.

- Top performance -

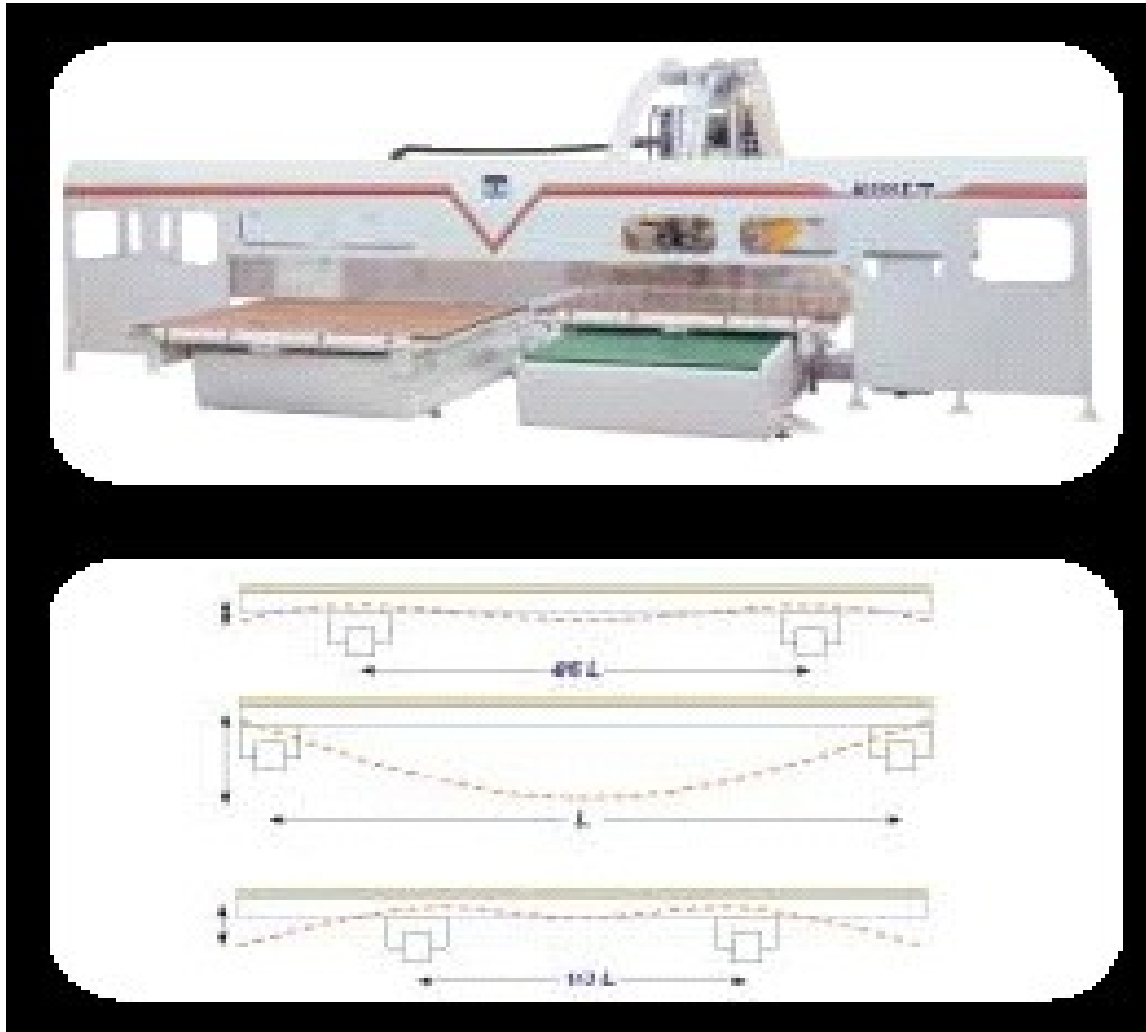
The whole fixed bridge structure is constructed as a single-piece and makes it possible to achieve extreme values in terms of rigidity and stability. All the moving systems have been designed with a view to optimizing the weight/rigidity ratio and are driven by high performance motors. Which yields a speed and acceleration making it the best in its class.

- The complete range of operating units -

The KARAT series is available with all operating units that CMS has developed throughout its 30 years of experience, providing the right size and the right model for maximum flexibility.

- Protection and safety -

The complete cabin protection, combined with the possibility of extracting the tables partially or totally, offers a very high safety level for the operator, protection against any part in motion, accessibility to the loading area and reduction of dust in the room.



- Distance between guide centres -

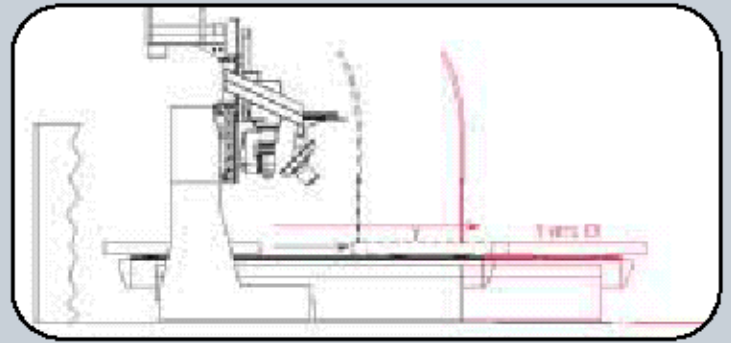
The Y axis way stroke (table handling) has adopted the “four/sixths” sliding block-squaring model (ratio between table width and distance of guide centre), that is the ideal technical solution for an optimum table balance. All cable ways and sliding/motion mechanisms are positioned under the tables and completely protected by a special belt.

- A endless range -

Single-table and dual-table versions, 4 table widths, partial or total table extraction, 4 working heights, 10 crosspiece (bridge) lengths: these are the numbers that allow configuration of the KARAT in more than 200 dimensions from the catalogue.

Machine fronts / Partes frontales de la máquina**Table front / Parte frontal de la mesa**

Single table <i>Una mesa</i>	1/6	1 x 1.860 mm
	1/8	1 x 2.520 mm
	1/10	1 x 3.120 mm
Dual table <i>Mesa doble</i>	2/4	2 x 1.260 mm
	2/6	2 x 1.860 mm
	2/8	2 x 2.520 mm
	2/10	2 x 3.120 mm

**Speeds and accelerations / Velocidades y aceleraciones**

X	100 m/min	> 3 m/s ²
Y	100 m/min	> 3 m/s ²
Z	20 - 30 m/min	> 3 m/s ²

Machine depth / Profundidad máquina

	X5	X7	X8	X10
Table depth <i>Profundidad mesa</i>	1.560 mm	2.160 mm	2.520 mm	3.120 mm
Y	Standard	2.490 mm	3.090 mm	3.450 mm
	EX	3.880 mm	5.080 mm	5.800 mm