



dirinler^{since 1952}[®]

Our expertise comes from our experience...since 1952...



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Our expertise comes from our experience...

since 1952...



1952

1955

1960

1970

1990

2000

1955 - **First** Universal **Lathe** machine production

1965 - 3 m **Universal Lathe** machine production

1966 - **First** participation to **İzmir Industrial Fair**

1967 - Production of **PLC** controlled table and column type drilling machine

1966 - **First** **planing** machine production

1962 - 1964 - **Carpentry** machine production

1973 - **Mechanical press** production with **steel body**

1978 - **First** **mechanical press** with pneumatic clutch.

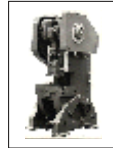
1993 - Production of **hydraulic press**

1991 - **Dirinler** moved to Atatürk Organized Industrial Zone

1995 - **First CE Certified** press production

1974 - Establishment of **Dirinler Foundry**

2000 - **Piston and screw air compressor** manufacturer **Maksas** joined to **Dirinler Group**



Tunnel

2001 - Production of **oil free screw and piston air compressor**

2004 - Production of **CNC lathe machines**

2008 - Production of **modified knuckle joint press**

2008 - **First wheel rim press** production

2008 - **First viol press** production

2010 - Special design of high speed precision **press** with balancing mechanism

2012 - Production **double column milling machine**

2012 - Second price by double milling head **3+3 axis CNC Horizontal milling machine** in the R&D Project competition.

2013 - 36 axis **special milling and turning machine**



2010

2012



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2002 - Production of **table type drilling machine controlled by PLC with column**

2006 - Production of **Double Column CNC Milling Machine.**
The **first** milling machine
" **Made in Turkey** "

2008 - **Drinns CNC** production moved to new building

2009 - The first **5 axis double column portable CNC milling machine** manufactured in Turkey

2011 - Production of **PET compressor** the **first** compressor **Made in Turkey**

2012 - Production of **gantry type CNC milling machine**



Dirinler Group





DİRİNLER MAKİNA SANAYİ VE TİCARET A.Ş.

Dirinler Makina 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 body 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



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 and screw air compressors under the brand of "Lupamat" and exports to many countries in the world especially to Europe and Middle East.

For more information please visit: www.lupamat.com



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 for wind energy, ship building, heavy machinery industries and 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 to Europe as rough or machined parts.

For more information please visit: www.dirinlerdokum.com



DİRİNLER SANAYİ MAKİNALARI ENDÜSTRİ VE TİCARET A.Ş.

Dirinler Sanayi Makinaları established in 1983 and located in two different facilities on an area of 5.000 sqm in total of which 2.000 sqm is indoor. The company produces CNC lathes, CNC Horizontal Milling Machines, Gantry type CNC Milling Machines, Double Column CNC Milling Machines and tailor made special multi axis milling and turning machines.

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



Design

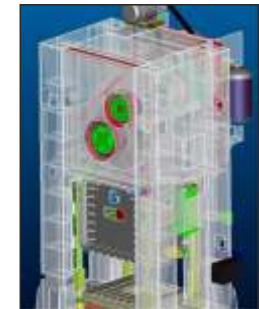
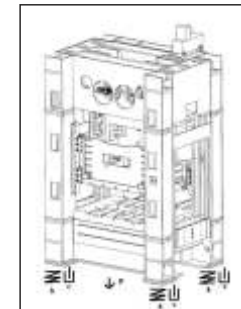
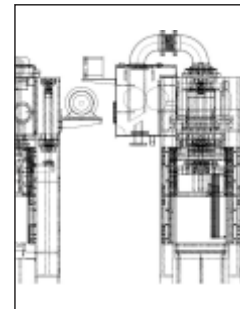
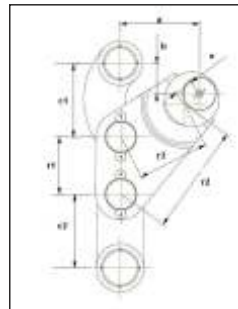
CAD Studies / Creo (Pro Engineer)

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.

CONSTRUCTION





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

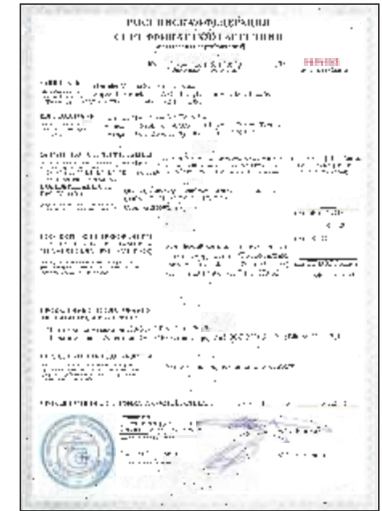
Welding Operators' Certificates; 3834-2 Loyd Register



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

Other Certificates;

All our machine models are CE certified.



ISO 9001:2008



CERTIFICATE



AFTER SALES SERVICE

We are always ready to serve you on



basis.

All around the world

www.dirinler.com.tr

PRODUCTS





Back Sided
C Frame Eccentric Presses (4 Guide Ram)



Back Sided
C Frame Eccentric Presses (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

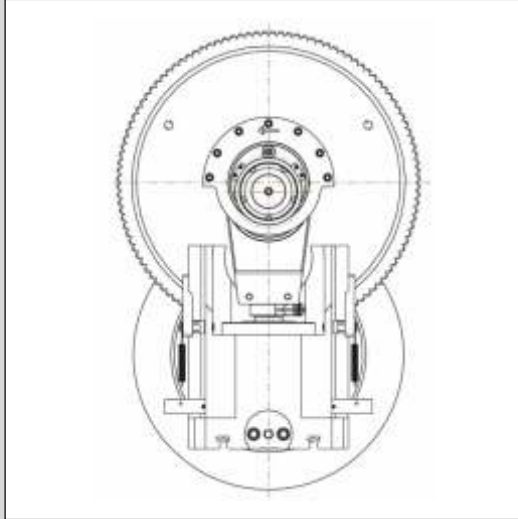


Modified Knuckle Joint Press



H Frame Hydraulic Press

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
- Sfero casting parts
- Hydraulic overload safety system according to customer requests
- Automatic stroke adjustment for specified tons
- Ergonomic design
- Compliance with 2006-42 machinery directives



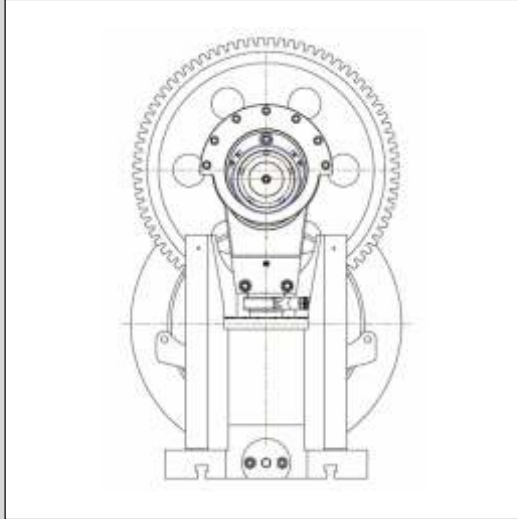
Technical Specifications

Properties	Unit	CDCS 600 P	CDCS 800 P	CDCS 1250 P	CDCS 1500 P
Capacity	tons	60	80	125	150
Rated tonnage point	mm	4,5	4,5	6	6
Max. shut die height	mm	360	390	450	500
Stroke distance	mm	4/102	4/102	5/110	5/110
Stroke per minute	spm	54	54	51	51
Die hole diameter	mm	45	45	50	50
Throat depth	mm	245	255	300	330
Slide adjustment	mm	90	90	90	95
Ram dimension	mm	460x300	460x300	500x350	500x350
Table dimension	mm	750x500	860x540	900x640	1000x700
Table hole diameter	mm	170	180	200	210
Press height (~)	mm	2290	2375	2575	2670
Press depth (~)	mm	1850	2010	2345	2450
Press width (~)	mm	1100	1100	1300	1360
Motor power	kW	7,5	7,5	11	11
Bolster plate	-	Optional	Optional	Optional	Optional
Stroke system	-	Adjustable	Adjustable	Adjustable	Adjustable
Overload safety system	-	Mechanical	Mechanical	Mechanical	Mechanical
Centralized lubrication system	-	Automatic grease	Automatic grease	Automatic grease	Automatic grease
Safety guard system	-	Photocell	Photocell	Photocell	Photocell
Slide adjustment	-	Manuel	Manuel	Manuel	Manuel
Speed control unit	-	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.



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
- Sfero casting parts
- Hydraulic or mechanical overload safety system according to customer requests
- Automatic stroke adjustment for specified tons according to customer requests
- Automatic slide adjustment according to customer requests
- Ergonomic design
- Compliance with 2006-42 machinery directives

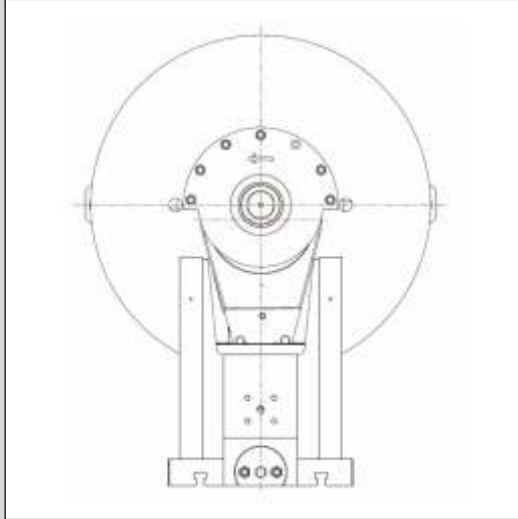


Technical Specifications

Properties	Unit	CDCS 630 P81	CDCS 800 P81	CDCS 1100 P81	CDCS 1300 P81	CDCS 1600 P81	CDCS 2000 P81	CDCS 2500 P81
Capacity	tons	63	80	110	130	160	200	250
Rated tonnage point	mm	4,5	4,5	5	6	6	6	6
Max. shut die height	mm	350	385	385	400	480	440	500
Stroke distance	mm	4/102	4/102	14/114	5/110	5/110	4/140	4/140
Stroke per minute	spm	54	54	60	60	60	50	50
Die hole diameter	mm	50	50	50	65	65	65	65
Throat depth	mm	270	280	280	330	325	390	430
Slide adjustment	mm	90	90	90	90	95	100	100
Ram dimension	mm	490 x 325	490 x 325	490 x 325	630 x 400	630 x 400	950 x 600	950 x 600
Table dimension	mm	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	170	180	180	210	210	220	240
Press height (~)	mm	2370	2410	2410	2525	2850	3350	3500
Press depth (~)	mm	1850	2010	1700	2200	2235	2200	2400
Press width (~)	mm	1100	1100	1100	1200	1250	1450	1500
Motor power	kW	7,5	7,5	7,5	11	15	15	18,5
Bolster plate	-	Optional	Optional	Optional	Optional	Optional	Optional	Optional
Stroke system	-	Adjustable	Adjustable	Adjustable	Adjustable	Adjustable	Adjustable	Adjustable
Overload safety system	-	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical
Centralized lubrication system	-	Automatic grease	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
Slide adjustment	-	Manuel	Manuel	Manuel	Manuel	Manuel	Manuel	Manuel
Speed control unit	-	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.

Back Sided D Frame Lamination Press (8 Guide Ram)



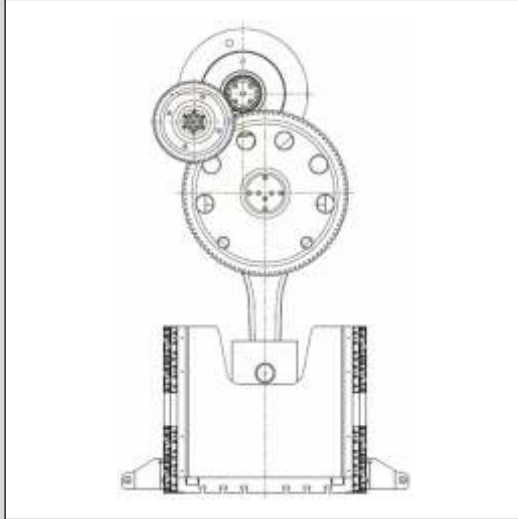
- Pneumatic clutch brake system
- Rigid body and ram
- 8 guide ram
- Sfero casting parts
- Hydraulic overload safety system
- Automatic slide adjustment according to customer requests
- Ergonomic design
- Compliance with 2006-42 machinery directives



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
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
Bolster plate	-	Optional	Optional	Optional	Optional	Optional
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
Slide adjustment	-	Manuel	Manuel	Manuel	Manuel	Manuel
Speed control unit	-	Standard	Standard	Standard	Standard	Standard

Single Connecting Rod H Frame Eccentric Press



- Rigid body and ram
- 8 guide ram
- Helical, high quality gear system
- Sfero casting parts
- Hydraulic overload safety system
- Quick die changing system according to customer requests
- PLC control and touch screen
- Cushion unit 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

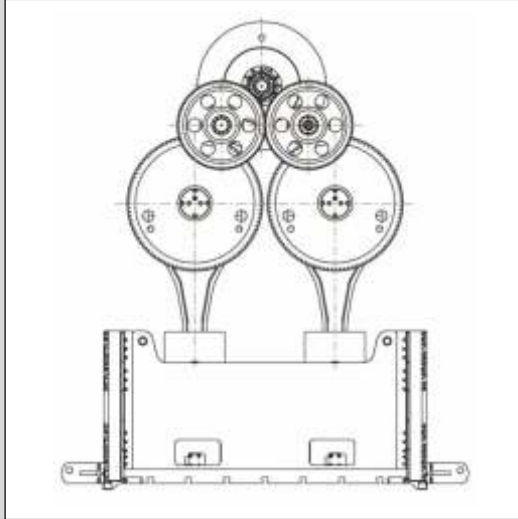


Technical Specifications

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
Slide adjustment	mm	140	140	140	140
Table dimension	mm	1100x900	1200x1000	1200x1000	1200x1000
Number of connecting rod	pcs	1	1	1	1
Stroke system	-	Optional	Optional	Optional	Optional
Die loading apparatus	-	Optional	Optional	Optional	Optional
Centralized lubrication system	-	Automatic grease	Automatic grease	Automatic grease	Automatic grease
Safety guard system	-	Photocell	Photocell	Photocell	Photocell
Process control system	-	Optional	Optional	Optional	Optional

CDCH P 2B Series

Double Connecting Rod H Frame Eccentric Press



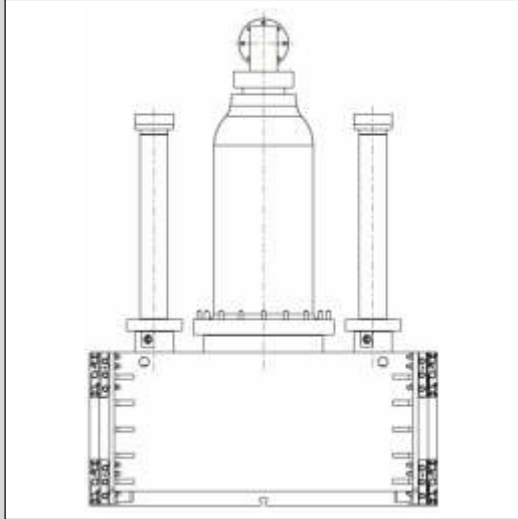
- Rigid body and ram
- 8 guide ram
- Helical, high quality gear system
- Sfero casting parts
- Hydraulic overload safety system
- Quick die changing system according to customer requests
- PLC Control and touch screen
- Cushion unit system according to customer requests
- Automatic stroke adjustment 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
Slide adjustment	mm	140	140	140	200	140	140	140	140
Table dimension	mm	1800x1200	1800x1200	1800x1200	2200x1200	2500x1200	2500x1200	2200x1200	2200x1200
Number of connecting rod	pcs	2	2	2	2	2	2	2	2
Die loading apparatus	-	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional
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

C Frame Hydraulic Press



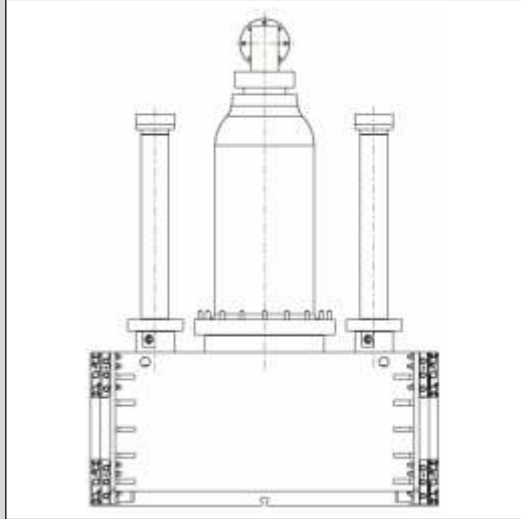
- Rigid body and ram
- Cushion unit
- User friendly ram adjustment
- Main cylinder and cushion unit pressure adjustment
- Certified hydraulic power unit
- Ergonomic design
- Compliance with 2006-42 machinery directives



Technical Specifications

Properties	Unit	CDHC 630-400-250	CDHC 1000-400-400	CDHC 1600-400-630
Capacity	tons	63	100	160
Cushion unit capacity	tons	25	40	63
Stroke	mm	400	400	400
Cushion unit stroke	mm	150	150	150
Table dimension	mm	750 x 625	850x640	1000x750
Max. table ram distance	mm	630	685	765
Ram dimension	mm	750 x 570	850x630	1000x680
Rapid approach speed	sc	300	250	250
Work speed	sc	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
Die loading apparatus	-	Optional	Optional	Optional
Centralized lubrication system	-	Automatic Grease	Motorlu Otomatik Gres	Motorlu Otomatik Gres
Safety guard system	-	Photocell	Photocell	Photocell
Cushion unit	-	Standard	Standard	Standard

H Frame Hydraulic Press



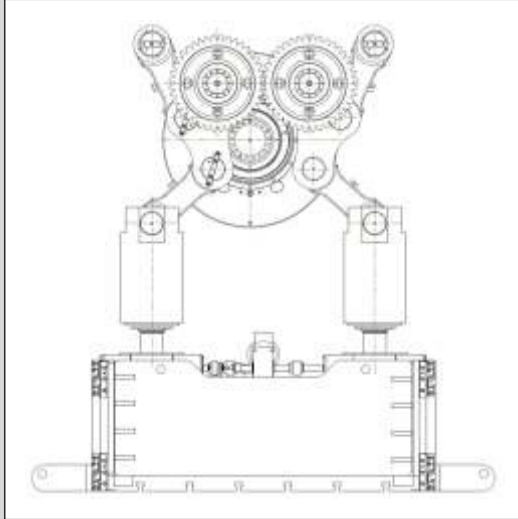
- Rigid body and ram
- User friendly ram adjustment
- Cushion unit
- Main cylinder and cushion unit pressure adjustment
- Certified hydraulic power unit
- Ergonomic design
- Compliance with 2006-42 machinery directives



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 unit capacity	tons	80	80	1250	175
Stroke	mm	700	800	800	900
Cushion unit stroke	mm	225	330	350	400
Table dimension	mm	1400x1100	1500x1200	1600x1300	1600x1300
Max. table ram distance	mm	1140	1100	1500	1500
Rapid approach speed	sc	200	200	200	200
Work speed	sc	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
Die loading apparatus	-	Optional	Optional	Optional	Optional
Centralized lubrication system	-	Automatic Grease	Automatic Grease	Automatic Grease	Automatic Grease
Safety guard system	-	Photocell	Photocell	Photocell	Photocell
Cushion unit	-	Standard	Standard	Standard	Standard

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 guard
- 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	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
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)
Die loading apparatus	-	Optional	Optional	Optional	Optional	Optional	Optional
Safety guard system	-	Photocell	Photocell	Photocell	Photocell	Photocell	Photocell
Process control system	-	Optional	Optional	Optional	Optional	Optional	Optional

DIRİMLER USERS



Mercedes-Benz



TOYOTA



BOSCH



ABB



 **GÜNEŞPAN**

 **RENKLER
MAKİNA**

 **BORUSAN**

 **samer**

mobilyaya hayat verir

 **AKA OTOMOTİV**

PAKKENS®

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Titreşim Elemanları Sanayi ve Ticaret A.Ş.

 **KALMAKSAN**

SKP Makina
Kalıp

METALSAN
ENDÜSTRİYEL ORON SAN VE TİC.LTD.ŞTİ

 **ESALBA**

 **Ege Fren**
ArvinMeritor

fabio®
Air Springs

 **MGI COUTIER**

 **MIKROPOR**
AIR, GAS & LIQUID PURIFICATION

 **SOMÇELİK**



Kale Havacılık
 **Pratt & Whitney**
A United Technologies Company

 **HTS METAL**
KALIP OTOMOTİV YAN SANAYİ

 **akp otomotiv**
San. Tic. Ltd. Şti.

 **YPS OTOMOTİV**
your preferred supplier

 **mastaş**
panel radyatör

 **SOYLU KALIP®**
OTOMOTİV YEDEK PARÇA SANAYİ

PRESSMECH
progressive

 **PMS**
alüminyum

 **ormetal**

 **matay**

 **TANATAR**



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)



Made in Turkey

www.dirinler.com.tr

dirinler[®] since 1952

Dirinler Makina Sanayi A.Ş.

A.O.S.B. 10036 Sokak No:7 35620 Çiğli - İZMİR/TÜRKİYE

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