

Nozzle Sizes		
32s	mm	Area (mm <sup>2</sup> )
8	6.4	32.2
9	7.1	39.6
10	7.9	49.0
11	8.7	59.4
12	9.5	70.9
13	10.3	83.3
14	11.1	96.8
15	11.9	111.2
16	12.7	126.7
18	14.3	160.6
20	15.9	198.6
22	17.5	240.5
24	19	283.5
28	22.1	383.6
32	25.4	506.7

Approximate Bit Weights (lbs.)		
Size	Milled Tooth	TCI
3 1/2 - 3 7/8	10	12
4 3/4	15	20
5 7/8 - 6 1/4	35	45
6 1/2 - 6 3/4	45	55
7 3/8 - 8	75	85
8 1/8 - 8 5/8	90	95
9 1/2 - 9 7/8	135	145
10 - 10 5/8	165	175
11 - 11 7/8	195	210
12 - 12 1/4	205	225
13 1/4 - 15	345	380
16	410	450
17 1/2	515	545
18 1/2	525	570
24	1,385	1,400
26	1,450	1,550

Pin Connection	
Bit Sizes (mm)	Connections
98.4 / 114.3	2 3/8 Reg.
117.5 / 130.0	2 7/8 Reg.
149.2 / 171.4	3 1/2 Reg.
200.0 / 222.2	4 1/2 Reg.
241.3 / 368.3	6 5/8 Reg.
374.6 / 508.0	6 5/8 or 7 5/8 Reg.
558.8 / 711.2	7 5/8 or 8 5/8 Reg.

Common Bit Sizes			
Inches	Millimeters	Inches	Millimeters
1 7/8	47.6	6 1/4	158.8
1 15/16	49.2	6 3/8	161.9
2	50.8	6 1/2	165.1
2 1/8	54.0	6 5/8	168.3
2 1/4	57.2	6 3/4	171.5
2 3/8	60.3	7 3/8	187.3
2 1/2	63.5	7 5/8	193.7
2 5/8	66.7	7 3/4	196.9
2 3/4	69.9	7 7/8	200.0
2 7/8	73	8 3/8	212.7
2 15/16	74.6	8 1/2	215.9
3	76.2	8 5/8	219.1
3 1/8	79.4	8 3/4	222.3
3 1/4	82.6	9	228.6
3 3/8	85.7	9 1/2	241.3
3 1/2	88.9	9 5/8	244.5
3 5/8	92.1	9 7/8	250.8
3 3/4	95.3	10 5/8	269.9
3 7/8	98.4	11	279.4
4 1/8	104.8	12	304.8
4 1/4	108.0	12 1/4	311.2
4 1/2	114.3	13 1/2	342.9
4 5/8	117.5	13 3/4	349.3
4 3/4	120.7	14 1/4	362.0
4 7/8	123.8	14 3/8	365.1
5	127.0	14 3/4	374.7
5 1/8	130.2	15	381.0
5 1/4	133.4	15 3/8	390.5
5 3/8	136.5	16	406.4
5 1/2	139.7	17	431.8
5 5/8	142.9	17 1/2	444.5
5 3/4	146.1	18 1/2	469.9
5 7/8	149.2	20	508.0
6	152.4	24	609.6
6 1/8	155.6	26	660.4

How to Read the 4 Character I.A.D.C. Code	
<b>Character 1: Formation Hardness</b>	
1-3: Tooth Bits    4-8: Insert Bits	
<b>Character 2: Hardness Within Class</b>	
Example: 1-1 is softer than 1-2	
<b>Character 3: Bearing Type</b>	
1. Standard Roller Bearing, No Seal	
2. Roller Bearing, Air Cooled, No Seal	
3. Roller Bearing, Gauge Protected, No Seal	
4. Sealed Roller Bearing	
5. Sealed Roller Bearing, Gauge Protected	
6. Sealed Friction Bearing	
7. Sealed Friction Bearing, Gauge Protected	
<b>Character 4: Additional Design Features</b>	
A. Air Application	
C. Center Jet	
D. Deviation Control	
E. Extended Jets	
G. Extra Gauge / Body Protection	
J. Jet Deflection	
R. Reinforced Welds	
S. Standard Steel Tooth Model	
X. Chisel Inserts	
Y. Conical Inserts	
Z. Other Insert Shapes	

Recommended Torque		
Pin Size (in)	Min / Max (Ft. / lbs)	Min / Max (N / m)
2 3/8	3,000 / 3,500	4,000 / 4,800
2 7/8	6,000 / 7,000	8,000 / 9,500
3 1/2	7,000 / 9,000	9,500 / 12,000
4 1/2	12,000 / 16,000	16,000 / 22,000
6 5/8	28,000 / 32,000	38,000 / 43,000
7 5/8	34,000 / 40,000	46,000 / 54,000
8 5/8	40,000 / 60,000	54,000 / 81,000

TFA of Jet Nozzles				
32's	1 jet	2 jets	3 jets	4 jets
7	0.038	0.076	0.114	0.152
8	0.049	0.098	0.147	0.196
9	0.062	0.124	0.186	0.249
10	0.077	0.153	0.230	0.307
11	0.093	0.186	0.278	0.371
12	0.110	0.221	0.331	0.442
13	0.130	0.259	0.389	0.518
14	0.150	0.300	0.450	0.600
15	0.172	0.344	0.516	0.688
16	0.196	0.392	0.588	0.784
18	0.249	0.498	0.747	0.996
20	0.307	0.613	0.921	1.228
22	0.371	0.742	1.113	1.484
24	0.441	0.883	1.325	1.767

### Stock Points across Alberta and North East B.C.

- |                       |                 |
|-----------------------|-----------------|
| Drayton Valley        | Medicine Hat    |
| Edson                 | Okotoks         |
| Fort Nelson           | Red Deer (East) |
| Grande Prairie (East) | Red Deer (West) |
| Grande Prairie (West) | Whitecourt      |
| Lloydminster          |                 |

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