



HYDRA is an applications program that combines hydraulic requirements along with cutting structure needs to design an application specific bit. Unique features are apparent with webbed blades, curved nozzles, and engineered junk slot designs. Combining the two technologies CFD and cutting structure design has led to breakthrough designs for the industry that are original. New records are being set every day with HYDRA bits. Be a part of history making and become a HYDRA user today.

### Application

- Vertical, Directional, Horizontal, and Tangent wells.
- For soft to hard formation applications.
- For all rotary, directional motor, and RSS applications.

### Features / Benefits

- Curved nozzles reduce the stream impact to the formation eliminating erosion and increasing bit stability in soft to medium formations.
- Webbed blades reduce cuttings recirculation to other junk slot areas, eliminating the regrinding of cuttings.
- Application specific cutting structures and bit blade/junk slot designs to match formation requirements for cuttings removal and ROP.
- Better cleaning and cutter cooling leads to extended bit life by reducing plugged nozzles, core outs, and bit balling.
- Unique junk slot geometry improves cleaning efficiency for higher cuttings volume.