NEWS RELEASE Cascadia Metals Installs 5/16" x 72" Hydraulic "Plunge" Cassette Leveler

Delta, British Columbia – Cascadia Metals, Ltd, a multi-location coil and sheet service center has completed a major upgrade of its CTL, which included the installation of a Braner/Loopco Hydraulic Cassette Leveler and a 40-foot Automatic Sheet Stacker, at its Delta, BC flagship service center just outside Vancouver, BC. The upgraded CTL has the ability to produce laser flat 72" x 80,000 PSI yield strength sheets in gauges from 5/16" down to 14-gauge.



With its new Computer Controlled 300 HP Hydraulic "Plunge" Cassette Leveler, Cascadia Metals can produce panel-flat laser-quality high-strength sheets throughout a wide gauge. The Cassette Leveler employs 14-independently controlled hydraulic cylinders rather than gearmotors and sliding wedges to position its back-ups and work rolls for shape correction and precision leveling. The 14-cylinders, each fitted with a microprocessor controlled linear voltage transducer, generates enormous work roll plunge forces and precise position accuracy required for laser quality leveling.



The 4-post Cassette Leveler frame is engineered for the sturdiness and rigidity necessary for precision lev-

eling high-strength coil. Seventeen roll x 7-flight Leveler Cassettes with work rolls ranging in size from 1.750" to 3.500" can be pushbutton installed into the Cascadia Leveler frame in a matter of a few minutes. Unlike mechanical "screw jack" Levelers, the massive Cassette Leveler crown is firmly fixed onto the four Leveler frame posts for maximum rigidity. Backlash and clearance slop that compromises precise roll positioning in "tilting" mechanical screw jack Leveler crowns are nonexistent in Hydraulic Cassette Levelers.



Leveler Cassettes contain the work rolls, intermediate rolls, back-up flights, back-up bearings, and all universal drive shafts...essentially all the working Leveler parts, which means all work roll, back-up bearing, and other periodic Leveler maintenance can be accomplished on a work table outside the Leveler frame while the Leveler is producing product with another Cassette. Hydraulic cylinders accurately lock the Cassette in place when running. 4-Hi, 5-Hi, and 6-Hi Cassettes with work rolls ranging from 1.750" to 3.500" can be installed into Cascadia's Cassette Leveler.



Entry work roll profile screen





Exit work roll profile screen

First and foremost among the operational benefits of the Hydraulic Cassette Leveler is its ability to establish completely different entry and exit roll bend profiles. Independently controlled cylinders allow the operator to set the Leveler for severe entry roll "bend" and "plunge", while the exit rolls



The Cascadia CTL upgrade project included the installation of a new Automatic Sheet Stacker with the ability to stack 24" wide through 72" wide x 5/16" sheets in lengths from 30" to 480". The Stacker is a "flipper" style drop-type wherein sheets are supported in the Stacker by rows of close-center non-marking nylon rollers. The rollers are mounted on cylinder actuated "flipper" bars that pivot open to deposit the sheet onto a pallet or sheet pack without surface sliding or scuffing. The flipper bars are arranged in short independently actuated segments along the Stacker length. A program determines the number of flipper segments that are activated depending upon the sheet length.



Braner USA, Inc., 9301 W. Bernice St., Schiller Park, IL 60176 Phone (847) 671-6210 Fax: (847) 671-0537 www.braner.com are set parallel and feathered. The ability to independently adjust entry and exit roll bend profiles, not possible with a mechanical screw jack Leveler, produces a flatter sheet.

Hydraulic Cassette Levelers employ automatic computer controls to reduce new order set-up time and scrap. The Cassette Leveler automatically positions its work rolls after coil gauge and yield strength are entered into the computer terminal. On-the-fly shape correction adjustments can be made via joy stick controls or via computer key pad. All Leveler set-up parameters can be saved to the computer memory via order number, which is a time saving feature when leveling partial coils. The computer memory allows the Leveler to automatically adjust to the set-up previously used after entering the job number.



Multiple Hydraulic Elevating Stack Tables are raised to an elevation a few inches below the sheet pass line when running in order to minimize the sheet vertical drop when stacking. The Tables automatically descend to maintain a fixed drop dimension as the sheet pack grows in height. Hydraulically driven side discharge chain type conveyor carries sheet packages up to 40' long weighing up to 40,000# out of the Stacker.

<u>Quality</u>, <u>Performance</u>, and <u>Bullet-Proof Reliability</u>, plus exemplary technical support made Cascadia's choice of a Braner/Loopco Computer Controlled Hydraulic "*Plunge*" Cassette Leveler and CTL equipment a <u>"no-brainer</u>".



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