

Kondia



- 2 Production plants in ELGOIBAR 12.800 m²
- Staff of 75 highly qualified





- Member of AFM
- Member of NER GROUP
- Collaborator of Technology Centers: IDEKO and LORTEC.



We cover the developmet of all the project :

- Design.
- Manufacturing and machining of the main pieces of the machine assembly.
- Assemby, starting up of the machine and reception.
- After Sale service and maintenance contracts...







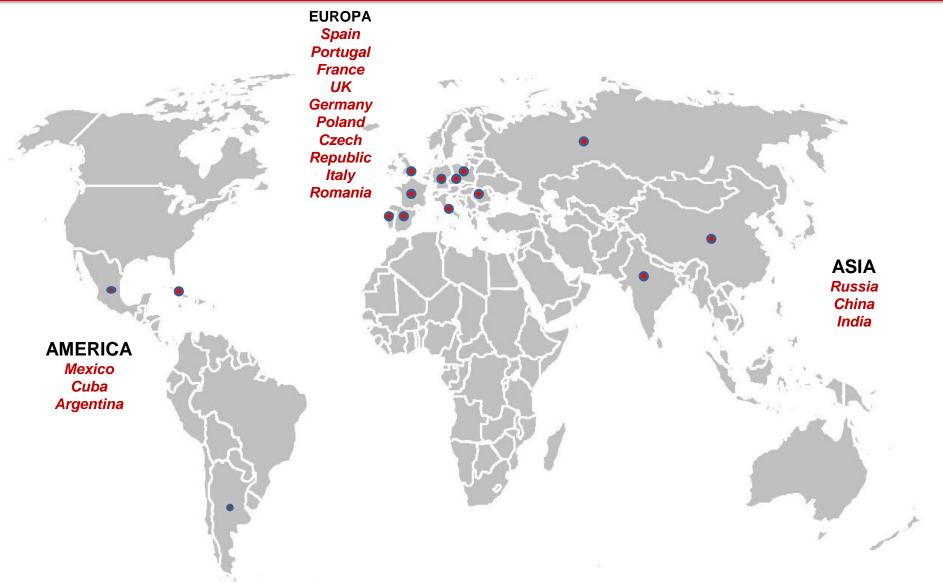
A perfect union...

...your solution



KONDIA in the world









Product range



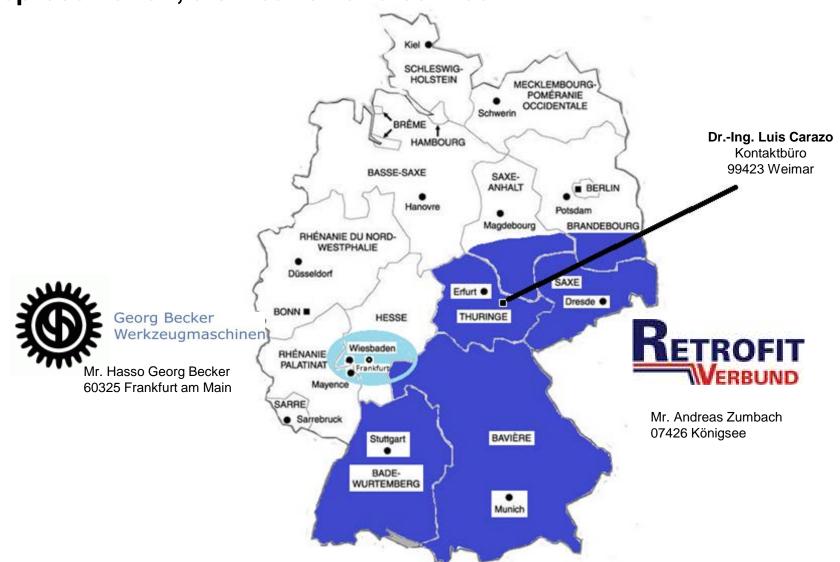
	CVJ	
	Ball & Housing	
	Injection pump	
Special Machines Turn Key Projects	Rotation Friction Welding machine	
- Turn Rey 1 Tojects	Bearings	
	Rear shafts of trucks and vans	
	Any other special work-piece	

Machining Centers	Vertical	Moving Table	3, 4 or 5 axis CNC
		Portal Type	
		Moving Column	
		High Precision	
		Special Machines	
	Horizontal	With two work-posts	
		With 12 pallets magazin	
		Special	

Retrofitting of all type of machines



GERMANY – SPECIAL MACHINES Representation, distribution and service

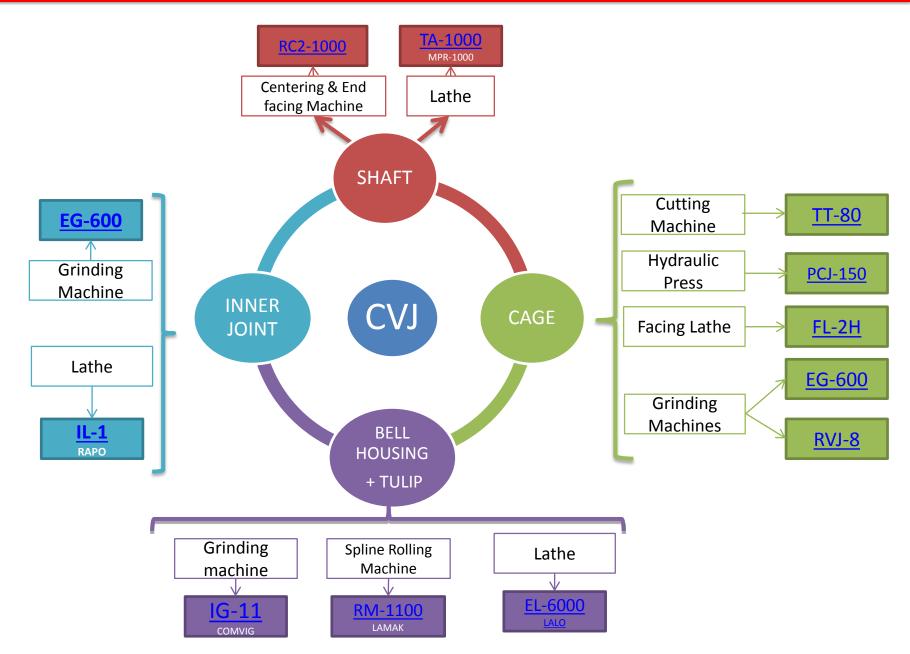




SPECIAL MACHINES FOR AUTOMOTIVE SECTOR

Technical Index Cards







CNC external grinding machine with automatic loading / unloading system

External grinding machine for cage or inner race











GENERAL & TECHNICAL CHARACTERISTICS

- •Machine suited for integration in cell or individually with or without post process.
- •High frequency spindle for wheel head
- •Max. wheel diameter: 600mm
- •Dresser types: blade type plain / formed / radius. Diamond discs formed / cup type
- •Inspection: pre-process / in process & post process
- •Clamping system: chucks / membrane / pneumatic / collets
- •Load & unload time: 3.5"





CNC lathe with automatic loading / unloading system of parts

Internal turning of inner race

TECHNICAL & GENERAL CHARACTERISTICS

•Machine can be operated independently or in a cell combination with or without post processing

Spindle power

•Work spindle: 20 kW

Speeds & feeds

Carriage feeds: 30 m/minMax. Spindle rpm: 4500 rpm

Axis travels

•X axis: 325 mm •Z axis: 280 mm

Timings

•Cycle time depends on the type of part loaded

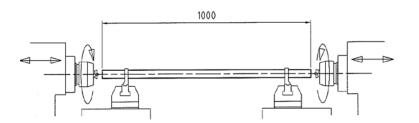
•Loading time: 3.3"







Centering and end facing special purpose machine



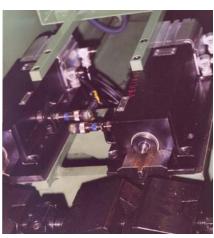




Detail for the portic handler

TECHNICAL CHARACTERISTICS

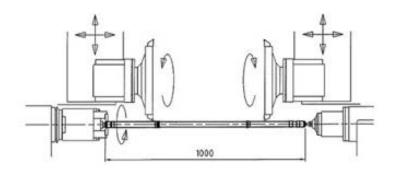
- •Machining of shafts two by tow.
- •Simultaneous machining of four ends
- •Maximum length of the shaft 1000 mm
- •Double handler portic
- •Postprocess for checking of:
 - •Length of shaft
 - •Correct machining of the centering point
 - •Complete cycling time for two parts 19.5 s



Detail of one of the postprocess tester



CNC lathe for shaft machining spindle with automatic loading / unloading system of parts





TECHNICAL CHARACTERISTICS

Power

•Headstock power 15Kw

Feeds

•Max. Spindle rpm: 3500rpm

Timings

- •Cycle time depends on the type of part loaded
- •Loading / unloading time: 7"



•Maximum length of the shaft: 1000 mm



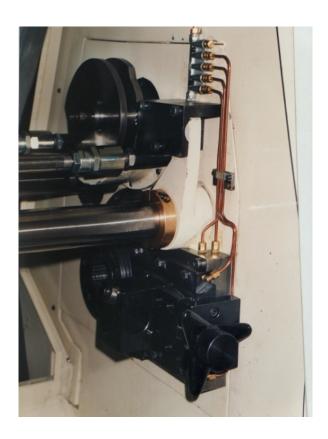
- •Machine suited for integration in cell or individually with or without post process.
- Double turret with tools
- Four axes CNC
- Two steady rest
- Tailstock
- •Fixture & clamping systems to suit the part





Tube cutter

Parting of tubes and shearing of tubes (cage)





Speed & Feeds

Feed rate of axes: 10 m/min.
Max. speed of spindle: 880 rpm
Max speed of saw spindle: 13 rpm

Timing

•Cycle time for one shear cycle: 6 to 7 "

GENERAL CHARACTERISTICS

 Machine suited for integration in cell or individually with or without post process

Max diameter of tube : 80 mmMax length of tube: can be defined



CAGE PCJ-150 CAGE FORMING PRESS

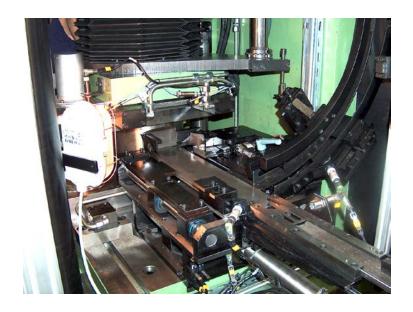


DESCRIPTION & OPERATIONS

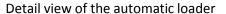
Cage forming press with automatic loading & unloading system

TECHNICAL CHARACTERISTICS

- •Maximum thrust force 150 TM.
- •Machine adapted to operating in a cell or on its own with or without postprocessing.
- •Cycle time 5 "











CNC lathe for turning cage's interior face



Spindle power

•Work spindle: 11 kW

Speeds & feeds

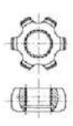
Axis feed rate: 20 m/minMax. Spindle rpm: 2500 rpm

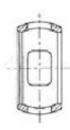
Chuck diameter

•Max. Chuck diameter 300mm

Timings

- •Cycle time depends on the type of part loaded
- •Loading time: 4.75"













- Machine can be operated independently or in a cell combination with or without post processing
- •Four axes CNC
- •Different loading systems: CNC loader arms, CNC gantry, Cams
- •Turret with tools in tandem
- •With or without hydraulic tailstock
- •System for quick change of different types of components

CNC external grinding machine with automatic loading / unloading system

External grinding machine for cage or inner race









GENERAL & TECHNICAL CHARACTERISTICS

- •Machine suited for integration in cell or individually with or without post process.
- •High frequency spindle for wheel head
- •Max. wheel diameter: 600mm
- •Dresser types: blade type plain / formed / radius. Diamond discs formed / cup type
- •Inspection: pre-process / in process & post process
- •Clamping system: chucks / membrane / pneumatic / collets
- •Load & unload time: 3.5"







CAGE RVJ-8 SPECIAL GRINDING MACHINE

kondia

DESCRIPTION & OPERATIONS

Windows land grinding machine of cage simultaneously with six or eight spindles

CNC gantry loading systems

TECHNICAL & GENERAL CHARACTERISTICS

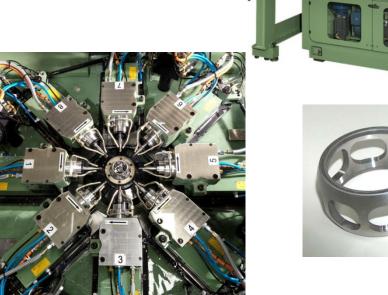
 Machine can be operated independently or in a cell combination with or without post processing

Power

- •Work head power (*rotating base*) 7.3Nm.
- •Work head power (vertical movement) 7.3Nm.
- •High Frequency Spindle 9.3Nm. Max. 4000rpm

Timing (depending on the piece)

- Cycle time
- •Cycle time with dressing time
- •Grinding time







CNC grinding machine for trucks and sphere the bell housing

Internal grinding of spherical tracks (grinding two by two parts)



Power

- •Work head torque: 113Nm
- •Power of high frequency spindle (2 for tracks and 1 for profile) 5 Nm

Speeds & feeds

- •Work head rpm: 495 rpm.
- •High frequency wheel head rpm max.: 4500 rpm

Timings

- •Cycle time depends on the type of part loaded
- •Loading time: 7.9"







- Machine suited for integration in cell or individually with or without post process.
- •10 axes CNC.
- •Diamond dressing.
- Loading and unloading parts by CNC gantry loader.
- •Anti fire system.





Spline milling of spindle with automatic loading & unloading of component



TECHNICAL & GENERAL CHARACTERISTICS

 Machine suited for integration in cell or individually with or without post process.

Timing

•Load/ unload times: 8"

Axes

•3 CNC controlled axes











CNC lathe with automatic loading / unloading system of parts by CNC gantry system or CNC loader

External turning of bell housing and tulip

Parts are machined both untreated and tempered, replacing thereby the grinding operation



GENERAL CHARACTERISTICS

- Machine can be operated independently or in a cell combination with or without post processing
- •Two or four axes
- •Different loading systems CNC loader arms, CNC gantry
- •Turret with tools in tandem
- •CNC: Fagor / Fanuc / Siemens
- •System for quick change of different types of components
- Hydraulic tailstock









TECHNICAL CHARACTERISTICS

Spindle power

•Work spindle: 200 Nm

Speeds & feeds

Carriage feeds: 20 m/minMax. Spindle rpm: 6000 rpm

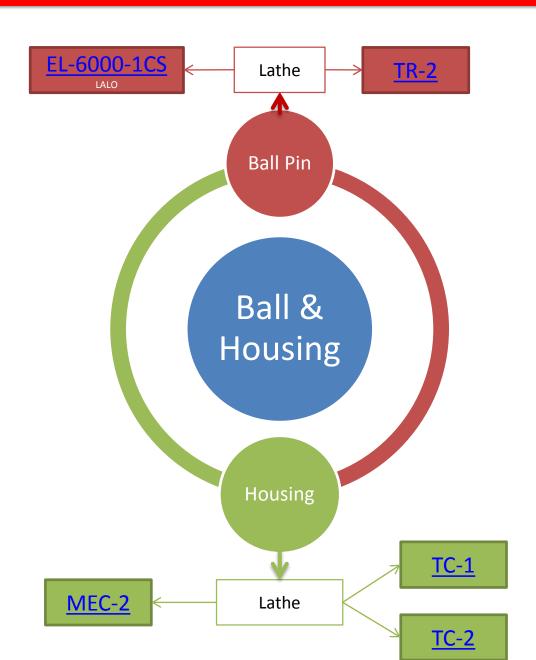
Chuck diameter

•Max. Chuck diameter 300mm Timings

- •Cycle time depends on the type of part loaded
- •Loading time: 4.5"













GENERAL CHARACTERISTICS

- Machine can be operated independently or in a cell combination with or without post processing
- •Two or four axes
- •Different loading systems CNC loader arms, CNC gantry
- •Turret with tools in tandem
- •CNC: Fagor / Fanuc / Siemens
- •System for quick change of different types of components
- Hydraulic tailstock

DESCRIPTION & OPERATIONS

CNC lathe with automatic loading / unloading system of parts by CNC gantry system or CNC loader

Turning of the body of the ballsocket joint

Parts are machined both untreated and tempered thereby replacing the grinding operation



TECHNICAL CHARACTERISTICS

Spindle power

•Work spindle: 200 Nm

Speeds & feeds

Carriage feeds: 20 m/minMax. Spindle rpm: 6000 rpm

Chuck diameter

•Max. Chuck diameter 300mm

Timings

- •Cycle time depends on the type of part loaded
- •Loading time:

oGantry: 6.6" oSpoon: 2"

TR-2 CNC LATHE FOR SOCKET



DESCRIPTION & OPERATIONS

CNC lathe for socket with automatic loading and unloading

Ball-socket joint full turning

TECHNICAL CHARACTERISTICS

Speeds & feeds

Axis feed rate: 20 m/minMax. Spindle rpm: 6000 rpm

Chuck diameter

•Max. Chuck diameter 200mm





- Machine can be operated independently or in a cell combination with or without post processing
- •Two or four axes CNC
- •Different loading systems: CNC loader arms, CNC gantry, Cams
- •Turret with tools in tandem
- Hydraulic or CNC tailstocks
- •System for quick change of different types of components

TC-2 DOUBLE LATHE OF WITHOUT TAILSTOCK



DESCRIPTION & OPERATIONS

Double lathe of sockets with tailstock. Manual loading and unloading.

External turning of the socket's tail.

TECHNICAL CHARACTERISTICS

Speeds & feeds

Axis feed rate: 15 m/minMax. Spindle rpm: 3000 rpm







- Machine can be operated independently or in a cell combination with or without post processing
- •Four axes CNC
- •Turret with tools in tandem
- •With hydraulic tailstock
- •Spindles with regulated stops

TC-2 DOUBLE LATHE OF WITHOUT TAILSTOCK



DESCRIPTION & OPERATIONS

Double lathe of sockets without tailstock.

Manual loading and unloading.

Internal and external turning of the socket's head.

TECHNICAL CHARACTERISTICS

Speeds & feeds

Axis feed rate: 15 m/minMax. Spindle rpm: 3000 rpm







- Machine can be operated independently or in a cell combination with or without post processing
- •Four axes CNC
- •Turret with tools in tandem
- •Spindles with regulated stops

MEC-2 CNC DOUBLE SPINDLE MILLING UNIT



DESCRIPTION & OPERATIONS

Special machine for sockets machining

Internal and external machining of the head and the tail





GENERAL CHARACTERISTICS

- •Tow workpieces are machined while other two are manually loaded and unloaded
- Nine CNC axes
- •Two machining units. Each one with its own ATC
- •CNC: Fagor / Fanuc / Siemens

TECHNICAL CHARACTERISTICS

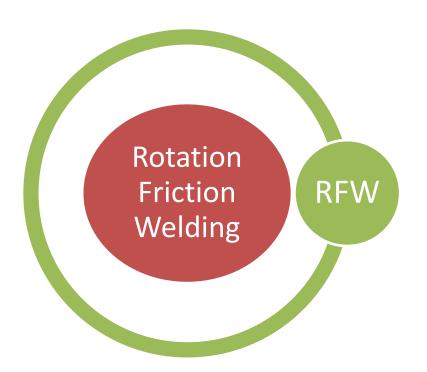
Spindle power

•Work spindle: 60 Nm

Speeds & feeds

Carriage feeds: 30 m/minMax. Spindle rpm: 3000 rpm





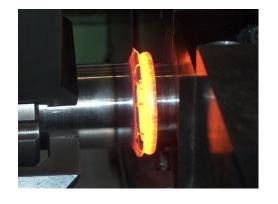
ROTATION FRICTION WELDING KFW







- •The machine can be operated independently or in a cell combination
- •Loading and unloading parts manually, via robot or CNC gantry
- •Removing of the joint flash by shearing or turning
- •One or two work station







Customers Automotive parts







































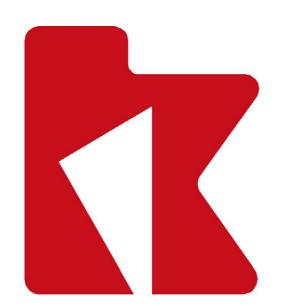














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