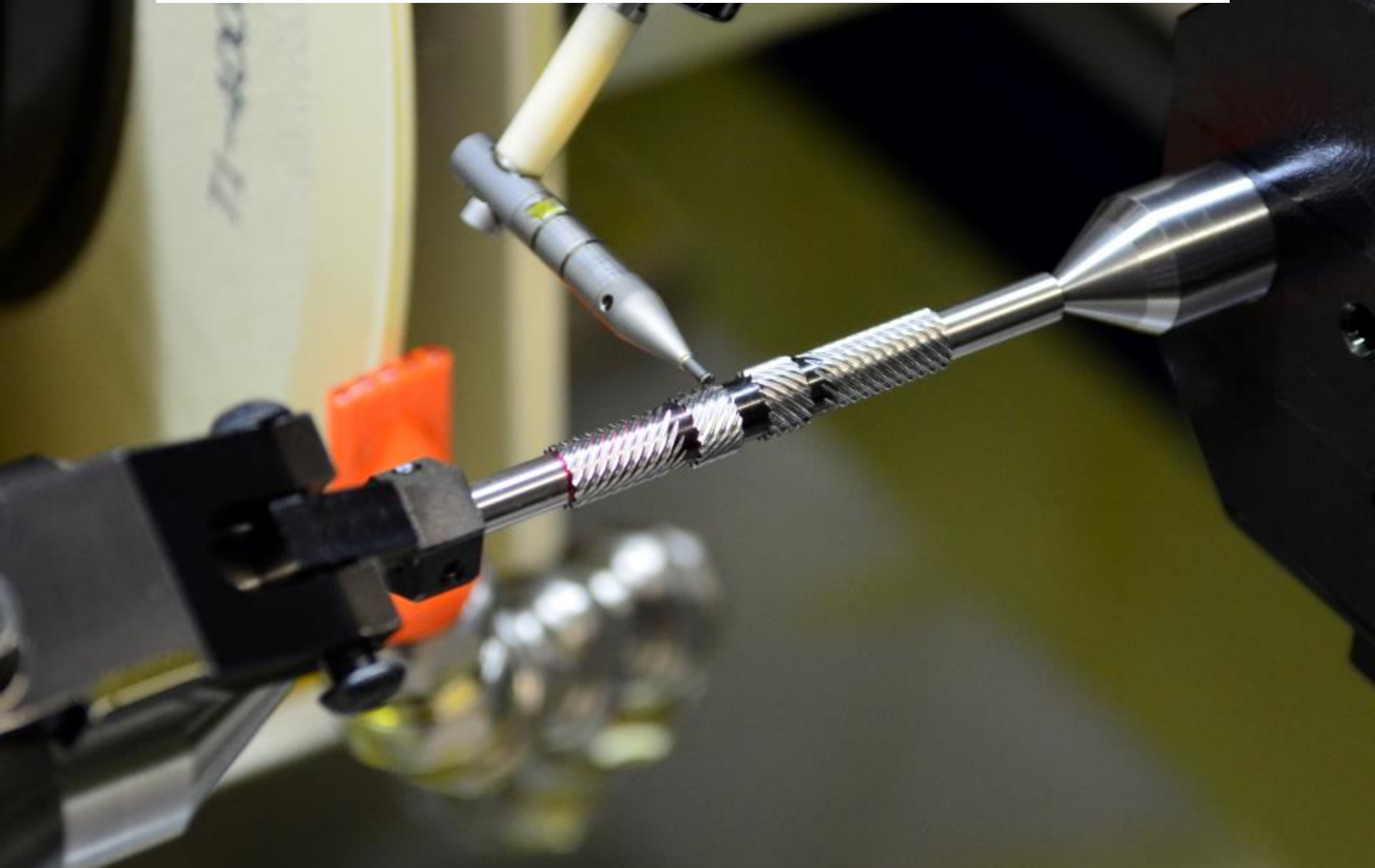




Doimak

Solutions
Quality
Accuracy



- Doimak manufactures a comprehensive range of latest generation grinding machines.

[Doimak was first company in Spain who developed and manufactured a **CNC grinding machine**]

- The R&D Department of Doimak and **Technological Center** have been working together for years



- **CORE VALUE: Close cooperation** with our customers has led to the development of a comprehensive range of machinery **excelling and outperforming** the traditional technology available.

- Doimak quality assurance by means of **ISO 9001:2015**

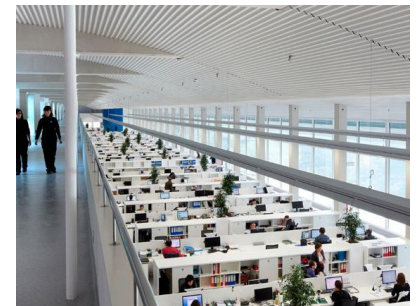
R&D partner

IK4  TEKNIKER
Research Alliance



- 300 engineers work with Doimak to develop the best grinding technology

- **MECHATRONICS DEPARTMENT**: Research in Mechanical developments, electronics, integration, vibration and structural calculations
- **OIL AND TRIBOLOGY DEPARTMENT**: Oil quality research, friction studies, etc.
- **SOFTWARE PROCESS AND APPLICATIONS DEPARTMENT**: Interface developments, complex spline and profile calculations, etc.
- **METROLOGY DEPARTMENT**: CMM machines, LASER measuring, custom applications, etc.



SPECIALIZED APPLICATIONS & PRODUCT LINES

• THREAD/PROFILE/GEAR APPLICATIONS

- EUROPEAN LEADING THREAD GRINDER MANUFACTURER
- WIDE RANGE EXTERNAL THREADS, INTERNAL THREAD TOOL MANUFACTURING – HOBS, TAPS, GAUGES...



• CYLINDRICAL APPLICATIONS

- FOCUSED IN CUSTOMIZED DESIGNS AND HEAVY DUTY CYLINDRICAL MACHINES.
- WIDE RANGE OF MACHINE CONFIGURATIONS.

• OTHER APPLICATIONS

- MULTITASK GRINDING MACHINES
- HIGH VOLUME FOCUSED AUTOMOTIVE COMPONENTS



PROFILE GRINDING APPLICATIONS

R E R

EXTERNAL THREAD



R I R

INTERNAL THREAD

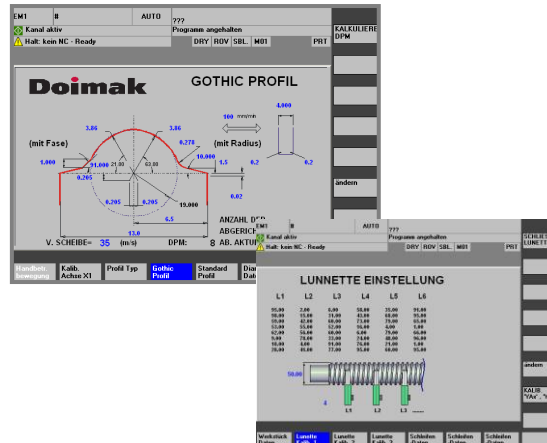
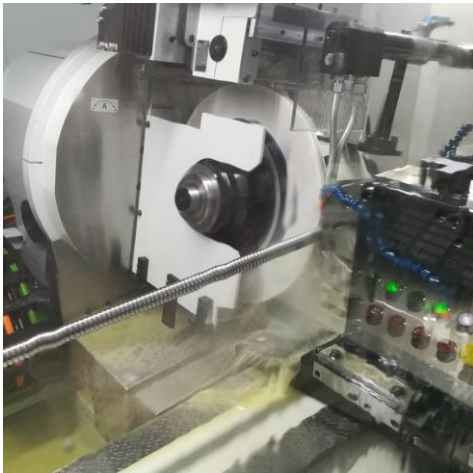
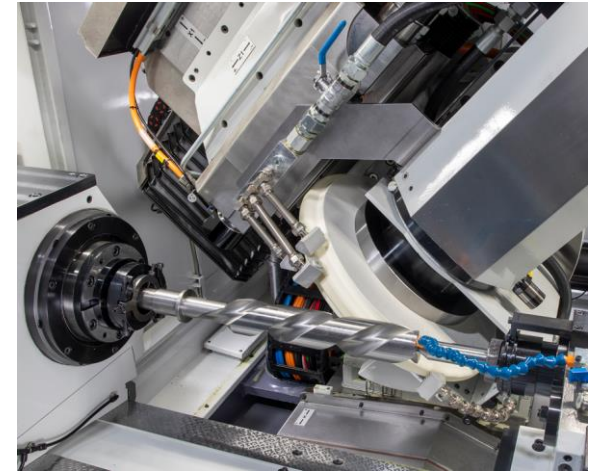


R F M

TOOL MANUFACTURING



EXTERNAL THREAD GRINDING - RER



EXTERNAL THREAD - RER - series

RER 500 SL -Light Series-



RER 1000 / 1500 / 2000 / 3000



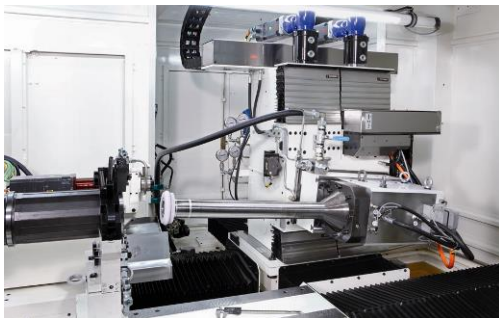
RER SP 4000 / 5000 / 6000



	RER 350 / 500 SL	RER 1000 / 2000 / 3000	RER SP 4000 / 5000 / 6000
Length between centers	350 / 550 mm	1050...3050 mm	4050 mm ... 6050 mm
Height of centers	100 / 200 mm	200 mm	270 mm
Max. swing on centers	300 mm	350 mm	390 mm
Grinding spindle	11 / 24 kW	24 to 54 KW	24 to 54 kW
Wheel diameter	350 / 500 mm	500 mm	500 mm
Helix axis	±35° (option -120°...50°)	±35° (option -120...50°)	±35° (option ±50°)
Part max. weight	100 kg	150 ... 500* kg	1000*...1500* Kg
Machine weight	6500 / 8000 kg	9000 / 12000 / 16000 kg	21000 / 23500 / 26000 kg
*Weight supported with steady rests			



INTERNAL THREAD GRINDING - RIR



INTERNAL THREAD - RIR - series

RIR 275 – Internal thread



RIR + RE 250 – Internal thread + OD



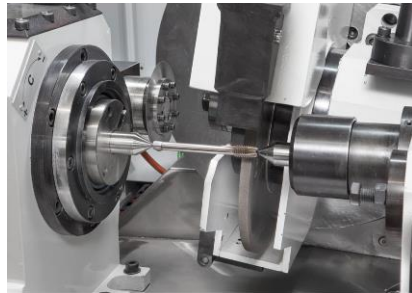
RIR 500 / 600 SP



	RIR 140	RIR 275 RIR+RE 250	RIR 500 SP RIR+RE 500 SP
Max. Part Length	210 mm	350 / 400 mm	700 / 1000 mm
Max. outside diameter	180 mm	275 mm	500 mm
Internal electro-spindles Power & Speed ranges	3...12 kW 45000...90000 rpm	5...18 kW 30000...75000 rpm	12...36 kW 18000...45000 rpm
Wheel diameter (max)	60 mm	100 mm	180 mm
Helix axis ⁽²⁾	±15°	±15°	±15°
(*) OD Wheel diameter	-	500 mm	610 mm
Machine weight	4200 kg	6600 / 8000 kg	15000 / 19000 kg
*Higher leads are achieved by modifying wheel profile			



TOOL GRINDING MACHINES – R F M



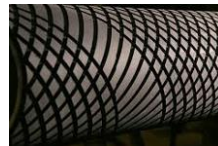
CYLINDRICAL GRINDING - RCN - G

SPECIALIZED IN MEDIUM / HEAVY DUTY SHAFTS

ENERGY/TRANSMISSIONS



ROLLING INDUSTRY



OTHERS



CYLINDRICAL APPLICATIONS OD / ID Multi-Spindle

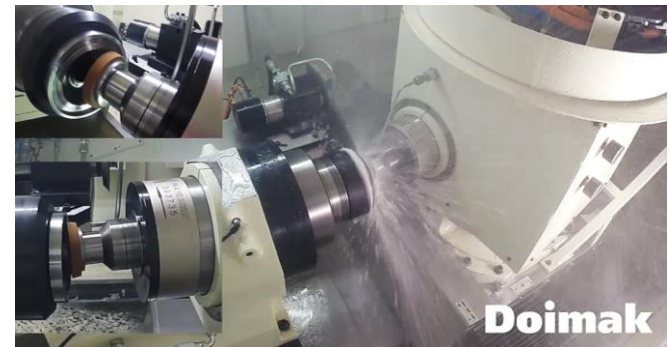
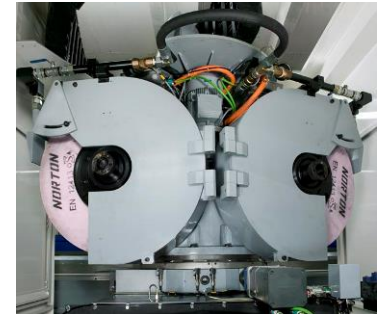
LIGHT SERIES



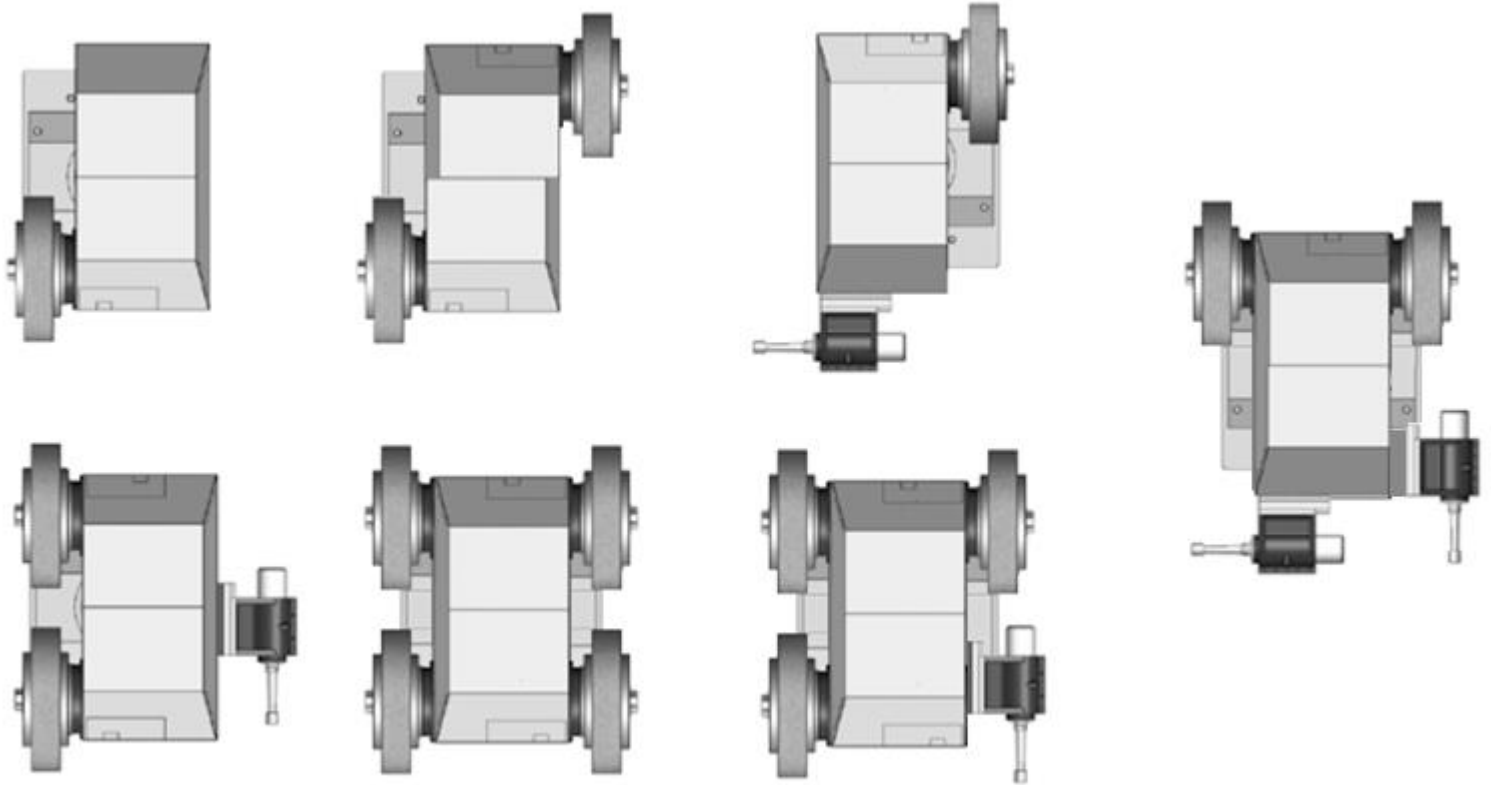
MOVING-HEAD



MOVING-TABLE



WHEEL HEAD CONFIGURATIONS



CYLINDRICAL GRINDING - RCN - series

	RCN 1500 UNI	RCN-G 2000 / 3000 SL	RCN-G 4000 / 10000 SP
Length between centers	1550 mm	2050...3050 mm	4050 mm ... 10050 mm
Height of centers	200 mm	300 mm	350..550 mm
Max. swing on centers	400 mm	590 mm	690...1000 mm
OD Grinding spindle(s)	21 kW	24 kW	37...54 kW
ID grinding spindle	Multiple speed/power HF electro-spindle combinations 24000/18kW.....120000 rpm/2kW		
Wheel diameter	508 mm	610 mm	760...915 (1060) mm
B axis swivelling	-15°...225°	-15°...225°	-15°...225°
Part max. weight	800* kg	1500* kg	10000* Kg
Machine weight	6500 / 8000 kg	13000 / 15000 kg	22000 kg....55000 kg
(*) Weight supported without steady rests			

MULTI-TASK GRINDING MACHINE

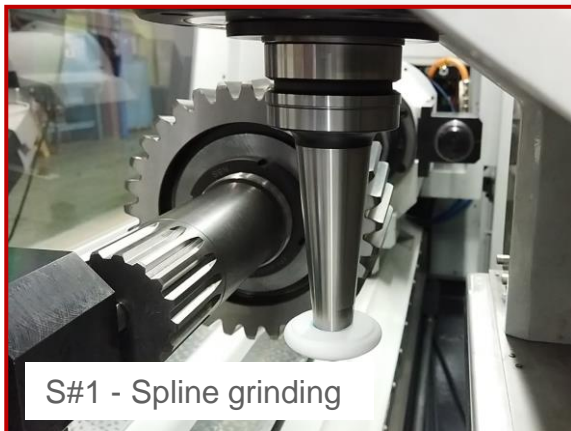
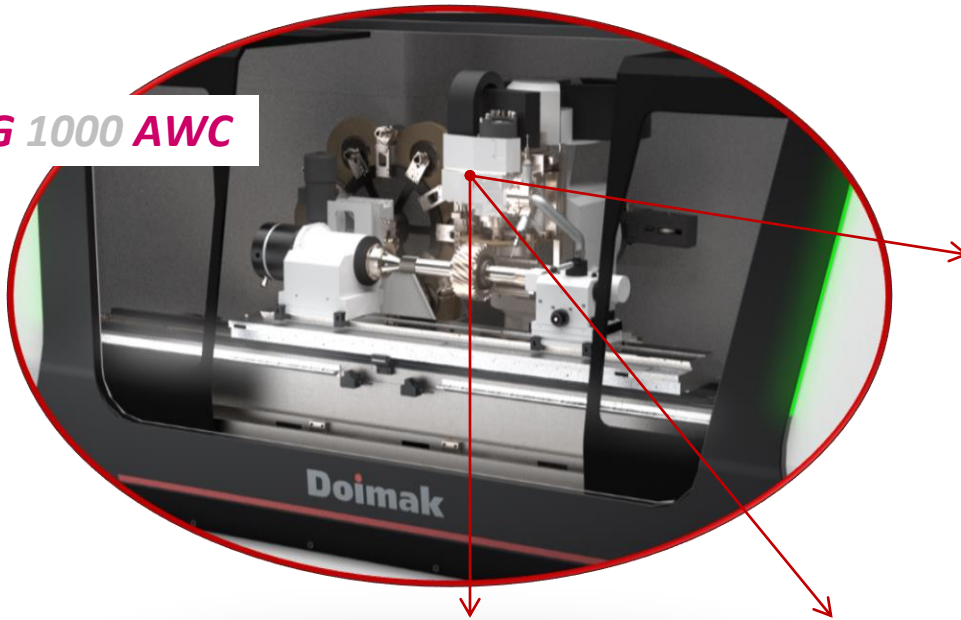
RER-G 1000 AWC



- 5 (6th optional) axis grinding machine
- B axis with two permanent OD / ID grinding spindles
 - 6 position wheel loader with HSK interface

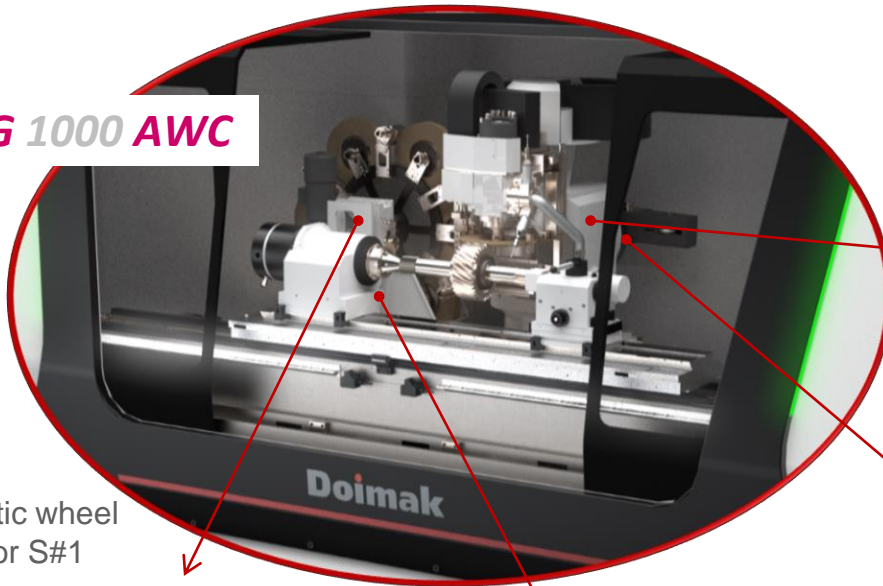
MULTI-TASK - Main spindle S#1

RER-G 1000 AWC



MULTI-TASK - Additional equipment

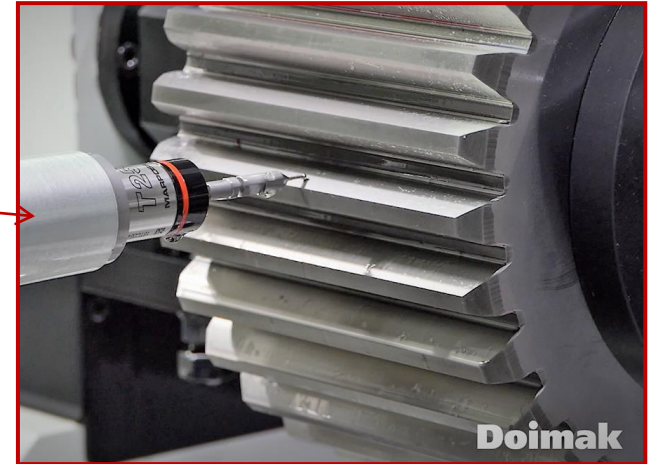
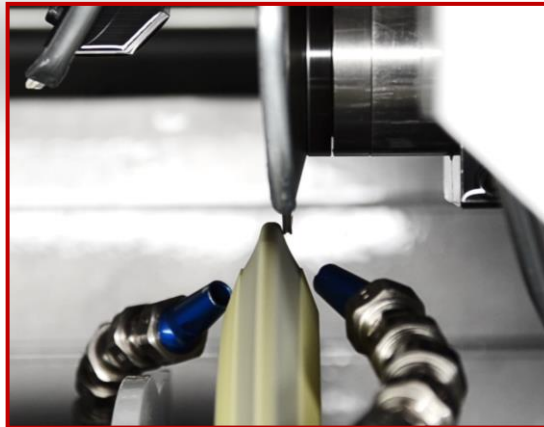
RER-G 1000 AWC



Automatic wheel loader for S#1



Wheel Dresser

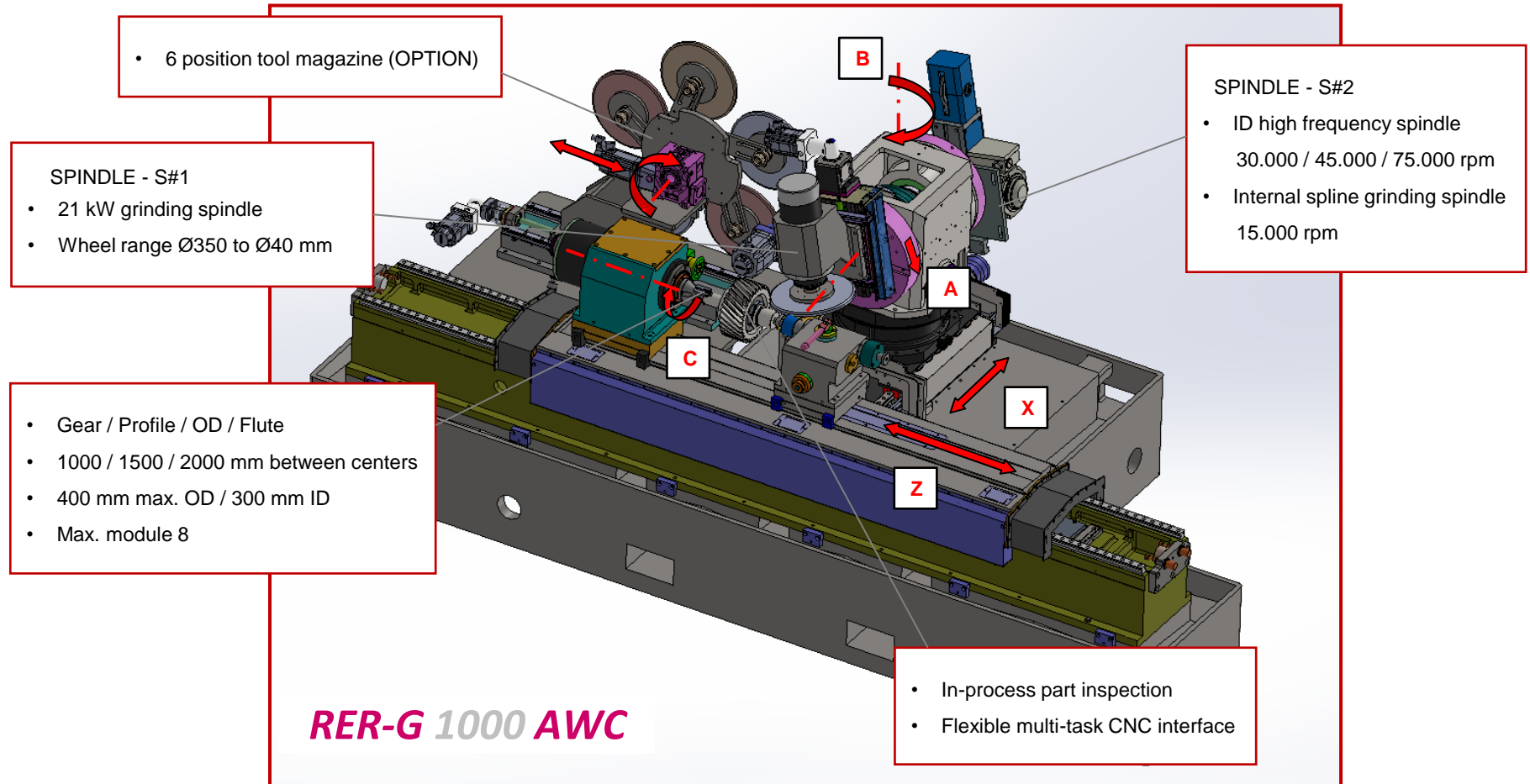


In-board inspection

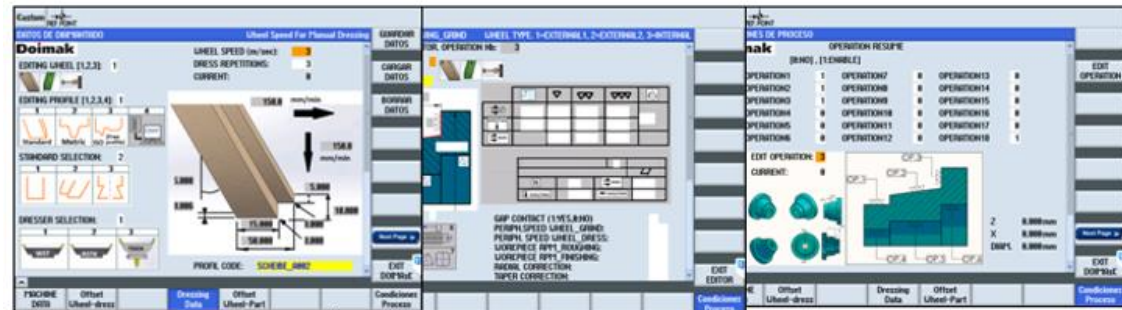
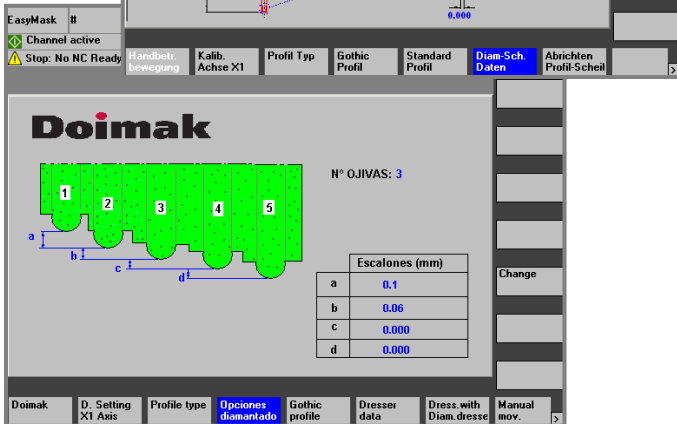
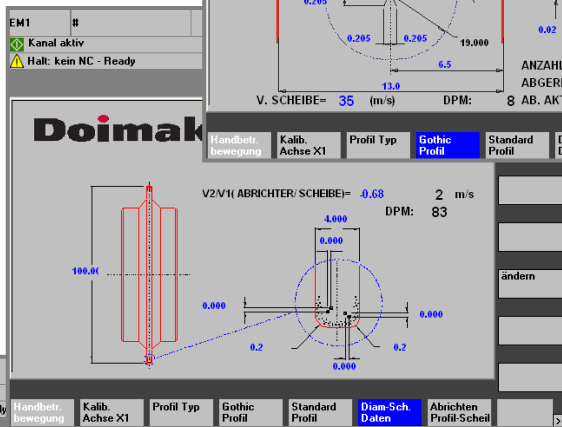
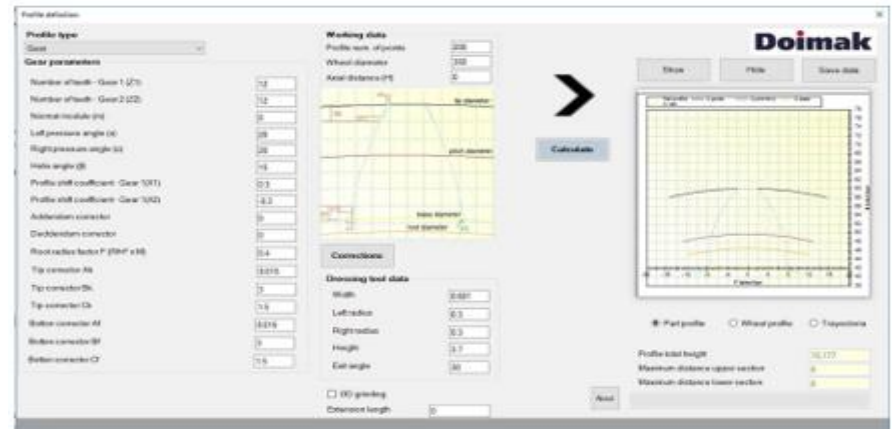
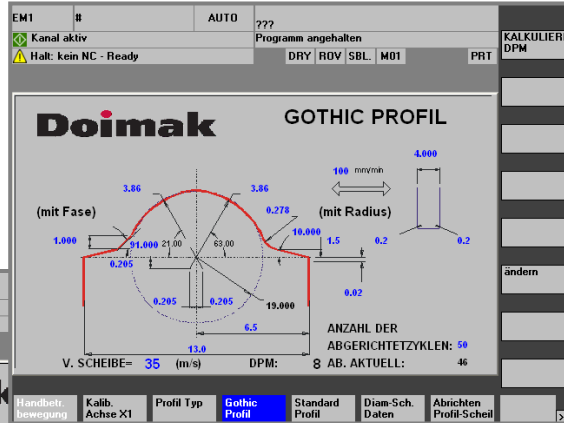


SPINDLE S#2 on B axis:
ID thread / spline grinding

MULTI-TASK GRINDING MACHINE



PROGRAMMING SOFTWARE



Supplier >> Customer chain CO-WORKING for achieving HIGHEST PRODUCTIVITY

- EUROSTARS PROJECT: SIMULTANEOUS GRINDING APPLICATIONS

- CBN layer + CARBON body wheel manufacturers

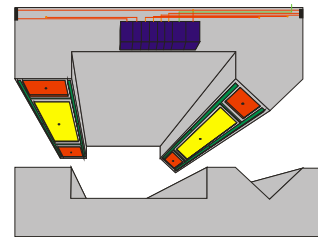
High speed and damping performance >> MACH ROTEC



MACH ROTEC®
Grinding + Carbon = MACH

- Hydrostatic solutions focused on high productivity by means of:

- WHEELHEADS
- LINEAR SLIDES

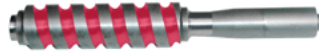


HYPROSTATIK

AUTOMOTIVE APPLICATIONS

- STEERING:

- WORM GEARS
- NUT
- BALLSCREW
- LEVER
- WHEEL HUB
- ...



- ENGINE PARTS

- CAMSHAFT
- BALANCING AXE
- CRANKSHAFT
- TRIPOD



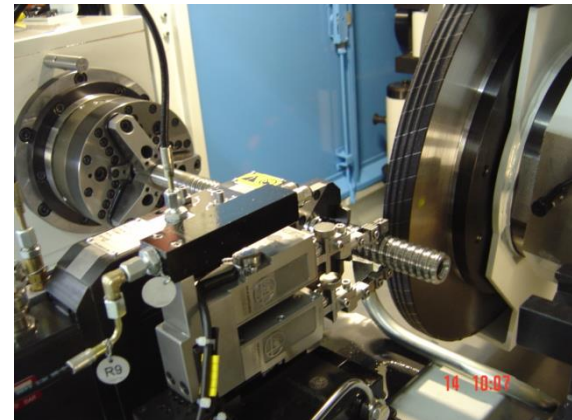
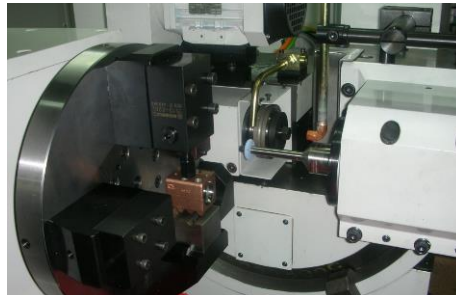
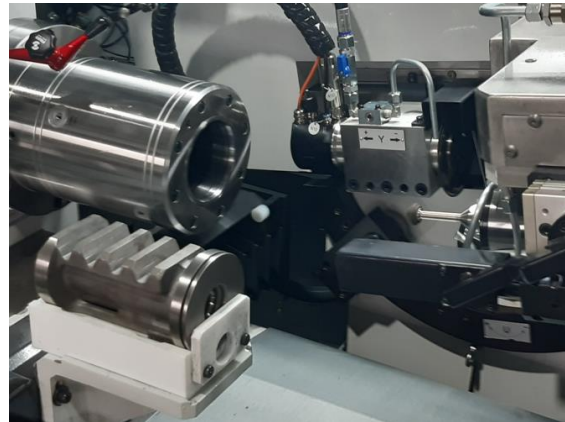
- TRANSMISSIONS

- PRIMARY SHAFT
- SECONDARY SHAFT
- IDDL E PINION



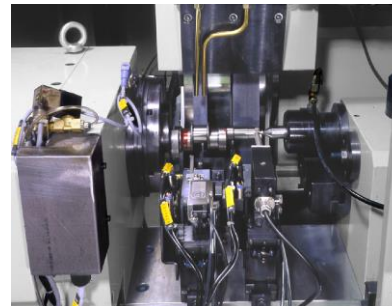
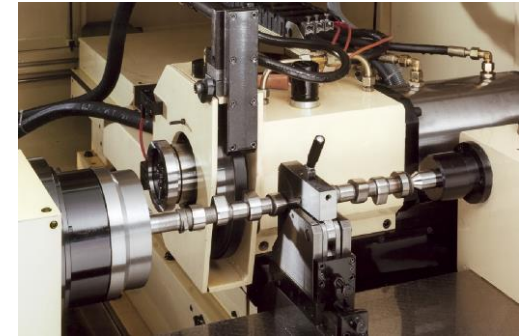
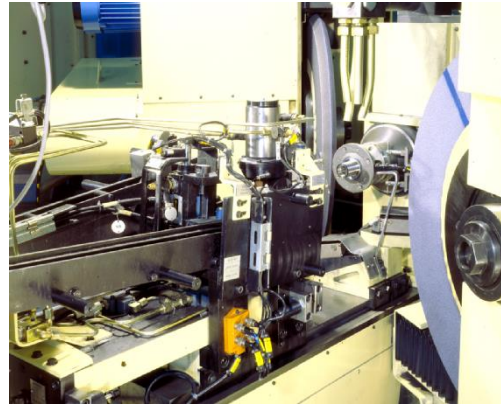
New CNC machines for Steering components

- WORM GEARS
- BALL NUT
- RACK / BALLSCREW



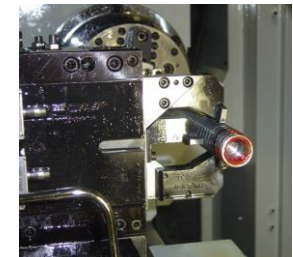
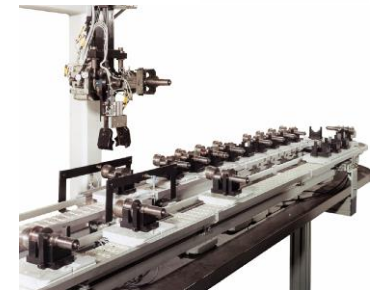
Retrofit CNC machines for engine components

- CAMSHAFT
- BALANCING AXE
- CRANKSHAFT
- TRIPOD



Implemented ADD-ON SOLUTIONS

- Automatic **LOADERS**
- In-process **MEASURING SYSTEMS**
- **HIGH PERFORMANCE** grinding tools
- **EFFICIENT** filtering equipments



General Manager: Fernando Azpiazu, fazpiazu@doimak.es

Sales: Kristina Lasuen, klasuen@doimak.es

Sales-Germany Cristina Llorens, cllorens@doimak.es

Engineering: Gaizka Astorkiza, gastorkiza@doimak.es

Manufacturing: Claudio Blanco, cblanco@doimak.es

THE GRINDING EXPERIENCE !