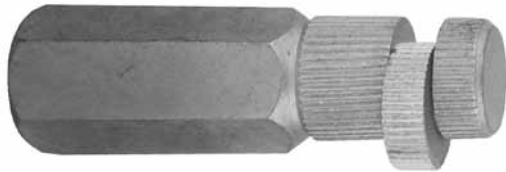




Internal Nipple Wrench

- CAM Type
- Removes or inserts
- Heat treated
- Cadmium plated



| PART NUMBER | NIPPLE SIZE |
|-------------|-------------|
| 4531 | 1/2" |
| 4532 | 3/4" |
| 4533 | 1" |

Internal Nipple Wrench

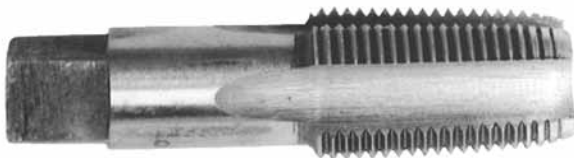
- Excellent for chrome work
- Precision machined and hardened
- Loosens and tightens
- Designed to grip internally
- Removes broken nipple threads from fittings



| PART NUMBER | SIZES |
|-------------|--------------------------|
| 4511 | 1/2" IPS Internal Wrench |
| 4512 | 3/4" IPS Internal Wrench |
| 4513 | 1" IPS Internal Wrench |

Pipe Taps

- High carbon steel
- Tapered thread taps



| PART NUMBER | PIPE SIZE | NO. OF NPT | TAP DRILL SIZE |
|-------------|-----------|------------|----------------|
| 4812 | 1/8" | 27 | 1/8" |
| 4813 | 1/4" | 18 | 7/16" |
| 4814 | 3/8" | 18 | 37/64" |
| 4815 | 1/2" | 14 | 45/64" |
| 4816 | 3/4" | 14 | 59/64" |
| 4817 | 1" | 11-1/2 | 1-5/32" |
| 4818 | 1-1/4" | 11-1/2 | 1-1/2" |
| 4819 | 1-1/2" | 11-1/2 | 1-47/64" |
| 4820 | 2" | 11-1/2 | 2-7/32" |

Nipple and Screw Extractors

- Removes nipples, bolts and screws
- Left hand spiral tapered flute removes broken piece without thread damage



| PART NUMBER | IND ID# | PIPE SIZE | DRILL SIZE | BOLT SCREW SIZE |
|-------------|---------|-----------|------------|------------------|
| 4827 | 4 | 1/8" | 1/4" | 9/32" to 3/8" |
| 4828 | 5 | 1/4" | 19/64" | 3/8" to 5/8" |
| 4829 | 6 | 3/8" | 13/32" | 5/8" to 7/8" |
| 4830 | 7 | 1/2" | 17/32" | 7/8" to 1-1/8" |
| 4831 | 8 | 3/4" | 13/16" | 1-1/8" to 1-3/8" |
| 4832 | 9 | 1" | 1-1/16" | 1-3/8" to 2" |