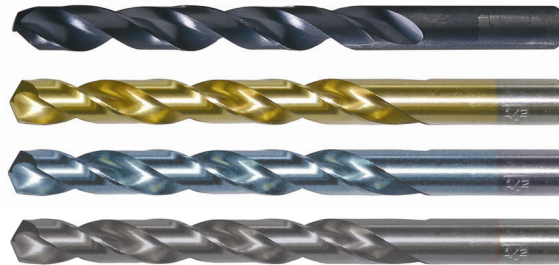


## Jobber Length Drill

### Chicago-Latrobe<sup>®</sup> NAS-Type Heavy-Duty

### Styles 150ASP, 150ASP-TN, 150ASP-TC, 150ASP-TA



Style 150ASP (black oxide)

Style 150ASP-TN (TiN-coated)

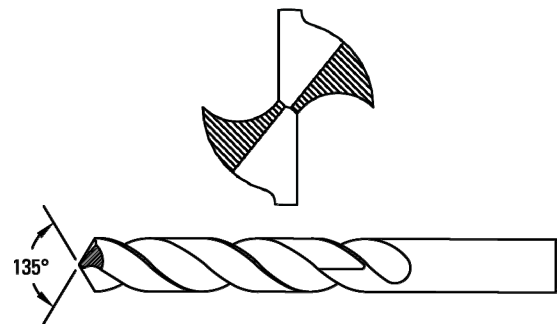
Style 150ASP-TC (TiCN-coated)

Style 150ASP-TA (TiAlN-coated)

#### Features/Benefits:

- Manufactured to NAS 907 Type B geometry aerospace specifications.
- Heavy-duty construction for drilling in tougher materials.
- Manufactured from premium high-speed steel.
- 135° P3 split point is self-centering for reduced thrust and easier penetration. Sizes smaller than .0625" do not have split point.
- The most popular drill for general-purpose applications.
- Available in fractional, letter, wire, and metric sizes and in sets.

135° P3 Split Point

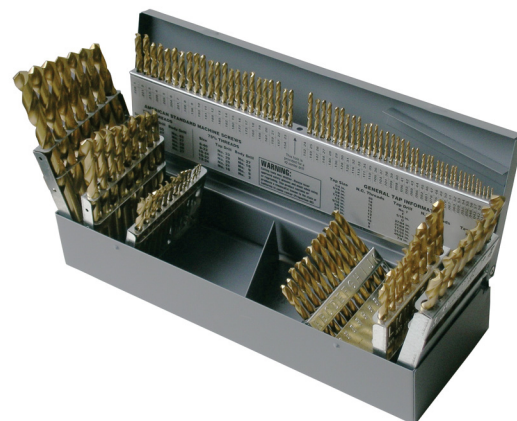


#### Application Information:

- stainless steel (TiAlN, TiCN, TiN, black oxide)
- tool steel (TiAlN, TiCN, TiN, black oxide)
- alloy steel (TiAlN, TiCN, TiN, black oxide)
- titanium (TiAlN)
- cast iron (TiAlN, TiCN, TiN, black oxide)

#### Surface Treatments

- Black oxide surface finish increases wear resistance and adds lubricity to improve chip flow.
- Titanium nitride (TiN) coating adds lubricity and hardness, enhancing chip flow, finish hole quality, and drill life.
- Titanium carbonitride (TiCN) coating increases cutting surface hardness, making the tool highly resistant to abrasive wear.
- Titanium aluminum nitride (TiAlN) coating combines the ability to work in high temperatures with added hardness to increase drill life.
- Black oxide, TiN, TiCN, and TiAlN finishes standard; alternate coatings available as stock modifications.



115-piece TiN-Coated Set