



SPECIAL GRINDING MACHINES FOR AEROSPACE FIELD

WWW.AZSPA.IT

AKP - External CNC Gap Grinder
GSB - Internal CNC Grinder

AZ spa - via dell'Electronica 20 36016 - THIENE ITALY - phone +39 (0) 445 575543 - fax +39 (0) 445 575756 - email info@azspa.it - skype az_spa



AKP - External CNC Gap Grinder
GSB - Internal CNC Grinder

subject to change as of APRIL 2011



_THE NEW CHALLENGE

_the machine

AKP machine is made with 3 separate bases and GSB machine is made with 2 bases.

Bases are made of high resistance cast iron, thermally stabilized.

With one flat and one "V" guide.

Surface are scraped in order to secure the highest precision of linearity and flatness.

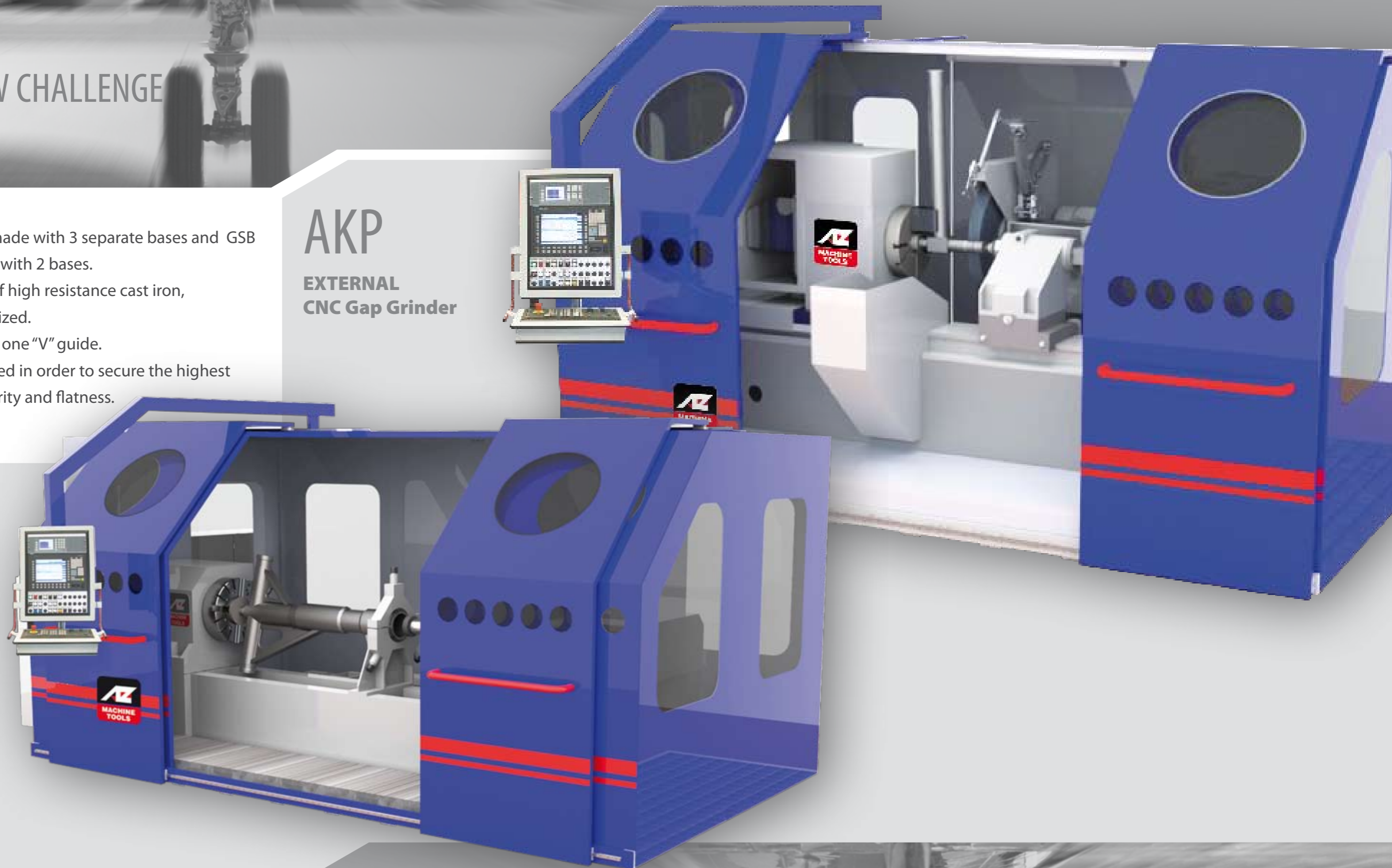
AKP

EXTERNAL CNC Gap Grinder



GSB

INTERNAL CNC Grinder





THE NEW CHALLENGE

AKP External CNC Gap Grinder

AKP

External CNC Gap Grinder

Wheelhead unit

Strong structure, cast iron and thermally stabilized, with scraped surface in order to secure the highest precision of linearity and flatness in the different positions of the grinding wheel head.

Workhead and tailstock unit

Workhead and tailstock are made of highly resistance cast iron.

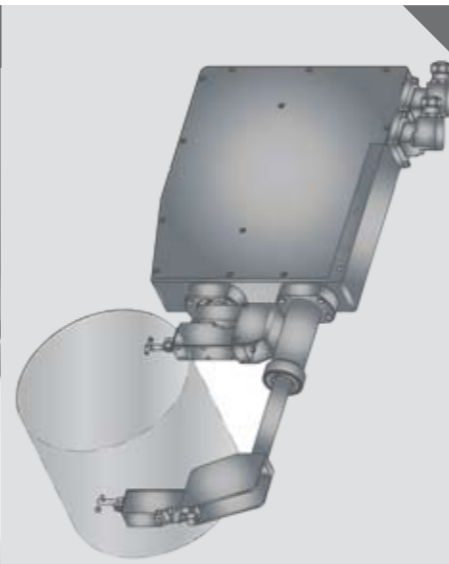
Workhead spindle is fitted up with high precision ball bearings.

Spindle rotation is supplied by a variable-frequency brushless motor.

Workhead spindle speed of rotation is controlled by the CNC (S1 AXIS).

OD Grinding

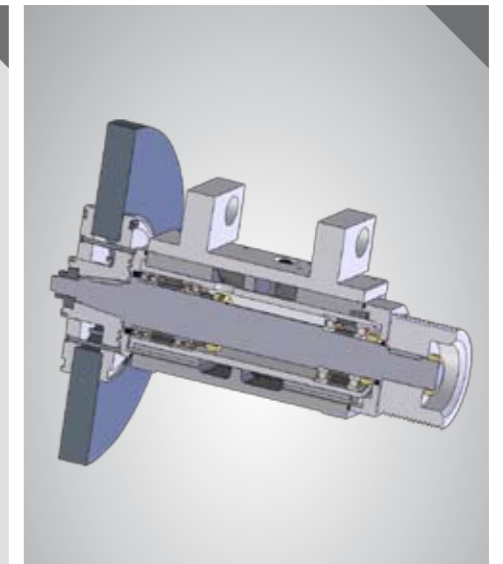
- The spindle is designed to work without any need of lubrication for several years under full employment.
- Wheel spindle speed of rotation is controlled by the CNC (S2AXIS)



Measuring system



Control panel



Grinding wheel

0.4

	AKP CNC GAP GRINDER 1.8 m	unit
CAPACITIES		
Swing over bed	1000	mm
Swing over gap with open gap	2600	mm
Distance between centers with open gap	2486	mm
TECHNICAL SPECIFICATIONS		
Driving power of main motor	25	KW
Workpiece speed range	from 1 to 180	rpm

THE NEW CHALLENGE

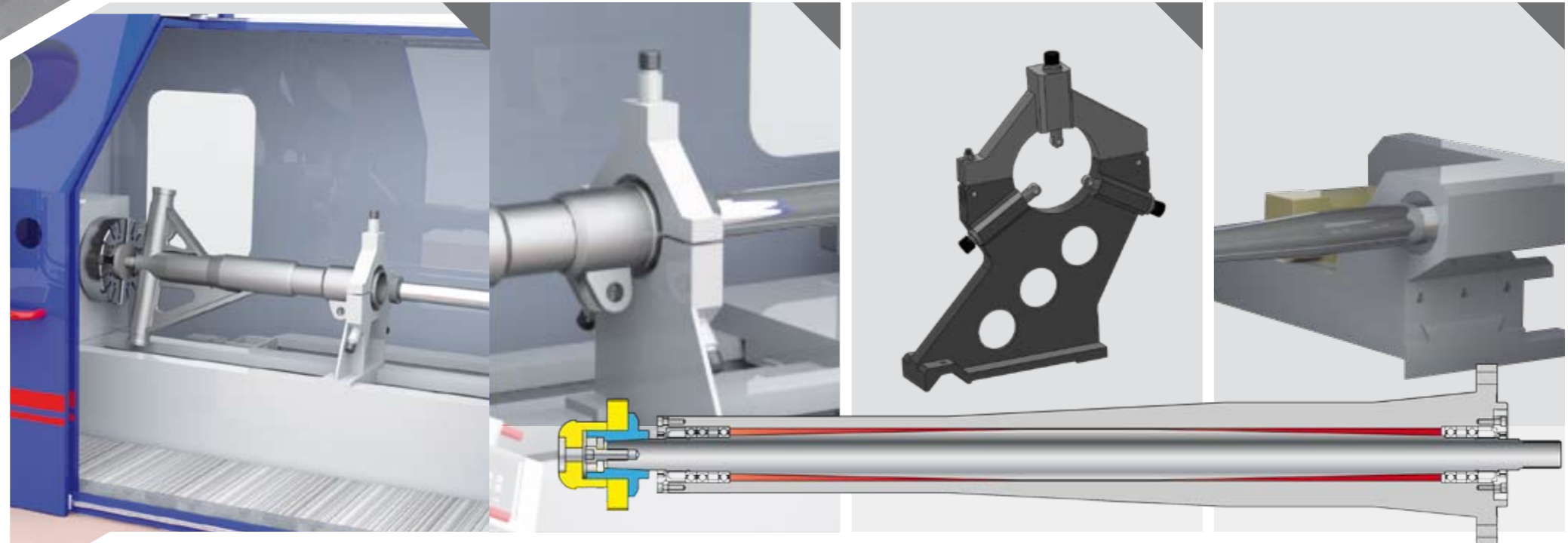
GSB Internal CNC Grinder

Steady rest

The machine is supplied with 1 steady rest to support the piece during the I.D. grinding. The upper part of steady rest opens to permit to load easily the workpiece.

Grinding wheel spindles

On wheelhead unit can be easily placed different grinding wheel spindles for different grinding diameters and/or different grinding length. The machine can grind blind holes with special shape grinding wheel



0.6



	GSB CNC I.D. GRINDER	unit
CAPACITIES		
Swing over bed or gap	900	mm
Maximum length of component	1800	mm
TECHNICAL SPECIFICATIONS		
Driving power of main motor	25	KW
Workpiece speed range	from 0 to 200	rpm