

Advanced high speed pressure controlled grinding Grinding instead of turning

A new technical development for high speed grinding has now been successfully proven at Company Thyssen Krupp Elevator/ USA. Stock removal grinding and finishing in one pass to final tolerance on DOM Tube. Heavy removal rates which eliminate the pre-turning on large cylinders over 6" (150 mm). Stock removal of 1,4 mm with high speeds of 4m/min on tubes over 200 mm diameter possible.



The pressure controlled grinding combined with grinding to size for screwed cylinders of up to 16m length reduce a 2 step operation to one single pass operation in a single machine. Tremendous production increase with reduced handling is the result.



The same technical principle for high speed grinding instead of fine turning has now been developed for Company VSMPO-AVISMA/Russia for improving of Ti billets surface up to Ø 450 mm.

Decorative grinding at companies like Greenville Tube, Phoenix Tube, Salem Tube, Thyssen and Schmolz & Bickenbach, Sandvik, Schoeller Bleckmann, Tubacex, Romac Metals

and many others have been installed for stainless steel tubing.

This patented technology for high production combined with low costs in belt consumption is called pressure controlled grinding. It is ahead of conventional grinding methods.

Applications: surface grinding and polishing of hydraulic tubes and rods; round and strips bars, heavy sections, shapes and mill products and billets; round and profile tubes; motor and hydraulics components; printing cylinders, rollers and rolls, axes; sinter, punched, moulded and after laser cutting parts; working before and after coating, removing oxide layer, teflon coating, burnishing, surface improving up to Ra=0,004m.

Materials: carbon and stainless steel and alloys, copper, aluminium, bronze, chrom- and nickel coated parts, ceramic, synthetics etc.

For picture nr. 1:

Centerless Grinding Machine Model RP+S377 for tubes up to 250 mm

For picture nr. 2:

Centerless Grinding Machine Model RP+S377 for rods up to 450 mm

Please ask further information about the project

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