

# ZAYER

CNC milling machines  
Milling Centres



The entrepreneurial attitude that ZAYER adopted from the outset led us to export our first milling machine to Brazil in 1954. Since then, our volume of exports has expanded to encompass over 70% of our total production.

Germany, Italy, France, Brazil, China, India, Holland, Belgium, the USA, Austria and Turkey are among the markets on which our machining solutions have been tried and tested, and where their quality has met with approval.

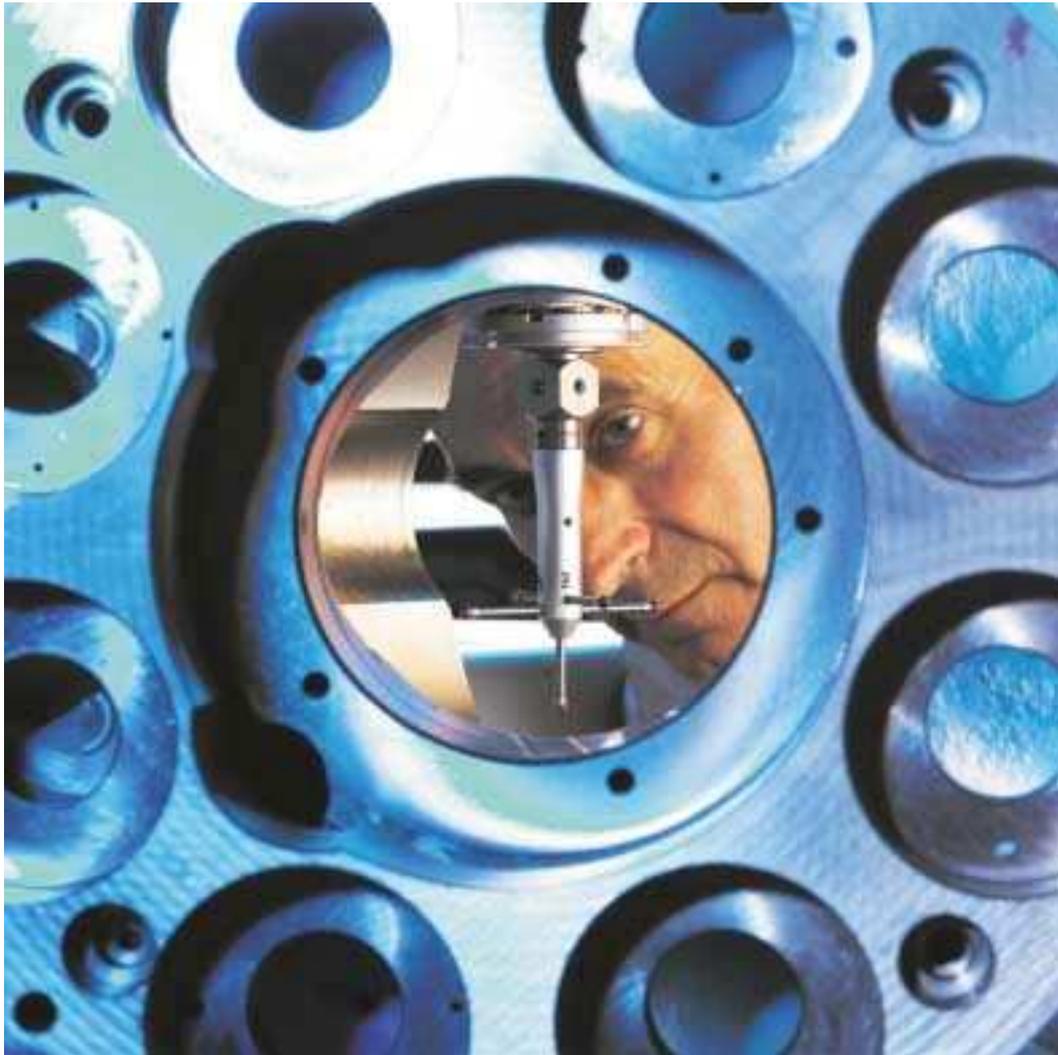
Our global presence is based on an extensive sales network, with company branches in France, Italy, Mexico, Brazil and China. In addition, distributors and agents with highly skilled customer service teams are permanently on hand to cater for our customers in more than 40 countries.



We aim to offer our customers products with high added value, where technology and quality are concerned.

That has led us to implement state-of-the-art technological developments, as well as policies geared to continuous improvement as regards both the design of our machines and the quality control processes that they undergo.

Our staff constitute an unbeatable **guarantee** of the overall quality of each of our products.



We believe that to be the best **strategy** for retaining our leadership in the fields of technology and quality.

In order to develop that strategy, we employ professional experts who, working with cutting-edge equipment, take care of everything from the design, meticulous production and precise assembly of our machines to personalised technical support for our customers.

Before offering each of our products, we undertake a thorough process geared to **familiarising ourselves with and analysing** the customer's specifications.

We regard that as being the best way to provide the customer with a proposal for the high-technology machining solution that best meets their requirements.



The qualifications of our staff enable us to prepare **time studies**, to develop machining processes and to engage in **part programming**.

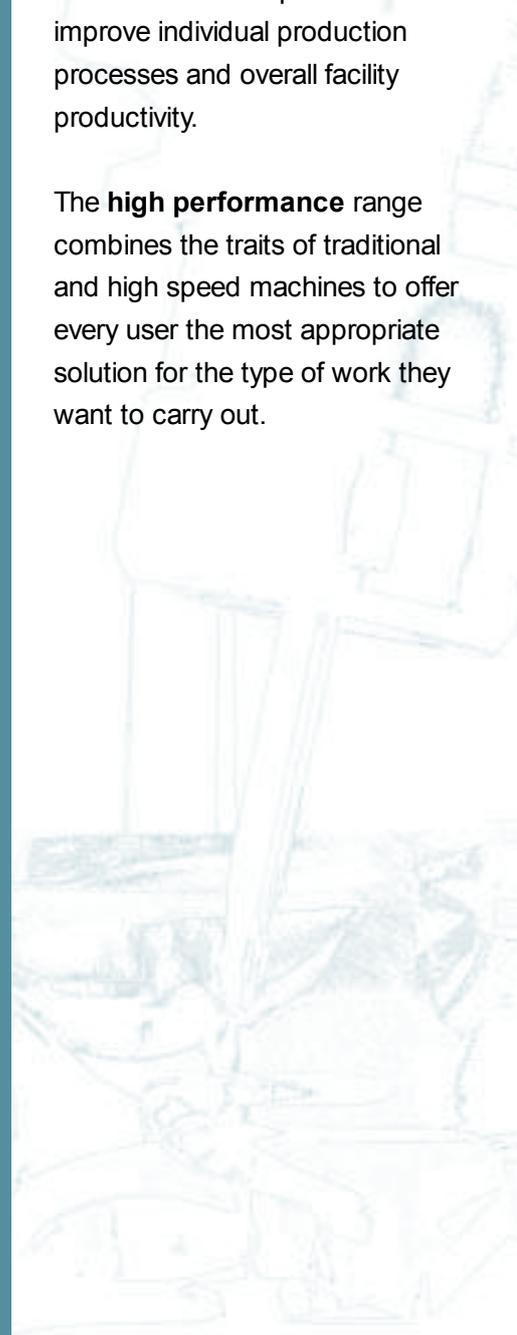


The inquiring minds of our engineers and their constant interest in enhancing our design, creation and production processes through the incorporation of state-of-the-art technology make us a reliable, leading company. Our participation in **international R&D projects** is testimony to our permanent focus on achieving such continuous improvement.

Our in-depth knowledge of the difficulties that milling entails has enabled us to create a new technological concept, namely **high performance**.

Standard **high speed** features are often underused due to the material being worked on or the very nature of the job in hand. This is where the **high performance** concept takes on the greatest importance, as it involves a blend of parameters that improve individual production processes and overall facility productivity.

The **high performance** range combines the traits of traditional and high speed machines to offer every user the most appropriate solution for the type of work they want to carry out.



Turbines

Our product range comprises gantry, bridge, moving column and bed type milling centres and milling machines.

Our machines are intended for the manufacturing of dies and moulds for the automotive, wind power, railway, maritime, aeronautics and aerospace sectors, as well as for machining in general.

Die cutting



30 KFG - AR

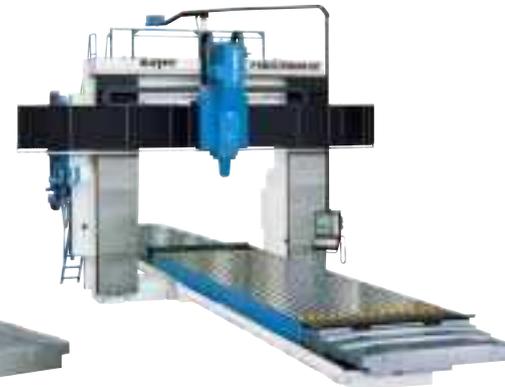


KFCU - AR

Wind Power



KPCU-AR



FMCU-AR

Aeronautics

Bed Type

Models

Models		20KF/ 20KFU	20KFG	30KF/ 30KFU	30KFG - AR	KFC/ KFCU-AR	20KM/ 20KM U 20KMC/ 20KMCU	30KM/ 30KM U 30KMC/ 30KMCU
Table length	mm	3000-5000	1000-1250-1600	3000-5000	1000-1250-1600	3000-8000	3700-11700	3700-11700
Table width	mm	1000 (1300)*	1000-1250-1600	1000 (1300)*	1000-1250-1600	1000 (1300)*	1200	1200
Longitudinal travel	mm	2700-4700	1350-1850-2500	2700-4700	1350-1850-2500	2700-7700	2400-3400 (KM) 4200-10200 (KMC)	2400-3400 4200-10200
Cross travel	mm	1200	1200	1250 (1500)*	1250 (1500)*	1250 (1500)*	1200	1250 (1500)*
Vertical travel	mm	1000 (1500)*	800 (1300)*	1500 (2000)*	1500 (2000)*	1500 (2000)*	1000 (1500)*	1500 (2000)*
Main motor power	kW	28	28	37	37	37	28	37

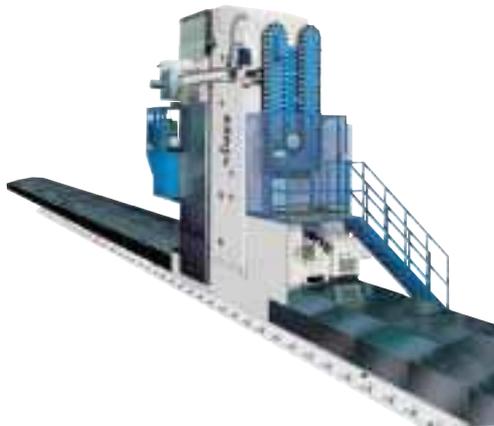
(\*Optional)

Cutting-edge industries require equipment that provides speed and flexibility. ZAYER offers **multifunctional solutions** based on traditional products, resulting in durability, tremendous reliability and high precision.

We are thus able to provide each customer with a specific, **custom-made** machine in which the milling, boring and turning functions can be combined to enhance precision, reduce costs and minimise the need to handle parts.



KMCU-AR



60 KCU-AR



30 KCU-AR



GMCU-AR



GPCU-AR/ 2C

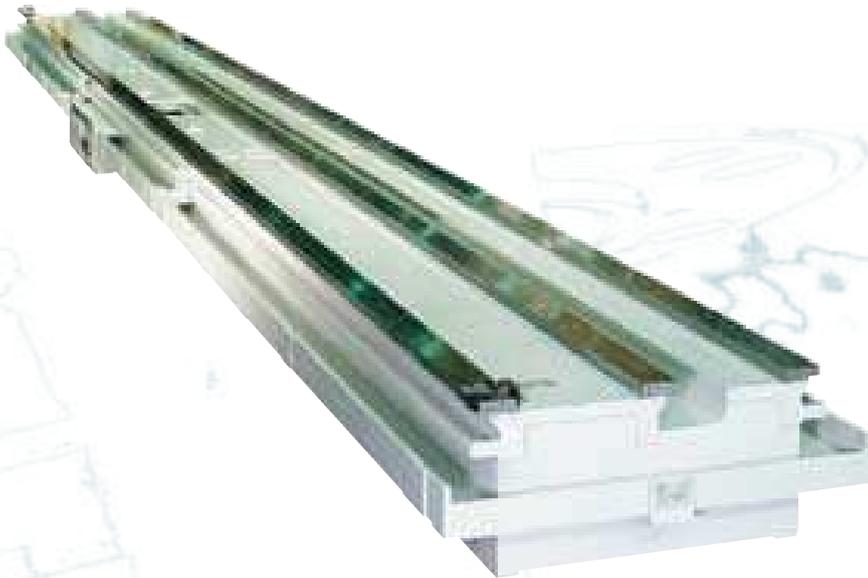


MEMPHIS

**Moving column**

**Bridge type**

KMC/ KMCU-AR	20KC/ 20KCU	30KC/ 30KCU-AR	60KC/ 60KCU	KP/ KPU-AR	KPC/ KPCU-AR	FPC/ FPCU-AR FMC/ FMCU-AR	GPC/ GPCU-AR GMC/ GMCU-AR	MEMPHIS MEMPHIS U
4700-15700 1200	5000-11000 1500	5000-16000 1500-2000	5000-25000 2000-4000	3000-4000 1800	4000-8000 2000 (2500)*	6000-15000 2000 (4000)*	5000-28000 2000-3000	2500-11500 2000 (3000)*
3200-14200	4000-10000	4000-15000	4000-24000	2700-3700	4000-8000	6-15000	4000-27000	3000-12000
1250 (1500)*	1200	1250 (1500)*	1250 (1500)*	3050	3550	3550-5550	4050 (4550-5050)*	2000 (3000)*
1500 (2000)*	1500 (2000)*	2000 (2500-3500)*	3500 (4000)*	1100	1100	1100 (1250)*	1100	1100
37	28	37	60	37	37	40	40	28



FMC bed



30 KC-AR column



KMC-AR/ 30 KC-AR saddle

All the structural components of ZAYER's machines are **designed using state-of-the-art technologies**, such as 3D design and finite element analysis.

Additionally, the aforementioned structural components are manufactured in pearlitic cast iron, giving them **greater structural and thermal stability**.

In conjunction with our guide system, the above constitutes a guarantee as regards the ultimate finish of each part worked upon, thanks to optimal performance in terms of vibrations during machining.

KPs / FPCs / FMC Ram



Head



Made from hardened steel, the guideways of our machines are prismatic and straightened, with a hardness of HRC 58-62 and a box section with a thickness of 60 mm.

In contrast to the guideway systems used by most of our competitors, the preload in ZAYER machines is precisely adapted to the required values thanks to tempered steel roller packs, with **independent, adjustable preloading**.

The most important aspect is that the aforementioned values can be maintained and adjusted over time, meaning that the machine **will not lose its original specifications where performance and precision are concerned**, even after many years of service.



**Z**AYER was the **first Spanish manufacturer** of machine tools to introduce a 45° head to the market. The company has more than 30 years' experience of developing and manufacturing the product in question.

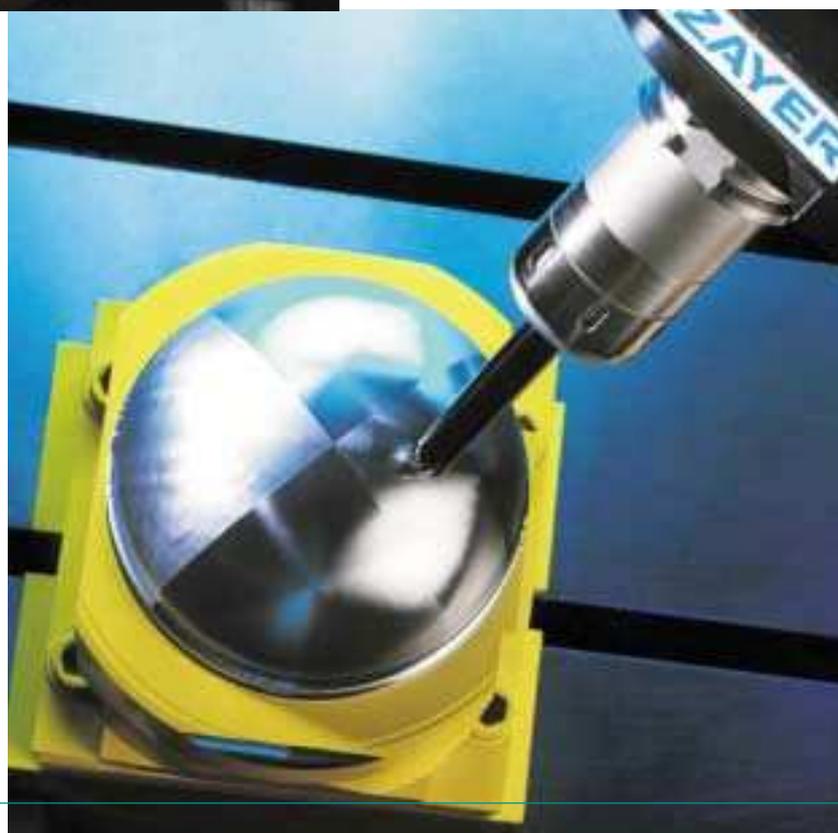
With 360,000 positions and the capacity to rotate at up to 6,000 min<sup>-1</sup>, ZAYER's automatic 45° head can be positioned in increments of 0.001°, on the head and the elbow alike (continuous work is possible in the latter case). **Patented in 1994**, the automatic 45° head is further proof of our capabilities in terms of innovation and development.

## ZAYER automatic 45 HEAD with 360,000 positions

Two axes with 360,000 positions in increments of 0.001° and a rotation speed of 6,000 min<sup>-1</sup>

Direct position reading

Interchangeable with other types of heads



45 Manual Head

45 Automatic Head

TWIST Head

TWIST + Electrospindle

Direct Outlet Head

Direct Outlet  
with Quill

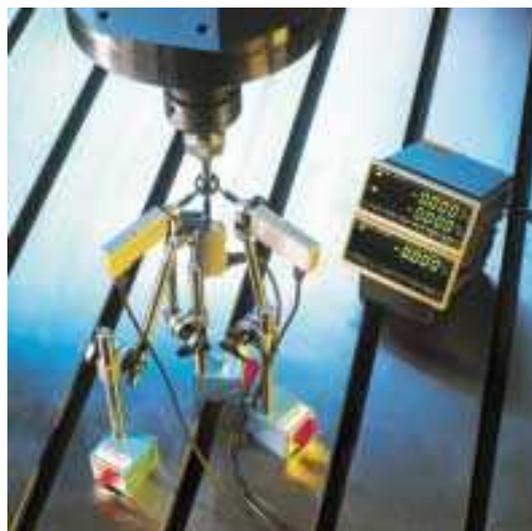
Our machines are developed to be fitted with a wide range of **accessories**, as well as with different kinds of heads, and even with a quill with automatic movement, in certain cases.

We thus offer our customers the option of optimising the functions and features of their machines, based on their requirements and the nature of the work to be undertaken.



The use of a Rack and double motor and pinion to drive the X and Y axes (longitudinal and cross, respectively) is one of the main traits common to most of the machines that ZAYER manufactures.

Electronically preloaded, the system in question provides improved dynamics and **eliminates play**. The use of this system **enhances the acceleration** of our machines.



With a view to maintaining our characteristic level of leadership and guaranteeing the high quality of our products, we boast **the market's finest production equipment**, including ZAYER bridge and gantry milling machines.



Behind our reliable, renowned, high calibre production equipment, there is a quality control department that tests and checks all our products on the basis of international regulations.

The use of cutting-edge **methods and apparatus** for the purposes of quality control guarantees the finest results and constitutes the cornerstone of our total-quality policy. ZAYER has held UNE-ISO 9001 certification, issued by AENOR, since 1996.



Our **customer service** reflects our unique concept of quality.

Our customers are safe in the knowledge that **immediate, effective, professional** technical support is available to them at all times, for each and every one of the products that we supply.

To that end, we provide **training** on machine operation and **maintenance**, so as to guarantee optimal results.





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