

Thermal increase

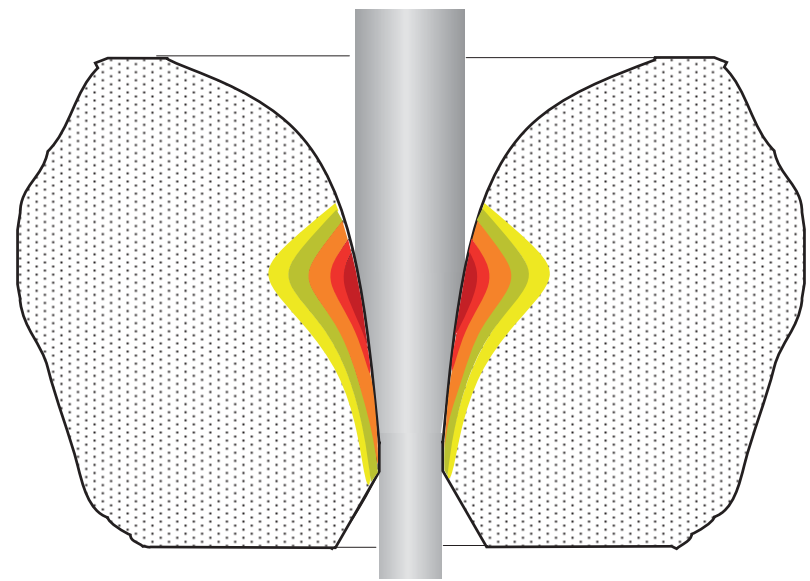
The die will heat up differently depending on the reduction angle.

This heat will affect the wear of the die and the hardening of the wire.

The type of material being drawn will dictate the reduction angle. The stress on the wire and the die depends on this geometry and must be as far away as possible from the wire's rupture limit.

When the die wears, the wire being drawn will be of an increased diameter on the following die.

If the reduction angle of this next die is not well defined, then the drawing conditions are modified with all the implications that result: increased wear, increased heat, wire finish, etc..



On a multiline machine, the precision and consistency of the reduction angle is even more critical.

It would not be acceptable for one set to wear faster than the others in a multiline wire drawing machine.

