High Performance Drill Selection Chart



Our industry leading high

performance drill with the same high

quality that helped set the standard.



Multipurpose high quality drill for most drilling applications adding stability, hole quality, tool life, and finish (excludes some work hardening materials).



An economical choice perfect for

job shop and batch production work

Twister[®] GP / Technical Section 405 / Drill Selection Chart

quality that helped set the standard. requiring a high performance drill option.								tion.											
					Application Recommendations														
Series	Drill Lgth	Size Range Inch	Size Range mm	Margin	D1 Tol.	D2 Tol.	Helix	Point Angle	Coolant Fed	DIN	Coating	TEMA* Sizes	Steel	Hardened Steel	Stainless Steel	PH Stainless Steel	Cast Iron	Titanium	High Temp Alloys
CXDSS	зх	#31-3/4	3.0-20.0	Double	m7	h6	30°	140°	N	6537K	ALtima® Plus	х	1st	2nd	2nd	2nd	1st	2nd	2nd
CXDSR	5X	#31-5/8	3.0-16.0	Double	m7	h6	30°	140°	N	6537L	ALtima® Plus	х	1st	2nd	2nd	2nd	1st	2nd	2nd
CXDCS	ЗX	#31-5/8	3.0-16.0	Double	m7	h6	30°	140°	Y	6537K	ALtima [®] Plus	х	1st	2nd	1st	2nd	1st	1st	2nd
CXDCR	5X	#31-3/4	3.0-20.0	Double	m7	h6	30°	140°	Y	6537L	ALtima [®] Plus	х	1st	2nd	1st	2nd	1st	1st	2nd
CXDCL	8X	#31-5/8	3.0-16.0	Double	m7	h6	30°	140°	Y		ALtima° Plus	х	1st	2nd	1st	2nd	1st	1st	2nd
CXDCE	15X	#31- 15/32	3.0-12.0	Double	h7	h6	30°	140°	Y		ALtima° Plus		1st	2nd	1st	2nd	1st	1st	2nd
2XDSS	3X	#31-3/4	2.5-20.0	Single	h7	h6	30°	142°	N		ALtima [®]	Х	2nd	1st	1st	1st	2nd	1st	1st
2XDSR	5X	1/64-5/8	0.5-16.0	Single	h7	h6	30°	142°	N		ALtima [®]	Х	2nd	1st	1st	1st	2nd	1st	1st
2XDCS	3X	#31-5/8	3.0-16.0	Single	h7	h6	30°	142°	Y	6537K	ALtima [®]	Х	2nd	1st	1st	1st	2nd	2nd	1st
2XDCR	5X	#31-3/4	3.0-20.0	Single	h7	h6	30°	142°	Y		ALtima [®]	Х	2nd	1st	1st	1st	2nd	2nd	1st
2XDCL	7X+	#31-1/2	3.0-12.0	Single	h7	h6	30°	142°	Y		ALtima [®]	Х	2nd	1st	1st	1st	2nd	2nd	1st
2XDCE	12X- 25X**	1/4 - 1/2	5.0-12.0	Double	h7	h6	30°	142°	Y		ALtima [®]		2nd	1st	1st	1st	2nd	2nd	1st
HPDSR	5X	#31-5/8	3.0-16.0	Single	h7	h6	30°	140°	N	6537L	ALtima [®]		3rd	3rd	3rd	3rd	3rd	3rd	3rd
HPDCR	5X	#31-5/8	3.0-16.0	Single	h7	h6	30°	140°	Y	6537L	ALtima [®]		3rd	3rd	3rd	3rd	3rd	3rd	3rd

Note: For drilling applications involving cross holes and/or optimal hole finishes, use the CXD style drill.

*TEMA - Tubular Exchange Manufacturer's Association

**Length varies depending on size.

1	nch	Inch			Inch		
D1 Tolerance (m7)		D1	Tolerance (h7)		D2	Tolerance (h6)	
.00001181	+.00008/+.00047	.00001181	+0/00039		.00001181	+0/00024	
.11822362	+.00016/+.00063	.11822362	+0/00047		.11822362	+0/00031	
.23633937	+.00024/+.00083	.23633937	+0/00059		.23633937	+0/00035	
.39387087	+.00027/+.00098	.39387087	+0/00071		.39387087	+0/00043	
.70887500	+.00031/+.00114	.70887500	+0/00083		.70887500	+0/00051	

Metr	ic (mm)	Metr	ic (mm)		Metric (mm)			
D1 Tolerance (m7)		D1	Tolerance (h7)		D2	Tolerance (h6)		
0 - 3.0	+.002/+.012	0 - 3.0	+0/010		0 - 3.0	+0/006		
3.01 - 6.0	+.004/+.016	3.01 - 6.0	+0/012		3.01 - 6.0	+0/008		
6.01 - 10.0	+.006/+.021	6.01 - 10.0	+0/015		6.01 - 10.0	+0/009		
10.01 - 18.0	+.007/+.025	10.01 - 18.0	+0/018		10.01 - 18.0	+0/011		
18.01 - 20.0	+.008/+.029	18.01 - 20.0	+0/021		18.01 - 20.0	+0/013		

M.A. Ford [®] Coating	Microhardness (HV)	Maximum Service Temp.	Friction Coefficient		
ALtima®	3100	1100° C / 2012° F	0.42		
ALtima® Plus	3200	1100° C / 2012° F	0.25		

Technical data provided should be considered advisory only as variations may be necessary depending on the particular application. For product information, call your local distributor.