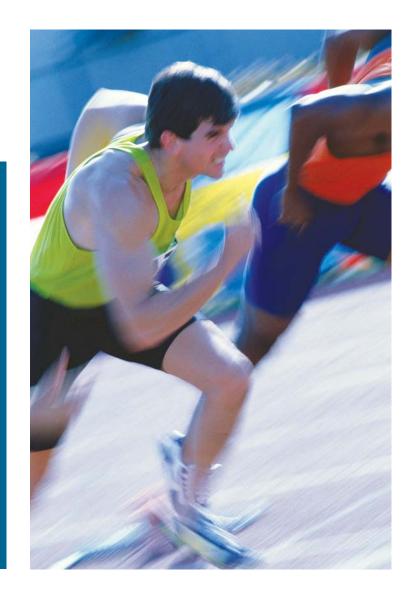
# fast start

## for new startup

hen Beat Maurer and Raphael Obrecht started their grinding operation, they were well aware of the pitfalls of starting a small business. They had seen their share of small shops in the Dayton, OH area close their doors — especially in the tool, die and mold business. But by offering a diversity of services especially in the high end work and keeping close ties with their previous employer and Swiss machine builder Studer, they're making good headway and keeping very, very busy.



SPRINGBORO, OH — Beat Maurer and Raphael Obrecht had worked together on Studer grinders for a number of years, just for someone else — United Grinding (Miamisburg, OH). When they started their own business, Complete Grinding Solutions (CGS), in January 2006 in a 1500 sq ft facility with a single Studer S40 universal grinder, unlike others who sever past relationships, CGS has maintained a tightly woven connection to United Grinding.

"Anybody out there can buy a Studer and start grinding parts, but the combination of the backgrounds we have and the grinding knowledge plus knowing the machine inside out, these together with our partnership with United

Grinding and Studer AG are the keys for our success."



Partner Raphael Obrecht and his PC. Prototyping is another key service, and setting up the grind off-line on a computer is another way to achieve efficiency

making the part, which often can result in production work for them, something they are open to.

"This can start with developing the process on our floor or theirs," Maurer says. "Then the next step would be grinding trials, tests, run-offs and analysis of the tests. We establish grinding wheels, dressing tools, workholding, cycle times, costper-piece evaluations and statistical runs. We define the best methods and parameters to make the part, whether we run the job or the customer runs it himself or even has someone else run the job."

He further notes that CGS focuses on high-end work, by which he means high-accuracy, very

difficult and complex parts due to size or tolerances or surface finishes. Basically, he says, things that not everybody can, or wants, to do.

#### Steeped in Studer

Maurer says he's been with Studer for 25 years (both he and Obrecht were born in Switzerland). He began with Studer in Switzerland as an apprentice. He went on to

acquire an engineering degree while still working for Studer. Then he was transferred to Studer Inc. in Connecticut and worked there for about three years until the company was bought by the Schleifring Group where after he was transferred to Miamisburg, working for United Grinding for 13 years. Obrecht has worked at United Grinding on Studer products for 4-1/2 years.

#### The array of services

Maurer explains there are five areas CGS focuses on: training, consulting, process development, prototyping and small- to large-production work.

"On the one hand," Maurer says, "there are job shops

that run small- to large-volume production. On the other hand, there are full engineering companies or OEMs, and neither of them focuses on prototyping. So, it's a niche — that and process development."

Obrecht says that very often a customer comes to them with a part he needs to have ground but doesn't know the best way to do it. So, they suggest the best alternatives to



Beat Maurer as grinding professor. Training is just one of the many services offered by Complete Grinding Solutions

"There is absolutely no a better product out there for the kind of work we do. Studer is the best from technology, software and reliability," says Maurer. "The effort Studer

has put in for the last 20 vears to make the product the best there is — the leader in the grinding world — has really paid off. We can grind better than anyone can even measure, and when you reach those levels, there's just no question about the accuracy of the machine. We have no downtime at all. We're really fortunate in that we have a product that we can confidently stand behind. We know where it's coming from. It's built in Switzerland, and so are we."

relationship with United Grinding," Mauer says. "From training and consulting, to prototyping, to small-to medium-size part runs — none of what we are doing now could have been done without United Grinding and their help."

Beat Maurer Complete Grinding Solutions

"We have to emphasize our

crank grinding, any type of out-of-round grinding, as well as thread grinding, cylindrical, ID/OD grinding — the whole spectrum of cylindrical grinding. The machine

combines operations very easily. We can do a form on a cam, thread on the other side, OD/IDs — all in one shot. We don't know anybody out there that can do anything like that: multiple features, multiple operations in a single setup."

Obrecht also points out that the S40 will pretty much grind anything: ceramics, carbide, silicon carbide, exotic materials, glass and rubber. "We're pretty much capable to grinding any material that's out there that is grindable. If we can get it on the machine, we can grind it," he says.

One of the beauties of running a Studer S40, Maurer says, is its great flexibility. "Today," he says, "we might be running a shaft, next week an aerospace component and in the same week we'll do a spindle for a machine tool

### Studer S40 universal grinder

The machine CGS has is a fully loaded Studer S40 universal grinder, which, Maurer notes, is capable of doing prototype work or production work with equal facility. "It's very precise and accurate," he says. "We can do form grinding, which means we can do cam and



One example of the close relationship between United Grinding and CGS: Beat Maurer and two of United Grinding's Cylindrical Applications experts, Mathias Gerber and Tom Vieira, jointly develop a complex grinding process

builder in Taiwan, and the following week we will start grinding tool holders. Speaking of tool holders, we are also capable of grinding Capto adapters due to the high accuracy C-axis our machine is equipped with.

#### A shift in industry

Something substantial has happened since 9/11, says Maurer. "I believe that one thing is that the big companies have shifted everything down to the smaller companies, the Tier Ones and Tier Twos. And that means these Tier suppliers have done the same things to their suppliers, the smaller job shops. And all these companies at all levels have let people go, from engineers to process development people. So the larger companies are relying more and more on the OEMs to provide the support they used to have internally. A customer may come to United Grinding and say, we want to buy a machine from you, but we need to have

you do the prototyping and process development and so forth, and this is where we can step in with our partnership and do some of this work for them, and we do this parallel to the machine sale."

Obrecht says that occasionally a customer may have a grinder that is temporarily down, and while that's being worked on, CGS can then run production for that customer. In other cases, a machine may come in that's bound for China. "We will do development work here and then follow the machine to where ever it will go, where we'll do development work and prove out the process and consulting and training there," Maurer says. "Basically we can run with the ball from A to Z."

Grinding can be, and is, a very rewarding career."

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