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 - RAVENSCRAIG 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-WEURTON 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 ALUMINUM 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
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.