



**dirinler**<sup>®</sup> since 1952

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



(((•))) dirinSmart 4.0





[www.dirinler.com.tr](http://www.dirinler.com.tr)

**since 1952...**

**Our expertise comes from our experience...**



1952

1955

1960

1970

1990

2000

1955 - **The First Universal Lathe Machine** Production in Turkey

1965 - 3 m **Universal Lathe Machine** Production

1966 - **The First** Participation to **İzmir Industrial Fair**

1967 - Production of **Casted Body Mechanical Press** with **Mechanical Clutch**

1974 - Establishment of **Dirinler Foundry**

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

1995 - **The First CE Certified Press** Production in Turkey

1962 - 1964 - **Carpentry Machine** Production

1966 - **The First Planing Machine** Production in Turkey

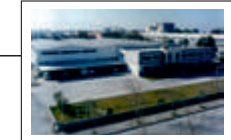
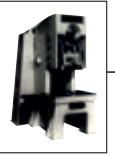
1973 - **Mechanical Press** Production with **Steel Body**

1978 - **The First Mechanical Press** with **Pneumatic Clutch** in Turkey

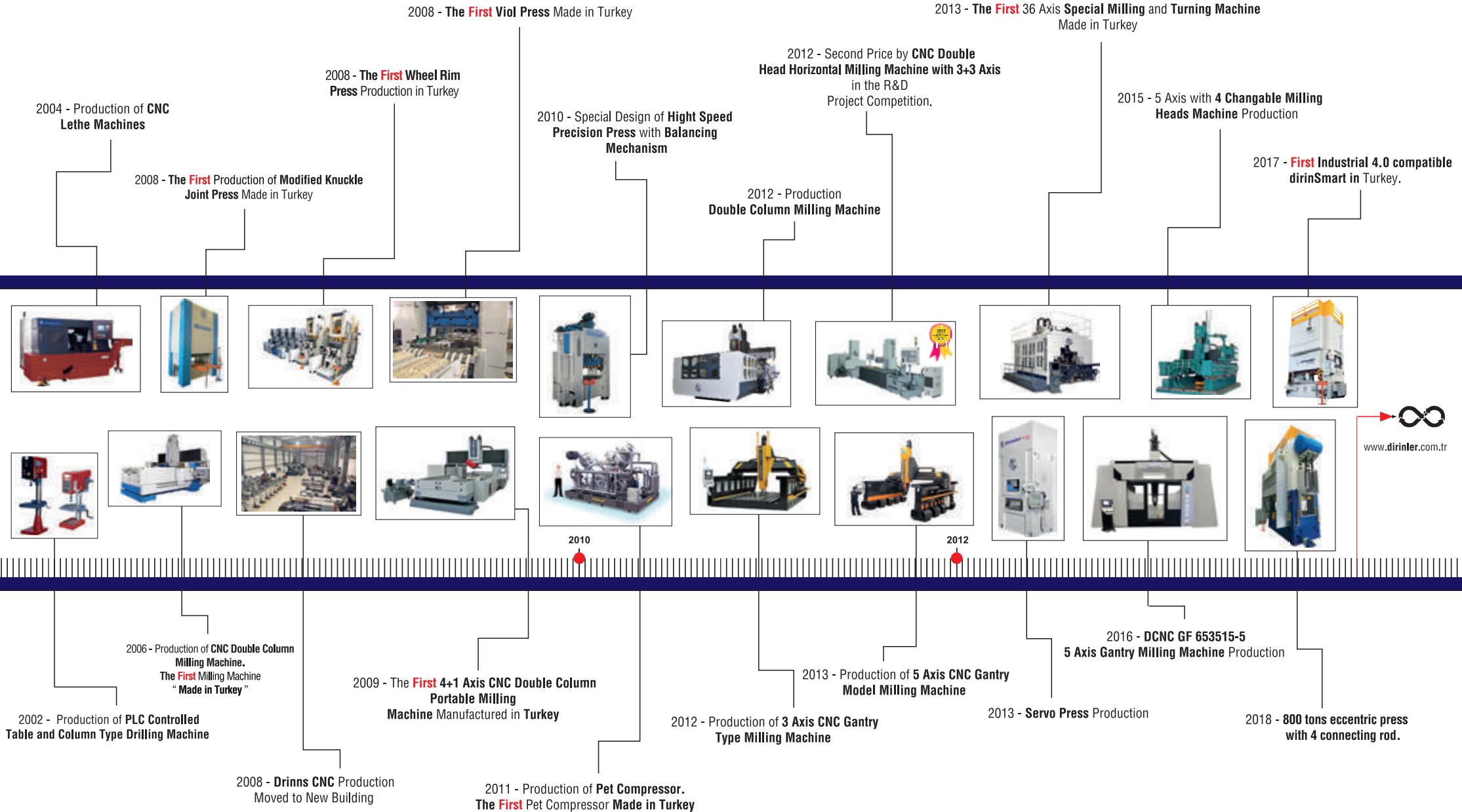
1993 - Production of **Hydraulic Press**

2000 - **Piston and Screw Air Compressor** Manufacturer **Lupamat** Joined to **Dirinler Group**

2001 - Production of **Oil Free Screw and Piston Air Compressor**



# Tunnel





# Dirinler

## Dirinler Group



# Group



## DİRİLER 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](http://www.dirinler.com.tr)



## DİRİLER 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](http://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](http://www.lupamat.com)



## DİRİLER 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](http://www.drinns.com.tr)

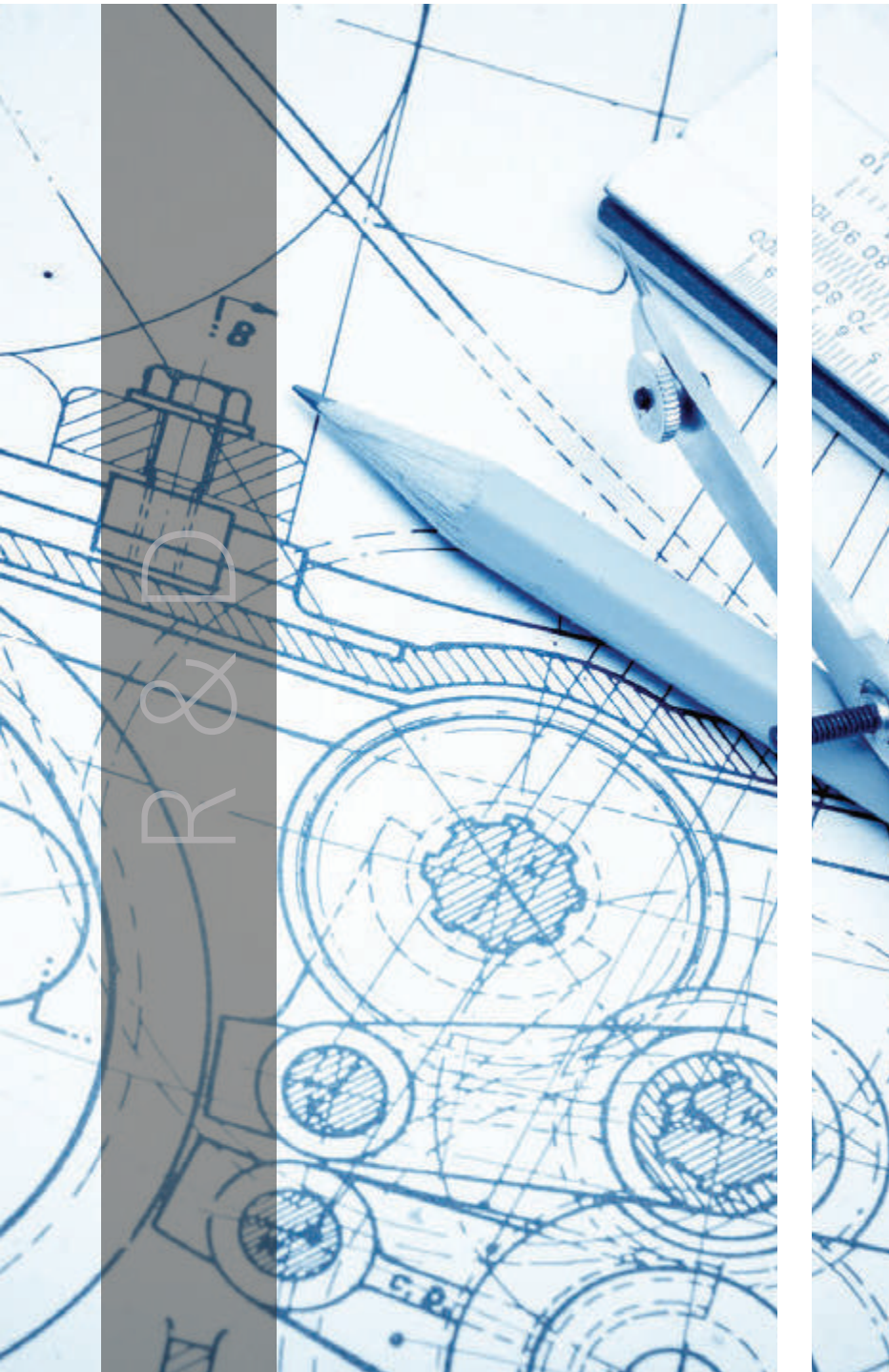


## DİRİLER TURİZM, LİMAN İŞLETMECİLİĞİ, SEYAHAT, İNŞAAT, AKARYAKIT SANAYİ VE TİCARET A.Ş.

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](http://www.leventmarina.com.tr)





## Design

CAD Studies / Creo (Pro Engineer)

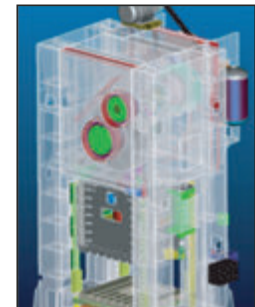
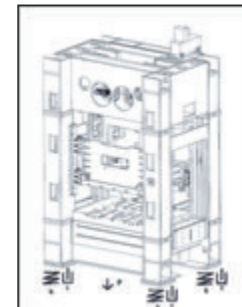
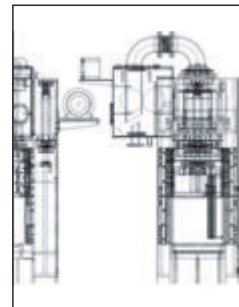
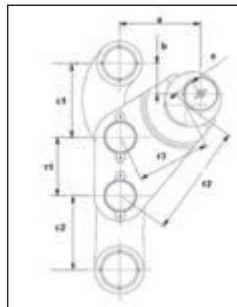
## Analysis;

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;

All our machines are “CE” certified.



ISO 9001:2015

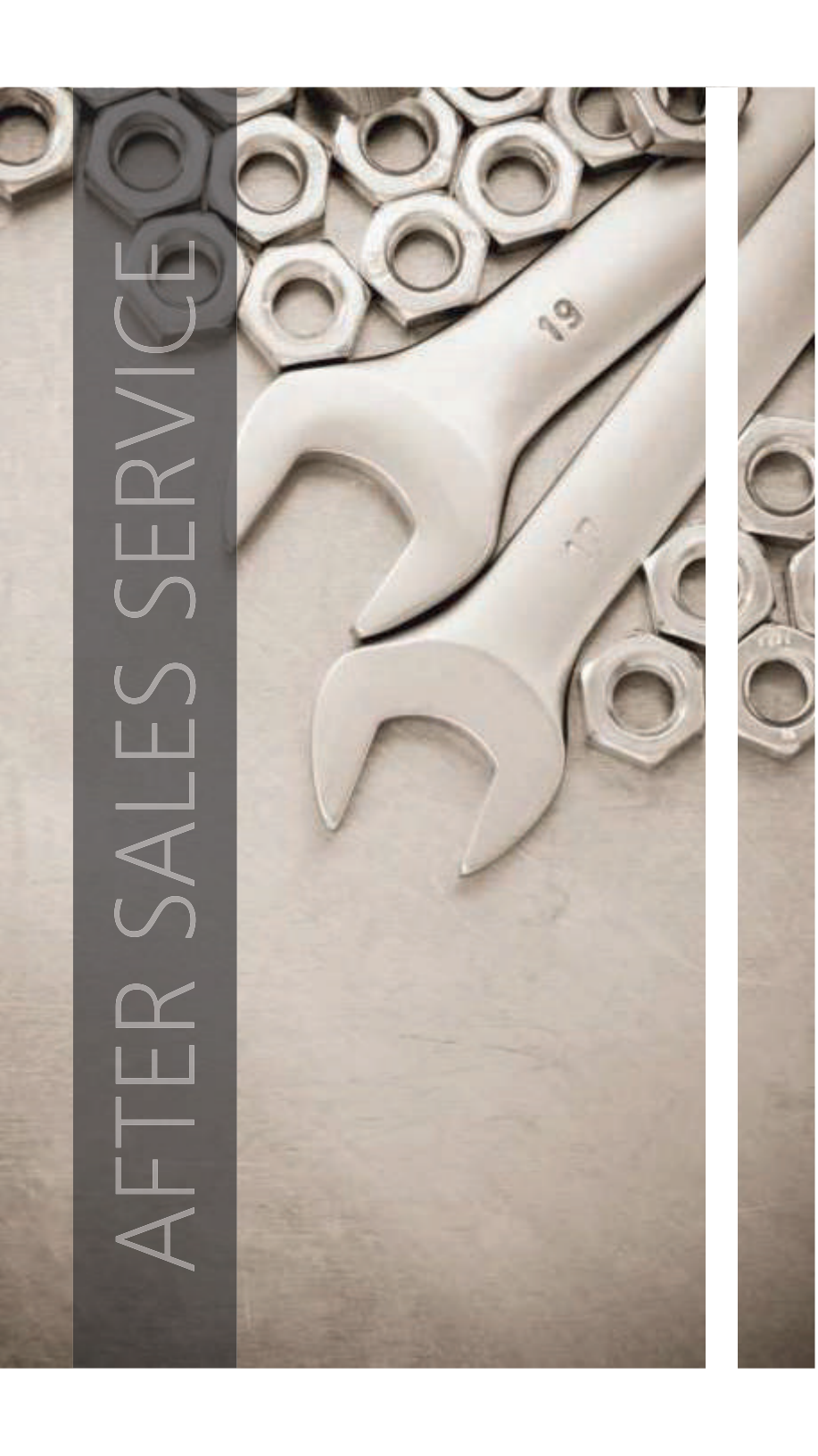


SGS



TURQUM®  
TURKISH QUALITY OF MACHINERY





AFTER SALES SERVICE

We are always ready to serve you on



basis.

All around the world

- We established  **dirinler**<sup>GmbH</sup> to be closer to our customers in Europe and to bring our R & D projects together with German engineering.
- We produced  **dirinSmart 4.0** with Industry 4.0 technology which can detect its own fault.
- We have increased our capacity up to 3000 tons.
- Our company which has the only R & D center in the sector supported by the Ministry of Science, Industry and Technology of Turkey will continue to be the Pioneer of innovations as **dirinler**

PRODUCTS





**C-type Eccentric Press**



**D-type Lamination Press**



**C-type Hydraulic Press**



**H-type Eccentric Press (Single Connecting Rod)**



**H-type Eccentric Press (Double Connecting Rod)**



**Knuckle Joint Form Press**

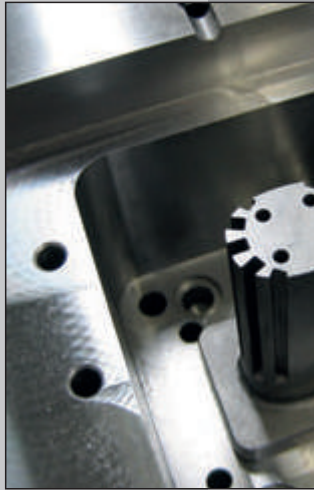
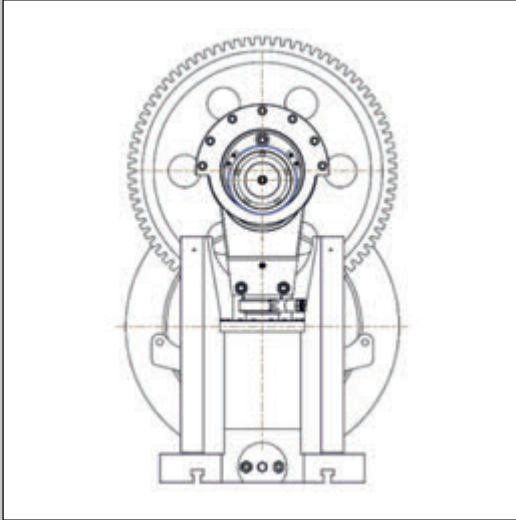


**H-type Hydraulic Press**



**Servo Press**

## 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



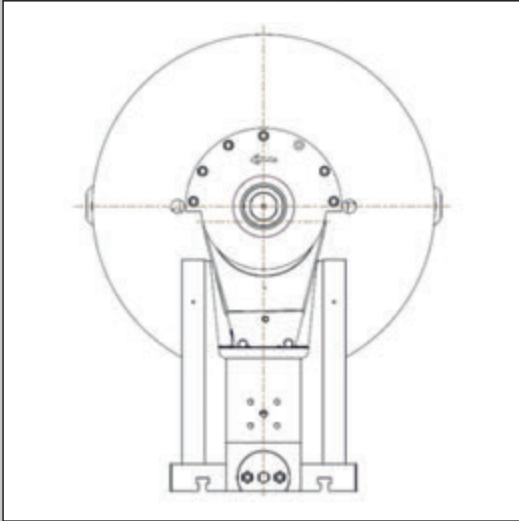
# Technical Specifications

| Properties                     | Unit | CDCS 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               | 385               | 480                        | 440                        | 500                        |
| Stroke distance                | mm   | 4/102             | 4/102             | 14/114            | 5/110             | 15 /110                    | 24/140                     | 24 /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 (manual)       | 90 (manual)       | 90 (manual)       | 90 (manual)       | 95 (motorized)             | 100 (motorized)            | 100 (motorized)            |
| 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                        |
| Table height from the ground   | mm   | 765               | 750               | 790               | 780               | 810                        | 820                        | 825                        |
| Estimated press weight (~)     | kg   | 4100              | 5400              | 5600              | 8200              | 9950                       | 14900                      | 16800                      |
| Estimated Press height (~)     | mm   | 2750              | 2750              | 2800              | 3000              | 3200                       | 3435                       | 3550                       |
| Estimated Press depth (~)      | mm   | 1800              | 2010              | 1870              | 2200              | 2400                       | 2350                       | 2400                       |
| Estimated Press width (~)      | mm   | 1150              | 1390              | 1320              | 1372              | 1430                       | 1700                       | 1707                       |
| Motor power                    | kW   | 7,5               | 7,5               | 7,5               | 11                | 15                         | 15                         | 18,5                       |
| Stroke system                  | -    | Manuel Adjustable | Manuel Adjustable | Manuel Adjustable | Manuel Adjustable | Semi-Automatic             | Semi-Automatic             | Semi-Automatic             |
| Overload safety system         | -    | Mechanical        | Mechanical        | Mechanical        | Mechanical        | Hydraulic                  | Hydraulic                  | Hydraulic                  |
| Centralized lubrication system | -    | Automatic Grease  | Automatic Grease  | Automatic Grease  | Automatic Grease  | Re-cycled automatic liquid | Re-cycled automatic liquid | Re-cycled automatic liquid |
| Clutch brake system            | -    | Pneumatic         | Pneumatic         | Pneumatic         | Pneumatic         | Pneumatic                  | Pneumatic                  | Pneumatic                  |
| Safety guard system            | -    | Photo-cell        | Photo-cell        | Photo-cell        | Photo-cell        | Photo-cell                 | Photo-cell                 | Photo-cell                 |
| Vibration pads                 | -    | Standard          | Standard          | Standard          | Standard          | Standard                   | Standard                   | Standard                   |
| Speed control unit             | -    | Optional          | Optional          | Optional          | Optional          | Optional                   | Optional                   | Optional                   |
| Additional plate               | -    | 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
- Spheroidal casting parts
- Hydraulic overload safety system
- Automatic slide adjustment according to customer requests
- Ergonomic design
- Compliance with 2006-42 Machinery Directives

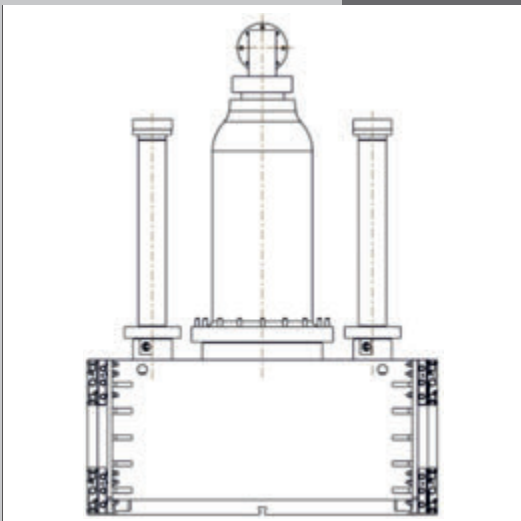


# Technical Specifications

| Properties                     | Unit | CDCS 601 P81/L             | CDCS 801 P81/L             | CDCS 1001 P81/L            |
|--------------------------------|------|----------------------------|----------------------------|----------------------------|
| Capacity                       | tons | 60                         | 80                         | 100                        |
| Rated tonnage height           | mm   | 2                          | 2                          | 4                          |
| Max closed die set height      | mm   | 365                        | 350                        | 350                        |
| Stroke distance                | mm   | 35                         | 35                         | 35                         |
| Press speed                    | spm  | 100-270                    | 100-270                    | 100-270                    |
| Die hole diameter              | mm   | 45                         | 45                         | 50                         |
| Throat depth                   | mm   | 270                        | 255                        | 305                        |
| Ram adjustment                 | mm   | 90 (motorized)             | 90 (manual)                | 95 (manual)                |
| Ram dimension                  | mm   | 490 x 325                  | 490 x 325                  | 490 x 325                  |
| Table dimension                | mm   | 750 x 500                  | 860 x 540                  | 860 x 540                  |
| Table hole diameter            | mm   | 180                        | 190                        | 190                        |
| Table height from the ground   | mm   | 770                        | 810                        | 800                        |
| Estimated press weight (~)     | kg   | 4700                       | 5400                       | 6000                       |
| Estimated press height (~)     | mm   | 2270                       | 2370                       | 2416                       |
| Estimated press depth (~)      | mm   | 1920                       | 2070                       | 2070                       |
| Estimated press width (~)      | mm   | 1100                       | 1100                       | 1210                       |
| Motor power                    | kW   | 7,5                        | 11                         | 15                         |
| Stroke system                  | -    | Fixed                      | Fixed                      | Fixed                      |
| Overload safety system         | -    | Hydraulic                  | Hydraulic                  | Hydraulic                  |
| Centralized lubrication system | -    | Re-cycled automatic liquid | Re-cycled automatic liquid | Re-cycled automatic liquid |
| Clutch brake system            | -    | Pneumatic                  | Pneumatic                  | Pneumatic                  |
| Die area safety system         | -    | Mechanical                 | Mechanical                 | Mechanical                 |
| Vibration pads                 | -    | Standard                   | Standard                   | Standard                   |
| Speed control unit             | -    | Standard                   | Standard                   | Standard                   |
| Additional plate               | -    | Optional                   | Optional                   | Optional                   |

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## C Frame Hydraulic Press



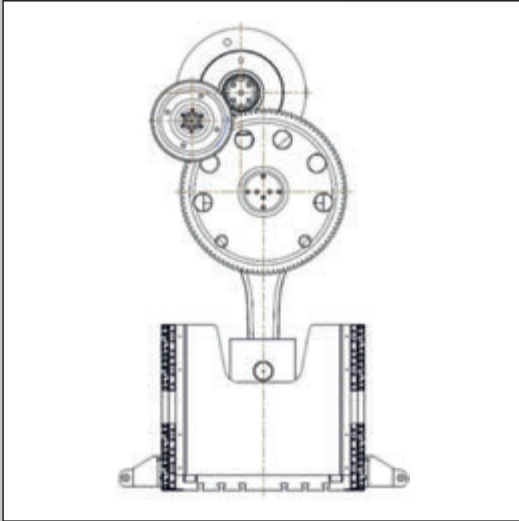
- Rigid body and ram
- Cushion unit
- User friendly ram adjustment
- Main cylinder and cushion unit pressure adjustment
- Certified hydraulic power unit
- Ergonomic design
- Compliance with 2006-42 Machinery Directives



## Technical Specifications

| Properties                          | Unit | CDHC 630-400-250 | CDHC 1000-400-400 | CDHC 1600-400-630 | CDHC 2000-400-630 |
|-------------------------------------|------|------------------|-------------------|-------------------|-------------------|
| Capacity                            | tons | 63               | 100               | 160               | 200               |
| Cushion capacity                    | tons | 25               | 40                | 63                | 63                |
| Stroke distance                     | mm   | 400              | 400               | 400               | 400               |
| Cushion stroke distance             | mm   | 150              | 150               | 150               | 150               |
| Table dimension                     | mm   | 750x615          | 850x640           | 1000x740          | 1090x855          |
| Ram dimension                       | mm   | 750x570          | 850x630           | 1000x680          | 1100x760          |
| Max. distance between table and ram | mm   | 630              | 685               | 765               | 785               |
| Working speed                       | mm/s | 10-25            | 10-20             | 10-20             | 16                |
| Rapid approach speed                | mm/s | 300              | 250               | 250               | 200               |
| Estimated press weight (~)          | kg   | 4900             | 7700              | 10500             | 14000             |
| Estimated press height (~)          | mm   | 3170             | 3565              | 3900              | 3910              |
| Estimated press depth (~)           | mm   | 1710             | 2030              | 2400              | 2510              |
| Estimated press width (~)           | mm   | 1150             | 1150              | 1525              | 1525              |
| Motor power                         | kW   | 7,5              | 11                | 22                | 30                |
| Centralized lubrication system      | -    | Automatic grease | Automatic grease  | Automatic grease  | Automatic grease  |
| Die area safety system              | -    | Photo-cell       | Photo-cell        | Photo-cell        | Photo-cell        |
| Additional plate                    | -    | Optional         | Optional          | Optional          | Optional          |

## 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

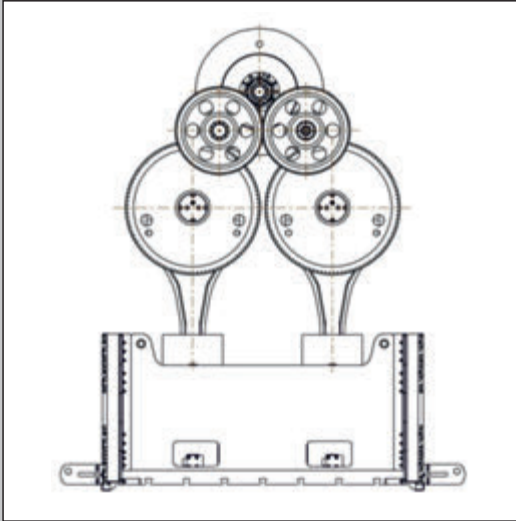


# Technical Specifications

| Properties                     | Unit  | CDCH 600 P       | CDCH 800 P       | CDCH 1100 P      | CDCH 2500 P      | CDCH 3000 P      |
|--------------------------------|-------|------------------|------------------|------------------|------------------|------------------|
| Capacity                       | tons  | 60               | 80               | 110              | 250              | 300              |
| Rated tonnage height           | mm    | 5                | 4,5              | 4,5              | 3                | 6                |
| Max. closed die set height     | mm    | 520              | 480              | 480              | 550              | 650              |
| Stroke distance                | mm    | 120              | 70               | 70               | 20-160           | 180              |
| Press speed                    | spm   | 50-70            | 50-70            | 50-70            | 35-45            | 25-35            |
| Motorized ram adjustment       | mm    | 50 (motorized)   | 100 (motorized)  | 100 (motorized)  | 150 (motorized)  | 140 (motorized)  |
| Table dimension                | mm    | 800x600          | 1000x800         | 1000x800         | 1400x1000        | 1500x1000        |
| Number of connecting rod       | piece | 1                | 1                | 1                | 1                | 1                |
| Table height from the ground   | mm    | 610              | 800              | 770              | 930              | 820              |
| Estimated press weight (~)     | kg    | 7000             | 12250            | 12000            | 20000            | 34000            |
| Estimated press height (~)     | mm    | 4070             | 4400             | 4400             | 4980             | 6000             |
| Estimated press depth (~)      | mm    | 1320             | 2100             | 2380             | 2700             | 2300             |
| Estimated press width (~)      | mm    | 2750             | 2380             | 2700             | 2545             | 3800             |
| Motorpower                     | kW    | 11               | 11               | 15               | 18,5             | 30               |
| Stroke system                  | -     | Fixed            | Fixed            | Fixed            | Adjustable       | Fixed            |
| Overload safety system         | -     | Hydraulic        | Hydraulic        | Hydraulic        | Hydraulic        | Hydraulic        |
| Centralized lubrication system | -     | Re-cycled liquid | Re-cycled liquid | Re-cycled liquid | Re-cycled liquid | Re-cycled liquid |
| Clutch brake system            | -     | Pneumatic        | Pneumatic        | Pneumatic        | Pneumatic        | Pneumatic        |
| Die area safety system         | -     | Photo-cell       | Photo-cell       | Photo-cell       | Photo-cell       | Photo-cell       |
| Vibration pads                 | -     | Standard         | Standard         | Standard         | Standard         | Standard         |
| Speed control unit             | -     | Standard         | Standard         | Standard         | Standard         | Standard         |
| Additional plate               | -     | Optional         | Optional         | Optional         | Optional         | Optional         |

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## 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



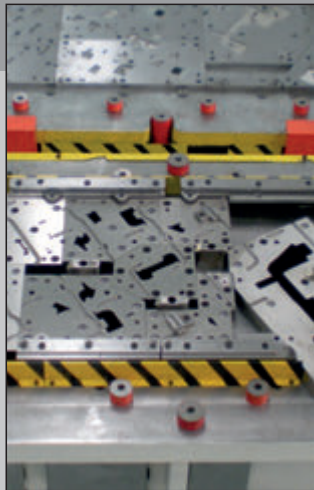
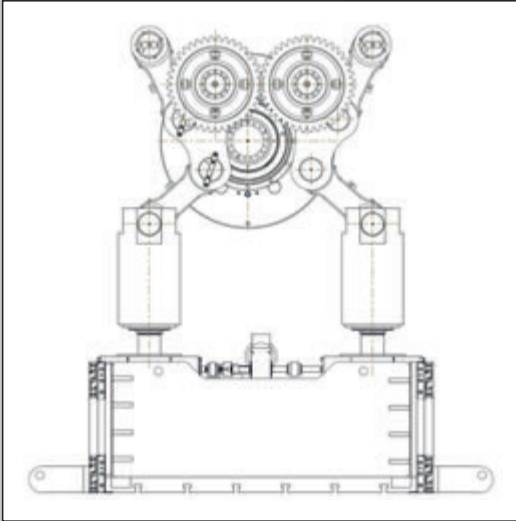
# Technical Specifications

| Properties                     | Unit  | CDCH 1200 P 2B   | CDCH 2000 P 2B   | CDCH 3000 P 2B   |                  | CDCH 4000 P 2B   |                  | CDCH 5000 P 2B   | CDCH 6300 P 2B   |
|--------------------------------|-------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Capacity                       | tons  | 120              | 200              | 300              | 300              | 400              | 400              | 500              | 630              |
| Rated tonnage height           | mm    | 5                | 4                | 6                | 8                | 7                | 10               | 5                | 7                |
| Max. closed die set height     | mm    | 500              | 600              | 500              | 640              | 660              | 650              | 700              | 850              |
| Stroke distance                | mm    | 120              | 60               | 180              | 160              | 200              | 300              | 350              | 350              |
| Press speed                    | spm   | 50-80            | 35-70            | 26               | 25-40            | 20-30            | 30-40            | 20-30            | 20-35            |
| Motorized ram adjustment       | mm    | 50 (motorized)   | 100 (motorized)  | 140 (motorized)  | 140 (motorized)  | 140 (motorized)  | 200 (motorized)  | 200 (motorized)  | 200 (motorized)  |
| Table dimension                | mm    | 1400x600         | 1600x1000        | 1800x1200        | 2000x1200        | 2200x1200        | 2500x1600        | 2800x1500        | 3000x1500        |
| Number of connecting rod       | piece | 2                | 2                | 2                | 2                | 2                | 2                | 2                | 2                |
| Table height from the ground   | mm    | 840              | 1000             | 965              | 965              | 900              | 800              | 975              | 980              |
| Estimated press weight (~)     | kg    | 15000            | 20000            | 48000            | 48000            | 51000            | 67000            | 71000            | 85000            |
| Estimated press height (~)     | mm    | 4650             | 5144             | 5240             | 5260             | 5850             | 6150             | 6370             | 6780             |
| Estimated press depth (~)      | mm    | 1700             | 2100             | 2600             | 2550             | 2170             | 2400             | 2930             | 2880             |
| Estimated press width (~)      | mm    | 3530             | 3900             | 4400             | 4290             | 5100             | 5050             | 5280             | 5780             |
| Motor power                    | kW    | 15               | 22               | 45               | 45               | 55               | 75               | 37               | 55               |
| Stroke system                  | -     | Fixed            | Fixed            | Fixed            | Fixed            | Fixed            | Fixed            | Fixed            | Fixed            |
| Overload safety system         | -     | Hydraulic        | Hydraulic        | Hydraulic        | Hydraulic        | Hydraulic        | Hydraulic        | Hydraulic        | Hydraulic        |
| Centralized lubrication system | -     | Re-cycled liquid | Re-cycled liquid | Re-cycled liquid | Re-cycled liquid | Re-cycled liquid | Re-cycled liquid | Re-cycled liquid | Re-cycled liquid |
| Clutch brake system            | -     | Pneumatic        | Pneumatic        | Pneumatic        | Pneumatic        | Pneumatic        | Pneumatic        | Pneumatic        | Pneumatic        |
| Die area safety system         | -     | Photo-cell       | Photo-cell       | Photo-cell       | Photo-cell       | Photo-cell       | Photo-cell       | Photo-cell       | Photo-cell       |
| Vibration pads                 | -     | Standard         | Standard         | Standard         | Standard         | Standard         | Standard         | Standard         | Standard         |
| Speed control unit             | -     | Standard         | Standard         | Optional         | Standard         | Standard         | Standard         | Standard         | Standard         |
| Additional plate               | -     | Optional         | Optional         | Optional         | Optional         | Optional         | Optional         | Optional         | Optional         |

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## 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



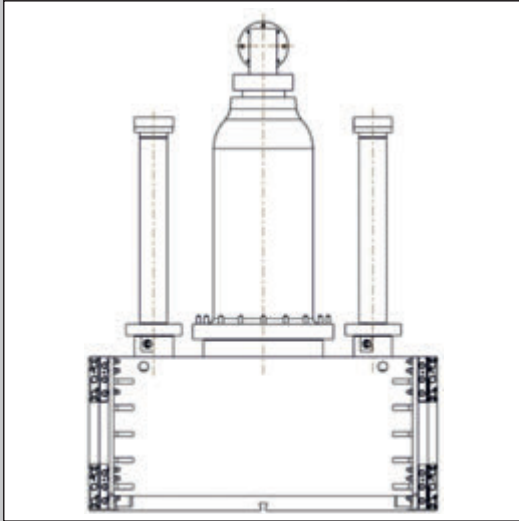
# Technical Specifications

| Properties                     | Unit  | CDCK 3150 PMU 2  | CDCK 4000 PMU 2  | CDCK 5000 PMU 2  | CDCK 6300 PMU 2  |                  | CDCK 8000 PMU 2  |
|--------------------------------|-------|------------------|------------------|------------------|------------------|------------------|------------------|
| Capacity                       | tons  | 315              | 400              | 500              | 630              | 630              | 800              |
| Rated tonnage height           | mm    | 6                | 8                | 8                | 5                | 10               | 10               |
| Max. closed die set height     | mm    | 600              | 850              | 860              | 550              | 700              | 700              |
| Stroke distance                | mm    | 160              | 250              | 250              | 80               | 250              | 250              |
| Press speed                    | spm   | 30-50            | 30-50            | 30-50            | 60-80            | 30-50            | 30-50            |
| Motorized ram adjustment       | mm    | 150 (motorized)  | 150 (motorized)  | 150 (motorized)  | 140 (motorized)  | 200 (motorized)  | 200 (motorized)  |
| Table dimension                | mm    | 1800x1200        | 1800x1200        | 1800x1200        | 1600x1200        | 2500x1400        | 2500x1400        |
| Number of connecting rod       | piece | 2                | 2                | 2                | 2                | 2                | 2                |
| Table height from the ground   | mm    | 900              | 1020             | 1029             | 980              | 1040             | 1100             |
| Estimated press weight (~)     | kg    | 35000            | 40500            | 43500            | 58000            | 62000            | 110000           |
| Estimated press height (~)     | mm    | 5750             | 5850             | 5650             | 6150             | 7500             | 8000             |
| Estimated press depth (~)      | mm    | 2300             | 2400             | 2190             | 4500             | 5500             | 5700             |
| Estimated press width (~)      | mm    | 3300             | 3480             | 4210             | 2900             | 3100             | 3300             |
| Motor power                    | kW    | 45               | 55               | 55               | 55               | 75               | 75               |
| Stroke system                  | -     | Fixed            | Fixed            | Fixed            | Fixed            | Fixed            | Fixed            |
| Overload safety system         | -     | Hydraulic        | Hydraulic        | Hydraulic        | Hydraulic        | Hydraulic        | Hydraulic        |
| Centralized lubrication system | -     | Re-cycled liquid | Re-cycled liquid | Re-cycled liquid | Re-cycled liquid | Re-cycled liquid | Re-cycled liquid |
| Clutch brake system            | -     | Pneumatic        | Pneumatic        | Pneumatic        | Pneumatic        | Pneumatic        | Pneumatic        |
| Die area safety system         | -     | Photo-cell       | Photo-cell       | Photo-cell       | Photo-cell       | Photo-cell       | Photo-cell       |
| Vibration pads                 | -     | Standard         | Standard         | Standard         | Standard         | Standard         | Standard         |
| Speed control unit             | -     | Standard         | Standard         | Standard         | Standard         | Standard         | Standard         |
| Additional plate               | -     | 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.



## 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



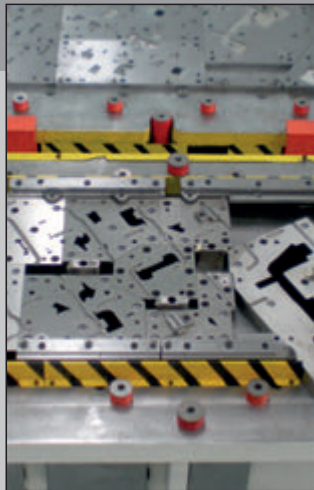
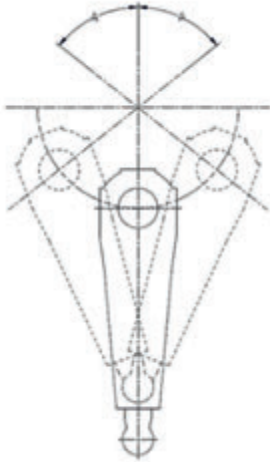
# Technical Specifications

| Properties                          | Unit | CDHH 2000-700-800 | CDHH 2500-800-1600 | CDHH 3000-800-1600 | CDHH 4000-1000-00 | CDHH 4000-700-800 | CDHH 5000-140-00 | CDHH 7500-600-1000 | CDHH 8000-400-00 | CDHH 12000-1050-3000 | CDHH 15000-600-3000 |
|-------------------------------------|------|-------------------|--------------------|--------------------|-------------------|-------------------|------------------|--------------------|------------------|----------------------|---------------------|
| Capacity                            | tons | 200               | 250                | 300                | 400               | 400               | 500              | 750                | 800              | 1200                 | 150                 |
| Cushion capacity                    | tons | 80                | 160                | 160                | -                 | 80                | -                | 100                | -                | 300                  | 300                 |
| Stroke distance                     | mm   | 700               | 800                | 800                | 1000              | 700               | 140              | 600                | 400              | 1050                 | 600                 |
| Cushion stroke distance             | mm   | 300               | 355                | 440                | -                 | 350               | -                | 360                | -                | 300                  | 225                 |
| Table dimension                     | mm   | 1600x1200         | 1200x1100          | 1400x1200          | 2000x1600         | 1600x1300         | 1400x700         | 1400x1400          | 1000x1000        | 1300x1300            | 1400x1400           |
| Max. distance between table and ram | mm   | 950               | 1300               | 1300               | 1600              | 1140              | 340              | 1200               | 780              | 1200                 | 1140                |
| Table height from the ground        | mm   | 900               | 1200               | 1180               | 1000              | 1200              | 900              | 1000               | 940              | 950                  | 1000                |
| Working speed                       | mm/s | 10-20             | 35-62              | 35-95              | 10-35             | 10-35             | 10-20            | 25-45              | 10-20            | 10-20                | 25-45               |
| Rapid approach speed                | mm/s | 200               | 540                | 200                | 200               | 200               | 200              | 480                | 200              | 200                  | 480                 |
| Estimated press weight (~)          | kg   | 25000             | 28600              | 32260              | 50000             | 42000             | 24000            | 82000              | 86000            | 93000                | 103000              |
| Estimated press height (~)          | mm   | 4650              | 5680               | 5600               | 6450              | 6049              | 4000             | 6850/4130          | 4250             | 7611/7396            | 6300/2280           |
| Estimated press depth               | mm   | 2240              | 3000               | 2840               | 3933/2124         | 2900              | 2950             | 6800/6800          | 2340             | 4100/3087            | 7410/7200           |
| Estimated press width (~)           | mm   | 3240              | 4200               | 4000               | 4200/2980         | 4340              | 3550             | 4520/3290          | 2970             | 4300/3335            | 4600/2850           |
| Motor power                         | kW   | 15                | 22                 | 55                 | 160               | 75                | 37               | 2x110              | 45               | 110                  | 4x110               |
| Centralized lubrication system      | -    | Automatic grease  | Automatic grease   | Automatic grease   | Automatic grease  | Automatic grease  | Automatic grease | Automatic grease   | Automatic grease | Automatic grease     | Automatic grease    |
| Die area safety system              | -    | Photo-cell        | Photo-cell         | Photo-cell         | Photo-cell        | Photo-cell        | Photo-cell       | Photo-cell         | Photo-cell       | Photo-cell           | Photo-cell          |
| Additional plate                    | -    | Optional          | Optional           | Optional           | Optional          | Optional          | Optional         | Optional           | Optional         | Optional             | Optional            |

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## 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

### OPTIONAL

- Die Protection System Against Over Load
- Tonnage Monitor System



## Technical Specifications

| Properties                     | Unit    | CDSH 1500 S                      |
|--------------------------------|---------|----------------------------------|
| Capacity                       | (tons)  | <b>150</b>                       |
| Rated tonnage point            | (mm)    | <b>1.4</b>                       |
| Max. closed die set height     | (mm)    | <b>500</b>                       |
| Stroke distance                | (mm)    | <b>100</b>                       |
| Press speed                    | (spm)   | <b>100</b>                       |
| Ram adjustment                 | (mm)    | <b>100</b>                       |
| Table dimension                | (mm)    | <b>1200x1000</b>                 |
| Table height from the ground   | (mm)    | <b>1040</b>                      |
| Estimated press weight (~)     | (kg)    | <b>~ 19200</b>                   |
| Estimated press height (~)     | (mm)    | <b>4550</b>                      |
| Estimated press depth (~)      | (mm)    | <b>3160</b>                      |
| Estimated press width (~)      | (mm)    | <b>2930</b>                      |
| Number of connecting rod       | (piece) | <b>1</b>                         |
| Max. energy consumption        | (kW)    | <b>40</b>                        |
| Energy Supply                  | -       | <b>3A ~ / N / PE 380 V 50 Hz</b> |
| Servo Motor Power              | (kW)    | <b>270</b>                       |
| Servo Motor Torque             | (Nm)    | <b>3300</b>                      |
| Gear ratio                     | -       | <b>5,882</b>                     |
| Centralized lubrication system | -       | <b>Re-cycled liquid</b>          |
| Die adjustment by hand wheel   | -       | <b>Standard</b>                  |

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#### GROUP COMPANIES

- DİRİNLER MAKİNA SANAYİ (Eccentric and Hydraulic Press)
- DİRİNLER SANAYİ MAKİNALARI (CNC Machinery)
- DİRİNLER DÖKÜM SANAYİ (Grey and Nodular Cast Iron Parts)
- DİRİNLER GmbH
- LUPAMAT MAKİNA SANAYİ (Reciprocating and Screw Air Compressors)
- DİRİNLER TURİZM, LİMAN İŞLETMECİLİĞİ (Marina Management)
- TEKENTEK MAKİNA MODEL SAN.TİC.LTD.ŞTİ. (Pattern Production)



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