



MASCHINENFABRIK HERKULES

Machine start-up at Wieland Werke AG, Germany

The Wieland Group is an internationally operating enterprise with a high export volume. This export strategy combined with the absolute must to maintain a permanent hold on the international market demands that Wieland makes new investments in competitive production technology. The Wieland goal is to always optimize the existing processes with regard to quality and total product cost, thereby offering their customers superior benefits over the competition.

The logical consequence of this strategy was that in March 2001 the Wieland plant in Langenberg, a copper and brass plant



HCC/KPM caliper used at the roll grinding machine in the Langenberg plant of Wieland Werke AG

The new Herkules WS 250 x 2000 CNC roll grinder was delivered, installed and commissioned less than one year after placement of the order by Wieland. The Herkules WS 250 has been achieving all roll grinding targets as established by Wieland since the machine began full production in April 2002.



Roll grinding machine WS 250 x 2000 CNC for Wieland Werke AG, Germany, Langenberg plant with HCC/KPM measuring device and new HCC/KPM 10 control/operating system

that supplies the computer/electronic, the cable and the high-power transformer industry, made the decision to optimize the existing roll shop. A critical component of this roll shop upgrade was the addition of a new state-of-the-art roll grinder. This project was a follow-up to the recently completed mill extension and upgrade.

The rolls utilized in the Langenberg mill have been successfully ground with Herkules grinding technology since 1994. Because of this success Wieland made the decision to award the new grinding machine order to Maschinenfabrik Herkules.

The main reasons for this decision were:

- ◆ The machine conception has proven itself over the years
- ◆ Years of proven machine efficiency
- ◆ A control and operation system which fulfills all demands of a modern roll shop
- ◆ The integration of measuring technology to achieve a high degree of automation
- ◆ The outstanding results of Herkules pre-order performance testing. These results confirm that Maschinenfabrik Herkules keeps its promises.
- ◆ Last but not least; Herkules was the only supplier that could fulfill the promised grinding results with regard to quality and productivity.

HotNews...

RSMS at final phase
at Sidmar »

Rolltex - Next generation
of EDT-machines



Herkules Racing Team
wins 3rd Kart Trophy



Sidmar Belgium - Roll Shop Management System (RSMS)

Maschinenfabrik Herkules, together with its daughter company HCC/KPM, was chosen to deliver and commission a new "RSMS" in the Hot and Cold Mill Roll Shop at Sidmar. The selection decision was based on Herkules superior technology and successful experience with several other worldwide projects in roll shops with similar applications.

The standard Roll Shop Management System provides facilities for tracking, controlling and analyzing the operations of a roll shop. In its base configuration

the RSMS models the work flow of a typical roll shop. Since no two roll shops are exactly the same, the RSMS allows many of its facilities to be customized, including user data and entry screens, tracked component types, roll shop work flow, costing, information collections, etc. Based on these customizing abilities, the management of application such as inventory, purchasing, material flow, scheduling, planning, grinder and mill interfacing is possible to control. While the standard version of the RSMS may suit the needs of most roll shops, Sidmar required several

customer features to satisfy its roll shop requirements.

The Sidmar steel mills in Gent, Belgium have two separate roll shops. This necessitated two somewhat different Roll Shop Management Systems to be installed.

Due to extremely good cooperation between Sidmar and Herkules this task could be realized in a beneficial way for both parties.

Open House in Meuselwitz

The Maschinenfabrik Herkules facility in Meuselwitz, Germany recently conducted a three day open house. Due to an excellent amount of orders from Herkules customers in 2001, 15 different machines were available for inspection and operation prior to the eventual final delivery of these roll shop machines to the end customers. Potential customers from Germany, Austria, Great Britain, Scandinavia, Russia and South America traveled to Meuselwitz to view these machines in operation and to participate in technical discussions hosted by Herkules engineering.



The 15 machines on display focused mainly on turning, milling and grinding technology. The positive response from the attendees has prompted Herkules to make plans for a texturing technology Open House to be scheduled for the third quarter of 2002. [Details of this Open House will be available in the next Herkules Newsflash!](#)

Herkules/Sarclad Next generation of EDT-Machines

In 1993, Maschinenfabrik Herkules and Sarclad formed a joint venture that has established the resulting partnership as a world leader in the supply of roll texturing equipment. Rolltex Electro-Discharge Texturing (EDT) machines have been supplied to 30 installations around the world. The most recent EDT systems were sold to the China facilities of Panzihua, Angang and Baosteel.

The Rolltex texturing machines utilize a method of EDT by which modern solid state switching devices are used to control the energy of individual sparks to produce the required surface textures on cold mill work rolls. As well as using the latest electronic hardware and software technology in its design, the Rolltex utilizes multi-electrode scanning texturing heads to ensure that each part of the roll receives the same consistent surface texture.

was selected over other texturing equipment currently in place at Baosteel.

The Panzihua machine is the first system to be delivered based on the 36 electrode PTM 300 configuration. Herkules looks forward to further success not only with the Chinese, but also with the worldwide texturing market. The state-of-the-art design and construction of the Rolltex EDT equipment once again show why Herkules is the "Worldwide specialist in roll shop equipment".



72 Electrode Texturing Machine

The Baosteel contract is particularly important to Herkules as the new Rolltex system

HRC Celebrates 1st Anniversary

We recently celebrated the first anniversary of the Herkules sales and service office located in Shanghai, Republic of China (HRC). This Shanghai office, strategically located in the Puxi business district and close to the Shanghai International Airport, was established to provide all Herkules equipment, service and support on a timely basis to the expanding customer base in China. In just the first year of operation HRC obtained orders for 14 different roll shop machines, including roll grinders, EDT machines, and major grinder remanufacture projects.

One of the more demanding projects in China is the Herkules WS 600 x 5500 CNC roll grinder currently being installed at Baosteel 2030. This grinder can process rolls up to 1600 mm diameter, 5500 mm length, and 55,000 kg weight. The Herkules WS 600 x 5500 is a combination machine designed to grind work rolls, CVC work rolls, skin pass mill work rolls, hot mill work and back-up rolls, and anneal/pickling line rolls. The grinder is also specially designed to grind Dynamic Shape Rolls (DSR). The DSR design demands that the roll rotation be generated by a separate drive to the outer casing of the roll while the non-rotating neck is accommodated in special steadies. The successful commissioning of this Herkules WS 600 x 5500 grinder will pave the way for

additional Baosteel grinder remanufacture orders utilizing the same technology.

2002 is proving to be another successful year for HRC. 8 machines are currently under contract and projections indicate sales levels of 2001 should be exceeded in 2002. Herkules' customer driven machine designs and installations continue to demonstrate why Herkules is the worldwide specialist in roll shop equipment.



3rd Herkules Kart Trophy 2002

The Herkules racing tradition continued with the running of the Herkules Kart Trophy race on April 27, 2002. The 3rd annual



kart racing marathon was once again held at the recently expanded asphalt track located at the Herkules corporate grounds in Siegen, Germany. 24 international teams of 4-6 kart drivers per team participated with one main thought in mind; complete the most laps possible around the 700 meter track in the 6 hour time limit. Each team driver navigated the 200 pound kart around the course for at least one hour each at speeds up to 65 km/hour. To make things a little more interesting this year, the weather decided to not cooperate with warm sunshine. Instead, the teams were faced with numerous rain showers and extremely wet track conditions.



All drivers and support crews reported to the Herkules track early in the morning for a buffet



breakfast, kart assignments, training and time trials to determine starting positions for the main race event. The green flag dropped at 1:00 and it was non-stop action from then on. The rain became such a factor that the race was stopped after 4 hours to allow a change from racing slick tires to rain tires.



Unfortunately, this tire change was not enough to prevent Deutsche Bank Racing from suffering an accident that resulted in permanent kart damage at the 4.5 hour mark. The host team, Herkules Siegen, completed 249 laps and took top honors in the closely contested race. Complete race results are listed below. Plans are in progress for Kart Trophy 2003 and all Herkules customers and suppliers are invited to assemble a team for participation in the next event. Details can be obtained by contacting the Herkules corporate headquarters in Siegen.



Results 2002

1. Herkules Siegen	Germany	249 laps	14. Honsel Walzprodukte	Germany	230 laps
2. Mercedes Bald	Germany	246 laps	15. Salzgitter AG Cold Mill Racing	Germany	228 laps
3. Mercedes Dr. Vogler	Germany	246 laps	16. Kemper	Germany	227 laps
4. BMW M-Team	Germany	241 laps	17. Kaltwalzwerk Brockhaus	Germany	227 laps
5. Twin Cat Racing Beckhoff	Germany	240 laps	18. Steinhoff	Germany	226 laps
6. Bolstering Coil In Form	Germany	237 laps	19. Young Montoyas	Brasil/Arg.	224 laps
7. VAW Aluminum	Germany	235 laps	(Usiminas, Voith, Acos Villares, Alcan Utinga, Bardella/ Siderar)		
8. Voest Alpine	Austria	233 laps	20. Team Ural	Russia	224 laps
9. Hot Wheels Voith	Austria	232 laps	(Uralmasch, Magnitogorsk)		
10. Stowe Woodward	Germany	232 laps	21. BGH Edelstahl Steel Racers	Germany	222 laps
11. Rasselstein Hoesch	Germany	232 laps	22. Thyssen Krupp Bochum	Germany	219 laps
12. Corus Spezial Profile	Germany	231 laps	23. Team Ukraine	Russia	215 laps
13. Krupp Thyssen Nirosta	Germany	231 laps	(MKMZ Kramatorsk, Melni/Zaporoshje)		
14. Honsel Walzprodukte	Germany	230 laps	24. Deutsche Bank Racing	Germany	182 laps *retired
15. Salzgitter AG Cold Mill Racing	Germany	228 laps			
16. Kemper	Germany	227 laps			



Maschinenfabrik Herkules Hans Thoma GmbH
Eisenhüttenstraße 21
57074 Siegen / Germany

Phone: +49 - 271 - 69 06-0
Fax: +49 - 271 - 69 06-222
E-mail: mhs@herkules-group.com



Maschinenfabrik Herkules Latin America
Rua Madeira de Freitas 90
29055 320 Vitória
Espírito Santo (ES) / Brazil

Phone: +55 - 27 - 32 27 37 02
Fax: +55 - 27 - 33 15 73 79
E-mail: hla@herkules-group.com



Maschinenfabrik Herkules Meuselwitz GmbH
Industriepark Nord
04610 Meuselwitz / Germany

Phone: +49 - 3448 - 83-0
Fax: +49 - 3448 - 83-333
E-mail: mhm@herkules-group.com



Herkules USA Corp.
4693 Iroquois Avenue
Erie, Pennsylvania 16511
USA

Phone: +1 - 814 - 899 31 31
Fax: +1 - 814 - 899 75 80
E-mail: husa@herkules-group.com



Maschinenfabrik Herkules Asia Pacific Reg. Office
#2-2, Level 2, Menara Milenium
Jln. Damanlela, Damansara Heights
50490 Kuala Lumpur / Malaysia

Phone: +60 - 3 - 27 10 49 40
Fax: +60 - 3 - 27 10 39 40
E-mail: hap@herkules-group.com



Herkules North America Corp.
4693 Iroquois Avenue
Erie, Pennsylvania 16511
USA

Phone: +1 - 814 - 899 31 31
Fax: +1 - 814 - 899 75 80
E-mail: hrs@herkules-group.com



Maschinenfabrik Herkules Shanghai Rep. Office
Blk A #8512A, Jiahua Business Center
808 Hong Qiao Road
200030 Shanghai / P.R.China

Phone: +86 - 21 - 64 86 76 10
Fax: +86 - 21 - 64 86 58 02
E-mail: hrc@herkules-group.com



Herkules USA Corp.
d/b/a/ KPM
208-209 Mac-Park
Ford City, Pennsylvania 16226
USA

Phone: +1 - 724 - 7 63 20 66
Fax: +1 - 724 - 7 63 20 67
E-mail: kpm@herkules-group.com



Maschinenfabrik Herkules East Rep. Office
Stromynsky pereulok 6
107076 Moskau / Russia

Phone: +7 - 095 - 2 69 20 00
Fax: +7 - 095 - 2 69 21 22
E-mail: hme@herkules-group.com



HCC/KPM LLC.
208-209 Mac-Park
Ford City, Pennsylvania 16226
USA

Phone: +1 - 724 - 7 63 20 66
Fax: +1 - 724 - 7 63 20 67
E-mail: hcckpm@herkules-group.com



Maschinenfabrik Herkules GmbH & Co.
Eisenhüttenstraße 21
57074 Siegen / Germany

Phone: +49 - 271 - 69 06-0
Fax: +49 - 271 - 69 06-222
E-mail: info@herkules-group.com