

ADVANCED TURNING AND GRINDING SOLUTIONS







EXPERT SOLUTIONS FOR A SMART WORLD



DANOBAT DIGITAL

In order to advance in the construction of smart factories, where all equipment is interconnected and can operate autonomously, we have a value proposition consisting of our own development solutions based on the latest advances in digital technology, our accumulated experience and over 65 years' experience in machine tools and production systems.

Our digital offer centres on the development of own solutions with advanced technologies such as Smart HMI, Data System and Control System.

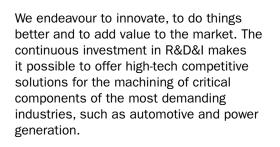
DANOBAT SERVICES

We offer high value-added services, designed to provide intelligent machine management, incorporating technological advances that allow life cycles to be extended, improving maintenance strategies and optimising production.

We have an extensive network of experts operating close to our customers, further proof of our quest to be "Your lifecycle partner".



SOME REFERENCES



POWER GENERATION

ALSTOM POWER
AKER SOLUTIONS
ATA GEARS
CAMERON
EICKHOFF WIND POWER
GAZPROM
GE AVIO AERO
GENERAL ELECTRIC
GAMESA
MAN DIESEL
MOVENTAS OY
NOV
OMK
ROLLS ROYCE
SEW EURODRIVE





AEROSPACE

AIR FRANCE INDUSTRIES
AMERICAN AIRLINES
DELTA AIR LINES
EMIRATES
GE AVIO AERO
GENERAL ELECTRIC
HAESL
IBERIA AIRLINES
ITP

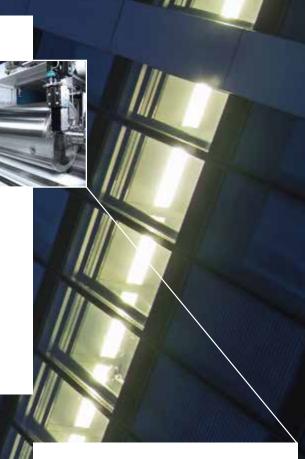
JAL
KLM
LUFTHANSA
MESSIER DOWTY
PRATT & WHITNEY
ROLLS ROYCE
SAESL
SAFRAN
SR TECHNICS
THAI AIRWAYS
TURKISH AIRLINES TECHNIC
UNITED AIRLINES



CAPITAL GOODS

BALL BHS CORRUGATED **EICKHOFF** HEIDELBERG HERAEUS QUARZGLAS **ISCAR KENAMETAL KERSTEN** MM MADERN **MOVENTAS RENK** REILOY METALL RISHI LASER **SANDVIK SEW EURODRIVE** SMS MEER STORK WALLRAM

ZF



AUTOMOTIVE & INDUSTRIAL VEHICLES

BOSCH
CATERPILLAR
DAIMLER
DANA
DELPHI
DONG FENG
EATON
FORD
GETRAG
JOHN DEERE
MAHLE
PSA
RENAULT

RENAULT SCANIA SHANGHA

SHANGHAI AUTOMOBILE GEAR WORKS

TRW

VOLVO POWERTRAIN VOLKSWAGEN

ZF



ALSTOM
BHP BILLITON
BOMBARDIER
CAF
COFMOW
CSR
CNR
DUBAI METRO
EUSKOTREN
FIRST GREAT WESTERN
GHH-BONATRANS
GREENBRIER

GREENBRIER INDIAN RAILWAYS LE TRAMWAY RABAT

LUCCHINI RS METRO MADRID RENFE

RIO TINTO SIEMENS TVSZ



SECTORS





DANOBAT DIGITAL

SMART HMI

An intelligent interface for intuitive operation that assists the operator and helps optimise machining processes.

This development installed in our machines allows:

- Centralised information
- Fast and simple access to information
- · Improved usability thanks to its design

Smart HMI also allows optimisation of maintenance cycles by showing:

- Information on part status based on usage
- · Automatic notice of maintenance work
- Maintenance instructions with tutorial videos to facilitate tasks
- Improvements in machine reliability thanks to self-diagnosis operations
- Direct access by DANOBAT service technicians to machines to improve customer/supplier interaction.

The HMI also has the following functions:

- Logical control operation
- Programming aids
- · On-screen documents
- Monitoring of energy consumption

DATA SYSTEM

A platform for data capture, storage and processing which enables machine status to be monitored.

The Data System technology allows:

- Real-time information on the situation and operation of the manufacturing process
- Improvements in decision-making thanks to the extensive information available
- · Machine monitoring, anywhere, any time.
- Establishment of patterns, identification of trends, and anticipation of faults, all based on historical data, thus improving machine performance and availability
- · Improved process efficiency
- · Improved energy efficiency

CONTROL SYSTEM

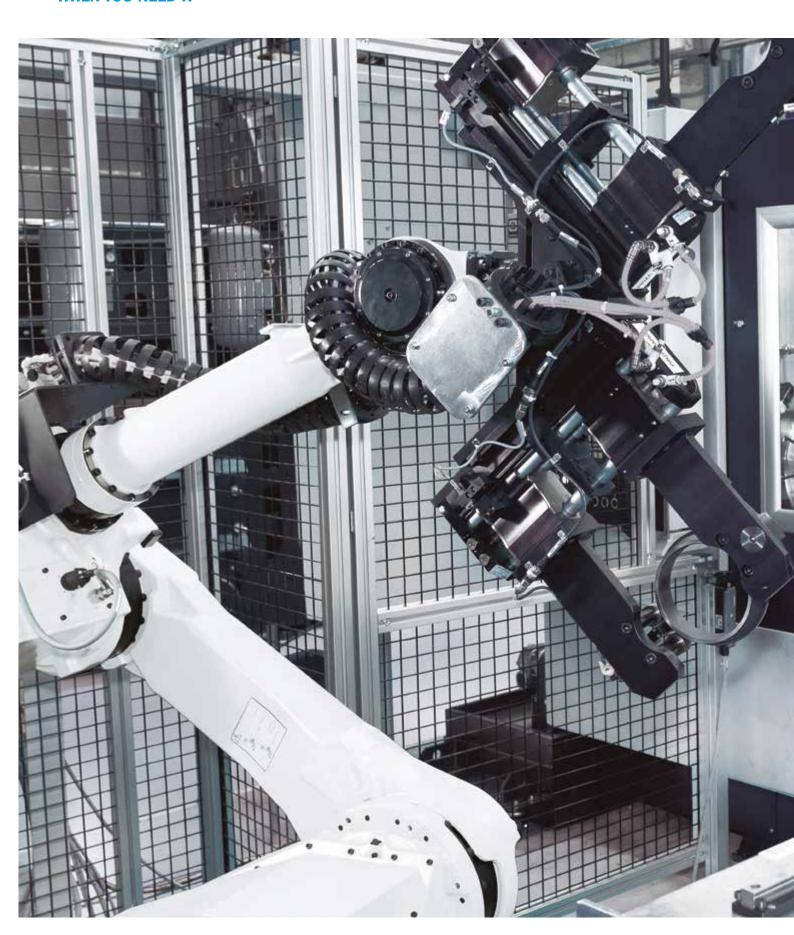
An advanced system, which allows integrated monitoring and automated operation of complex manufacturing lines comprising different machines and equipment.

The software allows control, monitoring and supervision of the entire machining process, including both machines and handling systems.



TURNING

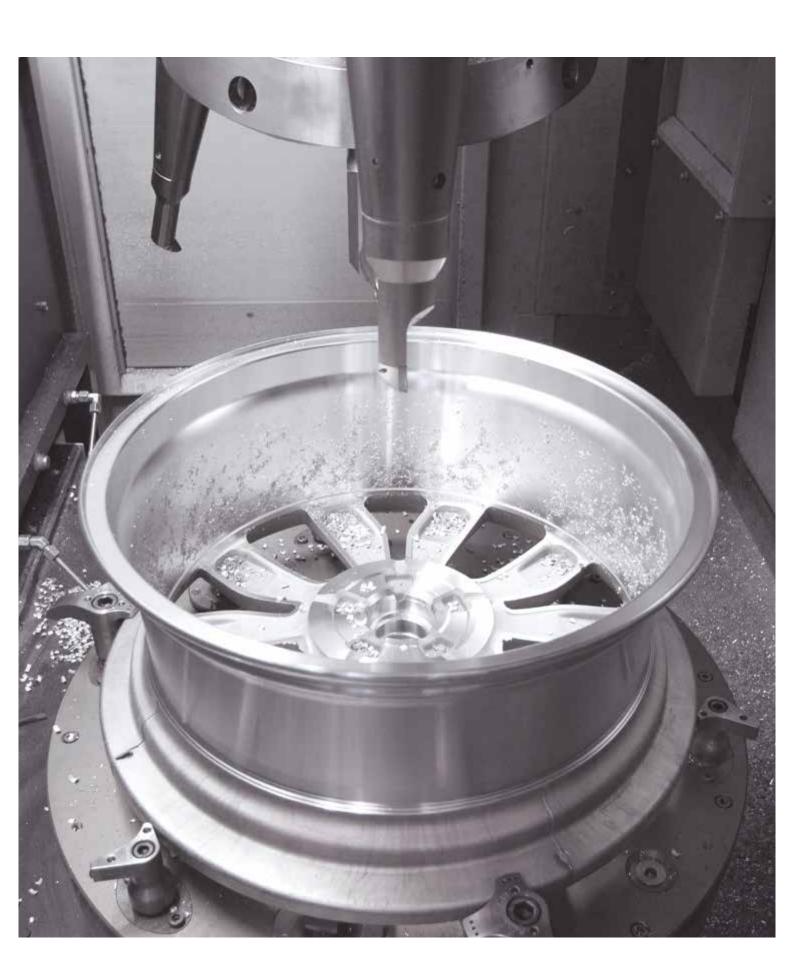
MORE THAN JUST TECHNOLOGY, PRECISION OR RELIABILITY, WE ARE TALKING ABOUT PROVIDING THE SOLUTION YOU NEED, WHEN YOU NEED IT





LATHES FOR AUTOMOTIVE WHEELS

TV/NI





TECHNICAL CHARACTERISTICS	TV-650	NI-750	
Swing diameter	mm	880	840
Main motor power	kW	93	38
Main spingle speed	rpm	3000	3000
Machine net weight	kg	16500	11500

(*) Based on customer's requirements, other machine capacities & configurations could be

- 4 axes vertical lathe, TV-650, especially designed for machining aluminium wheels up to 24".
- Machine bed, headstock and crossed slides made from high quality cast iron, giving extraordinarily high compression strength, high damping power, high rigidity and thus better surfaces.
- Large interior space, resulting in excellent chip removal.
- Linear guides for all axes, resulting in faster movements and more accurate slide positioning.

- Pallet changer rotation by means of an auxiliary motor for faster rotation, higher accuracy, less maintenance and longer life.
- Automatic 3" clamping chucks.
- Intermediate clamping chuck integrated onto the main spindle.
- Workpiece spindle with built-in motor (93 kW at 100%) achieving better dynamics and greater stability.
- Easy integration into automatic production lines.

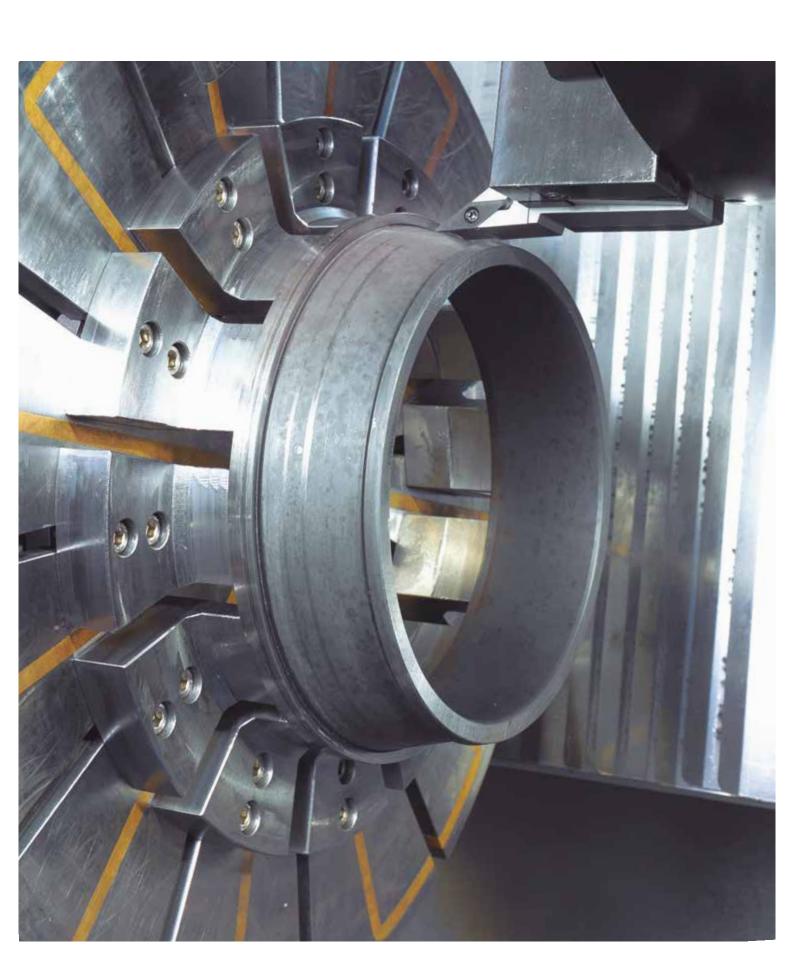






HARD TURNING LATHES

LT





TECHNICAL CHARACTERISTICS	LT-400	
Turning diameter	mm	400
Turning diameter with tailstock	mm	n.a./150
Workpiece weight	kg	80/300
Headstock speed	rpm	10000/4000
Slide repeatability	μm	± 0.1

 $(\mbox{\ensuremath{^{\ast}}})$ Based on customer's requirements, other machine capacities & configurations could be taken into account.

- The LT is a high precision hard turning machine that has been developed to suit specific applications of customers such as bearings, ballscrew nuts, dies & moulds, hydraulic components and non-round workpieces.
- The machine base is made from natural granite, which, weighing 7 tonnes, is the reference plane of the machining area. Because of its properties, natural granite provides high thermal and dynamic stability.
- Linear motors in X and Z axes ensure the best interpolation properties as well as short idle times.

- The rotary axes are driven by built-in, maintenance-free motors for rapid and precise movements providing excellent output and quality.
- Hydrostatic technology for the head and the X and Z axes: enhanced vibration damping, absence of wear, greater precision and thermal stability.
- It can be automated by means of DANOBAT designed loading systems, such as integrated gantry or robotised systems.











TECHNICAL CHARACTERISTICS	TV-1000	TV-1500	
Swing diameter	mm	1100	1600
Main motor power	kW	80	200
Torque	Nm	60000	90000
Component weight + chuck	kg	4000	6000
Main spindle speed	rpm	600	350

(*) Based on customer's requirements, other machine capacities & configurations could be taken into account.

- Machine with cross-slide configuration for maximum accuracy: as the cross slides are guided over the entire stroke length a constant torque is ensured irrespective of where the cutting tool is working (thus in contrast to the ram saddle concept, constant guidance is ensured in all stroke position).
- Up to TV-1000 the guidance is done by means of roller linear guides. From TV-1000 the guidance can be done by means of roller linear guides (standard) or hydrostatic technology which allows higher cutting forces with more accuracy and free maintenance.
- TV machines have been conceived for high speed and minimum idle times as well as maximum rigidity and torque.

- Automatic tool changer is available in all sizes to optimise productivity and flexibility.
- Precision and quality in turning, hard turning, grinding, milling, drilling and measuring operations. They can also incorporate special heads/spindles for the most demanding customisations.
- DANOBAT vertical lathes have been designed to be integrated into automatic cells with gantry or robot solutions, which can be also supplied together with f.i. measuring or washing machines.







GRINDING

TECHNOLOGY THAT MAKES YOU GROW





EXTERNAL GRINDING MACHINES

CG/PG





TECHNICAL CHARACTERISTICS		CG-600	CG-1000	PG-600	PG-1000
Distance between centres	mm	600	1000	600	1000
Diameter to be ground	mm	440	440	440	440
Weight between centres	kg	80/250	80/250	500	500
Grinding wheel diameter	mm	610	610	910	910
Wheel peripheral speed	m/s	60	60	60	60

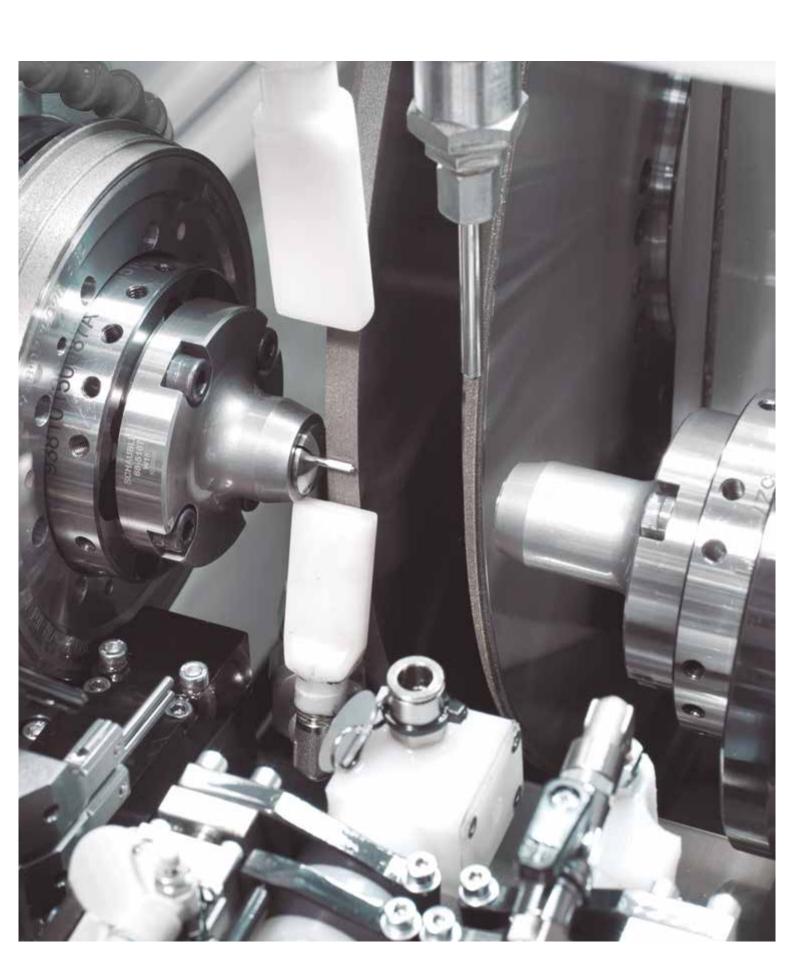
(*) Based on customer's requirements, other machine capacities & configurations could be taken into account.

- The compact design with small footprint combined with its high rigidity make the CG the perfect grinding machine to work in the most exigent industrial and production environments. A robust and reliable grinding machine, the capacity to hold a grinding wheel of up to 610 mm in diameter, make this model the most attractive to those customers making high production series.
- The different machine configurations give the option to accommodate more than one grinding wheel based on the customer requirements
- An automatic loading system can be easily incorporated, in the way of different technologies like robot, external or integrated gantry and custom made manipulation systems.
- For customers requiring the grinding of bigger parts, the PG model offers a production solution that can accommodate parts of up to 1000 mm length and wheels of maximum 910 mm in diameter and wheel width of 380mm. These specificitions define the extreme capacity of this machine model.



EXTERNAL GRINDING MACHINES

LG





TECHNICAL CHARACTERISTICS		LG-200	LG-400	LG-600	LG-1000
Distance between centres	mm	200	400	600	1000
Diameter to be ground	mm	200	290	290	290
Weight between centres	kg	30	50	50	50
Grinding wheel diameter	mm	400	500	500	500
Wheel peripheral speed	m/s	35/140	35/140	35/140	35/140

(*) Based on customer's requirements, other machine capacities & configurations could be taken into account.

- High precision component grinding, such as hydraulic components, automotive parts and cutting tools.
- The machine's natural granite base and the linear motor driven slides provide the high accuracy and thermal stability required for these highly demanding applications. These specifications also allow the grinding of non-round components.
- The use of a water cooled electrospindle makes possible the combination of conventional and high speed grinding. This produces a maximum peripheral wheel speed of 140 m/s and covers the range necessary for grinding with conventional abrasive or super abrasives with maximum torque.

- Versatile and flexible machine with the direct driven B axis and the use of multiple wheels.
- Requirements of completely automated manufacturing processes are fulfilled with the incorporation of customised DANOBAT automatic loading systems, e.g. integrated gantry or robot solutions, guaranteeing minimum loading and unloading time (2-6 sec depending on applications).



INTERNAL GRINDING MACHINES





TECHNICAL CHARACTERISTICS	ID-200	ID-400	
Internal grinding diameter	mm	100	200
Internal grinding length	mm	100	200
Work swing	mm	215	560
Workpiece length (incl. clamping system)	mm	200	400
Workpiece weight (incl. clamping system)	kg	40	80/180
X and Z axis stroke	mm	400/200	425/475

 $^{(*) \} Based \ on \ customer's \ requirements, \ other \ machine \ capacities \ \& \ configurations \ could \ be \ taken \ into \ account.$

- High precision machines for internal, external and face grinding, suitable for single part manufacturing and high production. The ID can also incorporate a spindle turret and measuring head.
- Designed for the grinding of gear parts, cutting tools, bearings, non-round discs and hydraulic components.
- The machine's natural granite base and the linear motor driven slides provide the high accuracy and thermal stability required for the highly demanding applications and also allow the grinding of non-round

components.

- Requirements of completely automated manufacturing processes are fulfilled with the incorporation of customised automatic loading and unloading systems such as integrated systems, robot solutions or external gantries.
- The powerful and user-friendly software includes an intuitive interface, optimally adapted to the machine as well as to the requirements of our customers.







INTERNAL AND RADIUS GRINDING MACHINES

IRD



TECHNICAL CHARACTERISTICS	IRD-200	IRD-400	
Internal grinding diameter	mm	100	200
Internal grinding length	mm	100	200
Work swing	mm	215	360
Workpiece length (incl. clamping system)	mm	200	400
Workpiece weight (incl. clamping system)	kg	40	80/180
"B" axis swiveling range	0	+91/-15	+91/-15
X and Z axis stroke	mm	400/200	425/475

 $(*) \ Based \ on \ customer's \ requirements, other \ machine \ capacities \ \& \ configurations \ could \ be \ taken \ into \ account.$

- High precision grinding machines with integrated rotary axis in the workhead base.
- The CNC controlled motor and the 3 axes interpolation software allow the grinding of different radii without manual resetting of the pivot points.
- Spindle turret for highest versatility with up to 4 spindles.
- Prepared for internal, external, radius, face and nonround grinding, ideal for the machining of forming and cutting tools.
- The machine's natural granite base and the linear motor driven slides provide the high accuracy and thermal stability required for the highly demanding applications and also allow the grinding of non-round components.
- Requirements of completely automated manufacturing processes are fulfilled with the incorporation of customised automatic loading and unloading systems such as integrated systems, robot solutions or external gantries.
- The powerful and user-friendly software includes an intuitive interface, optimally adapted to the machine as well as to the requirements of our customers.







INTERNAL AND UNIVERSAL GRINDING MACHINES

ILD



TECHNICAL CHARACTERISTICS		ILD-400	ILD-500	ILD-600	ILD-700	ILD-700 U
Internal grinding length	mm	400	250	400	400	400
External grinding length	mm	150	150	150	400	400
Work swing	mm	600	600	600	700	760
Workpiece length (incl. clamping system)	mm	800	1300	1300	500	500
Workpiece weight (incl. clamping system)	kg	500	500	500	500	500
"B" axis swiveling range	0	+20/-10	+20/-10	+20/-10	optional +25/-25	+25/-25
X and Z axis stroke	mm	450/550	425/475	450/550 450/700	700/700	420/700/U700

(*) Based on customer's requirements, other machine capacities & configurations could be taken into account.

- The ILD internal universal grinding machines provide high-precision tool machining for internal, external and face grinding of large workpieces, up to 1300 mm long (ILD 500) or a work swing over table of up to 760 mm (ILD-700 U). Perfect for grinding of spindle housings, shafts, tool holders, roller bearings, hydraulic components and machine tool components using the latest technology.
- Depending on the requirements, the machines can be equipped with a turret for up to 4 grinding spindles and a measuring probe as well as an integrated automation.
- Various dressers such as single point diamond, rotary

- dressing disc, dressing turret, swivelling radius dresser as well as profile roll dresser can be implemented.
- The machine's natural granite base and the linear motor driven slides provide the high accuracy and thermal stability required for the highly demanding applications and also allow the grinding of non-round components.
- The powerful and user-friendly software includes an intuitive interface, optimally adapted to the machine as well as to the requirements of our customers.







SIMULTANEOUS GRINDING MACHINES

IED



TECHNICAL CHARACTERISTICS	IED-400	
Internal grinding diameter	mm	300
External grinding diameter	mm	250
Work swing	mm	300
Workpiece length (incl. clamping system)	mm	250
Workpiece weight (incl. clamping system)	kg	80/180
X and Z axes stroke internal grinding	mm	220/460
X and Z axes stroke external grinding	mm	320/220

- (*) Based on customer's requirements, other machine capacities & configurations could be taken into account.
- Simultaneous machines for internal and external diameter or face grinding. The machines are equipped with best quality components, produced with the highest accuracies and reduce the idle times to the minimum.
- Designed and manufactured for the grinding of gears, injection components, transmission components and other machine parts.
- The machine's natural granite base and the linear motor driven slides provide the high accuracy and thermal stability required for the highly demanding

- applications and also allow the grinding of non-round components.
- Requirements of completely automated manufacturing processes are fulfilled with the incorporation of customised automatic loading and unloading systems such as integrated systems, robot solutions or external gantries.
- The powerful and user-friendly software includes an intuitive interface, optimally adapted to the machine as well as to the requirements of our customers.

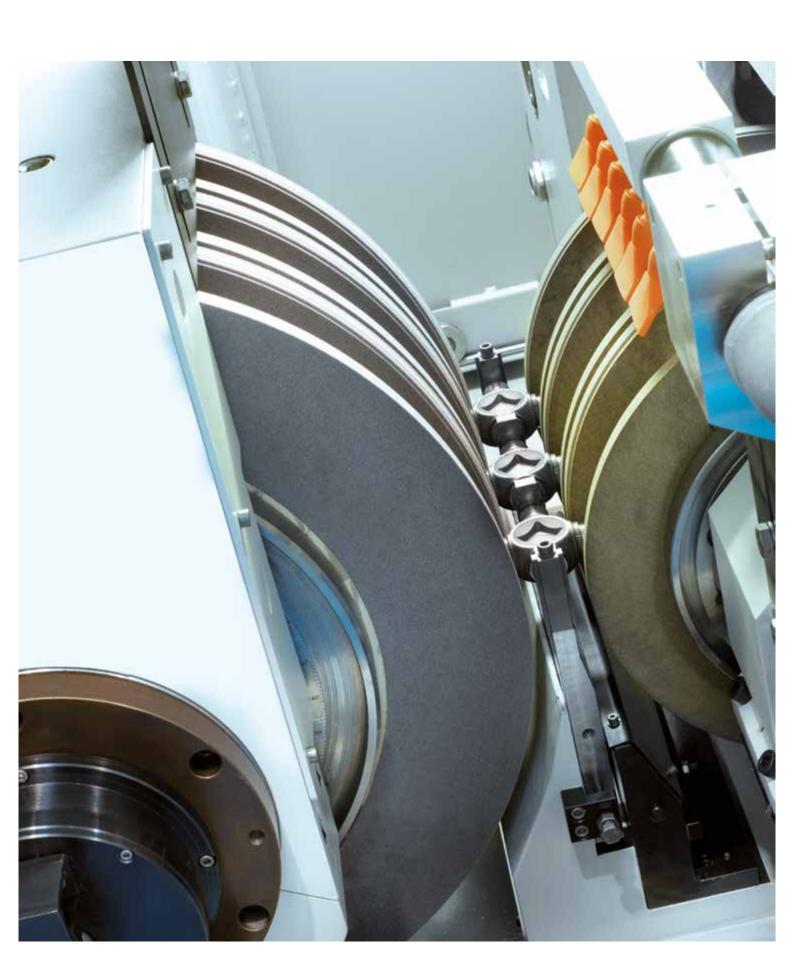






CENTRELESS GRINDING MACHINES

ESTARTA



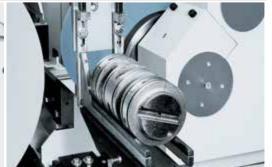


TECHNICAL CHARACTERISTICS		ESTARTA-200	ESTARTA-250	ESTARTA-400	ESTARTA-650
Component size	mm	0.5-50	1-100	1-100	5-250
Infeed grinding length	mm	200	250	400	650
Grinding wheel dimensions (OD x width x ID)	mm	ø610 x 200 x ø304.8	ø650 x 250 x ø304.8	ø650 x 400 x ø304.8	ø650 x 650 x ø304.8
Grinding wheel peripheral speed	m/s	20-120	63-120	63-120	63-120
Regulating wheel dimensions (OD x width x ID)	mm	ø305 x 200 x ø127	ø400 x 250 x ø203.2	ø400 x 400 x ø203.2	ø400 x 650 x ø203.2
Main motor	kW	20	30-45	37-75	55-110
Net weight	kg	10000	12500	13000	16500

- (*) Based on customer's requirements, other machine capacities & configurations could be taken into account.
- ESTARTA series is an innovative centreless grinding machine range with cutting-edge technology including natural granite machine beds, direct driven dressing systems with linear motors, etc.
- Maximum productivity ensured by its high rigidity, vibration damping design and the possibility of cutting speeds up to 120m/s.
- These machines, with fixed work-center, have been designed from the beginning as a complete solution, so the possibility to incorporate different and customised automatic loading systems is complete.
 We have extensive experience in developing this kind of customised solutions, e.g. gantry loaders or robot solutions. There is also the possibility to integrate different accessories as measuring devices, cleaning stations or others.

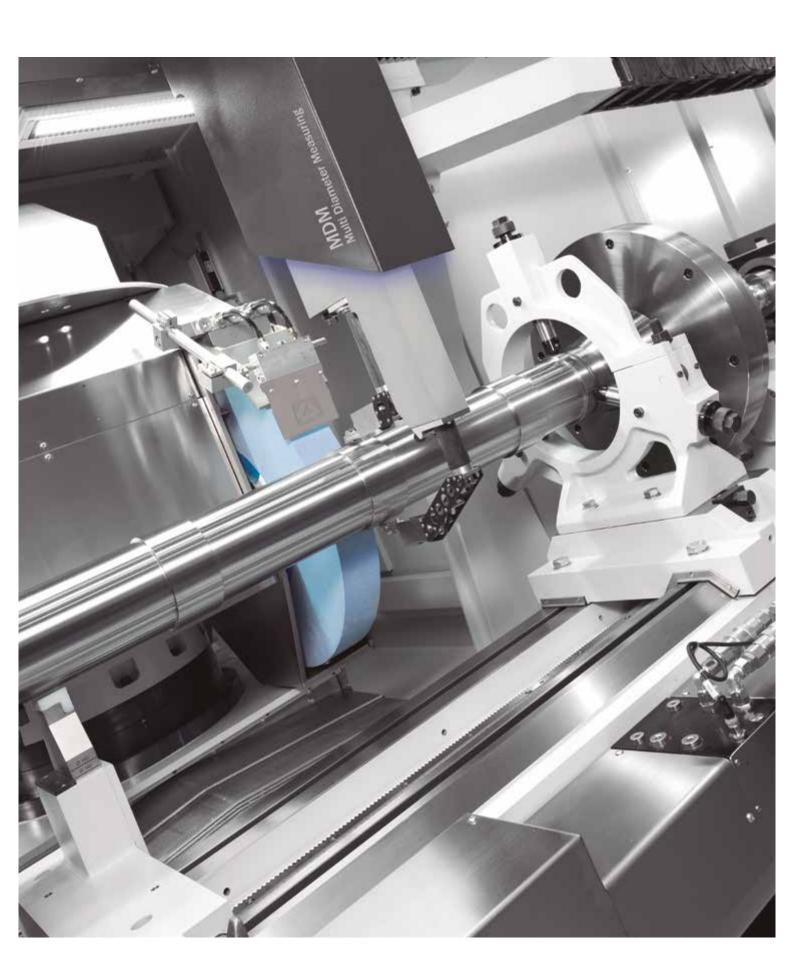






HEAVY DUTY GRINDING MACHINES

HG/WT





TECHNICAL CHARACTERISTICS		HG-62	HG-72	HG-92	WT-62	WT-72	WT-92	WT-100
Distance between centres	mm	2000	4000	5000	2000	8000	8000	8000
Diameter to be ground	mm	440	640	1000	440	640	1000	1000
Weight between centres	kg	500	1500	5000	500	1500	8000	15000
Grinding wheel diameter	mm	760	915	1060	610	1060	1220	1220
Wheelhead power	kW	30	45	45	15	45	45	45
Wheel peripheral speed	m/s	45/60	45/60	45/60	45/60	45/60	45/60	45/60

(*) Based on customer's requirements, other machine capacities & configurations could be taken into account.

- DANOBAT heavy duty grinding machines can have moving table or cross slide configuration to better adapt to customer's needs.
- Designed to fulfill the requirements of a wide range of applications that combine external, internal, face and taper grinding of components such as: transmission shafts, electric motor shafts, gas and wind turbine shafts, railway shafts, machine tools shafts, landing gear components, etc.
- Corundum, CBN or diamond wheels can be used.

- The machine base and sub-assemblies are made of stabilized pearlitic cast iron.
- +HG and WT grinders can be equipped with a wide range of wheelhead configurations: straight, angular and "B" axis which is driven by an integrated torque motor. Wheels are assembled on hydrostatic bearing spindles, roller bearing or on DANOBAT designed electrospindles.
- In order to obtain the maximum machine performance they can be equipped with in-process measuring systems, automatic wheel balancing system incorporating gap and crash, axial positioning system and taper correction, among others.



VERTICAL GRINDING MACHINES

VG / DVG





TECHNICAL CHARACTERISTICS		VG-600	VG-800	VG-1000	VG-1500	VG-2000	DVG-2500	DVG-3000	DVG-4000
Grinding diameter	mm	600	800	1000	1500	2000	2500	3000	4000
Grinding height	mm	500	500/700	500/1000	500/1000/1500	500/1000	700	700	700
Table load	kg	1200	1200	2000	3000	3000	15000	15000	15000
Max. C axis speed	rpm	300	300	300	150	100	150	80	50

(*) Based on customer's requirements, other machine capacities & configurations could be taken into account.

- Multipurpose high precision machine resulting in maximized output by allowing a wide range of machining operations in a single part setup.
- Typical operations performed by these vertical grinding machines include grinding, measuring and turning.
 Moreover, other auxiliary machining processes such as deburring, milling and drilling can also be incorporated.
- Stabilised pearlitic cast iron, direct driven technology and hydrostatic C axis guarantee maximum rigidity, high accuracy and optimum surface finish.
- Designed to suit specific applications of our customers ranging from universal configuration machines to the most demanding customisations. This modularity provides flexibility to achieve the shortest lead time and optimum cost for a machine made to order.







BLADE TIP GRINDING AND MEASURING MACHINES

mBTG / DANTIP





TECHNICAL CHARACTERISTICS		mBTG-400	mBTG-800	DANTIP
Grinding diameter	mm	410	800	1500
Grinding length	mm	600	860	1500
Component length	mm	750	1400	2000
Component speed	rpm	10-7000	10-7000	10-4500
Wheelhead swivel	degrees	-10/+200	-10/+200	-10/+200

 $(*) \ Based \ on \ customer's \ requirements, other \ machine \ capacities \ \& \ configurations \ could \ be \ taken \ into \ account.$

- Precision grinding, deburring and measuring of the blade tips of gas turbine engine rotors. These machines grind the blade tips of the rotor while they are being spun at high speed, (up to 7000 rpm) thereby presenting the blades to the grinding wheel under the appropriate operating conditions. This feature ensures the highest degree of accuracy that can be obtained with current technologies.
- Diametric tolerances can be held to 0.025 mm.
 This achievement is regarded as very important, because the clearance between the rotor blade tips and the outer housing has a critical bearing on the engines performance.
- mBTG is typically used to grind and measure rotors such as CT7/T700, RTM322, CFM56, CF34, V2500, TP400, F404 and J85 among others and DANTIP is used for large engine rotors.
- These machines can be supplied forming "Match Machining Cells" with DANOBAT VG vertical grinders as a complete solution for match machining and measuring the rotors and casings of the same engine.







GRINDING MACHINES FOR AIRCRAFT LANDING STRUTS

DANUNI



TECHNICAL CHARACTERISTICS		DANUNI 2500/2500	DANUNI 3050/3400	DANUNI 4100/3400
Swing in gap	mm	2500	3050	4100
Length between centres	mm	2500	3400	3400
Width of gap	mm	800	1400	1400
Swing over the table	mm	840	1600	1600
External diameter ground	mm	610	610	610
Grinding wheel dimensions	mm	915 x 75	915 x 75	915 x 75
External spindle power	kW	30	30	30
Internal spindle power	kW	9	20	20

- (*) Based on customer's requirements, other machine capacities & configurations could be taken into account.
- Designed for precision external and internal grinding of different aircraft landing gear struts, such as complex shaped pistons in internal diameters and external diameters in cylinders.
- The DANOBAT Gap Bed Grinding Machine revolutionises the grinding process because it can swing the whole component between centres. With DANUNI range customers can obtain a reduction of up to 50% in machining overhaul times due to the integration of OD and ID operations in one machine, providing a fast R.O.I.
- The machines are offered in different sizes, models and configurations depending on the application and customer requirements. Landing gear components requiring a swing of up to 4100 mm can be handled. In addition the machine can grind internal bores up to 2550 mm in length.



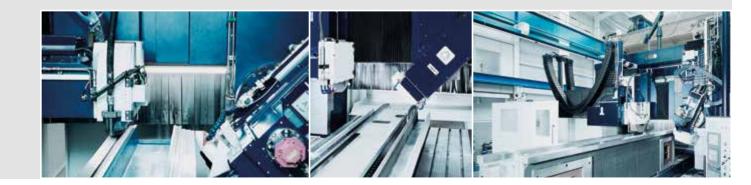




SURFACE GRINDING MACHINES SGD

TECHNICAL CHARACTERISTICS	SG	
Table length	mm	up to 14000
Table width	mm	up to 3000
Wheel dimensions	mm	760 x 200
Height to be ground	mm	2000
Wheelhead power	kW	37

- (*) Based on customer's requirements, other machine capacities & configurations could be taken into account.
- Designed for precision grinding of machine tool beds and guideways, and complex heavy and large components.
- Double column slideway surface grinding machines with fixed or mobile cross rail and tangential and/or universal wheel heads.
- DANOBAT machines take into account the very latest technical and economic advances in grinding machine technology and machine tool control.
- The machine configuration incorporates many mechanical and electrical in built safety features to ensure safe operation of the machine and protection of the component from damage.



DANOBAT SERVICES

FOR MORE RELIABLE, PRODUCTIVE AND LONG-LASTING EQUIPMENT





DANOBAT SERVICES

MAINTAINING YOUR EQUIPMENT

To gain maximum performance from equipment and ensure the quality of the parts manufactured, we offer advanced maintenance services, intelligent parts management and an extensive network of experts in our customers' locations. Our asset maintenance offer is further complemented by the services and developments on offer in our 4.0 value proposition.

SPARE PART MANAGEMENT: INTELLIGENCE TO ENSURE RELIABILITY

We provide intelligent management of machine spare parts and consumables. The service allows us to guarantee equipment operation, reduce downtime and save costs.

- Spare parts and consumables for the whole life cycle
- Spare parts sales plan tailored to needs

LOCAL SERVICE NETWORK: PROXIMITY AND EFFICIENCY

We have an extensive network of professionals working in over 40 countries, capable of meeting customer's needs wherever they are and ensuring fast attention, effectiveness and proximity.

- Expert knowledge
- Efficiency
- Proximity







SPAIN H.Q.

DANOBAT

Arriaga kalea 21 E-20870 Elgoibar Gipuzkoa · Spain T + 34 943 748 044 danobat@danobat.com www.danobatgroup.com

GERMANY & CENTRAL EUROPE

DANOBAT-OVERBECK

Konrad-Adenauer-Str. 27 35745 Herborn Germany T + 49 (0) 2772 801 0 info@overbeck.de www.danobatoverbeck.de

ITALY DANOBAT

Regione Cartesio 58 15012 Bistagno (AL) Italia T + 39 0144 441615 danobatsrl@danobat.com

RUSSIA DANOBATGROUP RUSSIA

UI. Argunovskaya 3/1 129075 Moscow Russia T +7 499 685-16-42 info@danobatgrouprussia.ru

UNITED KINGDOM

DANOBAT - NEWALL

1 Sturrock Way · Bretton Peterborough Cambs · PE3 8YF United Kingdom T + 44 (0) 1733 265566 sales@newall-uk.com

USA & CANADA DANOBAT

5515B FM 1960 East Humble, Texas 77346 USA T + 1 281 812 4259 danobatusa@danobatusa.com

BRAZIL DANOBAT

Alameda Santos, 2335
7° andar - Conj.71
01419-200 Sao Paulo
Brazil
T +55 113 082 90 80
danobatbrasil@danobatbrasil.com.br

CHINA

DANOBATGROUP CHINA

Room 907B · Tower A, Phoenix Place 5A Shuguang Xili, Chaoyang District Beijing P.R.C. 100018 China T + 86 10 6467 3639 info@danobat.cn

INDIA

DANOBATGROUP INDIA

Office No-7 · Business Avenue
2nd Floor · Niyoshi Park Road
Sanghvi Nagar · Aundh
Pune 411 007, Maharashtra
India
T +91 20 66 094531
danobatgroupindia@danobatgroup.com

