












# Recommended tools for: **CARBON STEELS, MEDIUM ALLOY STEELS** (generally over 45Rc)


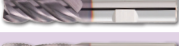













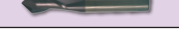

Kohlenstoffstahl / Acero de carbón / Acier du carbone / Acciaio al carbonio / 碳钢  
Mittel Legierte Werkzeugstähle / Aceros herramienta medios de la aleación / Aciers à outils alliés /  
Acciaio da utensili di media durezza / 中碳合金钢

RECOMMENDED  
TOOLS

## DRILLS

SERIES	PAGE	COATING	DESCRIPTION
1580HD 	18	HELICA	Stub length, 2 flute, High performance, Common shank
1580H 	21	HARDLUBE	Stub length, 2 flute, High performance
1280H 	31	HARDLUBE	Jobber length, 2 flute, High performance
1580KD 	26	HELICA	Stub length, 2 flute, High performance, Coolant fed, Common shank
1280KD 	36	HELICA	Jobber length, 2 flute, High performance, Coolant fed, Common shank
1580KH 	24	HELICA	Stub length, 2 flute, High performance, Coolant fed
1280KH 	34	HELICA	Jobber length, 2 flute, High performance, Coolant fed
1880KH 	39	HELICA	Taper length, 2 flute, High performance, Coolant fed
1510H 	53	HARDLUBE	Stub length, 2 flute, 15° helix, General purpose
1520H 	59	HARDLUBE	Stub length, 2 flute, General purpose
1205H 	69	HARDLUBE	Jobber length, 2 flute, General Purpose
152D / 152DA 	103-104	BRIGHT/TIALN	Standard length, 2 flute, Drill/Mill, 120° 4-facet drill point

## END MILLS

SERIES	PAGE	COATING	DESCRIPTION
V4 	132	AlCrN	High performance, 4 flute, Variable helix
VRX 	139	X.CEED	High performance, 4 flute, Variable flute rougher/finisher
VHM 	131	X.CEED	High performance, 4 flute, Variable flute hog mill rougher
253MA / 853MA 	113	X.CEED	High performance, 3 flute, Profiling and finishing
V5 	136	AlCrN	High performance, 5 flute, Variable helix
255MA / 855MA 	121	X.CEED	High performance, 5 flute
255RA / 855RA 	126	X.CEED	High performance, 5 flute, Corner radius
170MA / 870MA 	156	FUTURA	Stub length, 4 flute, General purpose
190MA / 990MA 	158	FUTURA	Stub length, 4 flute, General purpose
230MA / 830MA 	167	FUTURA	Standard length, 4 flute, General purpose
230RA / 830RA 	171	FUTURA	Standard length, 4 flute, General purpose, Corner radius
330MA / 930MA 	178	FUTURA	Standard length, 4 flute, General purpose
630MA / 650MA 	197	FUTURA	Extra length, 4 flute, General purpose
630RA 	202	FUTURA	Extra length, 4 flute, General purpose, Corner radius
730MA / 750MA 	208	FUTURA	Extra length, 4 flute, General purpose
154M / 154MA 	101-102	BRIGHT/TIALN	Standard length, 4 flute, Drill/Mill, Center cutting to a point
152M / 152MA 	99-100	BRIGHT/TIALN	Standard length, 2 flute, Drill/Mill, Center cutting to a point