

ROLL GRINDING MACHINE VIBRATION ANALYSIS PROJECTS CARRIED OUT (1987 – 2008)



CORUS - PORT TALBOT INTEGRATED WORKS - UK

Farrel No.1
Farrel No.2
Cincinnati No.1
Churchill No.2 (Hot Mill)
Churchill No.3 (Hot Mill)
Churchill No.4 (Hot Mill)
Craven No.1
Waldrich Siegen No.1
Waldrich Siegen No.3
Waldrich Siegen No.4
Churchill No.1 (Cold Mill)
Churchill No.2 (Cold Mill)
Churchill No.3 (Cold Mill)

CORUS - LLANWERN INTEGRATED WORKS - UK

Churchill M0
Churchill M1
Naxos Union M2
Naxos Union M3
Naxos Union M4
Farrel M11
Farrel M12
Churchill M14
Waldrich M15

BRITISH STEEL - RAVENS CRAIG INTEGRATED WORKS - UK

Waldrich Siegen No.1
Churchill No.1
Churchill No.2

CORUS - SHOTTON FINISHING WORKS - UK

Waldrich Siegen No.31
Mesta No.32
Churchill No.22
Churchill No.33
Churchill No.34

CORUS TINPLATE - TROSTRE WORKS - UK

Waldrich No.1
Waldrich No.3
Waldrich No.4
Waldrich No.5
Farrel 30-inch
Farrel 60-inch
Farrel 28-inch

CORUS TINPLATE - EBBW VALE WORKS - UK

Waldrich No.6
Waldrich No.7
Waldrich 850 North
Waldrich 750 North

AVESTA SHEFFIELD - SHEFFIELD WORKS - UK

Churchill No.1
Churchill No.2
Naxos Union No.2

BETHLEHEM STEEL - BURNS HARBOR PLANT - INDIANA USA

Farrel No.1
Farrel No.3
Farrel No.4
Farrel No.6
Pomini No.2 CNC grinder
Pomini No.3 CNC grinder
Pomini No.5 CNC grinder

LTV STEEL – CLEVELAND WORKS – OHIO USA

60-inch Farrel (No.3 Cold Mill)
36-inch Farrel (No.3 Cold Mill)
No.3 Farrel (DHCC)
No.4 Farrel (DHCC)
28-inch Farrel (No.2 Roll Shop)
36-inch Farrel (No.2 Roll Shop)

NATIONAL STEEL – GRANITE CITY DIVISION – ILLINOIS USA

No.1 Mesta
No.2 Mesta

TRICO STEEL – MINIMILL – DECATUR, ALABAMA, USA

Farrel grinder

ISG-WEIRTON INC – INTEGRATED STEEL PLANT – WEIRTON, WEST VIRGINIA, USA

No.5A Mesta work roll grinder

ISG-SPARROWS POINT INC – INTEGRATED STEEL PLANT – SPARROWS POINT, MARYLAND, USA

No.4A Voith CNC work roll machine (Bethlehem Roll Technology)
No. K6 Farrel back-up machine

DOFASCO – INTEGRATED STEEL PLANT – HAMILTON, ONTARIO

No.3 Pomini CNC work roll grinder

SOLLAC - DUNKERQUE – FRANCE

Farrel No.1
Farrel No.2
Cincinnati No.1
Cincinnati No.2
Waldrich

SOLLAC MEDITERRANEE – FOS SUR MER – FRANCE

Pomini CNC work roll grinder

ARCELOR – PUERTO SAGUNTO – SPAIN

Pomini CNC work roll grinder

AVESTA POLARIT – TORNIO - FINLAND

Pomini CNC combination grinder

COCKERILL SAMBRE SA – INTEGRATED STEEL PLANT – LIEGE, BELGIUM

Pomini CNC work roll grinder (Cold Mill)
Giustina G1 work roll grinder (Cold Mill)
Pomini CNC work roll grinder (Hot Mill)

ERDEMIR - INTEGRATED STEEL PLANT - EREGLI, TURKEY

56-inch Farrel (hot mill)
28-inch Farrel (cold mill)

IMPHY SA - SPECIALITY STEEL PLANT - NEVERS, FRANCE

Herkules No.115

BAOSTEEL – INTEGRATED STEEL PLANT – SHANGHAI, CHINA

Herkules No.104 CNC work roll grinder
Herkules No.105 CNC combination grinder

ESSAR STEEL – SURAT – INDIA

Floor vibration survey at site of new roll grinding machine installation

ALUMINIUM CORPORATION - DOLGARROG – UK

Churchill roll grinder

ALCAN ROLLED PRODUCTS - ROGERSTONE - UK

Naxos Union N500
Naxos Union N1000
Waldrich No.1

ALCAN ROLLED PRODUCTS - GLASGOW - UK

Herkules CNC roll grinder

ALCAN PACKAGING – BRIDGNORTH – UK

Herkules work roll grinder

BRIDGNORTH ALUMINIUM – BRIDGNORTH - UK

Herkules CNC combination roll grinder
Churchill back-up roll grinder

ALCAN ROLLED PRODUCTS - TERRE HAUTE - INDIANA USA

Herkules CNC roll grinder

CONSOLIDATED ALUMINUM - HANNIBAL - OHIO USA

Waldrich Siegen CNC roll grinder

NORANDAL USA INC. - ALUMINUM FOIL PLANT - N. CAROLINA USA

Naxos Union RG2

ALCOA - INTEGRATED ALUMINUM PLANT - DAVENPORT, IOWA, USA

No.4 Cincinnati
Waldrich EO1
No.10 Herkules
No.11 Herkules
No.12 Herkules

ALCOA – INTEGRATED ALUMINIUM PLANT – KNOXVILLE, TENNESSEE, USA

Waldrich Siegen WS1 CNC roll grinder
Waldrich Siegen WS2 CNC roll grinder

LOGAN ALUMINUM – ALUMINIUM PLANT – RUSSELLVILLE, KY, USA

Herkules RG4 work roll grinder
Waldrich RG1 back-up roll grinder

PECHINEY ROLLED PRODUCTS – RAVENSWOOD W.V. – USA

54-inch Lyons work roll grinder
Capco CNC combination grinder

PECHINEY RHENALU - ALUMINIUM PLANT - NEUF BRISACH, FRANCE

Cincinnati RE1
Waldrich RE5
Waldrich RE6
Farrel RE8

ALCAN DEUTSCHLAND - GOETTINGEN - GERMANY

Herkules roll grinder

ALCAN DEUTSCHLAND - OHLE - GERMANY

Herkules WS301 roll grinder

ALCAN DEUTSCHLAND - NACHTERSTEDT - GERMANY

SAXW 1250 CNC work roll grinder
SAXW 1400 back-up grinder

ALCAN ALLUMINIO SpA – ALUMINIUM PLANT – PIEVE EMANUELE, ITALY

Pomini CNC work roll and back-up roll grinder

CARCANO ANTONIO SpA – ALUMINIUM FOIL PLANT – DELEBIO, ITALY

Giustina work roll grinder

ALCAN ALUMINIO DO BRASIL – PINDAMONHANGABA - BRAZIL

No.2 Herkules CNC work roll grinder
Waldrich WSIII back-up roll grinder

NOVELIS – JEONGJU-SI – SOUTH KOREA

Churchill work roll grinder

TLM SIBENIK - ALUMINIUM FOIL PLANT - JUGOSLAVIA

Churchill roll grinder

FORGEMASTERS LTD. - ROLL MANUFACTURER - SHEFFIELD, UK

Waldrich grinder

STEINHOFF KALTWALZEN - ROLL MANUFACTURER - DINSLAKEN, GERMANY

MSO 744 roll grinder
MSO 2410 roll grinder
Herkules WS351
Herkules WS401
Herkules UWS450
Waldrich rough grinder

FORCAST INT. SA - ROLL MANUFACTURER - SEDAN, FRANCE

Waldrich No.1
INNSE No.1

TEXTURING TECHNOLOGY LTD – ROLL GRINDING AND TEXTURING PLANT – PORT TALBOT, UK

Waldrich Siegen No.1 CNC work roll grinder
Waldrich Siegen No.2 CNC work roll grinder
Waldrich Siegen No.3 CNC combination grinder

NORDCHROME - ROLL TEXTURING PLANT - THIONVILLE, FRANCE

Herkules CNC roll grinder

MASCHINENFABRIK HERKULES GmbH - ROLL GRINDER MANUFACTURER – SIEGEN, GERMANY

Herkules WS301 development machine

In many of the above cases UNIVIB engineers' assistance was sought to troubleshoot specific surface finish problems affecting the performance of a machine. In other cases, investigations were carried out before and after refurbishment of a machine, to identify areas of the machine requiring attention prior to refurbishment, and then to assess the success of the refurbishment work, after re-installation. UNIVIB also has contracts with a number of the above Roll Shops to carry out regular vibration monitoring of all machines, usually on a quarterly basis. Names of contacts can be supplied if desired.