

APPLICATION REPORT

Face the Facts - Wachs Faces Flanges

E.H. Wachs is More than Cutting & Beveling

Volume 1 ▶ Issue 5



Figure 1 - Flange facing is an integral part of plant maintenance

The Project

At E.H. Wachs we're known around the world for pipe cutting and beveling machine tools, but did you know we're just as accomplished in flange facing? An important part of refinery turnarounds (figure 1), plant outages, and general maintenance is facing (or resurfacing) flanges prior to reassembly. The process of machining mating surfaces (figure 2) is a vital step in rehabilitating flanges, as a properly finished surface is necessary to prevent leaks. E.H. Wachs offers a complete line of machines, both I.D. and O.D. mounted, designed to produce perfect finishes on a wide range of flanges.

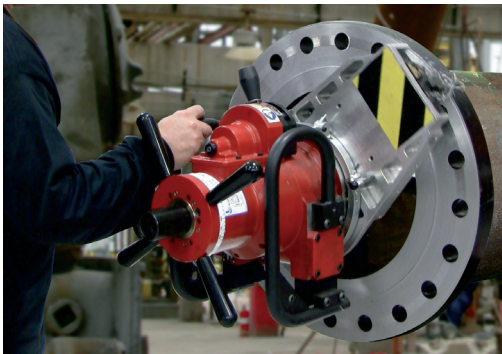


Figure 2 - EP 424 facing mating surfaces to prevent leaks

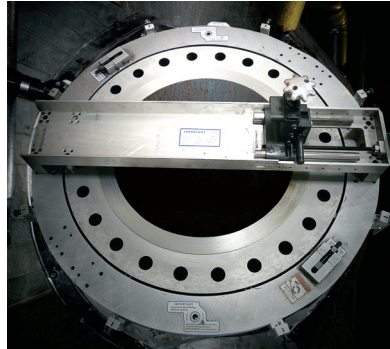


Figure 3 - LCSF with bridge slide for larger flanges

The Challenge

Getting the correct finish on a flange is critical to its performance. Flange surface facing requirements vary greatly depending on the flange type (e.g. flat, raised or ring grooved), usage and size. E.H. Wachs flange facers produce perfect record groove and RMS 500, 250, 125 & 63 finishes.

The Solution

E.H. Wachs offers multiple solutions for your flange facing applications. Highly versatile, many Wachs machine tools double as a flange facer and pipe beveler or cutter. Eliminating the need for a limited capability flange facer translates to fewer tools in inventory, saving money. For common size flanges Wachs offers our SDB and EP 424 series of bevelers/facers. The EP 424 series is ideal for machining through heavy weld overlay flanges. For those preferring a dedicated flange facer, consider our I.D. mounted FF series (figure 5).

Wachs LCSF low clearance split frame pipe cutter/beveler, optioned with a bridge slide accessory, is ideal for facing large diameter flanges (figure 3). For the largest flanges a bridge slide accessory for our HDSF heavy duty split frame is available. A benefit of Wachs split frames is they're the foundation of a complete machining system, that can be optioned to cut, bevel, single point and counterbore (figure 4).

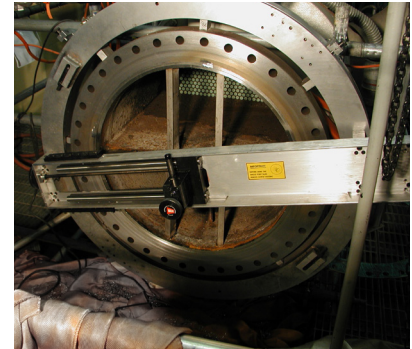


Figure 4 - Flange/divider plate facing with LCSF split frame

The Technology

In addition to our I.D. mounted machines and O.D. mounted split frames we offer a complete range of tooling, accessories and power supplies to handle the most challenging machining applications. Designed to avoid the risks associated with torch cutting, every Wachs machine utilizes a cold cutting method for highly repeatable results. Available for sale or rental, our products are easy to setup, easy to operate and produce perfect results. Call us today and face the fact that when it comes to flange facing, E.H. Wachs offers Superior Equipment. Complete Support™.



Figure 5 - FF 424 Pneumatic Flange Facer

New U.S. Location

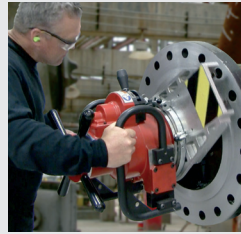
Gulf States Service & Rental Center



Our newest location in Gonzales, Louisiana offers a complete range of Wachs weld prep machine tools, saws, valve operators and power supply units for short or long term rental.

Executive Summary

Facing flanges is a vital part of plant maintenance. When rehabilitating flanges it is necessary to machine (face) the flange mating surfaces to prevent leaks on the assembled flange. E.H. Wachs offers a wide range of I.D. and O.D. mounted machine tools that are multipurpose, able to face flanges as well as cut, bevel, single point and counterbore (depending on machine and configuration), saving money over single purpose facers.



Versatile, powerful machine tools

You don't think in terms of machine tools, you think in terms of solutions. At E.H. Wachs, so do we. For your next turnaround, outage or maintenance project specify one of our powerfully productive, versatile machine tools. To learn which of our products is right for your application talk to one of our product specialists today for details on all our Superior Equipment. Complete Support™.

Quality & Innovation Since 1883

E.H. Wachs® has a long history of quality manufacturing and product innovation dating back to 1883. Today our Industrial division builds the finest portable weld prep machine tools including I.D. mounted end prep and O.D. mounted split frame pipe cutters and bevelers, flange facers, the Trav-L-Cutter®, Guillotine® pipe saws, boiler tube bevelers and handheld valve operators.

Our products are renowned for their engineering excellence, precision manufacturing and rugged reliability. They're sold and serviced worldwide through our international dealer network and Wachs Sales and Service Centers located in Illinois, Louisiana, Texas, Canada, the UK, Germany, Singapore and the UAE.

Gulf States Service & Rental Center - Now Open

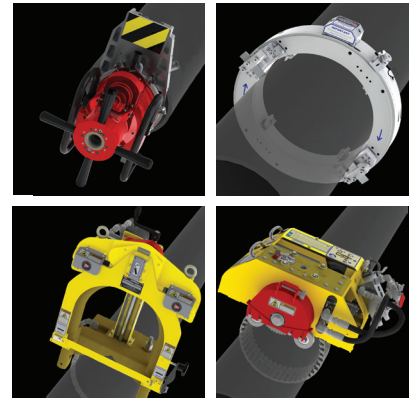
The best machine tools in the world are no help if they're not available when and where needed. With the opening of our Gulf States Service and Rental Center in Gonzales, Louisiana, our machine tools, parts and tooling are in close proximity to the regions oil refining and production industries. Stocked with a complete inventory of E.H. Wachs products available for short and long term rental, it's also ideally situated to serve the needs of the power generation facilities in the southeast.

E.H. Wachs® Industrial Division

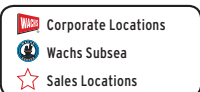
- ▶ Industrial Pipe Cutting and Beveling Machine Tools
- ▶ Portable Weld Prep Machine Tools, Sales and Rentals
- ▶ Split Frames, Guillotine® Pipe Saws, Trav-L-Cutter®
- ▶ End Prep Machines, Flange Facers, Hydraulic Power Units
- ▶ Onsite Technicians, Factory Training, Engineered Products



SDB 206
PNEUMATIC
BEVELER



Clockwise:
 EP 424 Speed Prep • LCSF Low Clearance Split Frame
 Guillotine® Pipe Saw • Trav-L-Cutter®



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