

www.drinns.com.tr



drinns

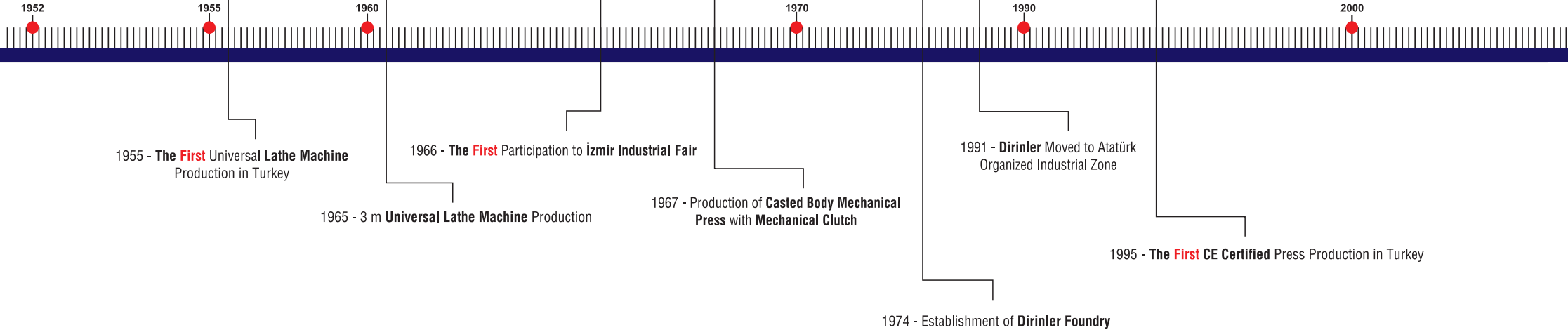


We Shape The World

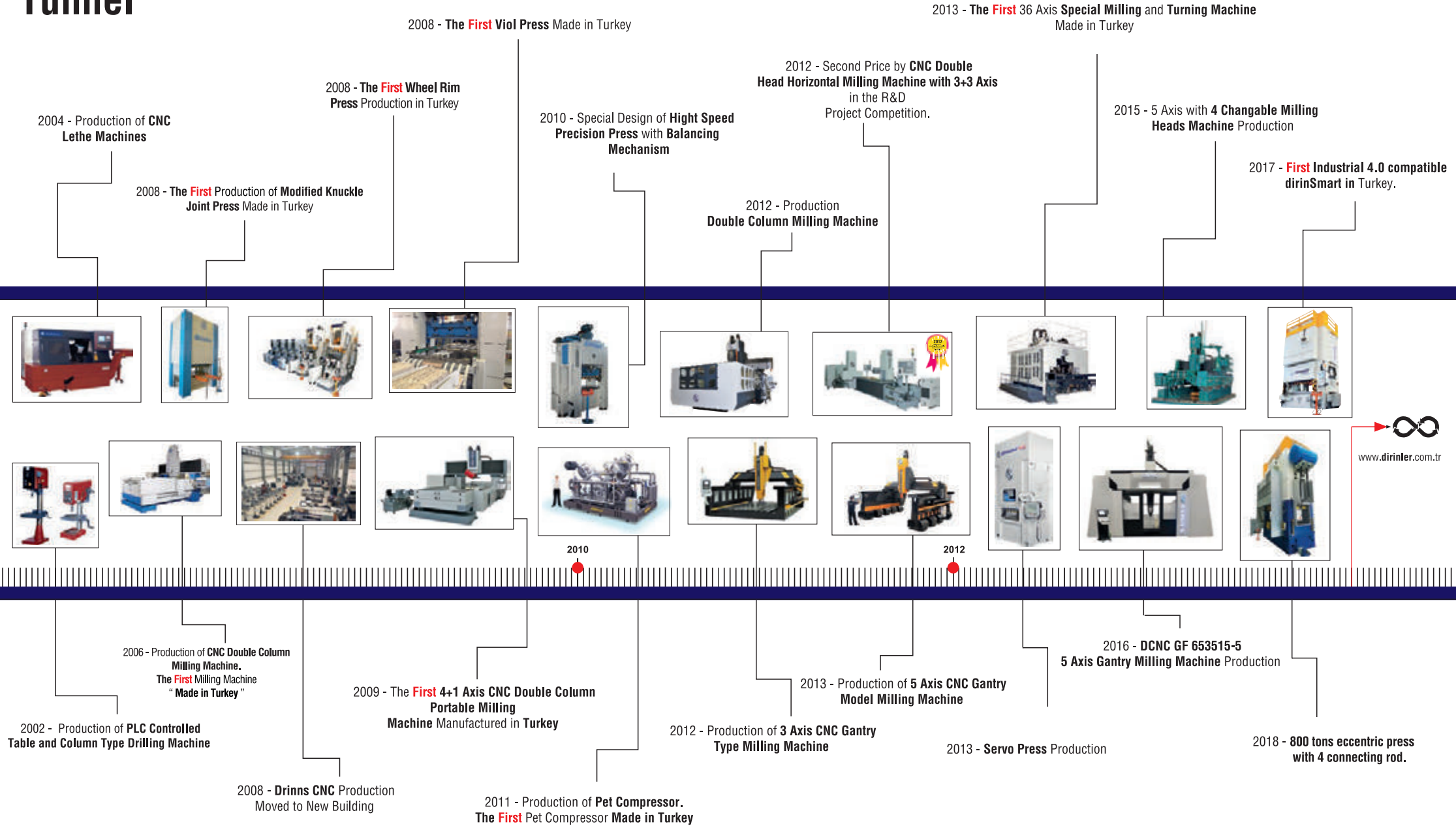


We Shape The World

Time



Tunnel





Dirinler

Dirinler Group



Group



DİRİNLER MAKİNA SANAYİ VE TİCARET A.Ş.

Dirinler Makina was founded in 1952, Dirinler Makina is making metal forming presses in various sizes and dimensions. Among our product range eccentric, knuckle joint, link drive, servo and hydraulic presses are available in C-Frame as well as H-frame construction up to 2000 tons capacity. As a highly skilled manufacturer, Dirinler is performing rigorous production activities in its 18.000 sqm indoor facility which is sitting on 24.000 sqm total area. For the sake of customer satisfaction, we offer free investment consultancy services to our esteemed customers. Our vision is unlimited customer satisfaction and we offer "Product Liability Insurance"

For more information please visit: www.dirinler.com.tr



DİRİNLER DÖKÜM SANAYİ VE TİCARET A.Ş.

Dirinler Döküm was founded in 1974 for the production of cast iron parts. The company produces big and heavy parts up to 16 tons grey iron and 20 tons ductile iron in one piece for wind energy, ship building and heavy machinery industries, press molds for automotive industry, valves and pumps up to 4000 mm diameter with annual capacity of 20.000 tons in total 40.000 sqm area of which 20.000 sqm is indoor. Dirinler Döküm exports to many countries especially in Europe as rough or machined parts.

For more information please visit: www.dirinlerdokum.com



LUPAMAT MAKİNA SANAYİ A.Ş.

Lupamat was founded in 1968 in order to produce air compressors. The factory having activities in an area of 12.000 sqm of which 6.000sqm indoor, is producing reciprocating, screw air compressors and pet compressors under the brand of "Lupamat" and exports to many countries in the world especially in Europe and Middle East.

For more information please visit: www.lupamat.com



DİRİNLER SANAYİ MAKİNALARI ENDÜSTRİ VE TİCARET A.Ş.

Our company was founded at 1983 and produces CNC Lathes, CNC Double Column Milling Machines, CNC Gantry type Milling Machines at 2500 sqm closed area since the year 2001. Our company also presents customized solutions with high quality products and reasonable price advantages by supplying special production with Drinns brand in line with the needs and expectations of the customers.

For more information please visit: www.drinns.com.tr



DİRİNLER TURİZM, LİMAN İŞLETMECİLİĞİ, SEYAHAT, İNŞAAT, AKARYAKIT SANAYİ VE TİCARET A.Ş.

Dirinler Turizm started her activities at Levent Marina in 2010. Levent Marina of which operation rights was bought by Dirinler Döküm as a subsidiary to Dirinler Group, is the youngest company in the group. Levent Marina facilities are used for delivering port, technical services, fuel oil, and security services as well as shopping and entertainment center.

For more information please visit: www.leventmarina.com.tr



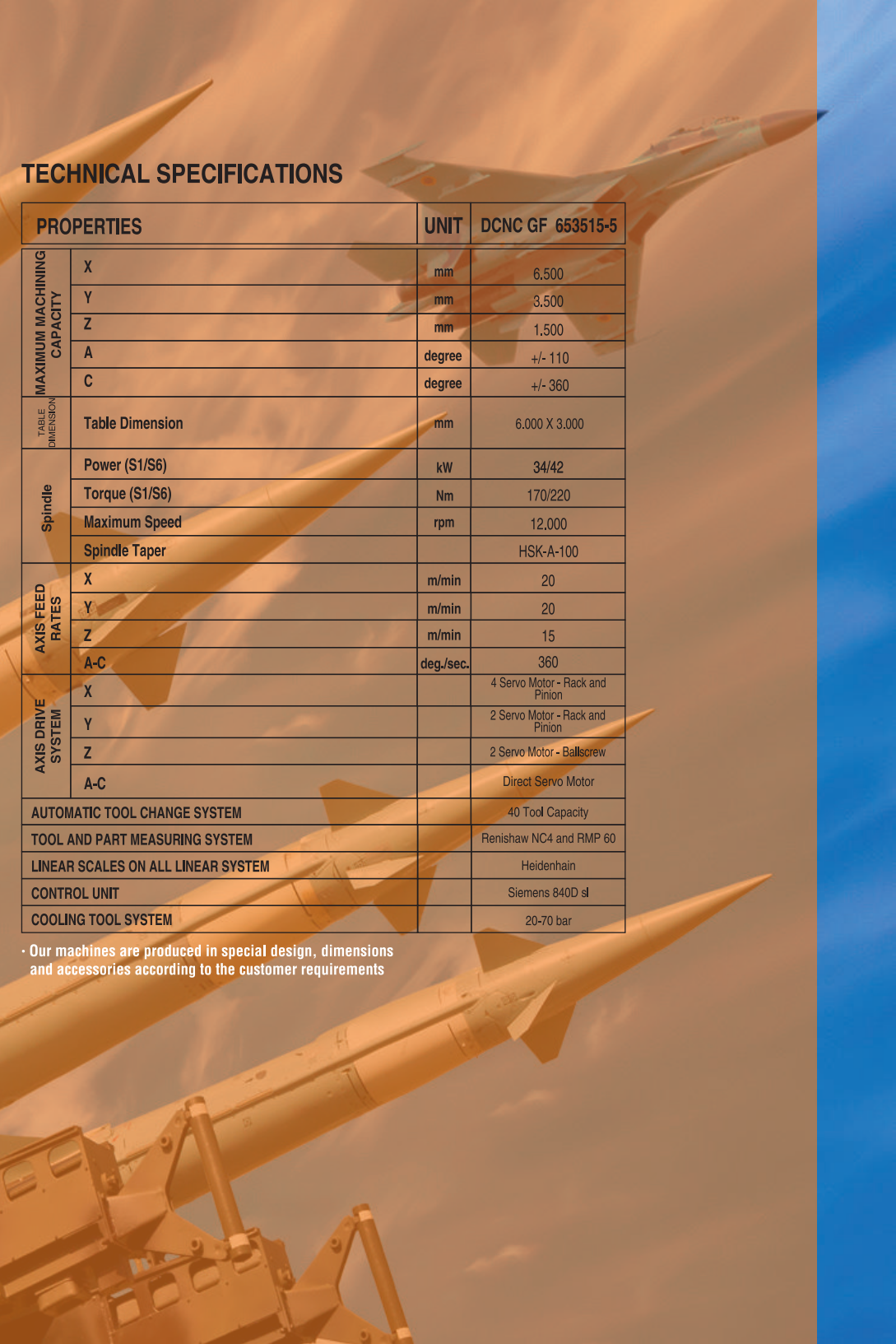


Defense

TECHNICAL SPECIFICATIONS

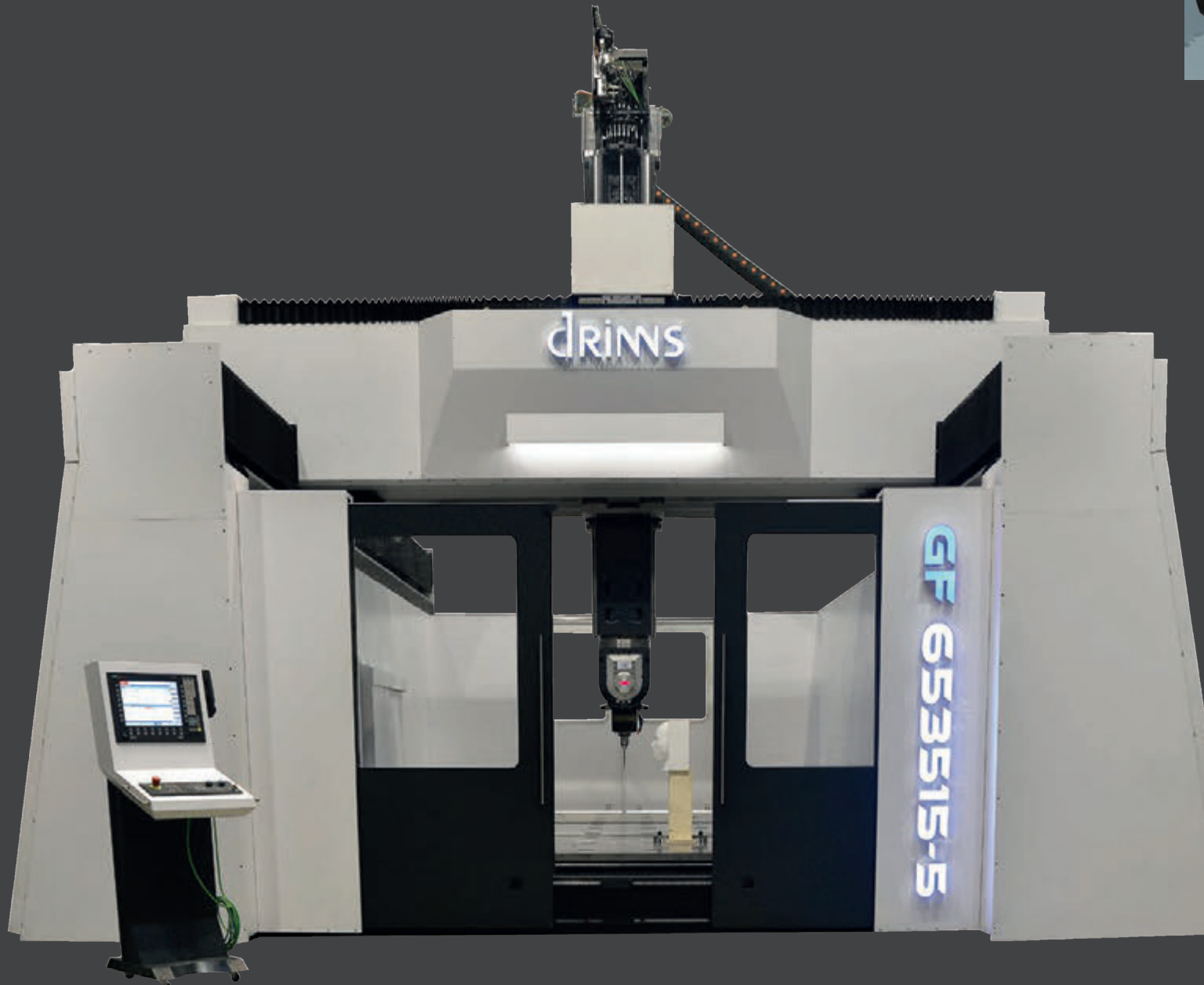
PROPERTIES		UNIT	DCNC GF 653515-5
MAXIMUM MACHINING CAPACITY	X	mm	6.500
	Y	mm	3.500
	Z	mm	1.500
	A	degree	+/- 110
	C	degree	+/- 360
TABLE DIMENSION	Table Dimension	mm	6.000 X 3.000
Spindle	Power (S1/S6)	kW	34/42
	Torque (S1/S6)	Nm	170/220
	Maximum Speed	rpm	12.000
	Spindle Taper		HSK-A-100
AXIS FEED RATES	X	m/min	20
	Y	m/min	20
	Z	m/min	15
	A-C	deg./sec.	360
AXIS DRIVE SYSTEM	X		4 Servo Motor - Rack and Pinion
	Y		2 Servo Motor - Rack and Pinion
	Z		2 Servo Motor - Ballscrew
	A-C		Direct Servo Motor
AUTOMATIC TOOL CHANGE SYSTEM			40 Tool Capacity
TOOL AND PART MEASURING SYSTEM			Renishaw NC4 and RMP 60
LINEAR SCALES ON ALL LINEAR SYSTEM			Heidenhain
CONTROL UNIT			Siemens 840D sl
COOLING TOOL SYSTEM			20-70 bar

• Our machines are produced in special design, dimensions and accessories according to the customer requirements

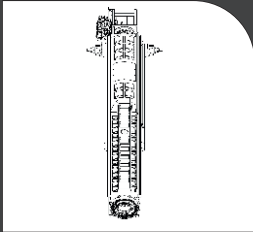


Drinns DCNC Series 5 Axis CNC Gantry Type Milling Machine

The machine which has a capability of milling big workpieces with 5 axis simultaneously, can be used in defence, aviation, machine, automotive and mold industries.

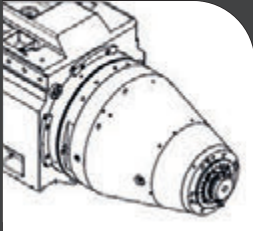


TECHNICAL SPECIFICATIONS OF MILLING HEADS

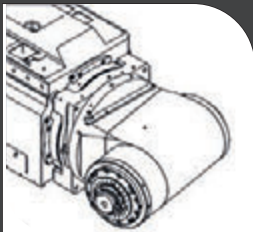


Main Drive

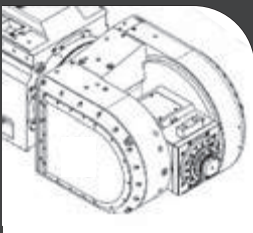
Maximum Power	112 kW
Maximum Speed	2000 rpm
Torque (SI / S6 - 60%)	1.500 / 1.875 Nm



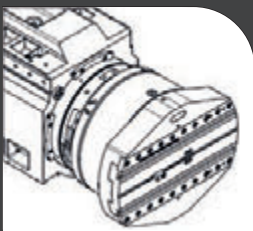
Power	112 kW
Maximum Speed	2000 rpm
Torque (SI / S6 - 60%)	1.500 / 1.875 Nm
Spindle Taper	SK50
Clamping Force	25 kN
Clamping Pressure	70 bar
Weight	400 kg



Power	92 kW
Maximum Speed	1850 rpm
Torque (SI / S6 - 60%)	1.500 / 1.875 Nm
Positioning Accuracy	+/- 90"
Spindle Taper	SK50
Clamping Force	25 kN
Clamping Pressure	70 bar
Weight	500 kg



Maximum Power	56 kW
Maximum Speed	1650 rpm
Torque (SI / S6 - 60%)	740 / 900 Nm
C Axis	
C Axis Swivel Speed	Maximum 10 rpm
C Axis Swivel Torque	1.645 / 3.260 Nm
Positioning Accuracy	+/- 2"
C Axis Swivel Angle	+/- 185°
B Axis	
B Axis Swivel Torque	2100 / 1500 Nm
Positioning Accuracy	+/- 2.5"
B Axis Swivel Angle	+/- 100°
Weight	1.150 kg



D'Andrea Head

W axis can be programmed	0-200mm
Tool Feed Rate	1 - 400 mm / min
Tool Speed	250 rpm
Radial Power	500 daN
Torque	800 daNm
Boring Accuracy	H7
Surface Roughness	Ra 0.8 - 1.2
Weight	310 Kg



TECHNICAL SPECIFICATIONS

PROPERTIES		UNIT	DCNC GF 483315/5-3K
AXIS TRAVEL	X Axis	mm	4800
	Y Axis	mm	3300
	Z Axis	mm	1500
	Distance Between Spindle Nose To Table Surface (Straight head)	mm	150 - 1650
	Distance Between Columns	mm	3940
WORKING TABLE	Table Size	mm	8400 x 3940
	T Slots	mm	36H7 x 12
	Maximum Table Load	kg	4500
SPINDLE	Speed	rpm	2000
	Spindle Taper		SK50
	Spindle Motor Power	kW	92 / 112
FEED RATE	Axis Speed (X, Y, Z)	m/min	10 / 10 / 10
	Cutting Feed Rate	m/min	3 / 3 / 3
	X, Y, Z Motor Power	kW	2 x 9.6 / 9.6 / 10.5
	X, Y, Z Axis Rail Movement		Ballscrew
	X, Y, Z Axis Rail Type		Roller Type Linear Slide
	Number of Changeable Head	pieces	4
	Power Requirement	KVA	400
	Machine Weight	kg	170000

We reserve the rights to make changes in design and drawings

Our machines are produced in special design, dimensions and accessories according to the customer requirements

STANDARD FEATURES

Heidenhain iTNC 530 Control Unit

Heidenhain Linear Scale

3 Axis Automatic Lubrication System

Rigid Tapping

Spindle Air Blast

Ethernet and USB

Work Lamp

Alarm Lamp

Transformer

User Manual

Maintenance Manual

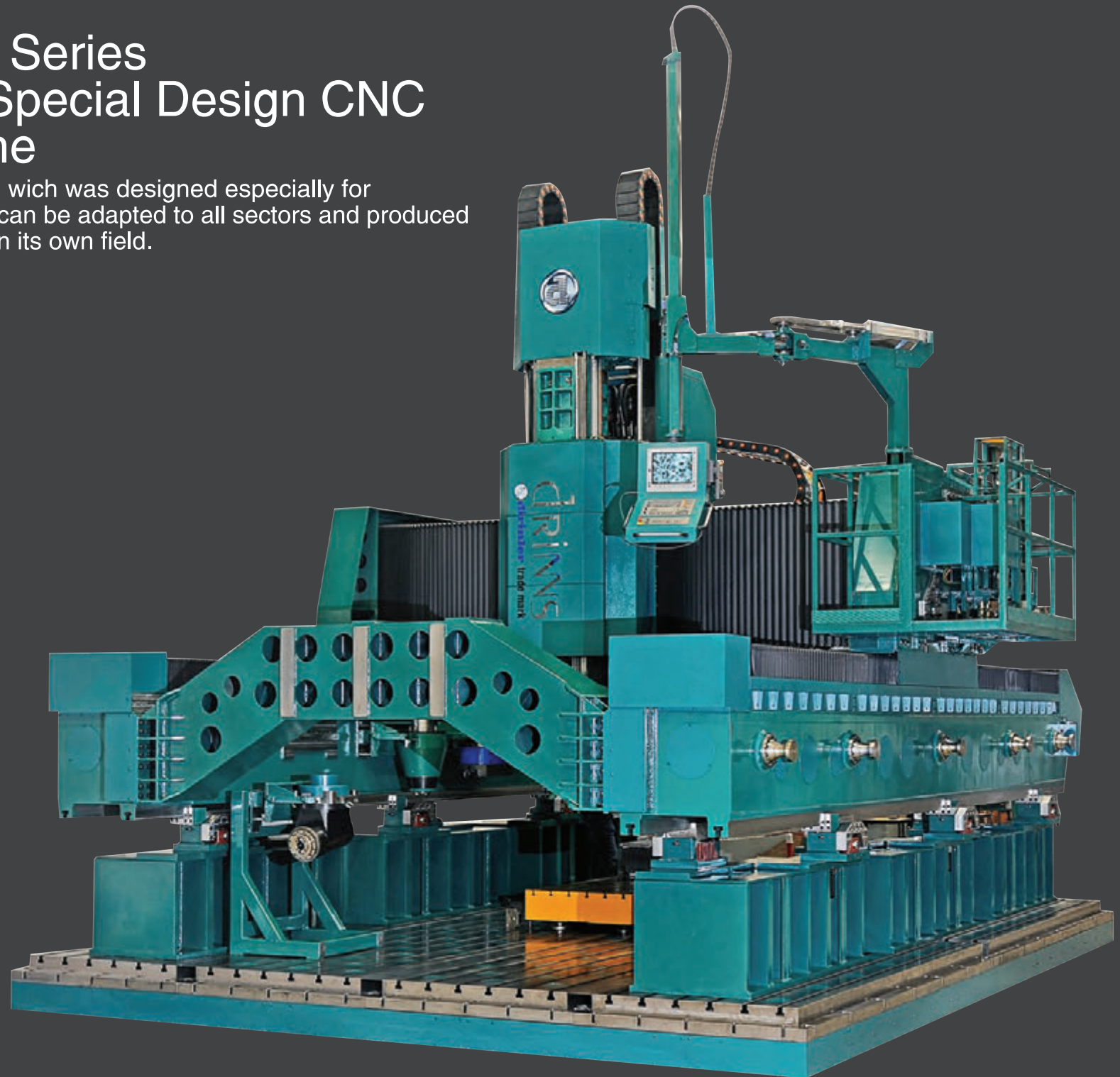
Electrical Cabinet Air Conditioner

Z Axis Weight Balancing Cylinder

Spindle Cooling

Drinns DCNC Series Gantry Type Special Design CNC Milling Machine

This is the milling machine which was designed especially for shipbuilding industry, also can be adapted to all sectors and produced with the latest technology in its own field.





TECHNICAL SPECIFICATIONS

PROPERTIES		UNIT	DCNC TF 202020/36
AXIS TRAVEL	X Axis (X2)	mm	200
	Y Axis (Y1-Y2-Y3-Y4-Y5-Y6)	mm	200
	Z Axis (Z1-Z2-Z3-Z4-Z5-Z6)	mm	200
	Distance Between Spindle Nose to Table	mm	150-350
	Distance Between Columns	mm	4500
WORKING TABLE	Table Size (6 Pieces)	mm	1600x543
	T Slot	mm	14x27x2
	Max. Table Load	kg	386
SPINDLE	Speed	rpm	8000
	Spindle Taper		BT40
	Spindle Motor Power	kW	20
FEED RATES	Axis Speeds (X, Y, Z)	m/min	15/15/15
	Cutting Feed Rates	m/min	8/8/8
	X, Y, Z Axis Motor Power	Nm	3.3/3.3/2.73
	X, Y, Z Axis Rack Movement		BallscREW
	X, Y, Z Axis Rack Type		Roller Type Linear Slide
	Power Requirement	KVA	80
	Machine Weight	kg	35000

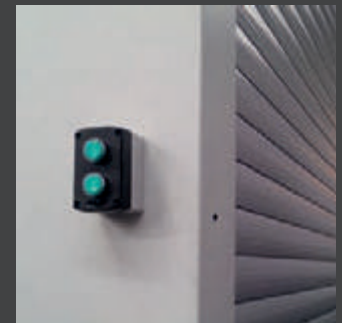
- Our machines are produced in special design, dimensions and accessories according to the customer requirements

Drinns DCNC Series 36 Axis Turning and Milling Machine

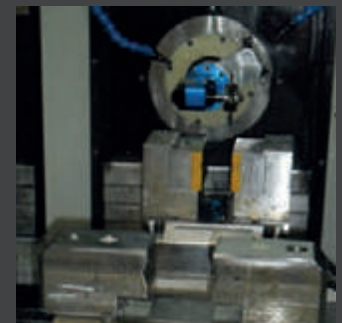
DCNC Series 36 Axis Turning and Milling Machine is designed to appeal to all sectors with specific changes to be made according to customer demand in each sector is intended to provide a rapid production.



- Multi functional transport system
- Precision parts transfer system
- Serial part transport



- Self-closing protection Cabin
- Conformity to European Directives



- Part based special spindle production
- Self-motorized spindle



Defence

TECHNICAL SPECIFICATIONS

PROPERTIES		UNIT	DCNC GM 403010/5
AXIS TRAVEL	X Axis	mm	4000
	Y Axis	mm	3000
	Z Axis	mm	1000
	Distance Between Spindle Nose and Table	mm	150-1150
	Distance Between Columns	mm	3385
WORKING TABLE	Table Size	mm	Option
	T Slots	mm	170x50
	Max. Table Load	kg/m ²	1500
SPINDLE	Speed	rpm	24000
	Spindle		HSK A63
	Spindle Motor Power	kW	10/15
FEED RATE	Axis Speed (X, Y, Z)	m/min	25/25/25
	Cutting Feed Rate	m/min	20/20/20
	X, Y, Z Motor Power	Nm	(2X8) 8/16
	Z Axis Rail Movement		Ballscrew
	X,Y Axis Rail Movement		Grinded Rack
	X, Y, Z Axis Rail Movement		Linear Guideways
	Power Requirement	KVA	26
	Machine Weight	kg	26000

• Our Machines are produced in special design, dimensions and accessories according to the customer requirements

STANDARD FEATURES

Auto Lubrication System For 3 Axis
Rigid Tapping
Spindle Air Curtain
Rs-232 Transmission Interface
Work Lamp
Alarm Lamp
Transformer
User Manual
Maintenance Manual
Spindle Cooling System
Air Conditioner For Electric Cabinet
Z Axis Weight Balancing System

OPTIONAL FEATURES

Auto Tool Length Measurement
Coolant Through Spindle
Vacuum System
Closed Cabinet

Drinns DCNC Series

5 Axis CNC Gantry Type Milling Machine

5 Axis CNC Gantry Type Milling Machine is developed for special productions in machinery, mould, automotive, medical, defence and aviation industries. 5-Axis CNC Gantry Type Milling Machine is produced with special design for high accurate machining operations performance.



- 24000 RPM spindle
- Continuous cooling
- High accuracy



- All functions open control system



- 5 Axis Milling Head



Energy

TECHNICAL SPECIFICATIONS

PROPERTIES		UNIT	DCNC GM 402510/3	DCNC GM 403010/3
AXIS TRAVEL	X Axis	mm	4000	4000
	Y Axis	mm	2500	3000
	Z Axis	mm	1000	1000
	Distance Between Spindle Nose and Table Surface	mm	150-1150	150-1150
	Distance Between Surface	mm	3385	3885
WORKING TABLE	Table Size	mm	4100x2600	4100x3100
	T Slots	mm	170x50	170x50
	Max. Table Load	kg/m²	1500	1500
SPINDLE	Speed	d/min	8000	8000
	Spindle Taper		BT40	BT40
	Spindle Motor Power	kW	7,5/11	7,5/11
FEED RATE	Axis Speed (X, Y, Z)	d/min	16/16/16	16/16/16
	Cutting Feed Rate	d/min	10/10/12	10/10/12
	X, Y, Z Motor Power	Nm	(2x8)/8/16	(2x8)/8/16
	Z Axis Rail Movement		Ballscrew	Ballscrew
	X,Y Axis Rail Movement		Grinded Rack	Grinded Rack
	X, Y, Z Axis Rail Type		Linear Guideways	Linear Guideways
	Power Requirement	KVA	22	22
	Machine Weight	kg	20000	26000

- Our machines are produced in special design, dimensions and accessories according to the customer requirements

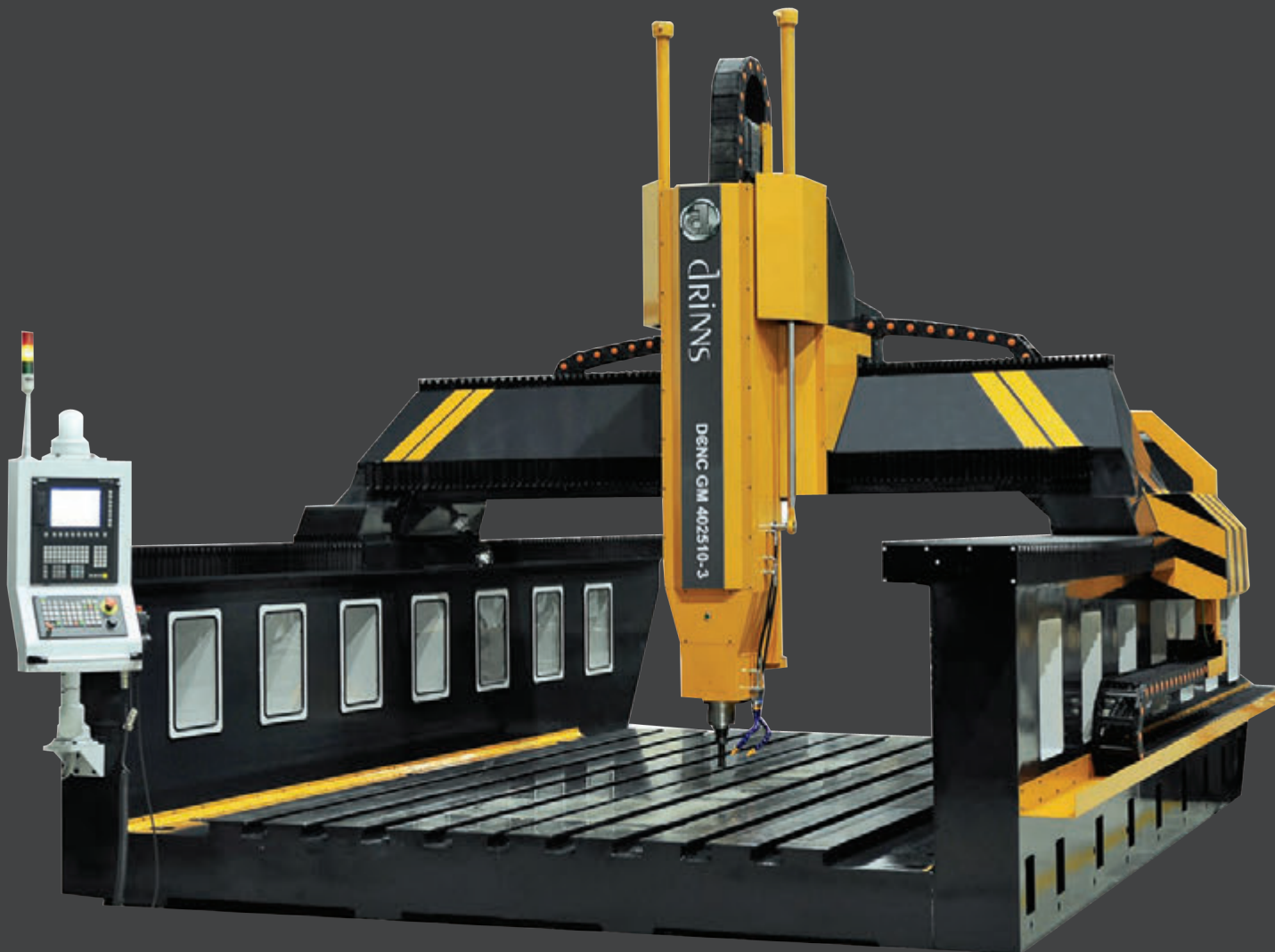
STANDARD FEATURES

- Auto Lubrication System 3 Axis
- Rigid Tapping
- Spindle Air Blast
- Rs-232 Transmission Interface
- Work Lamp
- Warning Lamp
- Transformer
- User Manual
- Maintenance Manual
- Air Conditioner For Electric Cabinet
- Z Axis Weight Balancing Cylinder
- Spindle Cooling

Drinns DCNC Series

3 Axis CNC Gantry Type Milling Machine

3 Axis CNC Gantry Type Milling Machine has a composite body construction and is used for machining wood and aluminium patterns in casting industry, prototyping in automotive and aviation industries, composite product die making, iron-steel and energy sectors.



- Pattern machining in one part
- Rigit body structure



- 8000 RPM spindle
- Continuous cooling
- High accuracy



- All functions open CNC control



Aviation

TECHNICAL SPECIFICATIONS

PROPERTIES	UNIT	DCNC PF 352010/4+1
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TABLE

Working Table	mm	3500x2000
Maximum Payload	kg	8000
T Slot - Dimension - Interval	mm	22/37 180
Distance Between Spindle and Table	mm	150/1150
ATC	piece	40

STROKERS (Maximum)

X Axis	mm	3500
Y Axis	mm	2500
Z Axis	mm	1000
A Axis	degree	+/- 105°

FEED RATE (Maximum)

X Axis	m/min	12
Y Axis	m/min	15
Z Axis	m/min	20
A Axis	m/min	22
Axis Motor Torques	Nm	80/60/50/2000

SPINDLE

Spindle Motor Power	kW	28-33
Spindle Maximum Speed	m/min	10000
Spindle Taper	-	HSK-A 100

- Our machines are produced in special desgin, dimensions and accessories according to the customer requirements

Drinns DCNC Series

4+1 Axis CNC Double Column Milling Machine

CNC Double Column Milling Machine with 4+1 axis capable of precision work continuously, especially is used for processing of precision parts in aviation defence, automotive and machinery industries.



- Continuously accurate work with 4 axis
- Protection cover
- Spiral and palette chip conveyor
- Conformity into CE norms



- Integrated work of divisor with the system supplies 5 axis ability to the system



- 4 axis head
- Build-in spindle
- Interpolation characteristics at high torque in C axis
- Spindle cooling unit

TECHNICAL SPECIFICATIONS

PROPERTIES	UNIT	DCNC YF 450503/3+3
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TABLE

Working Table	mm	4500x500
Maximum Work Piece Weight	kg/m ²	3000
ATC	piece	12+12

STROKES (Maximum)

X1 Axis	mm	4500
X2 Axis	mm	4500
Y1 Axis	mm	300
Y2 Axis	mm	300
Z1 Axis	mm	500
Z2 Axis	mm	500

FEED RATE (Maximum)

X1 Axis	m/min	15
X2 Axis	m/min	15
Y1 Axis	m/min	20
Y2 Axis	m/min	20
Z1 Axis	m/min	20
Z2 Axis	m/min	20

SPINDLE

Spindle Motor Power	kW	15/15
Spindle Maximum Speed	d/min	6000
Spindle Taper	-	BT40/BT40
Control Unit	-	2 pieces
ATC	-	2 pieces

- Our machines are produced in special design, dimensions and accessories according to the customer requirements

Drinns DCNC Series CNC Double Head Horizontal Milling Machine

CNC Double Head Horizontal Milling Machine with 3+3 axis precision work featuring and two separate CNC control unit working synchronized each other is used in automotive, machinery and specialized manufacturing sectors. Design of CNC Double Head Horizontal Milling Machine by the copyright belongs to our company.

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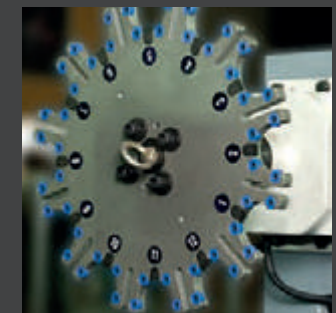
Second Price in
O.A.I.B Machinery
Manufacturing Technology at
The Category of
Industrialist.



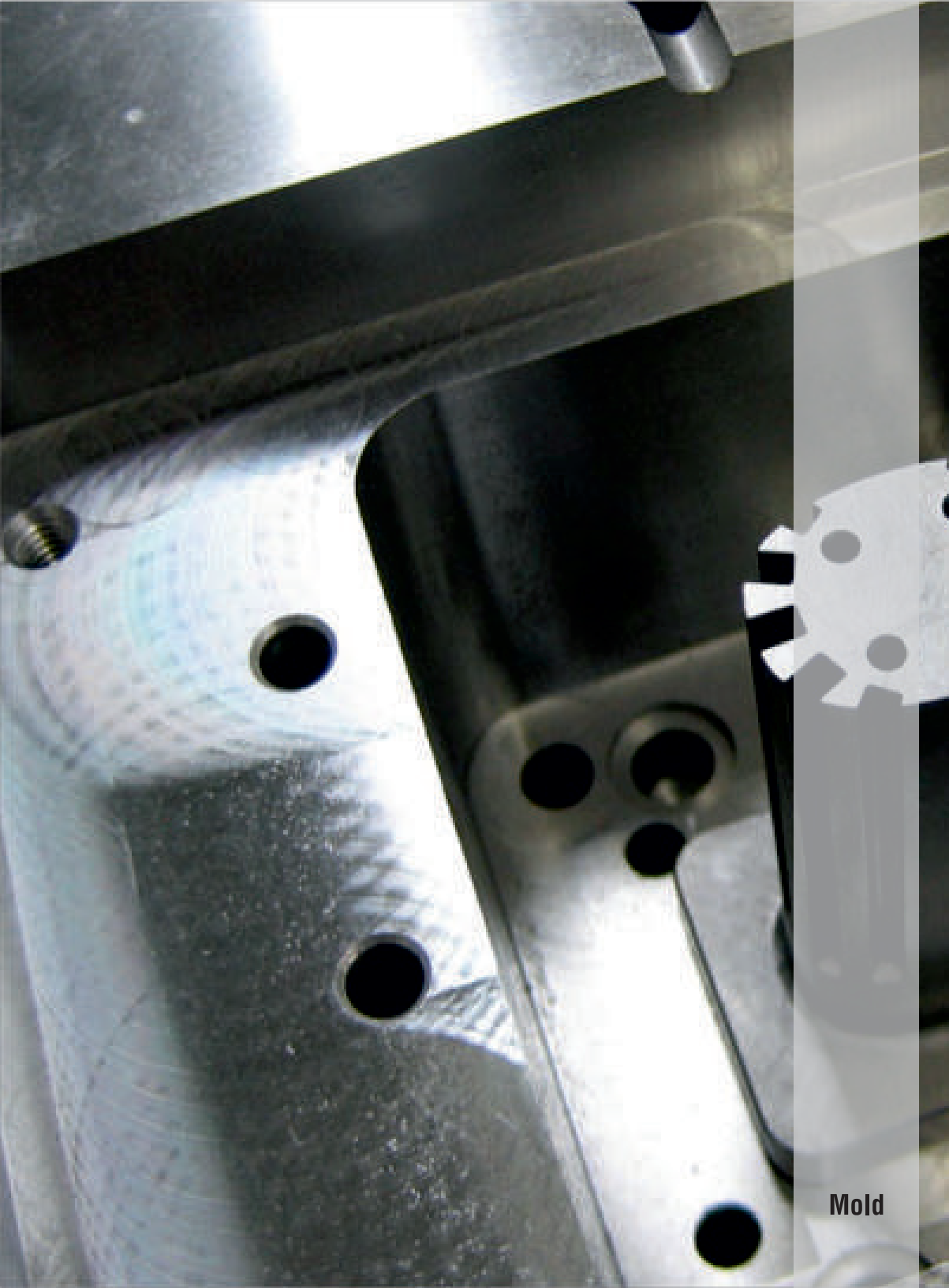
- Re-circulated cooling and lubrication systems reduce spindle thermal stress and extend the life of work by special selected gearbox shaft and bearings.



- Precision bearing and high speed motor provide the necessary sensitivity of work.



- Time saving is achieved on CNC Double Head Horizontal Milling Machine by unique selection of ATC.



Mold

TECHNICAL SPECIFICATIONS

PROPERTIES		UNIT	DCNC PF 302210/3
AXIS TRAVEL	X Axis	mm	3000
	Y Axis	mm	2700
	Z Axis	mm	1000
	Distance Between Spindle Nose to Table	mm	150-1150
	Distance Between Columns	mm	2865
WORKING TABLE	Table Size	mm	3000x2250
	T Slots	mm	13x22x180
	Max. Table Load	kg	12000
SPINDLE	Speed	rpm	6000
	Spindle Taper		BT50
	Spindle Motor Power	kW	30/37
FEED RATES	Axis Speeds (X, Y, Z)	d/min	12/15/15
	Cutting Feed Rates	d/min	10/10/12
	X, Y, Z Axis Motor Power	Nm	65/53/53
	X, Y, Z Axis Rail Movement		BallScrew
	X, Y, Z Axis Rail Type		Roller Type Linear Slide
	Power Requirement	KVA	60
	Machine Weight	kg	46000

- Our machines are produced in special design, dimensions and accessories according to the customer requirements

OPTIONAL PROPERTIES

Ball screw cooling system

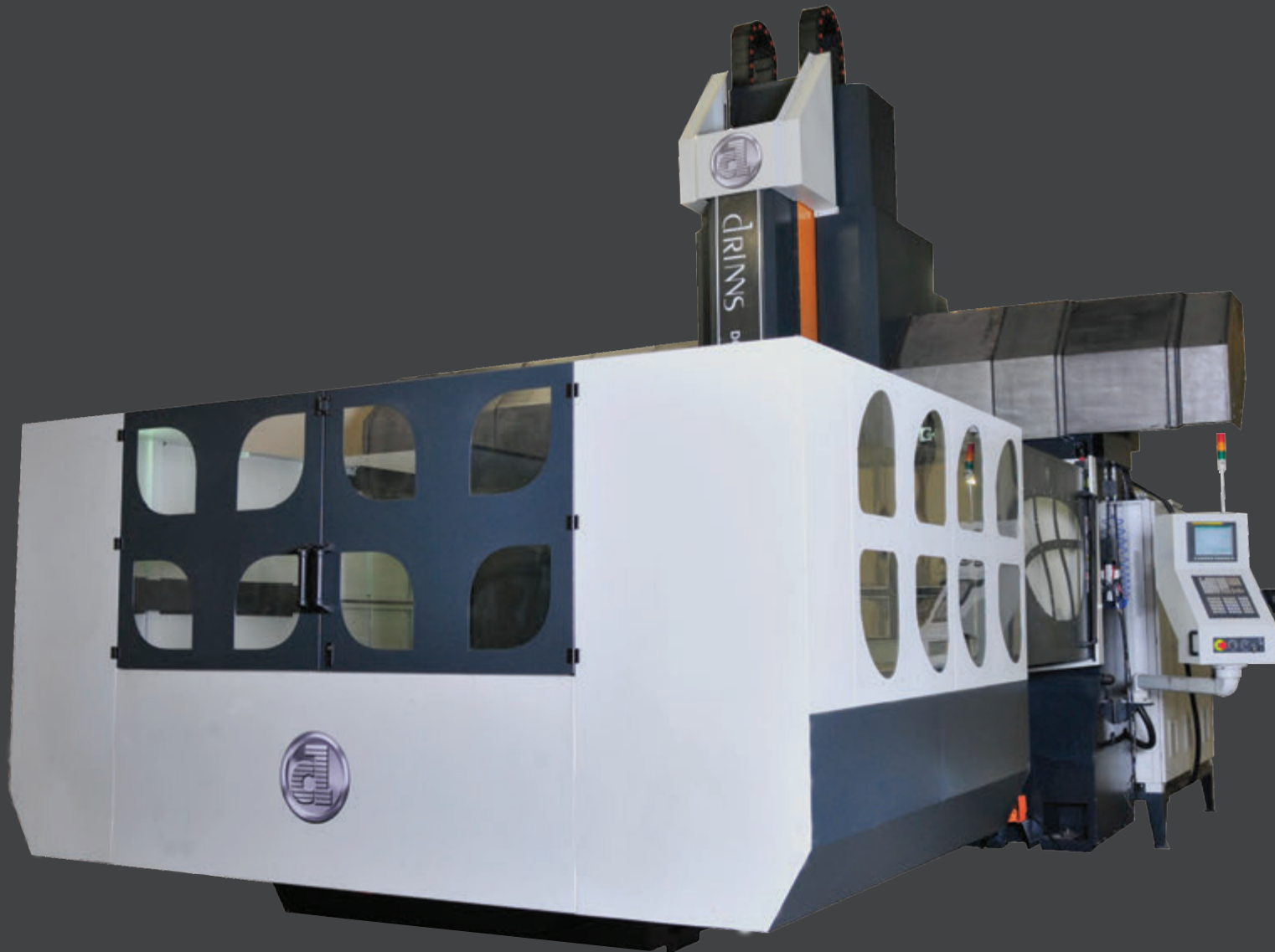
Manual 5 axis head

Tool measuring

Cooling Tool System (CTS)

Drinns DCNC Series CNC Double Column Milling Machine

CNC Double Column Milling Machine is special designed with quaternary slide system used on ram structure for high accurate parts desirable to prevent vibration including in particular mold industry.



- All functions open CNC controls.



- ARM type 24 ATC



Automotive

TECHNICAL SPECIFICATIONS

PROPERTIES	UNIT	DCNC PF 302507/5Y
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TABLE

Working Table	mm	3000x2000
Maximum Payload	kg	10000
T Slot - Dimension - Interval	mm	22/37 180
Machine Outer Dimension	mm	9000x5000x5000
ATC	piece	40

STROKES (Maximum)

X Axis	mm	3000
Y Axis	mm	2500
Z Axis	mm	700
C Axis	degree	2,5°
Distance Between Spindle and Table	mm	130-830

FEED RATE (Maximum)

X Axis	m/min	13
Y Axis	m/min	15
Z Axis	m/min	20
C Axis	d/min	20
Axis Motor Torques	Nm	70/70/50

SPINDLE

Spindle Motor Power	kW	28-33
Spindle Maximum Speed	d/min	3500
Spindle Taper		BT50

- Our machines are produced in special design, dimensions and accessories according to the customer requirements

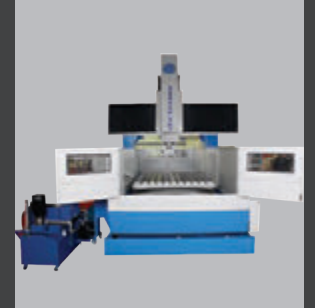
Drinns DCNC Series CNC Double Column 5 Surface Milling Machine

CNC Double Column 5 Surface Milling Machine is designed to cover movements of the surface in different lengths. Especially in the manufacturing sector, it is ideal for precision machine processing of a single operation bodies.



Drinns DCNC Series
CNC Double Column Milling Machine

Working with precision 3 Axis CNC Double Column Milling Machine is used for special applications in automotive and machinery industries.



- Two spiral type chip conveyor is placed aside and palette type chip conveyor placed to the end provide efficient chip evacuation.



- Rotary table head adjusted in steps of 1° , 2.5° , 5° degrees allows extremely precise machining operations on the work piece



- Coolant and guideway lubricant is totally separated. Special integrated design of the cutting coolant vessel prevents undesired decomposition of the liquid.

TECHNICAL SPECIFICATIONS

	PROPERTIES	UNIT	STANDARD	C AXIS
CAPACITY	Max. Swinging Diameter	mm	400	400
	Max. Machining Diameter	mm	340	250
	Max. Machining Length	mm	600	500
	Distance Between Tailstock And Spindle Points	mm	600	500
	Distance Between Tailstock And Chuck	mm	550	450
	Max. Weight On Chuck	Kg	105	105
	Max. Weight On Spindle Point	Kg	240	240
SPINDLE	Spindle Speed	d/min	4500	3500
	Spindle Hole Diameter	DIN	55026-6	55026-6
	Spindle End Norm	mm	52	52
	Hydraulic Chuck Diameter	inch	8"/10"	8"/10"
	Spindle Motor Power	kW	11/15	11/15
	Spindle Movement	Nm	145/96	145/96
TURRET	Number Of Tools	piece	8	12
	Tool Shank Dimension	mm	25x25	WDI 30
C AXIS	C Axis Motor Power	kW		3
	C Axis Motor Torque	Nm		20
	C Axis Spindle Speed	d/min		0 - 3000
TAIL STOCK	Across Tailstock Movement	mm	110	110
	Quill Diameter	mm	75	75
	Quill Taper	MK	5	5
	Tailstock Body Movement	mm	750	700
MOVEMENT AXIS	X Axis Movement	mm	185	185
	Z Axis Movement	mm	600	600
	X Axis Serial Movement	m/min	30	30
	Z Axis Serial Movement	m/min	30	30
	X Axis Motor Power And Torque	Nm	6/Siemens - 8/Fanuc	6/Siemens - 8/Fanuc
	Z Axis Motor Power And Torque	Nm	6/Siemens - 8/Fanuc	6/Siemens - 8/Fanuc
GENERAL MEASUREMENTS	Length Of Lathe	mm	3760	3760
	Width Of Lathe	mm	2300	2300
	Height Of Lathe	mm	2300	2300
	Weight Of Lathe	Kg	4500	4500

- Our machines are produced in special design, dimensions and accessories according to the customer requirements

STANDARD FEATURES

Siemens / Fanuc Control Unit
 8 Set Turret
 Linear Slide
 Chip Conveyor
 Alarm System For Programming End
 Conformity To The European Directives (CE Label)
 Programming Services And Personal Education
 Tool Holders (Lio Shing 3+3)

OPTIONAL FEATURES

Special Chucks By Request
 Tailstock Mk5
 Live Tool
 Tool Measuring Arm
 Work Piece Holding Arm

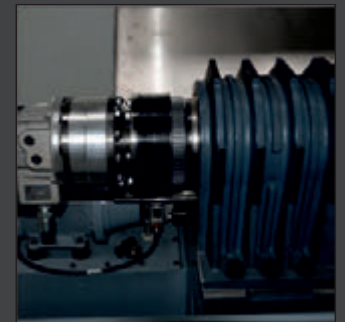
Medical

Drinns DCNC Series CNC Lathe

Our Company produces CNC Lathes since the year 2004 to supply real support in the production. Our CNC lathe wich is designed to work on part in single fixation for complex operations. The spindle mounted on the robust body has hydraulic group, chuck and 360 degree movable turret.



- 8" Chuck
- 4500 RPM high accuracy



- Accurate bearing system



- All functions open control system

Group Companies : www.dirinler.com.tr



**We Produce Machines
Producing Machines**

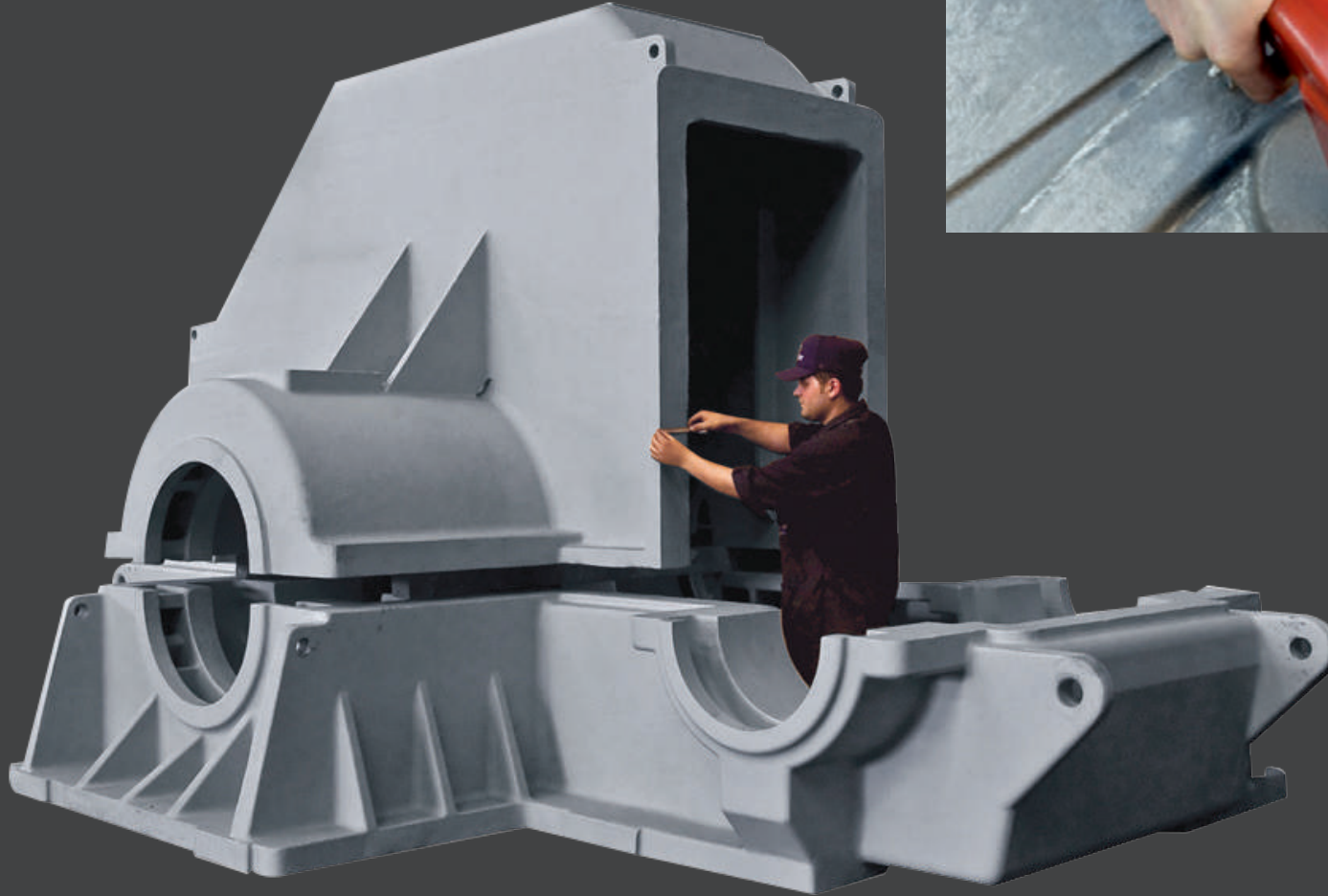


Group Companies : www.dirinlerdokum.com



dirinler

Döküm Sanayi ve Ticaret A.Ş.



Dirinler Foundry

Name of Quality Service
in Casting

Group Companies : WWW.lupamat.com



Air Compressors

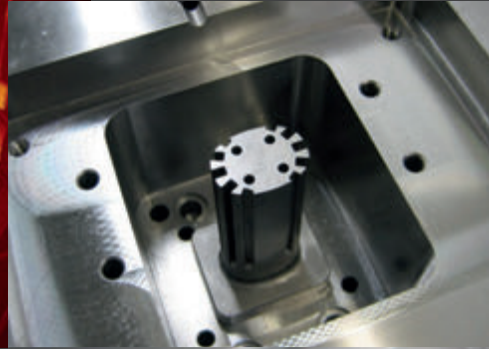


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