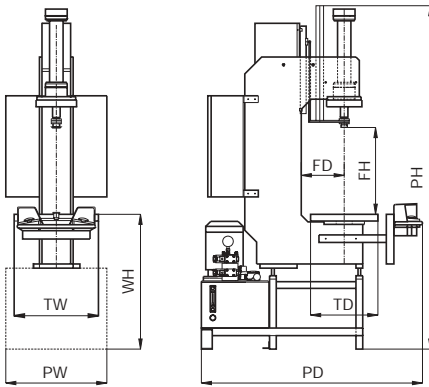
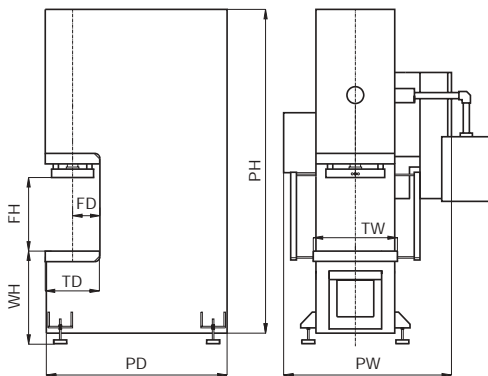


Montagepressen C80, C125, C200



Universalpresse C400



C-Frame press	C80	C125	C200	C400
Press force: max. kN	80	125	200	400
Range kN	2,5-80	5-125	10-200	20-400
Accuracy of measurement	< 3%	< 3%	< 3%	< 3%
Accuracy of monitoring	< 2%	< 2%	< 2%	< 2%
Resolution	0.1 kN	0.1 kN	0.1 kN	0.1 kN
Cylinder stroke: max. mm	355	450	600	500
Accuracy of measurement	0.01mm	0.01mm	0.01mm	0.01mm
Accuracy of monitoring	< 0.1mm	< 0.1mm	< 0.1mm	< 0.1mm
Resolution	0.01mm	0.01mm	0.01mm	0.01mm
Approach speed: mm/s	180	180	150	420
Press speed: mm/s	40	40	35	77

Depth of aperture: FH, mm	500	630	800	700
Overhang: FD, mm	250	250	315	250
Press block: mm	450 x 400	450 x 400	600 x 500	800 x 500
Weight approx. kg	550	650	959	4800

Power of motor KW	3	5.5	7.5	11
Operating voltage:	400V, 50Hz	400V, 50Hz	400V, 50Hz	400V, 50Hz

Control system:	Q-CONTROL	Q-CONTROL	Q-CONTROL	
	Q-CONTROL PLUS	Q-CONTROL PLUS	Q-CONTROL PLUS	Q-CONTROL PLUS

Options	Rotary table	Rotary table	Rotary table	
	Linear-feeder	Linear-feeder	Linear-feeder	Linear-feeder
	Handling-robot	Handling-robot	Handling-robot	Handling-robot
	Ejector	Ejector	Ejector	Ejector

Important Dimensions	C80	C125	C200	C400
Overhang (max) FD	250	250	315	250
Aperture (max) FH	500	630	800	700
Depth of press block TD	400	400	500	500
Width of press block TW	450	450	600	800
Depth of press PD	1320	1320	1400	2000
Width of press PW	600	600	700	1600
Height of press PH	2050	2400	2750	3200
Working height (min) WH	800	800	850	900

Dimensions in mm

The technical layout fulfils the latest safety and accident prevention regulations ,the Universal press C400 is Prototype tested. Special dimensions are available upon request.



STEYR Axle assembly press



RENAULT 4X4 Gear assembly press



AUA rivoting of brake linings

Control Features

ULBRICH Q-CONTROL

- Programm features
- Press Force and speed infinitely variable
- Holding Force and holding time variable
- Monitoring of press force throughout the complete stroke
- Position control over the complete stroke
- Memory with capacity for 20 programmes
- Programm recall through tooling No. and part No. possible
- Registration of operator
- Registration of order No.
- Presentation of all significant process Data, clearly arranged on the display
- Comparisons for "required" / "actual" results from the press cycle are presented on the control screen
- Result of press, ie N.I.O. or I.O. displayed on control screen
- Locking of the press stroke following an error message is an option
- Deformation is compensated by press programm
- Accuracy: +/- 0,01mm, < 3% of given press force
- Service hour counter, stroke counter and part No.
- Press result, operator, date & time, programm No. & data, Part No. & Order No. are registered after every press run and can be transmitted via an interface for further usage i.e. when required, the data can be printed out, Highly suitable option for Q.A control

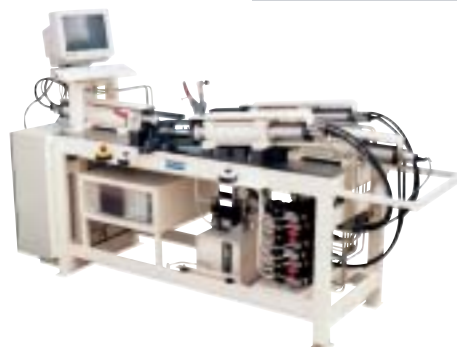
ULBRICH Intelligent Presses have two standard types of control. The ULBRICH Q-CONTROL system utilizing SPS or the ULBRICH Q-CONTROL PLUS which makes use of a P.C. Both variations can be mounted onto the press frame either rigidly or with flexible joints allowing sliding and or rotational movement.

ULBRICH Q-CONTROL PLUS

- Programm features
- Press force and speed infinitely variable
- Holding force and holding time variable
- Monitoring of press force throughout the complete stroke
- Monitoring of the position throughout the press stroke
- Unlimited memory capacity for press programmes
- Programm recall through tooling No. and associated part No. possible associated part No. possible
- Registration of operator
- Registration of order No
- Presentation of all significant process data, clearly shown on control screen
- Presentation and comparison of the variation between "required" and "actual" press result shown on control screen
- Result of press, ie N.I.O. or I.O. displayed on control screen
- Locking of the press stroke following an error message is an option
- Deformation is compensated by press programm
- Accuracy: +/- 0,01mm, < 3% of given press force
- Service hour counter, stroke counter and part No.
- Press result, operator, date & time, programm No. & data, Highly suitable option for Q.A control Part No. & Order No. are registered after every press run and registered and saved on the P.C.'s Hard Drive
- Presentation of the press curves: - "stroke/force" and "stroke/time"
- Press curves can be saved in P.C. memory
- Setting of envelope curve with tolerance band
- Statistical evaluation possible
- Simple tabular programming screen for new or adjusted press runs
- Manual teach in function. Positional input taken from actual physical position.
- Additional No. of extra input/output functions programmable
- Programmable "placement" stops (for intermediate handling)
- Customized control screen layout and design
- Lan/Wan compatibility
- Press/operating data can be further processed using Microsoft Windows as a work platform
- Additional note book function



STEYR Gear assembly press



MERCEDES Transverse control arm press



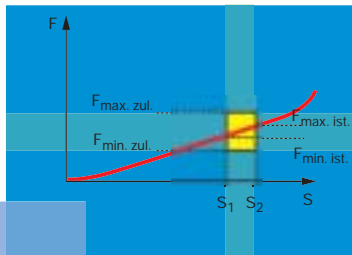
NEDTRAIN leaf spring test press

Process Integrated Quality Control

In order to comply with current Quality Assurance Standards, all production steps should be guided and controlled within defined tolerance levels and then these values must be effectively documented. The Ulbrich Q-Control press system enables a graphical representation of pressing and jointing cycles and with the use of an envelope curve or monitoring windows, a qualitative evaluation can be made and saved. Thus providing the ability to create the necessary Quality Assurance documentation. The Ulbrich Q-Control press system caters for the guidance and control of the press run with analysis of the Force/Distance curve and pre-set values.

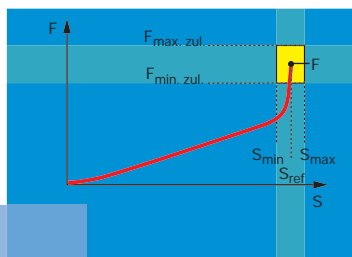
Possible Press Control Options:

Press Force Monitoring throughout press cycle



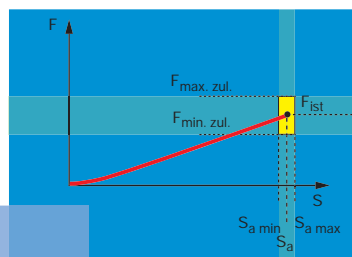
This mode enables the operator to control (within set tolerance levels) if the actual Press force between position S_1 and S_2 corresponds to the pre-determined acceptable values for the Max. and Min. press force ($F_{min\ zul}$ and $F_{max\ zul}$). The positional values for S_1 and S_2 and the authorized Force levels F_{max} and F_{min} are programmable. When the press curve runs through the pre-set window, as shown here in the graph, then the actual press force is within pre-set tolerance, i.e. = I.O. (in order). With the Ulbrich Q-Control option, up to three pre-set windows can be programmed. For example, initial positioning (this function ensures that the jointing elements are aligned). When not aligned, then the force curve will exceed pre-set tolerance levels and will not remain within window). The setting of a press force window allows monitoring of press force in the pre-set positional fields. Should the force be too low, then we assume that the tolerance of the jointing elements is too excessive i.e. press fit is too loose. Vice versa, when too high, then the press fit is too small.

Positional monitoring of press run with end force:



Utilizing this function enables the operator to monitor if the tolerances of the jointing elements are "in-order" and if the pre-determined end force is reached. Making use of a reference (benchmark) work piece, the zero position S_{ref} is registered by running the press with the pre-set force to the end position. Thus referencing the work piece. The acceptable minimum press-in force $F_{min\ zul}$ and the acceptable maximum end press force $F_{max\ zul}$ in are programmed in conjunction with the acceptable positional variations of S_{min} and S_{max} in order to reach Zero position S_{ref} . When we now press a work piece with pre-set end force, we get an evaluation of the actual position reached. When positional values lie within pre-set tolerance levels; S_{min} and S_{max} and end force achieved, then = I.O.

Force and positional monitoring during a press run to a pre-set position:



The purpose of this mode is to enable the press run to move to a pre-set position, the min and max values must lie within the pre-programmed levels. The pre-set position S_a as well as the min force; $F_{min\ zul}$ and the Max force; $F_{max\ zul}$ are pre-set. Upon reaching the pre-set position, the actual applied press force F_{ist} will be registered. Should F_{ist} lie within the given tolerance between $F_{min\ zul}$ and $F_{max\ zul}$, then press result = I.O. Should the pre-set end position not be reached (within set tolerance: $S_{a\ min}$ & $S_{a\ max}$) or if the actual applied force F_{ist} is out of the pre-set tolerance band, then press-run = N.I.O. (not in order)



GETRIEBEBAU NORD Gear assembly press



ÖBB Bogie wheel set test press



ATLANTA Gear assembly press

ULBRICH Q-Control

- Guarantees a safe working cycle
- Fast user friendly programming
- Press accuracy down to 5/100 mm
- Faster work cycle through automation
- Cuts out defective end product through distance over force monitoring
- Permanent documentation of every press-run

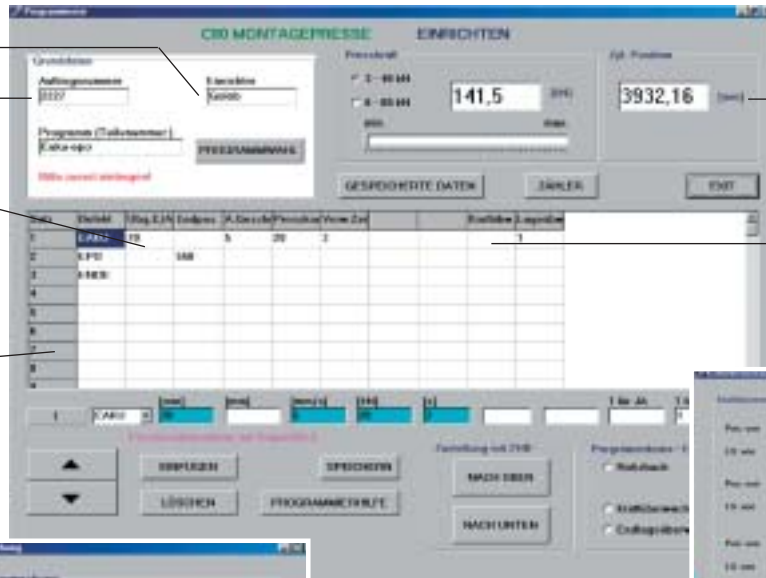
user friendly screen layout

Registration of operator

Registration of contract No.

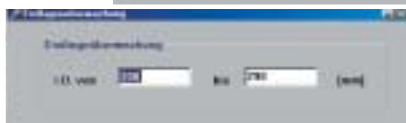
Approach speed
Press speed
Holding time and transition from approach speed to the press cycle programmable

Simple cell based programming



Display of the actual cylinder position enables the use of a "Teach In" programm

Freely programmable widow for the monitoring at every required position



Freely programmable end position monitoring



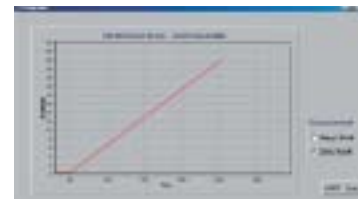
Saving of data in Excel for assimilation and further usage defined by user

simple to use in conjunction with automated working cycles



Actual press force
Actual position of cylinder
Automatic work piece counter & registration

All relevant process data and result displayed in "finishing" mode



Graphical presentation of press cycle as force/distance or force/time curve



FAG ABS Ring assembly press

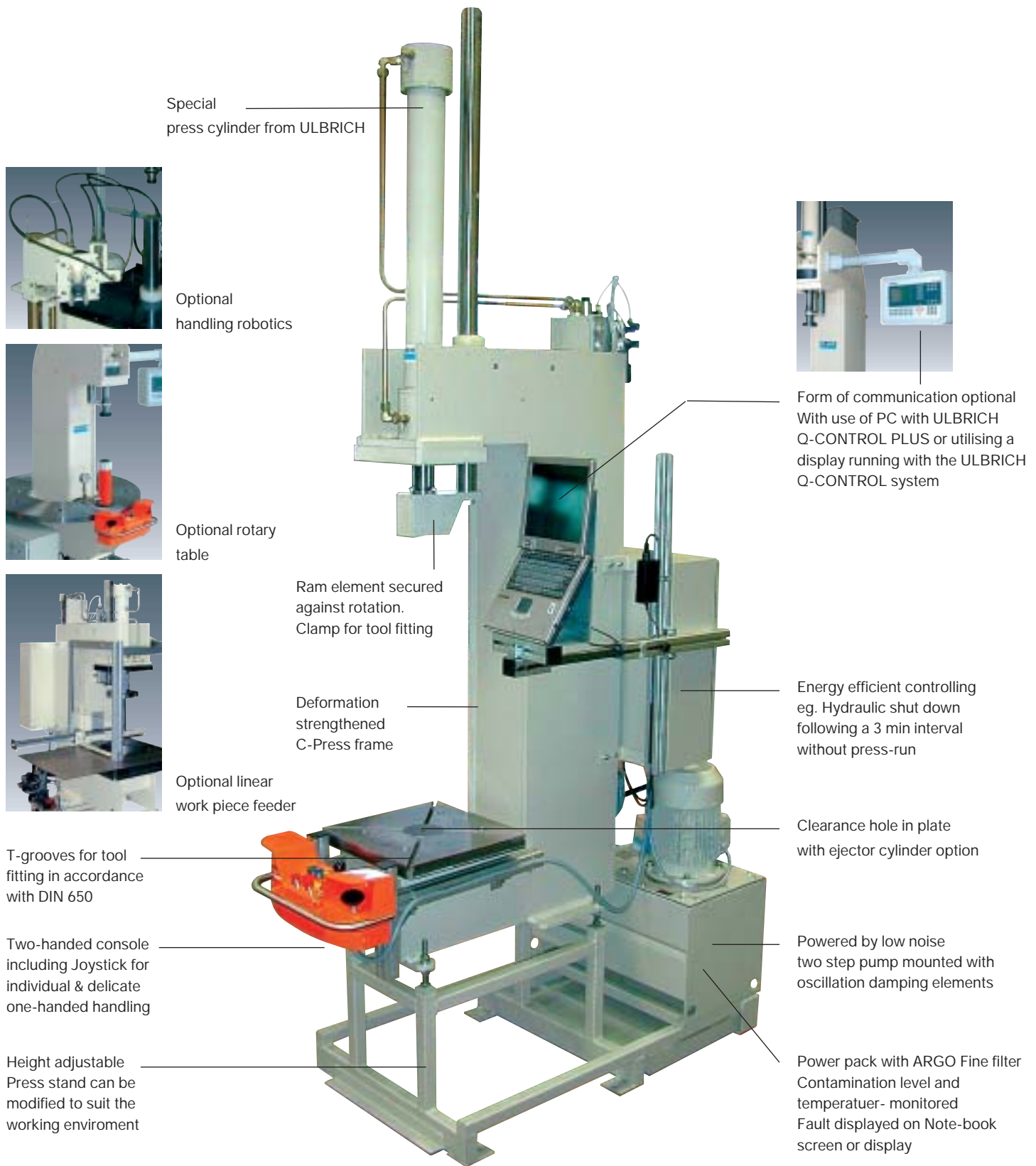


ARGO Hydraulic Filter press



FAG Ball bearing assembly press

C80, C125, C200 Assembly Press



Special
press cylinder from ULBRICH

Optional
handling robotics

Optional rotary
table

Optional linear
work piece feeder

T-grooves for tool
fitting in accordance
with DIN 650

Two-handed console
including Joystick for
individual & delicate
one-handed handling

Height adjustable
Press stand can be
modified to suit the
working environment

Ram element secured
against rotation.
Clamp for tool fitting

Deformation
strengthened
C-Press frame

Form of communication optional
With use of PC with ULBRICH
Q-CONTROL PLUS or utilising a
display running with the ULBRICH
Q-CONTROL system

Energy efficient controlling
eg. Hydraulic shut down
following a 3 min interval
without press-run

Clearance hole in plate
with ejector cylinder option

Powered by low noise
two step pump mounted with
oscillation damping elements

Power pack with ARGO Fine filter
Contamination level and
temperatuer- monitored
Fault displayed on Note-book
screen or display

50 Years of Experience in the Hydraulic Industry

Contact us!

Fax: ++43 2252 / 80 659 in Austria

Fax: ++49 7621 /162 022 in Germany

Technical requirements:

max. press force:	<input type="text"/>	kN	min. press force:	<input type="text"/>	kN		
Stroke:	<input type="text"/>	mm	Strokes / min:	<input type="text"/>			
Surface area B x T	<input type="text"/>	mm x	<input type="text"/>	mm	Height of base:	<input type="text"/>	mm
Overhang (distance from middle of ram axis to back wall)	<input type="text"/>	mm					
Aperture(distance from press plate to ram):	<input type="text"/>	mm					
Press plate with T- groove for tool fitting	<input type="text"/>						
Tool fitting clamp on piston rod	<input type="text"/>						
Ram head with T-grooves on piston rod	<input type="text"/>						
Press stand open at rear	<input type="text"/>						
Rotary table with position recognition	<input type="text"/>						
No. of work stations	<input type="text"/>	Pc's.					

Form of operation:

One-handed;with Joystick (max. 10mm/s)	<input type="text"/>	Two-handed	<input type="text"/>
One and two stroke operation with light sensor activation	<input type="text"/>		
No. of input	<input type="text"/>	No. of input	<input type="text"/>

Control system:

ULBRICH Q-CONTROL	<input type="text"/>	ULBRICH Q-CONTROL PLUS	<input type="text"/>
-------------------	----------------------	------------------------	----------------------

Type of working enviroment:

Other details:

Name of:

Company	Department	
Street	Name/Position	
Post code / Town	Telephone	Fax

Many thanks for your enquiry, you will shortly recieve a detailed offer based on the criterion sent

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ULBRICH

HYDRAULIC- ELECTRONIC PRESSES FOR ASSEMBLY & TESTING

C400 Universal press



ULBRICH the Press Specialist with more than