



WEPUKO PAHNKE ENGINEERING LP
 P.O. Box 2120
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 PHONE : (937) 390-2100 FAX : (937) 399-7876 or (937) 390-9715
 WEBSITE: www.wepuko.com

REFERENCE LIST

Details on Modernizations and Upgrading of Forging Installations:

Date	Customer City/Country	Description
2007-9	Union Electric Steel, USA	Supply of one complete 5000/6000 sh-ton Open Die Forge Press with PMSD oil-hydraulic drive (10 x RX 360 at 1200 rpm) with electronic controls - Supply of the complete systems - Commissioning
2007-9	Weber Metals, USA	Supply of one complete 3300/4000 sh-ton Open Die Forge Press with PMSD oil-hydraulic drive (7 x RX 360 at 1200 rpm) with electronic controls - Supply of the complete systems - Commissioning
2007-8	Villares Metals, Brazil	New 43/50 MN Open Die Forging Press Installation With 2 Railb. Manipulators: ** Engineering to Foundation for all Equipment ** Engineering For Complete Press Mechanical parts inc. Press Frame with 2 in 1 cylinder concept, moving table, cross die slide, die magazine etc ** All Engineering And Part Supplies to a New PMSD oil-hydraulic drive (12 x RX 360 at 1200 rpm) - ** Engineering to 2 New Manipulator Tracks
2007-8	Press Forge, Los Angeles, Cal	Engineering For Refurbishing Of A 3000 Ton Open Die Forge Press
2007	TIMET, USA	Engineering to their 6500 ton Compacting Press for - New and improved return -cum container cylinder
2007	Sidenor SA Spain (Phase 2)	Supply Upgrading of their 63-75 MN Open Die Forge Press (phase2): - New booster and filter system to pumps station - New water conditioning system (filtration & cooling) - New water-hydraulic valve controls with oil hydraulic prop- control (320 bar) and new concept for low pressure filling of main cylinders - One oil-hydraulic drive unit with valve controls for the auxiliary cylinders to the press and for the new water prop-valves control - Supply of 2 die magazine systems - Supply of one double acting pressure intensifier unit to raise pressure from 320 to 400 bar for getting 75 MN upsetting force - Electronic controls - Commissioning
2007	Standard Steel USA	Supply of Upgrade the 90 MN Wheel Forge Press to improve output by 20 % - New oil-hydraulic drive system with a 2600 Gal -6400 psi accumulator station serving their 10000 ton wheel forge press - Electronic controls to the 10000 ton press - Commissioning
2007-8	Press Forge, Los Angeles, Cal	Engineering For Refurbishing Of A 3000 Ton Open Die Forge Press



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Date	Customer City/Country	Description
2006	Villares Metals, Brazil	Engineering to a 3000 ton Open Die Forge Press For <ul style="list-style-type: none"> - An improved mobile crosshead with adjustable guide - A remote controlled die clamp device
2006	Sidenor SA, Spain (Phase 1)	Engineering to rehabilitate and upgrade their 63 MN Open Die Forge Press: (Phase 1) <ul style="list-style-type: none"> - new mobile crosshead with flat and adjustable guides - revision of the 4 round column to receive 4 flat faces thru added skirt to each column - hydraulic nut system to each of the 4 columns for pre-stressing the old column inside the new skirt and replacing the existing Supply of: <ul style="list-style-type: none"> - one part of oil-hydraulic power unit with valves - 2 remotely operated top die clamp units - Automatic lock pin device to the longitudinal table shift system - Electronic controls for the added functions Commissioning
2005	Villares Metals, Brazil	Upgrade 2000 Ton Open Die Forging Press Installation With 1 Railb. Manipulators: ** Engineering To A New Foundation To All Equipment ** Engineering For Rebuild The Press Mechanics As Follows: <ul style="list-style-type: none"> - Add A (4) Position Die Magazine - Add A (3) Position Cross Die Train - Add A Shifting Table With Lock System ** All Engineering And Part Supplies To A New Hydraulic System - ** Engineering And Supplies To Rebuild Rail bound Manipulators & New Tracks ** Supply Of New Electronic Control System With Manip Integration & Program Forging
2005	Weber Metals Los Angeles	Electronic Controls To A 1200 Ton Davy Press ** Engineering & Supply Of Replacement Controls With Added Diagnostic Functions And Spec-Data Log. ** Modernize part of the hydraulic valve system ** Commissioning
2004-5	Frankwen Forge, Johannesburg, SA	To A 1500 Ton Open Die Forging Press: ** Engineering To The Press Mechanic: For Adding A (3) Position Die Train And A Shifting Table ** Engineering to Forging Manipulator for new control elements and upgraded hydraulics ** Supply New Hydraulic Systems for manipulator



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Date	Customer City/Country	Description
		** Supply New Integrated Electronic Controls
2005	Alcoa Hungary	Feasibility study of 3 existing Press frames up to size 80 MN
2005	Tubacex, Spain	Upgrade of 20 ton forging manipulator ** Engineering & Supply of new gripper head and long travel drive ** Commissioning
2005	Villares, Brazil	Expand hydraulic drive to 3.000 ton Press from 8 to 12 pumps system with new main valve station and adjusted electronic controls ** Engineering ** Supply of pumps and valve systems ** Additional Electronic controls ** Commissioning
2004-5	Weber Metals Los Angeles	Modernize Controls To 12000 Ton Closed Die Press (Pahnke) ** Engineering & Supply of ELECTRONIC Controls with added Diagnostic Functions And Spec-Data Log. ** Modify and add to the hydraulic drive and valve system ** Commissioning
2004	Weber Metals Los Angeles	Electronic Controls To A 3.600 Ton Closed Die Press (HPM) ** Engineering & Supply Of Replacement Controls With Added Diagnostic Functions And Spec-Data Log. ** Modernize part of the hydraulic valve system ** Commissioning
2004	Ellwood ECF	Consultant service to rehabilitation of an existing Press frame
2004	Alcoa Cleveland	Feasibility study of an existing Press
2004	Press Forge Los Angeles, CA	Electronic Controls To A 750 Ton Open Die Forge Press With Two(2) Railb. Manipulators: ** Engineering & Supply Of Replacement Controls with added Program Forge, Diagnostic , Features, Ethernet Link To The WPE Service Station ** Commissioning
2004	Basset Fiberboard Franklin, Virginia	5000 ton water hydraulic Fiberboard Press ** Supply of new improved 5000 psi main valve station (valve sizes up to 7" - rated 5000 psi) ** Engineering for buyers supplies



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Date	Customer City/Country	Description
2004	Union Electric Pittsburgh	3000 ton open die forging Press modernization ** - all engineering ** - supply of one top die hydr. rotor and clamping device ** - supply of one 3 pos. lateral die magazine ** - supply of 3 position - 2 die cross die slide device ** - hydraulic and controls for the added devices.
2003	Weber Metals Los Angeles, CA	Electronic Controls To A 5000 Ton Closed Die Press (Verson) ** Engineering & Supply Of Replacement Controls With Added Diagnostic Functions And Spec-Data Log. & Ethernet Link To The WPE Service Station ** Commissioning
2002	Press Forge Los Angeles, CA	Electronic Controls To 1800 Ton Open Die Forge Press With One 15 Ton Railb. Manipulator: ** Engineering & Supply Of Replacement Controls With Added Diagnostic Functions And Spec-Data Log. ** Commissioning
2002-3	Jorgensen Forge , USA	Supply one 5.000 Ton Open Die Press in pull down design ** Consultant Service: ** Detailed Design Of New Press Frame With New Concept ** Supply All Materials To Press Frame ** Engineering And Supply Of Revisions And Extensions To an existing Press Hydraulic Drive & Controls ** Supply modified Electronic Controls ** Supervision For Dismantling of old Press And Erection of the NEW ** Commissioning
2002	Firth Rixson, Reno, NV	Repair Of 3000 Ton Upsetting & Punch Press ** Consultant Service To The Mechanical Repairs: ** Assistance In Dismantling Processing ** Detailed Design Of New Press Columns With Adjusted Design
2002	Alberta Forge Houston, TX	Electronic Controls To A 1500 Ton Open Die Press With One 25 Ton Railb. Manipulator ** Engineering & Supply Of Replacement Controls With Added Diagnostic Functions ** Commissioning
2002	Weber Metals Los Angeles, CA	Electronic Controls To A 5000 Ton Closed Die Press (HPM) ** Engineering & Supply Of Replacement Controls With Added Diagnostic Functions And Spec-Data Log. ** Commissioning



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Date	Customer City/Country	Description
2001	Frankwen Forge, Johannesburg, SA	To A 1000 Ton Open Die Forging Press: ** Engineering To The Press Mechanic: For Adding A (3) Position Die Train And A Shifting Table ** Supply New Hydraulic System ** Supply New Electronic Controls
2001	Sorel Forge, Sorel, Canada	To A 5000 Ton Open Die Forging Press ** Supply Extra Hydraulics To Operate Added Three (3) Die Trains ** Adjust The Existing Electronic Controls Accordingly
2001	Villares Metals, Brazil	Create A 3300 Ton Open Die Forging Press Installation With 2 Railb. Manipulators And Transfer Car Under The Use Of Existing: ** Engineering To A New Foundation To All Equipment ** Engineering For Rebuild The Press Mechanics As Follows: - New Press Column Concept (Tie Rod) - Add A (4) Position Die Magazine - Add A (3) Position Cross Die Train - Add A Shifting Table With Lock System ** All Engineering And Part Supplies To A New Hydraulic 8 Pump System -Extendable To A 12 Pump System ** Engineering And Supplies To Rebuild (2) Rail bound Manipulators & New Tracks ** Supply Of New Electronic Control System With Manip Integration & Program Forging
2000	Energy Machine, OH	To A 750 Ton Open Die Forging Press ** New Hydraulic System** New Electronic System ** Engineering For Adding A Die Slide
2000	Weber Metals Los Angeles, CA	Repair & Modernize A 35.000 Ton Close Die Press ** Rebuild Hydraulic Controls ** New Electronic Controls With Sophisticated Sensor Devices And Controls ** Engineering For Mechanical Design ** Consultant Service To The Mechanical Repairs
1999	Mattco Forge, Los Angeles, CA	** Supply Of New 300 Ton FFP Press With Hydraulic System & Electronic System
1999	Union Electric, PA	To A 3000 Ton Open Die Forge Press ** Rebuild Of Hydraulic System
1998	McGinnis Steel, PA	2500 Ton Open Die Forge Press ** Rebuild Of Hydraulic System
1998	Universal Stainless, Pittsburg, PA	1000 Ton Hydraulic Straightening Press **Supply Engineering



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Date	Customer City/Country	Description
1998	Canton Drop Forge, Canton, OH	1000 Ton Hydraulic Closed Die Preform Press Complete With Hydraulic- & Electric Drive & Controls ** Supply Engineering
Apr-98	Thunder Mfg	750 Ton Open Die Forge Press: ** Rebuild Hydraulic System ** Rebuild Of The (2) Position Die Slide
Dec-97	Titanium Metals, Toronto, PA	New 4000 Ton Press ** 8 Pump Hydraulic System ** Electronic System For Press With one (1) Railb. Manipulator
1997	Superior Forge, Lima, OH	Rebuild Of 20 Ton Rail bound Manipulator And Integrate Controls To Existing 2500 Ton Open Die Forging Press
1997	Titanium Metals, Toronto, PA	2500 Ton Open Die Forging Press ** Upgrade Hydraulic System ** New Electronic System
1997	Jorgensen Forge, Seattle, WA	Hydraulic System Upgrade Of The 5000 Ton Open Die Forge Press
1997	Jorgensen Forge, Seattle, WA	New Electronic Control System For 1200 Ton Open Die Forge Press
1997	Standard Steel, Burnham, PA	Additional Hydraulic System For 10,000 Ton Press
1996	Standard Steel, Burnham, PA	Hydraulic & Electronic Control System For A 5000 Ton Closed Die Forge Press
1996	Standard Steel, Burnham, PA	Hydraulic & Electronic Control System For A 10,000 Ton Closed Die Forge Press
1996	Aceralava, Llodio-Alava, Spain	Dismantling Of 2000 Ton Press Two Manipulators And Rebuild Of Existing Hydraulic System
1996	Atlas Specialty Steel	New Hydraulic & Electronic Control System For 2000 Ton Open Die Forge Press
1995	Ellwood City Forge, PA	Rebuild Of Hydraulic System 1000 Ton Open Die Forge Press
1995	Press Forge, Los Angeles, Cal	Engineering For Refurbishing Of A 3000 Ton Open Die Forge Press
1994	Canton Drop Forge, Canton, OH	New Electronic System For 200 Ton Open Die Forge Press With Single Track Bound Manipulator For Programmed Forging
1994	Non-Ferrous Products, Indianapolis, IN	Rebuild Of Hydraulic System 1500 Ton Open Die Forge Press
1994	Weber Metals, Los Angeles, CA	Design & Manufacture Of A Two (2) Position Die Slide For 12,000 Ton Closed Die Press



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Date	Customer City/Country	Description
1994	Firth Rixson, Viking, Reno, NV	Complete Mechanical Rebuild Of A 3500 Ton Closed Die Forge Press With ** Press Mechanical Redesign ** (3) Position Upper Die Slide ** (3) Position Of A Lower Die Slide ** New Hydraulic System ** New Electronic Control System
1994	Monroe Forge, Rochester, NY	Complete Mechanical Rebuild Of A 2000 Ton Closed Die Forge Press With ** (3) Position Upper Die Slide ** (3) Position Of A Lower Die Slide ** Centering Device ** Hydraulic System ** Electronic Control System
1994	Canton Drop Forge, Canton, OH	Rebuild Of Hydraulic System 200 Ton Open Die Forge Press
1993	Vulcan Forge, USA	750 Ton Hydraulic Press
1993	Titanium Metals, Toronto, PA	Rebuild Of A 6500 Ton Closed Die Press With A New Hydraulic & Electronic Control System
1992	Jorgensen Forge, Seattle, WA	New Electronic System For 2000 Ton Open Die Forge Press
1992	Gulf Forge, Houston, TX	Purchase Existing 25 Ton Railb. Manipulator & Rebuild Hydraulic System
1992	Thunder Manufacturing	Hydraulic Rebuild Of A 750 Ton Open Die Forge Press
1992	Gulf Forge, Houston, TX	Hydraulic Rebuild - 2000 Ton Open Die Forge Press
1992	Mattco Forge, Los Angeles, CA	Rebuild Of A 500 Ton Closed Die Press With A New Hydraulic & Electronic Control System
1991	Frankwen Forge, Johannesburg South Africa	Rebuild Of A 1500 Ton Open Die Press With New Hydraulic & Electronic Control System
1991	Ven Steel, USA	1000 Ton Hydraulic Press, ** Hydraulic Rebuild
1990	World Metals, USA	1000 Ton Hydraulic Press
1991	Pressform, USA	1200 Ton Open Die Forge Press, ** Hydraulic Rebuild -
1991	Superior Forge, Lima, OH	Complete Mechanical Rebuild Of 3500 Ton Open Die Forge Press With Rebuild Of Hydraulic & New Electronic Control System
1991	Pressform, USA	(3) Position Die Slide For 1200 Ton Open Die Press With Supply Of Hydraulic System



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R E F E R E N C E L I S T

Details on Modernizations and Upgrading of Forging Installations:

Date	Customer City/Country	Description
1991	Flowline, PA, USA	Rebuild Of A 500 Ton Closed Die Press With New Hydraulic & Electronic Control System For Making Stainless Steel Elbows