

No compromises - Precision up to the smallest detail

With *faigle* Industrieplast, Schelling provides for the highest precision.



[precision]



Oliver Schmid

Sales and Marketing Director, faigle

„With the fk 6, Schelling fulfills the high requirements for cutting transparent plastic materials to size.“

Task:

The requirements for processing transparent plastics such as acrylic glass (PMMA) and polycarbonate are particularly high. The highest measuring precision and cutting performance, as well as high productivity, play a decisive role. In order to protect expensive material, chips and scratches are to be absolutely avoided.

Schelling Solution:

The Schelling fk 6 fulfills these requirements with the PLUS⁺ concept. Cleanliness from chips and dust of over 99.5 % is achieved, and the turntable guarantees careful sheet handling. Schelling has implemented this project in cooperation withy ERBO / Germany.

FACT BOX

fk 6

Saw blade

Diameter	460 mm 18.11"
Projection	135 mm 5.31"
Clamp opening	135 mm 5.32"

Feeder speed

Forward	up to 80 m/min 0 – 262 ft/min
Return	80 m/min 262 ft/min

Saw carriage speed

Forward	up to 80 m/min 0 – 262 ft/min
Return	80 m/min 262 ft/min

Power

Saw motor	30 kW / 40 HP
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faigle Industrieplast

Founding	1991
Employees	25
Sales	8.4 million EUR
Customers	Austria Germany Switzerland



Interview with Mr. Oliver Schmid, Sales and Marketing Director at *faigle* Industrieplast

1. *faigle* offers its customers 1st®-Cut-Service. How does the Schelling fk 6 support *faigle* with the implementation of this concept?

„In most cases, the semi-finished products must be processed for continued use. Here, *faigle* applies 1st®-Cut-Service for our customers. We process sheets with the most modern, plastic-cutting saw. With the so-called Schelling PLUS⁺ concept, the fk 6 brings us a decided PLUS in precision cutting.“

2. The Schelling fk 6 is based on the PLUS⁺ concept. Which essential PLUS points are to be accentuated with this concept?

„The highest measuring precision and cutting performance stand in the foreground for *faigle*. Both *faigle* and our customers place great value on the quality of the cut pieces. This precision is confirmed in every processing step with the fk 6. High cutting performance is an additional PLUS point. We can process customer orders quickly and on schedule. Cleanliness plays a special role in the processing of transparent plastics. The solution: Connection of the ERBO company exhaust system to the precision saw with the newly developed "Clean-up System" guarantees over 99.5 % cleanliness from chips and dust, even with the so-called dust or alignment cut. The so-called PLUS⁺ interface best describes the sheet handling. Using the turntable, it is possible to move large format sheets very carefully. The plastic surface with ball valve nozzles offers a small contact surface and scratches are consequently avoided.“

3. *faigle* has two precision Schelling saws in operation and can thereby draw a direct comparison. What advantages does the fk 6 offer versus the FLM?

„Both machines are employed in our operation for cutting the widest variety of materials to size. The fk 6 impresses us with the processing and fashioning quality of plastic semi-finished products. The sawing unit only drives up to the sheet start and automatically calibrates the sheet. In this way, enhanced flow speeds and significant time savings are guaranteed. An additional differentiating feature is the main motor, direct-mounted on the sawing unit, which contributes significantly to the lack of vibration during the cutting process. The fk 6 operating concept is a further development in comparison to the FLM, and thereby requires no retraining. Personnel can therefore alternate machine operation.“

4. What experiences has had *faigle* during execution of the project?

„Schelling and *faigle* have been working closely together for many years, therefore the decision for Schelling came about very quickly. In addition to our existing precision saw FLM, we have recently invested in the new fk 6. During the development of this machine our requirements were definitive. We are thus highly satisfied with the result.“

5. *faigle* places high demands in the processing of transparent plastic materials? Has Schelling realized these requirements in the new fk 6?

„With the fk 6, Schelling fulfills the high requirements for cutting transparent plastic materials to size. With the implementation of the PLUS⁺ concept in the fk 6, Schelling has brought a machine onto the market that meets our requirements in every respect.“

