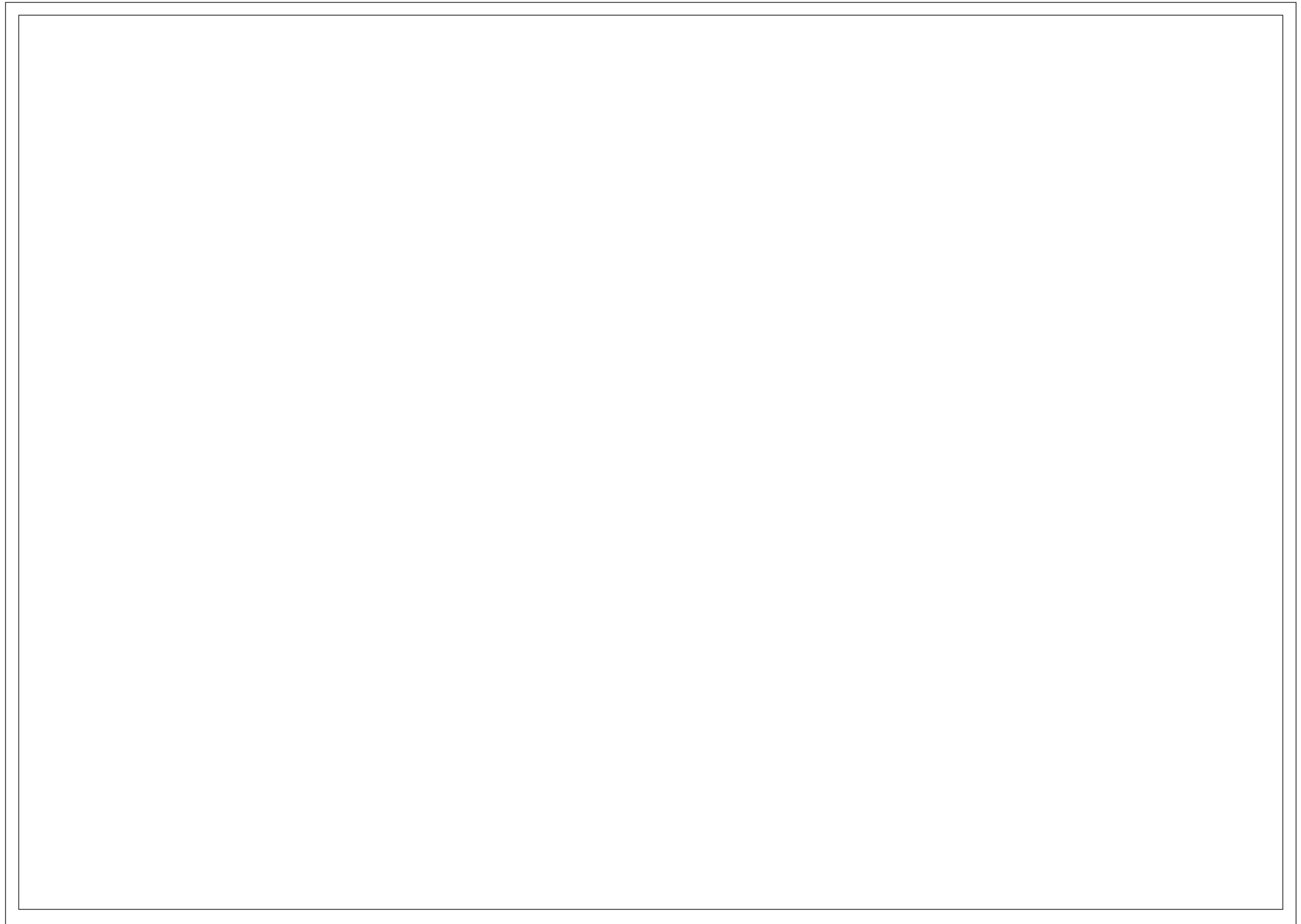




dirinler^{since 1952}
Our expertise comes from our experience...since 1952...





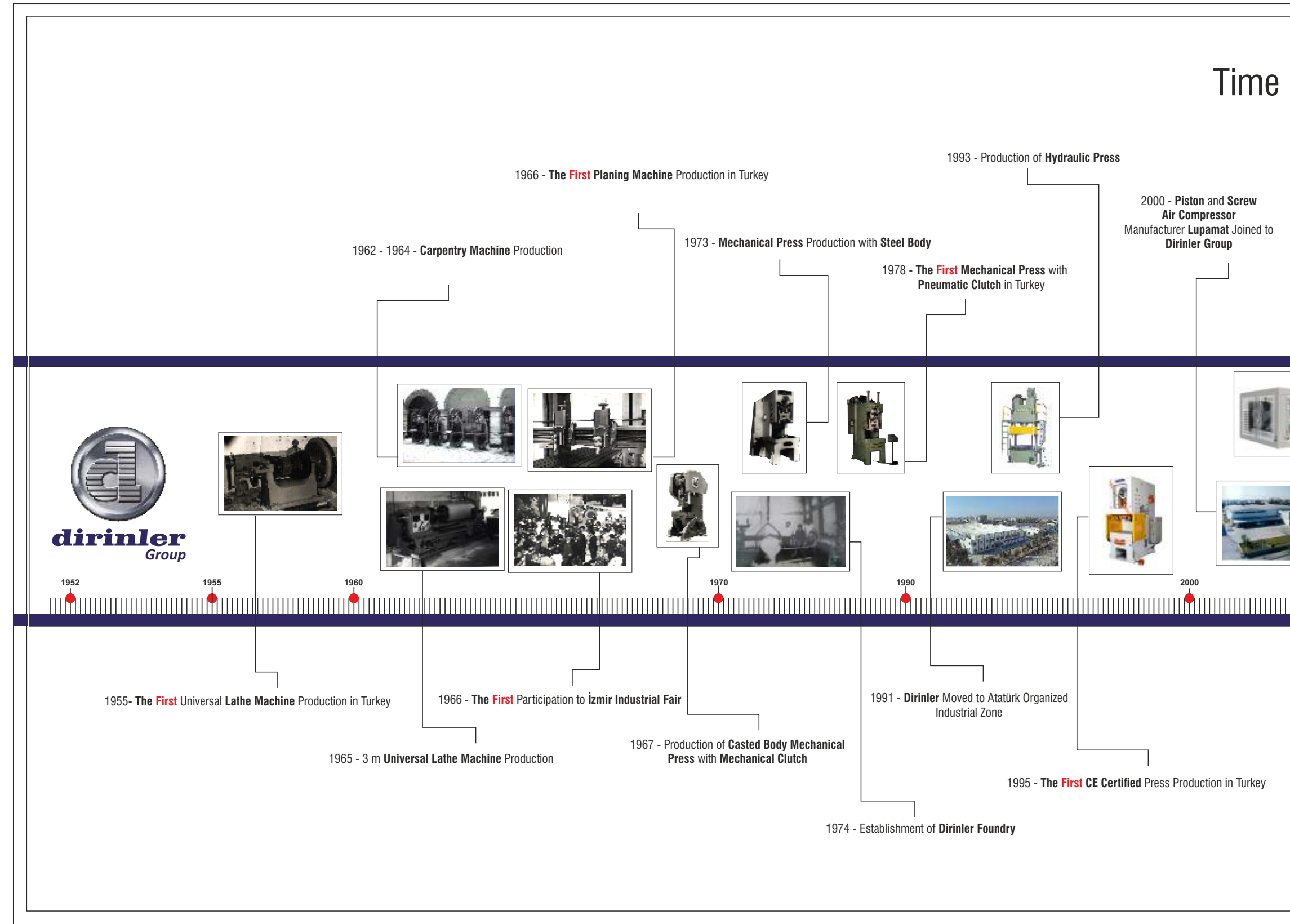


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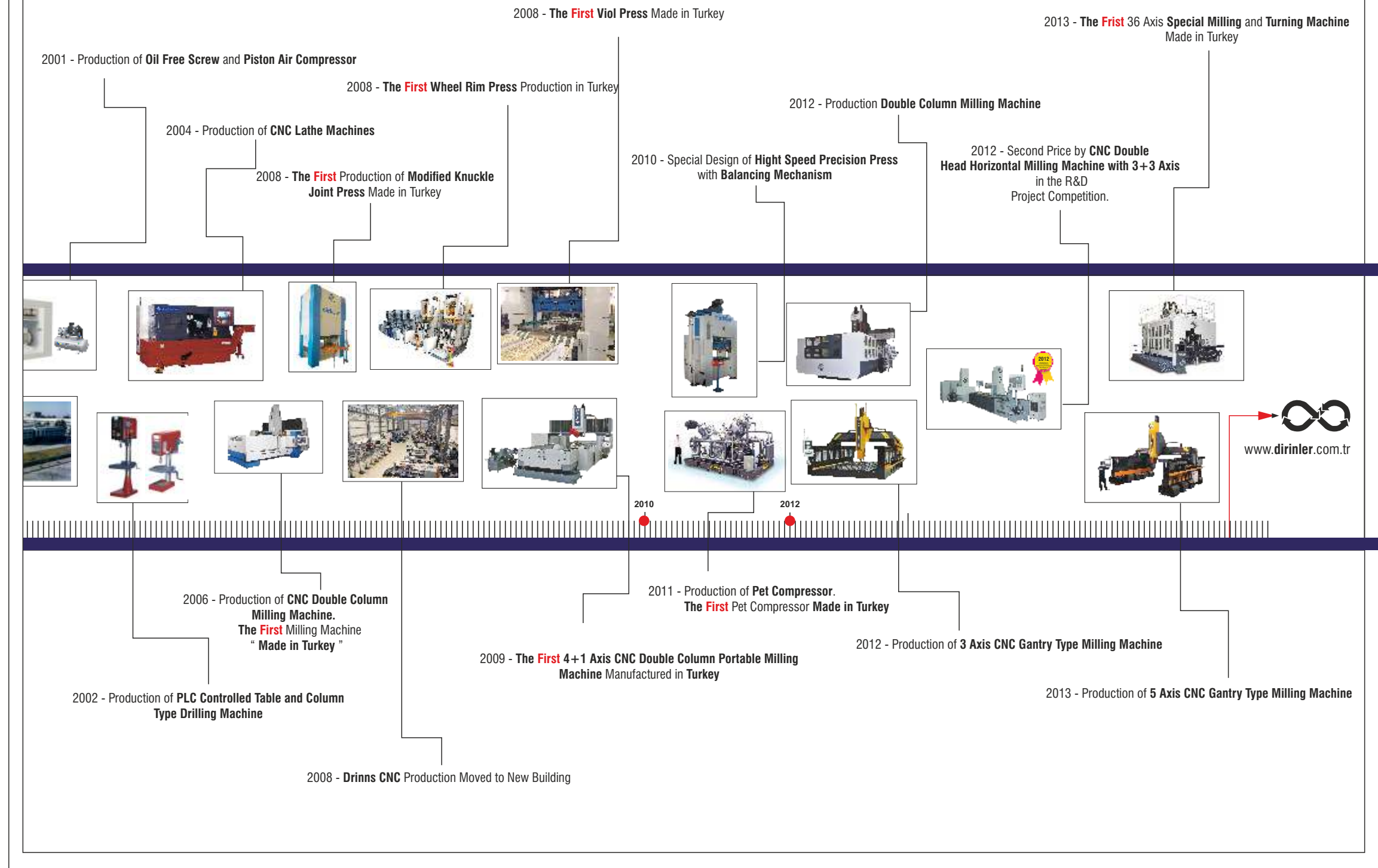
Our expertise comes from our experience...

since 1952...

Time



Tunnel





Dirinler

Dirinler Group



Group



DIRİNLER MAKİNA SANAYİ VE TİCARET A.Ş.

Dirinler Makina was founded in 1952, Dirinler Makine is making metal forming presses in various sizes and dimensions. Among our product range eccentric, knuckle joint, and hydraulic presses are available in C-Frame as well as H-frame construction. As a highly skilled manufacturer, Dirinler is performing rigorous production activities in its 12.000 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



DIRİNLER 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 for wind energy, ship building and heavy machinery industries, press molds for automotive industry, valves and pumps up to 3500 mm diameter with annual capacity of 12.000 tons in total 25.000 sqm area of which 16.000 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 6.000 sqm indoor, is producing reciprocating and screw air 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



DIRİNLER 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

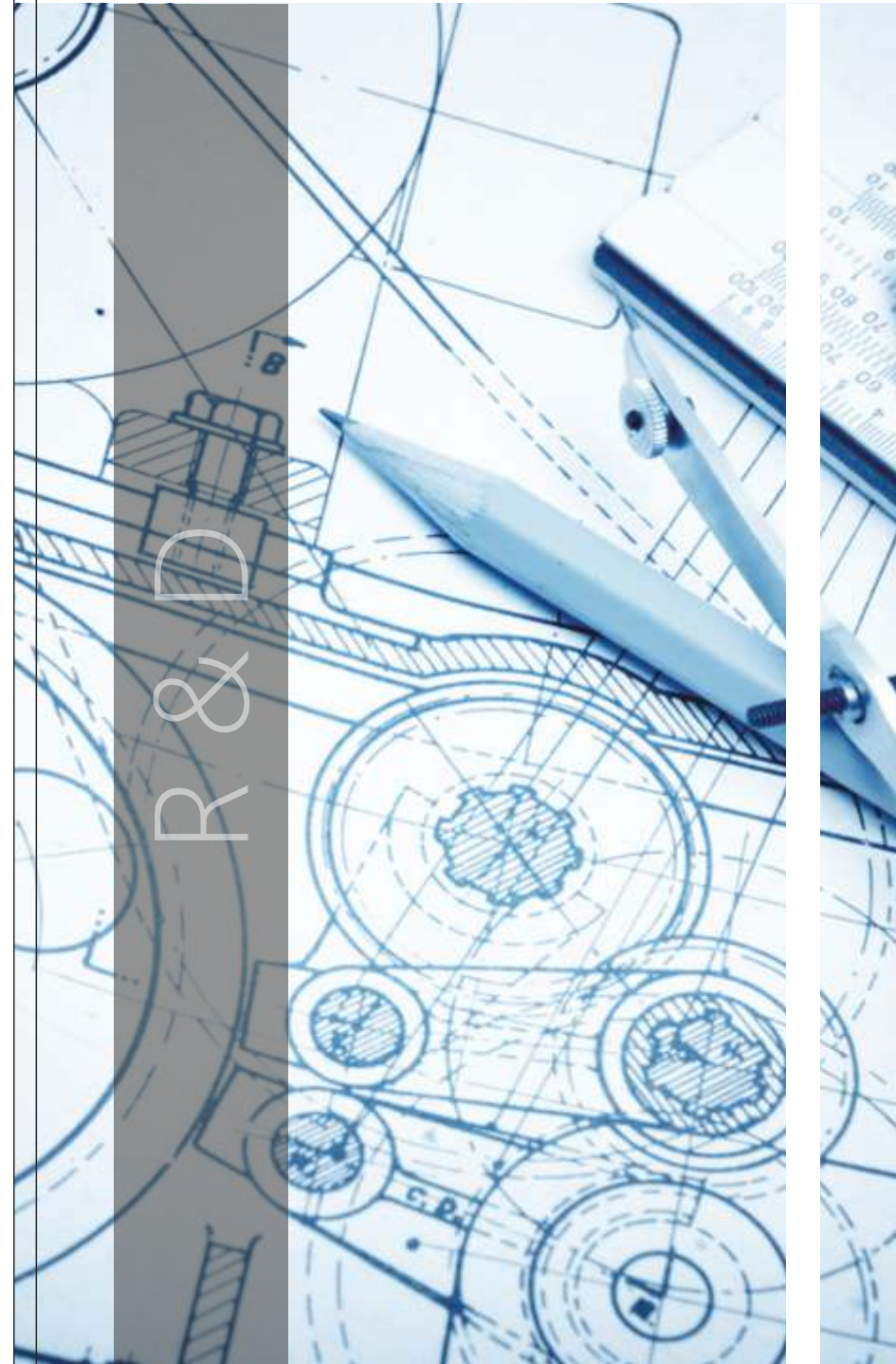


DIRİNLER TURİZM, LİMAN İŞLETMECİLİĞİ, SEYAHAT, İNŞAAT, AKARYAKIT SANAYİ ve TİCARET A.Ş.

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





Design

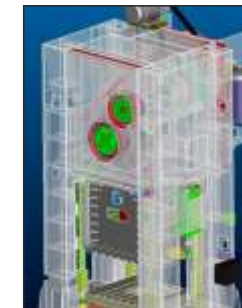
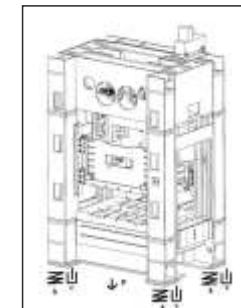
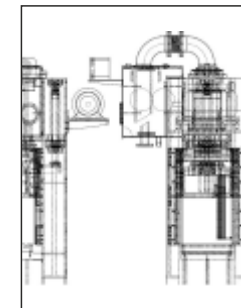
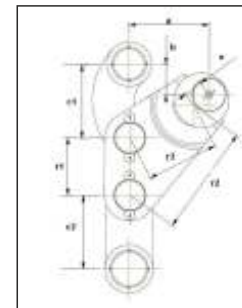
CAD Studies / Creo (Pro Engineer)

Analysis;

CAE / Finite Elements Analysis
Kinematic Dynamic Analysis

Special Programs

- Eccentric Press, Knuckle Joint Kinematic
- Dynamic Design Program
- Hydraulic Press Design Program
- 3 DOF Press Vibration Simulation Program
- Hydrodynamic Lubricated Bearing Design Program
- Gear Train Design Program





Production Process

We manufacture according to today's high-tech sheet metal processing technology.

- Quality certificated materials,
- High qualified welding workmanship,
- CNC plasma cutting and CNC oxygen cutting,
- Straightening operations,
- Welding operations with robots,
- High precision body flexing analysis

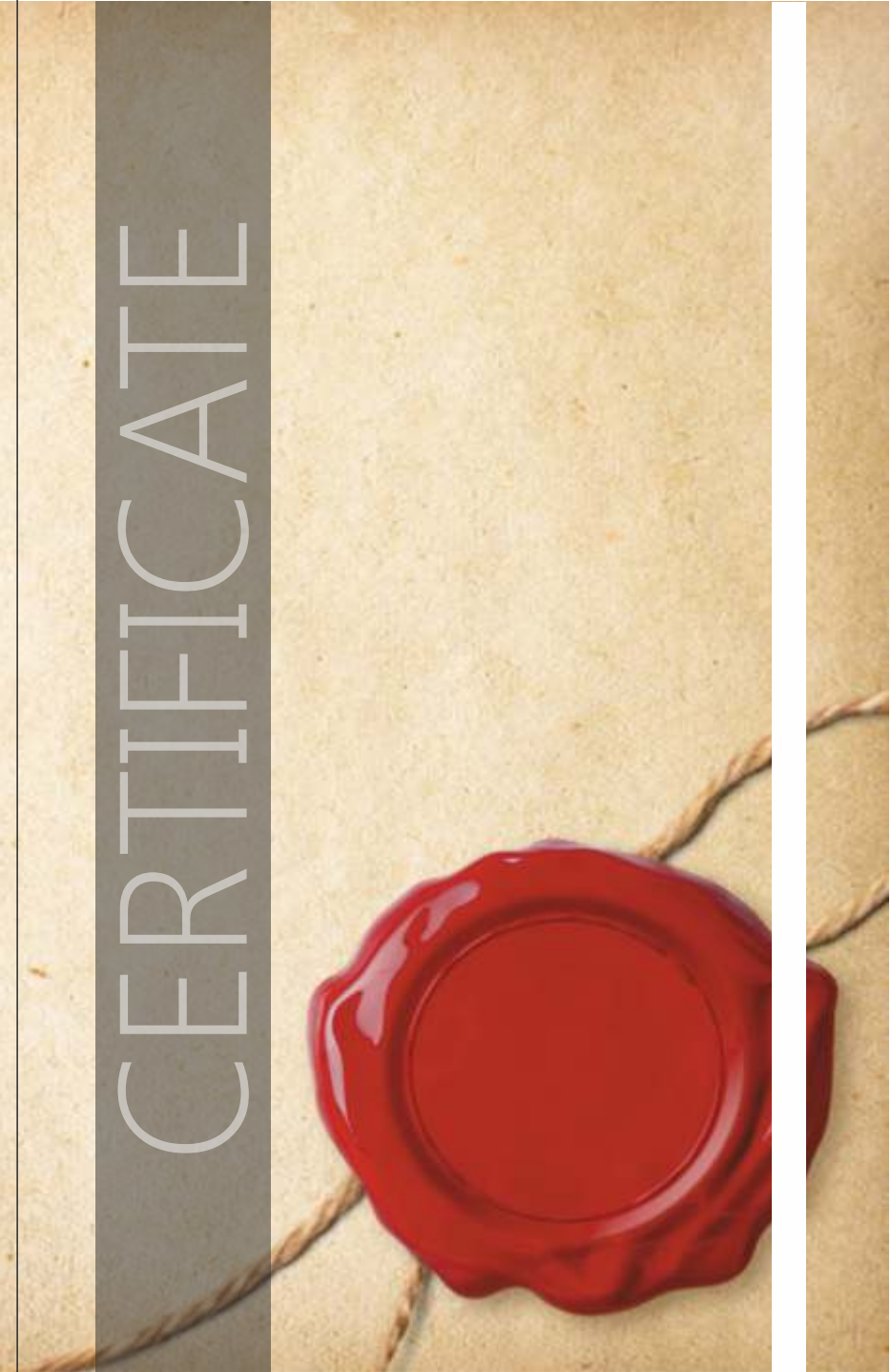
Stress Relieving by Vibration

Press bodies and components are subjected to stress relieving operations according to the method of stress relieving by vibration.



Quality

- High precision component and body control via 3D measuring devices,
- Dimensional control via CMM according to world standards,
- Parallelism control under load,
- Measurement and shear test,
- High precision body flexing analysis,
- Loadcell ITC capacity control.



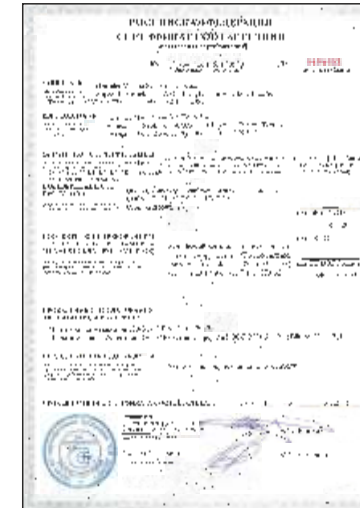
Certificates

Welding Operators' Certificates; 3834-2 Loyd Register 

All of our welding operators certified are according to EN287-1 standards.

Other Certificates;

All our machine models are CE certified.



ISO 9001:2008



SGS

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PRODUCTS





Back Sided
C Frame Eccentric Press (4 Guide Ram)



Back Sided
C Frame Eccentric Press (8 Guide Ram)



Back Sided
D Frame Lamination Press (8 Guide Ram)



C Frame Hydraulic Press



Single Connecting Rod
H Frame Eccentric Press



Double Connecting Rod
H Frame Eccentric Press



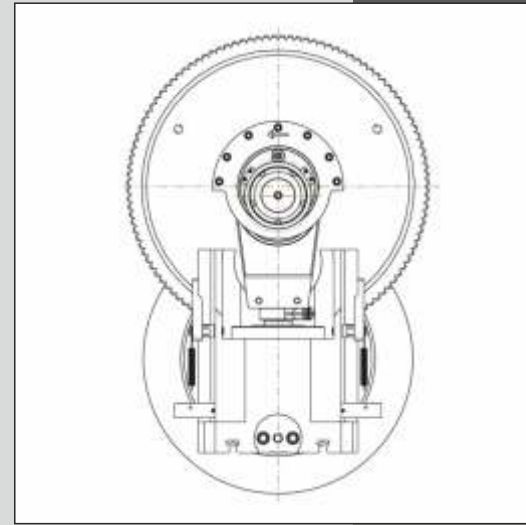
Modified Knuckle Joint Press



H Frame Hydraulic Press

CDCS P Series

Back Sided C Frame Eccentric Press (4 Guide Ram)



- Pneumatic clutch brake system
- Rigid body and ram
- User friendly ram adjustment
- V type 4 guide ram
- Helical, high quality gear system
- Spheroidal casting parts
- Mechanical or hydraulic overload safety system according to customer requests
- Automatic stroke adjustment for specified tonnages
- Ergonomic design
- Compliance with 2006-42 Machinery Directives



Technical Specifications

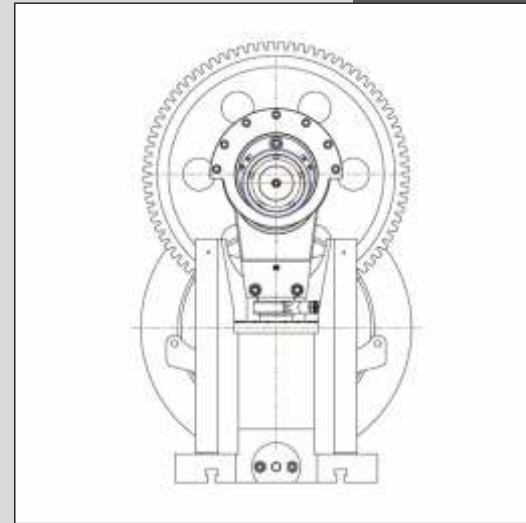
Properties	Unit	CDCS 1250 P	CDCS 1500 P
Capacity	tons	125	150
Rated tonnage point	mm	6	6
Max. shut die height	mm	450	500
Stroke distance	mm	5/110	5/110
Stroke per minute	spm	51	51
Die hole diameter	mm	50	50
Throat depth	mm	300	330
Manual slide adjustment	mm	90	95
Ram dimension	mm	500x350	500x350
Table dimension	mm	900x640	1000x700
Table hole diameter	mm	200	210
Press height (~)	mm	2575	2670
Press depth (~)	mm	2345	2450
Press width (~)	mm	1300	1360
Motor power	kW	11	11
Stroke system	-	Adjustable	Adjustable
Overload safety system	-	Mechanical	Mechanical
Centralized lubrication system	-	Automatic grease	Automatic grease
Safety guard system	-	Photocell	Photocell
Motorized slide adjustment	-	Optional	Optional
Speed control unit	-	Optional	Optional
Bolster plate	-	Optional	Optional

We reserve the rights to make changes in design and drawing. The accessories of the machines shown on the catalogue may vary depending on the type of requested machine.



CDCS P81 Series

Back Sided C Frame Eccentric Press (8 Guide Ram)



- Pneumatic clutch brake system
- Rigid body and ram
- User friendly ram adjustment
- 8 guide ram
- Helical, high quality gear system
- Spheroidal casting parts
- Mechanical or hydraulic overload safety system according to customer requests
- Automatic stroke adjustment for specified tonnages
- Automatic slide adjustment according to customer requests
- Ergonomic design
- Compliance with 2006-42 Machinery Directives



Technical Specifications

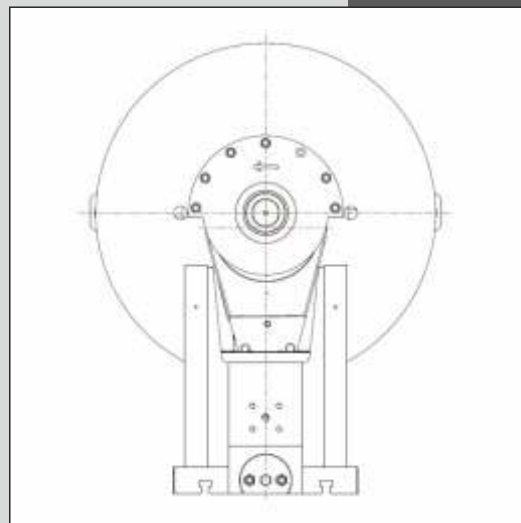
Properties	Unit	CDCS 401 P81	CDCS 630 P81	CDCS 800 P81	CDCS 1100 P81	CDCS 1300 P81	CDCS 1600 P81	CDCS 2000 P81	CDCS 2500 P81
Capacity	tons	40	63	80	110	130	160	200	250
Rated tonnage point	mm	4	4,5	4,5	5	6	6	6	6
Max. shut die height	mm	280	350	385	385	400	480	440	500
Stroke distance	mm	5/75	4/102	4/102	14/114	5/110	5/110	4/140	4/140
Stroke per minute	spm	150	54	54	60	60	60	50	50
Die hole diameter	mm	Ø40	50	50	50	65	65	65	65
Throat depth	mm	230	270	280	280	330	325	390	430
Manual slide adjustment	mm	65	90	90	90	90	95	100	100
Ram dimension	mm	420 x 275	490 x 325	490 x 325	490 x 325	630 x 400	630 x 400	950 x 600	950 x 600
Table dimension	mm	630 x 450	750 x 500	900 x 540	900 x 540	1000 x 640	1100 x 700	1200 x 740	1250 x 850
Table hole diameter	mm	Ø160	170	180	180	210	210	220	240
Press height (~)	mm	2100	2370	2410	2410	2525	2850	3350	3500
Press depth (~)	mm	1740	1850	2010	1700	2200	2235	2200	2400
Press width (~)	mm	1175	1100	1100	1100	1200	1250	1450	1500
Motor power	kW	4kW	7,5	7,5	7,5	11	15	15	18,5
Stroke system	-	Adjustable	Adjustable	Adjustable	Adjustable	Adjustable	Adjustable	Adjustable	Adjustable
Overload safety system	-	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Hydraulic	Hydraulic	Hydraulic
Centralized lubrication system	-	Manuel	Automatic Grease	Automatic Grease	Automatic Grease	Automatic Grease	Automatic liquid (re-cycled)	Automatic liquid (re-cycled)	Automatic liquid (re-cycled)
Safety guard system	-	Photocell	Photocell	Photocell	Photocell	Photocell	Photocell	Photocell	Photocell
Motorized slide adjustment	-	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional
Speed control unit	-	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional
Bolster plate	-	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional

We reserve the rights to make changes in design and drawing. The accessories of the machines shown on the catalogue may vary depending on the type of requested machine.



CDCS P81/L Series

Back Sided D Frame Lamination Press (8 Guide Ram)



- Pneumatic clutch brake system
- Rigid body and ram
- 8 guide ram
- Spheroidal casting parts
- Hydraulic overload safety system
- Automatic slide adjustment according to customer requests
- Ergonomic design
- Compliance with 2006-42 Machinery Directives



Technical Specifications

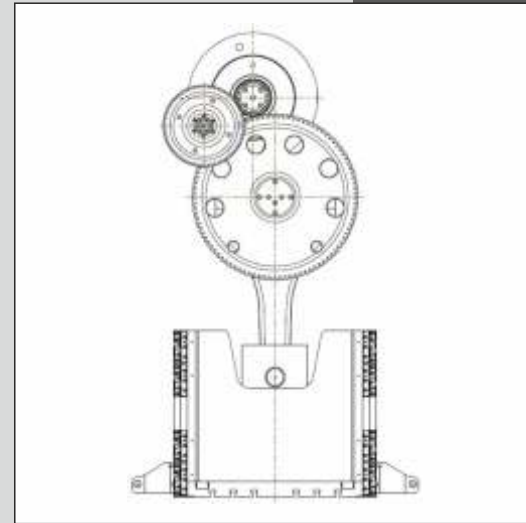
Properties	Unit	CDCS 251 P81/L	CDCS 401 P81/L	CDCS 601 P81/L	CDCS 801 P81/L	CDCS 1001 P81/L
Capacity	tons	25	40	60	80	100
Rated tonnage point	mm	2,5	2	2	2	2
Max. shut die height	mm	255	265	365	350	350
Stroke distance	mm	25	35	35	35	35
Stroke per minute	spm	100-290	150-300	100-270	100-270	100-270
Die hole diameter	mm	40	40	45	45	45
Throat depth	mm	245	240	270	255	255
Manual slide adjustment	mm	70	70	90	90	95
Ram dimension	mm	365 x 250	420 x 275	490 x 325	490 x 325	490 x 325
Table dimension	mm	560 x 400	630 x 450	750 x 500	860 x 540	860 x 540
Table hole diameter	mm	200	225	180	190	190
Press height (~)	mm	2050	2040	2270	2370	2370
Press depth (~)	mm	1855	1650	1920	2070	2070
Press width (~)	mm	915	1000	1100	1100	1100
Motor power	kW	4	5,5	7,5	11	15
Stroke system	-	Fixed	Fixed	Fixed	Fixed	Fixed
Overload safety system	-	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic
Centralized lubrication system	-	Automatic liquid (re-cycled)	Automatic liquid (re-cycled)	Automatic liquid (re-cycled)	Automatic liquid (re-cycled)	Automatic liquid (re-cycled)
Safety guard system	-	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical
Speed control unit	-	Standard	Standard	Standard	Standard	Standard
Bolster plate	-	Optional	Optional	Optional	Optional	Optional

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CDCH P Series

Single Connecting Rod H Frame Eccentric Press



- Rigid body and ram
- 8 guide ram
- Helical, high quality gear system
- Spheroidal casting parts
- Hydraulic overload safety system
- Quick die changing system according to customer requests
- PLC Control and Touch Screen
- Cushion system according to customer requests
- Automatic stroke adjustment according to customer requests
- Progressive die applications
- Transfer die applications
- Lubrication control via special sensors
- Slide adjustment with encoder
- Ergonomic design
- Compliance with 2006-42 Machinery Directives



Technical Specifications

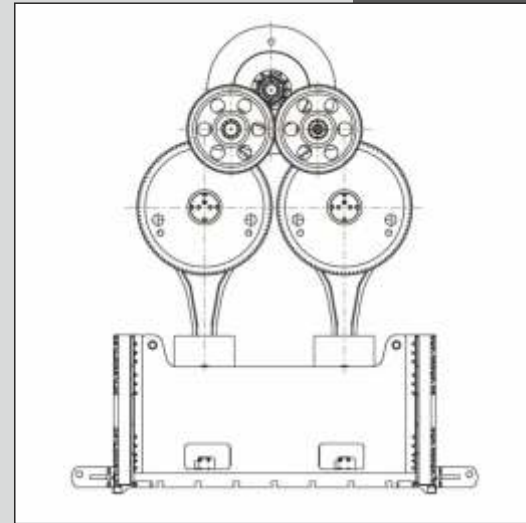
Properties	Unit	CDCH 1600 P	CDCH 2000 P	CDCH 3000 P	CDCH 4000 P
Capacity	tons	160	200	300	400
Rated tonnage point	mm	6	6	6	6
Max. shut die height	mm	450	500	500	500
Stroke distance	mm	180	180	180	180
Stroke per minute	spm	35	35	30	26
Motorized slide adjustment	mm	140	140	140	140
Table dimension	mm	1100x900	1200x1000	1200x1000	1200x1000
Number of connecting rod	pcs	1	1	1	1
Centralized lubrication system	-	Automatic liquid (re-cycled)	Automatic liquid (re-cycled)	Automatic liquid (re-cycled)	Automatic liquid (re-cycled)
Safety guard system	-	Photocell	Photocell	Photocell	Photocell
Process control system	-	Optional	Optional	Optional	Optional
Adjustable stroke system	-	Optional	Optional	Optional	Optional
Die changing system	-	Optional	Optional	Optional	Optional

We reserve the rights to make changes in design and drawing. The accessories of the machines shown on the catalogue may vary depending on the type of requested machine.



CDCH P 2B Series

Double Connecting Rod H Frame Eccentric Press



- Rigid body and ram
- 8 guide ram
- Helical, high quality gear system
- Spheroidal casting parts
- Hydraulic overload safety system
- Quick die changing system according to customer requests
- PLC Control and Touch Screen
- Cushion system according to customer requests
- Automatic stroke adjustment according to customer requests
- Progressive die applications
- Transfer die applications
- Lubrication control via special sensors
- Slide adjustment with encoder
- Ergonomic design
- Compliance with 2006-42 Machinery Directives



Technical Specifications

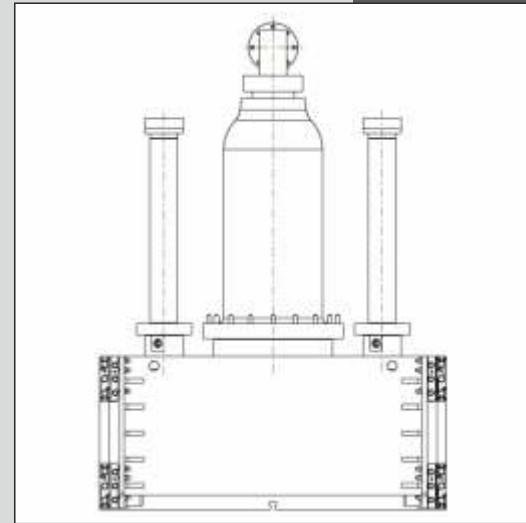
Properties	Unit	CDCH 1600 P 2B	CDCH 2000 P 2B	CDCH 3000 P 2B	CDCH 4000 P 2B	CDCH 5000 P 2B	CDCH 6300 P 2B	CDCH 8000 P 2B	CDCH 10000 P 2B
Capacity	tons	160	200	300	400	500	630	800	1000
Rated tonnage point	mm	6	6	6	7	7	7	7	7
Max. shut die height	mm	500	500	500	650	500	500	500	500
Stroke distance	mm	180	180	180	200	200	200	200	200
Stroke per minute	spm	26	26	26	26	26	26	26	26
Motorized slide adjustment	mm	140	140	140	200	140	140	140	140
Table dimension	mm	1800x1200	1800x1200	1800x1200	2200x1200	2200x1200	2200x1200	2500x1200	2500x1200
Number of connecting rod	pcs	2	2	2	2	2	2	2	2
Centralized lubrication system	-	Automatic liquid (re-cycled)	Automatic liquid (re-cycled)	Automatic liquid (re-cycled)	Automatic liquid (re-cycled)	Automatic liquid (re-cycled)	Automatic liquid (re-cycled)	Automatic liquid (re-cycled)	Automatic liquid (re-cycled)
Safety guard system	-	Photocell	Photocell	Photocell	Photocell	Photocell	Photocell	Photocell	Photocell
Process control system	-	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional
Die changing system		Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional

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CDHC Series

C Frame Hydraulic Press



- Rigid body and ram
- Cushion unit
- User friendly ram adjustment
- Main cylinder and cushion unit pressure adjustment
- Certified hydraulic power unit
- Ergonomic design
- Compliance with 2006-42 Machinery Directives



Technical Specifications

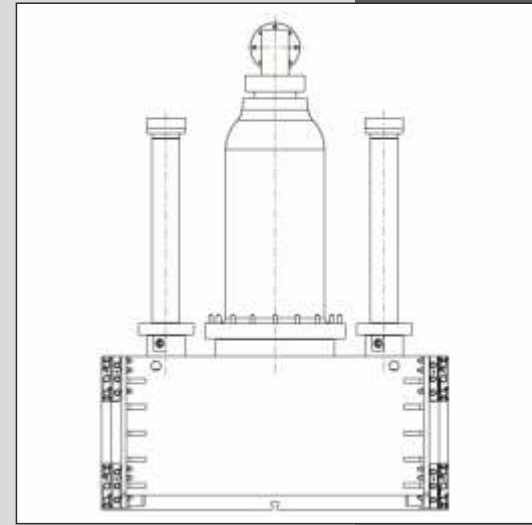
Properties	Unit	CDHC 630-400-250	CDHC 1000-400-400	CDHC 1600-400-630
Capacity	tons	63	100	160
Cushion capacity	tons	25	40	63
Stroke	mm	400	400	400
Cushion stroke	mm	150	150	150
Max. table ram distance	mm	630	685	765
Ram dimension	mm	750 x 570	850x630	1000x680
Table dimension	mm	750 x 625	850x640	1000x750
Rapid approach speed	mm/sec	300	250	250
Work speed	mm/sec	10-25	10-20	10-20
Press height (~)	mm	1150	1400	1460
Press depth (~)	mm	3170	3565	3900
Press width (~)	mm	1710	2030	2400
Motor power	kW	7,5	11	22
Centralized lubrication system	-	Automatic Grease	Automatic Grease	Automatic Grease
Safety guard system	-	Photocell	Photocell	Photocell
Cushion	-	Standard	Standard	Standard
Die changing system	-	Optional	Optional	Optional

We reserve the rights to make changes in design and drawing. The accessories of the machines shown on the catalogue may vary depending on the type of requested machine.



CDHH Series

H Frame Hydraulic Press



- Rigid body and ram
- User friendly ram adjustment
- Cushion unit
- Main cylinder and cushion unit pressure adjustment
- Certified hydraulic power unit
- Ergonomic design
- Compliance with 2006-42 Machinery Directives



Technical Specifications

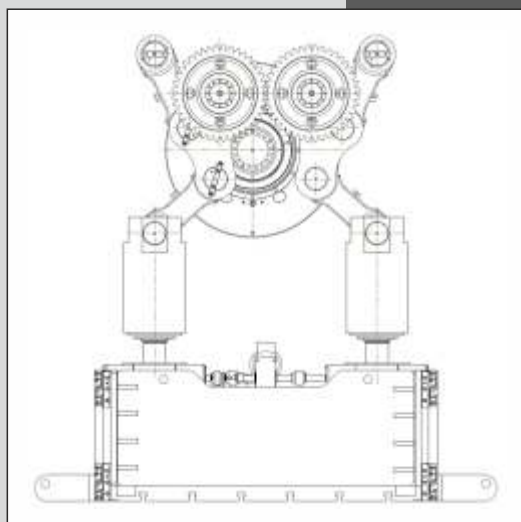
Properties	Unit	CDHH 2500-700-800	CDHH 3000-800-800	CDHH 4000-800-1250	CDHH 5000-900-1750
Capacity	tons	250	300	400	500
Cushion capacity	tons	80	80	125	175
Stroke	mm	700	800	800	900
Cushion stroke	mm	225	330	350	400
Max. table ram distance	mm	1140	1100	1500	1500
Table dimension	mm	1400x1100	1500x1200	1600x1300	1600x1300
Rapid approach speed	mm/sec	200	200	200	200
Work speed	mm/sec	10-20	10-20	10-20	10-20
Press height (~)	mm	2700	3050	4130	4130
Press depth (~)	mm	5250	5210	6500	6500
Press width (~)	mm	2150	1720	3000	3000
Centralized lubrication system	-	Automatic Grease	Automatic Grease	Automatic Grease	Automatic Grease
Safety guard system	-	Photocell	Photocell	Photocell	Photocell
Cushion unit	-	Standard	Standard	Standard	Standard
Die changing system	-	Optional	Optional	Optional	Optional

We reserve the rights to make changes in design and drawing. The accessories of the machines shown on the catalogue may vary depending on the type of requested machine.



CDCK PMU 2 Series

Modified Knuckle Joint Press



- Shock absorbing rigid body
- Compact, robust and extremely rigid structure
- Slowdown at lower dead center for better forming
- Longer die life
- Accelerated return speed
- Environment friendly with low impact noise and save energy
- High stroke rates even for complex formed parts
- Hydraulic overload safety system
- Slide adjustment system with encoder
- Special ram weight balancing system in accordance to press specifications
- Planet type clutch system
- Lubrication control via special sensors
- PLC control and Touch Screen
- Die memory
- Ergonomic design
- Compliance with 2006-42 Machinery Directives



Technical Specifications

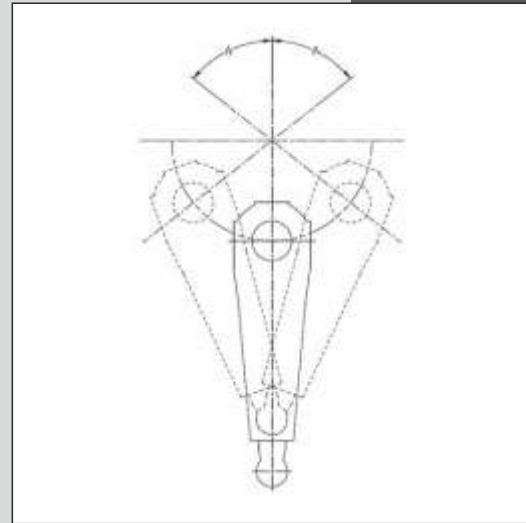
Properties	Unit	CDCK 2000 PMU 2	CDCK 3150 PMU 2	CDCK 4000 PMU 2	CDCK 5000 PMU 2	CDCK 6300 PMU 2	CDCK 8000 PMU 2
Capacity	tons	200	315	400	500	630	800
Rated tonnage point	mm	6	6	8	8	10	10
Working capacity	kj	16	19	32	40	75	96
Stroke distance	mm	160	160	250	250	250	250
Stroke per minute	spm	30-50	30-50	30-50	30-50	30-50	30-50
Max. shut die height	mm	400	600	750	750	700	700
Motorized slide adjustment	mm	150	150	150	150	200	200
Table dimension	mm	1500x1000	1800x1200	1800x1200	1800x1200	2500x1400	2500x1400
Press height(~)	mm	4900	5750	5850	6500	7500	8000
Centralized lubrication system	mm	Automatic liquid (re-cycled)	Automatic liquid (re-cycled)	Automatic liquid (re-cycled)	Automatic liquid (re-cycled)	Automatic liquid (re-cycled)	Automatic liquid (re-cycled)
Safety guard system	-	Photocell	Photocell	Photocell	Photocell	Photocell	Photocell
Process control system	-	Optional	Optional	Optional	Optional	Optional	Optional
Die changing system	-	Optional	Optional	Optional	Optional	Optional	Optional

We reserve the rights to make changes in design and drawing. The accessories of the machines shown on the catalogue may vary depending on the type of requested machine.



CDHS Series

Servo Press



- Working Like Eccentric Press
- Multi Point Work
- Pendulum Work
- Multi Point Pendulum Work
- Part Or Stroke Number Identification In 4 Different Mode
- Maximum 16 Programmable Cam System
- Die Adjustment Possibility By Hand Wheel
- Maximum 40 Kw Consumption With Advanced Energy Production
- Different Speed Adjustment Possibility Upto Maximum 10 Points In A Single Cycle Rate
- Forward-Backward Work in Symmetric Field adjusted at Bottom Death Center
- Speed Possibility Upto Maximum 10 Points At Pendulum Movement

OPSIONAL

- Die Protection System Against Over Load
- Tonnage Monitor System



Technical Specifications

Properties	Unit	Values
CAPACITY	(ton / tons / tonne)	150
TABLE RAM DISTANCE	(mm)	500
STROK LENGTH	(mm)	100
STROKE PER MINUTE	(vuruş/dk - spm)	100
RAM ADJUSTMENT	(mm)	100
TABLE DIMENSION	(mm)	1200x1000
HEIGHT	(mm)	3570
DEPTH	(mm)	2248
WIDTH	(mm)	2527
NUMBER OF CONNECTING ROD	(adet / piece / stück)	1
PRESS WEIGHT	(kg)	~ 19200
POWER SUPPLY	-	3A ~ / N / PE 380 V 50 Hz
SERVO MOTOR POWER	(kW)	270
SERVO MOTOR TORQUE	(Nm)	3300
GEAR RATIO	-	5,882

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Since 1952



GROUP COMPANIES

- DİRİNLER MAKİNE SANAYİ (Eccentric and Hydraulic Press)
- DİRİNLER SANAYİ MAKİNELERİ (CNC Machinery)
- LUPAMAT MAKİNE SANAYİ (Reciprocating and Screw Air Compressors)
- DİRİNLER DÖKÜM SANAYİ (Grey and Nodular Cast Iron Parts)
- DİRİNLER TURİZM (Marina Management and Port Operations)
- TEKENTEK MAKİNA MODEL SAN.TİC.LTD.ŞTİ. (Export and Import)



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