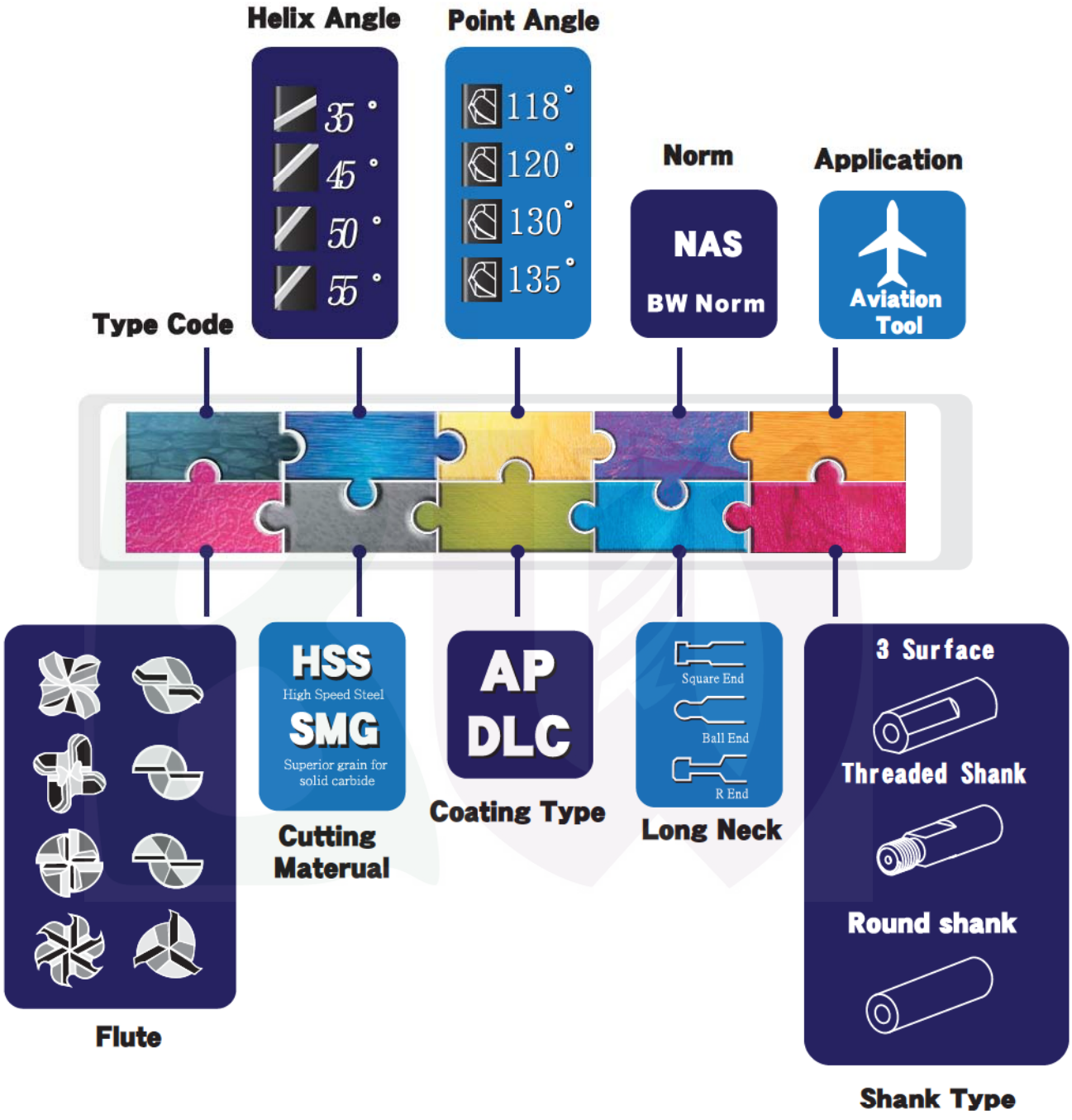
Description Of The Icon



ST Drill
直徑氣動擴孔鑽頭

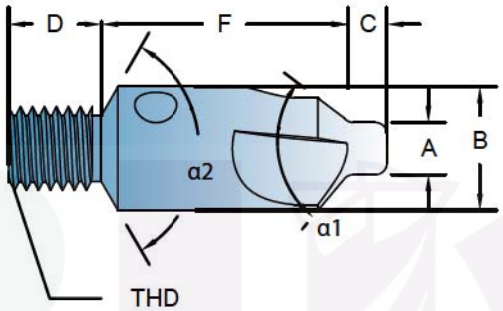
▼ ▼ ▼
直徑氣動擴孔鑽頭
ST Drill

P1 - ST1221JD-A
P2 - ST1221JD-4
P5 - ST1221JD-7

ST Drill

直徑氣動擴孔鑽頭

ST1221JD-A



Description of the code		
Z	刃數	Flutes
A	小徑直徑	Pilot Diameter
B	大徑直徑	Body Diameter
C	小徑長度	Pilot Length
F	大徑長度	Body Length
α1	刀具路徑角度	Cutter Path Angle
α2	定位角度	Locating Angle
THD	螺紋尺寸	Size Of Threaded

inch

THD Relief	0.03
Tip Gash Radian	0.01
Axial Rake Angle	5°
Body Hole	0.13
Tip Radial Rake Angle	4°
Primary Clearance Angle	8°

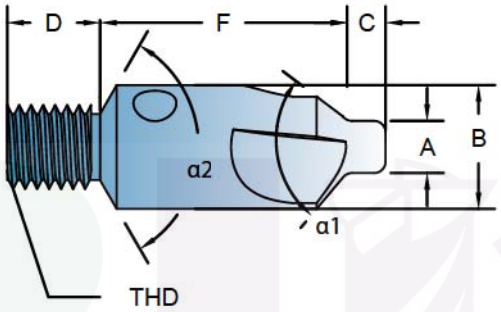
inch

Order Code	Z	A	B	C	F	α1	THD	D	α2
ST1221JD-A-065	3	0.007	0.250	0.093	0.75	100°	1/4-28	0.312	120°
ST1221JD-A-096	3	0.010	0.250	0.108	0.75	100°	1/4-28	0.312	120°
ST1221JD-A-126	3	0.013	0.500	0.123	0.75	100°	1/4-28	0.312	120°
ST1221JD-A-145	3	0.015	0.500	0.140	0.75	100°	1/4-28	0.312	120°
ST1221JD-A-158	3	0.016	0.500	0.140	0.75	100°	1/4-28	0.312	120°
ST1221JD-A-190	3	0.019	0.500	0.155	0.75	100°	1/4-28	0.312	120°
ST1221JD-A-203	3	0.020	0.500	0.162	0.75	100°	1/4-28	0.312	120°
ST1221JD-A-234	3	0.023	0.500	0.170	0.75	100°	1/4-28	0.312	120°
ST1221JD-A-238	3	0.024	0.500	0.170	0.75	100°	1/4-28	0.312	120°
ST1221JD-A-252	3	0.025	0.625	0.188	0.75	100°	1/4-28	0.312	120°
ST1221JD-A-266	3	0.027	0.625	0.193	0.75	100°	1/4-28	0.312	120°
ST1221JD-A-285	3	0.029	0.625	0.204	0.75	100°	1/4-28	0.312	120°
ST1221JD-A-314	3	0.031	0.750	0.217	0.95	100°	1/4-28	0.312	120°
ST1221JD-A-346	3	0.035	0.750	0.233	0.95	100°	1/4-28	0.312	120°
ST1221JD-A-375	3	0.038	0.750	0.248	1.15	100°	1/4-28	0.312	120°
ST1221JD-A-411	3	0.041	0.750	0.266	1.15	100°	1/4-28	0.312	120°

ST Drill

直徑氣動擴孔鑽頭

ST1221JD-4



Description of the code		
Z	刃數	Flutes
A	小徑直徑	Pilot Diameter
B	大徑直徑	Body Diameter
C	小徑長度	Pilot Length
F	大徑長度	Body Length
α1	刀具路徑角度	Cutter Path Angle
α2	定位角度	Locating Angle
THD	螺紋尺寸	Size Of Threaded

inch

THD Relief	0.03
Axial Rake Angle	5°
Body Hole	0.13
Tip Radial Rake Angle	4°
Primary Clearance Angle	8°

inch

Pilot DIA.(A)	Tip Gash Radian
0.0158-0.0295	0.035
0.0306-0.0420	0.045
0.0431-0.0998	0.055

inch

Order Code	Z	A	B	C	F	α1	THD	D	α2
ST1221JD-4-158	3	0.0158	0.375	0.118	0.75	100°	1/4-28	0.312	120°
ST1221JD-4-160	3	0.0160	0.375	0.118	0.75	100°	1/4-28	0.312	120°
ST1221JD-4-162	3	0.0162	0.375	0.118	0.75	100°	1/4-28	0.312	120°
ST1221JD-4-184	3	0.0184	0.500	0.141	0.75	100°	1/4-28	0.312	120°
ST1221JD-4-186	3	0.0186	0.500	0.141	0.75	100°	1/4-28	0.312	120°
ST1221JD-4-188	3	0.0188	0.500	0.141	0.75	100°	1/4-28	0.312	120°
ST1221JD-4-197	3	0.0197	0.500	0.141	0.75	100°	1/4-28	0.312	120°
ST1221JD-4-199	3	0.0199	0.500	0.141	0.75	100°	1/4-28	0.312	120°
ST1221JD-4-201	3	0.0201	0.500	0.141	0.75	100°	1/4-28	0.312	120°
ST1221JD-4-213	3	0.0213	0.500	0.141	0.75	100°	1/4-28	0.312	120°
ST1221JD-4-215	3	0.0215	0.500	0.141	0.75	100°	1/4-28	0.312	120°
ST1221JD-4-217	3	0.0217	0.500	0.141	0.75	100°	1/4-28	0.312	120°
ST1221JD-4-229	3	0.0229	0.500	0.141	0.75	100°	1/4-28	0.312	120°
ST1221JD-4-231	3	0.0231	0.500	0.141	0.75	100°	1/4-28	0.312	120°
ST1221JD-4-232	3	0.0232	0.500	0.141	0.75	100°	1/4-28	0.312	120°
ST1221JD-4-244	3	0.0244	0.625	0.181	0.75	100°	1/4-28	0.312	120°

ST Drill

直徑氣動擴孔鑽頭

inch

Order Code	Z	A	B	C	F	α1	THD	D	α2
ST1221JD-4-246	3	0.0246	0.625	0.181	0.75	100°	1/4-28	0.312	120°
ST1221JD-4-248	3	0.0248	0.625	0.181	0.75	100°	1/4-28	0.312	120°
ST1221JD-4-260	3	0.0260	0.625	0.181	0.75	100°	1/4-28	0.312	120°
ST1221JD-4-262	3	0.0262	0.625	0.181	0.75	100°	1/4-28	0.312	120°
ST1221JD-4-264	3	0.0264	0.625	0.181	0.75	100°	1/4-28	0.312	120°
ST1221JD-4-275	3	0.0275	0.625	0.181	0.75	100°	1/4-28	0.312	120°
ST1221JD-4-277	3	0.0277	0.625	0.181	0.75	100°	1/4-28	0.312	120°
ST1221JD-4-279	3	0.0279	0.625	0.181	0.75	100°	1/4-28	0.312	120°
ST1221JD-4-291	3	0.0291	0.625	0.181	0.75	100°	1/4-28	0.312	120°
ST1221JD-4-293	3	0.0293	0.625	0.181	0.75	100°	1/4-28	0.312	120°
ST1221JD-4-295	3	0.0295	0.625	0.181	0.75	100°	1/4-28	0.312	120°
ST1221JD-4-306	3	0.0306	0.750	0.232	0.75	100°	1/4-28	0.312	120°
ST1221JD-4-308	3	0.0308	0.750	0.232	0.75	100°	1/4-28	0.312	120°
ST1221JD-4-311	3	0.0311	0.750	0.232	0.75	100°	1/4-28	0.312	120°
ST1221JD-4-322	3	0.0322	0.750	0.232	0.75	100°	1/4-28	0.312	120°
ST1221JD-4-324	3	0.0324	0.750	0.232	0.75	100°	1/4-28	0.312	120°
ST1221JD-4-326	3	0.0326	0.750	0.232	0.75	100°	1/4-28	0.312	120°
ST1221JD-4-338	3	0.0338	0.750	0.232	0.75	100°	1/4-28	0.312	120°
ST1221JD-4-340	3	0.0340	0.750	0.232	0.75	100°	1/4-28	0.312	120°
ST1221JD-4-342	3	0.0342	0.750	0.232	0.75	100°	1/4-28	0.312	120°
ST1221JD-4-354	3	0.0354	0.750	0.232	0.75	100°	1/4-28	0.312	120°
ST1221JD-4-356	3	0.0356	0.750	0.232	0.75	100°	1/4-28	0.312	120°
ST1221JD-4-358	3	0.0358	0.750	0.232	0.75	100°	1/4-28	0.312	120°
ST1221JD-4-368	3	0.0368	0.875	0.274	1.15	100°	1/4-28	0.437	120°
ST1221JD-4-370	3	0.0370	0.875	0.274	1.15	100°	1/4-28	0.437	120°
ST1221JD-4-373	3	0.0373	0.875	0.274	1.15	100°	1/4-28	0.437	120°
ST1221JD-4-385	3	0.0385	0.875	0.274	1.15	100°	1/4-28	0.437	120°
ST1221JD-4-387	3	0.0387	0.875	0.274	1.15	100°	1/4-28	0.437	120°
ST1221JD-4-389	3	0.0389	0.875	0.274	1.15	100°	1/4-28	0.437	120°
ST1221JD-4-400	3	0.0400	0.875	0.274	1.15	100°	1/4-28	0.437	120°
ST1221JD-4-402	3	0.0402	0.875	0.274	1.15	100°	1/4-28	0.437	120°
ST1221JD-4-404	3	0.0404	0.875	0.274	1.15	100°	1/4-28	0.437	120°
ST1221JD-4-416	3	0.0416	0.875	0.274	1.15	100°	1/4-28	0.437	120°
ST1221JD-4-418	3	0.0418	0.875	0.274	1.15	100°	1/4-28	0.437	120°
ST1221JD-4-420	3	0.0420	0.875	0.274	1.15	100°	1/4-28	0.437	120°
ST1221JD-4-431	3	0.0431	1.000	0.325	1.15	100°	1/4-28	0.437	120°
ST1221JD-4-433	3	0.0433	1.000	0.325	1.15	100°	1/4-28	0.437	120°
ST1221JD-4-436	3	0.0436	1.000	0.325	1.15	100°	1/4-28	0.437	120°
ST1221JD-4-446	3	0.0446	1.000	0.325	1.15	100°	1/4-28	0.437	120°
ST1221JD-4-449	3	0.0449	1.000	0.325	1.15	100°	1/4-28	0.437	120°
ST1221JD-4-451	3	0.0451	1.000	0.325	1.15	100°	1/4-28	0.437	120°
ST1221JD-4-463	3	0.0463	1.000	0.325	1.15	100°	1/4-28	0.437	120°
ST1221JD-4-465	3	0.0465	1.000	0.325	1.15	100°	1/4-28	0.437	120°
ST1221JD-4-467	3	0.0467	1.000	0.325	1.15	100°	1/4-28	0.437	120°
ST1221JD-4-481	3	0.0481	1.000	0.325	1.15	100°	1/4-28	0.437	120°
ST1221JD-4-483	3	0.0483	1.000	0.325	1.15	100°	1/4-28	0.437	120°
ST1221JD-4-494	3	0.0494	1.125	0.366	1.15	100°	1/4-28	0.437	120°
ST1221JD-4-495	3	0.0495	1.125	0.366	1.15	100°	1/4-28	0.437	120°
ST1221JD-4-498	3	0.0498	1.125	0.366	1.15	100°	1/4-28	0.437	120°
ST1221JD-4-510	3	0.0510	1.125	0.366	1.15	100°	1/4-28	0.437	120°

ST Drill

直徑氣動擴孔鑽頭

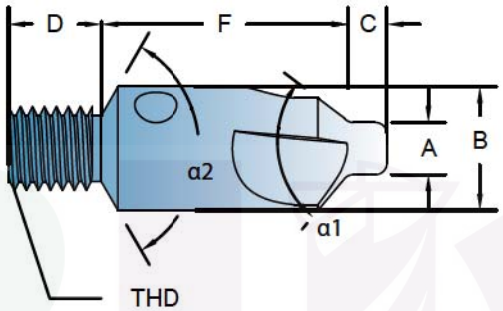
inch

Order Code	Z	A	B	C	F	α1	THD	D	α2
ST1221JD-4-512	3	0.0512	1.125	0.366	1.15	100°	1/4-28	0.437	120°
ST1221JD-4-514	3	0.0514	1.125	0.366	1.15	100°	1/4-28	0.437	120°
ST1221JD-4-526	3	0.0526	1.125	0.366	1.15	100°	1/4-28	0.437	120°
ST1221JD-4-527	3	0.0527	1.125	0.366	1.15	100°	1/4-28	0.437	120°
ST1221JD-4-529	3	0.0529	1.125	0.366	1.15	100°	1/4-28	0.437	120°
ST1221JD-4-543	3	0.0543	1.125	0.366	1.15	100°	1/4-28	0.437	120°
ST1221JD-4-545	3	0.0545	1.125	0.366	1.15	100°	1/4-28	0.437	120°
ST1221JD-4-556	3	0.0556	1.250	0.417	1.15	100°	1/4-28	0.437	120°
ST1221JD-4-558	3	0.0558	1.250	0.417	1.15	100°	1/4-28	0.437	120°
ST1221JD-4-561	3	0.0561	1.250	0.417	1.15	100°	1/4-28	0.437	120°
ST1221JD-4-572	3	0.0572	1.250	0.417	1.15	100°	1/4-28	0.437	120°
ST1221JD-4-574	3	0.0574	1.250	0.417	1.15	100°	1/4-28	0.437	120°
ST1221JD-4-576	3	0.0576	1.250	0.417	1.15	100°	1/4-28	0.437	120°
ST1221JD-4-587	3	0.0587	1.250	0.417	1.15	100°	1/4-28	0.437	120°
ST1221JD-4-590	3	0.0590	1.250	0.417	1.15	100°	1/4-28	0.437	120°
ST1221JD-4-592	3	0.0592	1.250	0.417	1.15	100°	1/4-28	0.437	120°
ST1221JD-4-605	3	0.0605	1.250	0.417	1.15	100°	1/4-28	0.437	120°
ST1221JD-4-607	3	0.0607	1.250	0.417	1.15	100°	1/4-28	0.437	120°
ST1221JD-4-618	3	0.0618	1.375	0.458	1.15	100°	1/4-28	0.437	120°
ST1221JD-4-620	3	0.0620	1.375	0.458	1.15	100°	1/4-28	0.437	120°
ST1221JD-4-623	3	0.0623	1.375	0.458	1.15	100°	1/4-28	0.437	120°
ST1221JD-4-634	3	0.0634	1.375	0.458	1.15	100°	1/4-28	0.437	120°
ST1221JD-4-636	3	0.0636	1.375	0.458	1.15	100°	1/4-28	0.437	120°
ST1221JD-4-639	3	0.0639	1.375	0.458	1.15	100°	1/4-28	0.437	120°
ST1221JD-4-650	3	0.0650	1.375	0.458	1.15	100°	1/4-28	0.437	120°
ST1221JD-4-652	3	0.0652	1.375	0.458	1.15	100°	1/4-28	0.437	120°
ST1221JD-4-654	3	0.0654	1.375	0.458	1.15	100°	1/4-28	0.437	120°
ST1221JD-4-668	3	0.0668	1.375	0.458	1.15	100°	1/4-28	0.437	120°
ST1221JD-4-670	3	0.0670	1.375	0.458	1.15	100°	1/4-28	0.437	120°
ST1221JD-4-743	3	0.0743	1.750	0.551	1.25	100°	1/4-28	0.437	120°
ST1221JD-4-745	3	0.0745	1.750	0.551	1.25	100°	1/4-28	0.437	120°
ST1221JD-4-748	3	0.0748	1.750	0.551	1.25	100°	1/4-28	0.437	120°
ST1221JD-4-759	3	0.0759	1.750	0.551	1.25	100°	1/4-28	0.437	120°
ST1221JD-4-775	3	0.0775	1.750	0.551	1.25	100°	1/4-28	0.437	120°
ST1221JD-4-873	3	0.0873	1.750	0.551	1.25	100°	1/4-28	0.437	120°
ST1221JD-4-998	3	0.0998	1.750	0.625	1.25	100°	1/4-28	0.500	120°

ST Drill

直徑氣動擴孔鑽頭

ST1221JD-7



Description of the code		
Z	刃數	Flutes
A	小徑直徑	Pilot Diameter
B	大徑直徑	Body Diameter
C	小徑長度	Pilot Length
F	大徑長度	Body Length
α1	刀具路徑角度	Cutter Path Angle
α2	定位角度	Locating Angle
THD	螺紋尺寸	Size Of Threaded

inch

THD Relief	0.03
Axial Rake Angle	5°
Body Hole	0.13
Tip Radial Rake Angle	4°
Primary Clearance Angle	8°

inch

Pilot DIA.(A)	Tip Gash Radian
0.0158-0.0295	0.035
0.0306-0.0420	0.045
0.0431-0.0998	0.055

inch

Order Code	Z	A	B	C	F	α1	THD	D	α2
ST1221JD-7-158	3	0.0158	0.375	0.118	0.75	100°	7/16-20	0.312	120°
ST1221JD-7-160	3	0.0160	0.375	0.118	0.75	100°	7/16-20	0.312	120°
ST1221JD-7-162	3	0.0162	0.375	0.118	0.75	100°	7/16-20	0.312	120°
ST1221JD-7-184	3	0.0184	0.500	0.141	0.75	100°	7/16-20	0.312	120°
ST1221JD-7-186	3	0.0186	0.500	0.141	0.75	100°	7/16-20	0.312	120°
ST1221JD-7-188	3	0.0188	0.500	0.141	0.75	100°	7/16-20	0.312	120°
ST1221JD-7-197	3	0.0197	0.500	0.141	0.75	100°	7/16-20	0.312	120°
ST1221JD-7-199	3	0.0199	0.500	0.141	0.75	100°	7/16-20	0.312	120°
ST1221JD-7-201	3	0.0201	0.500	0.141	0.75	100°	7/16-20	0.312	120°
ST1221JD-7-213	3	0.0213	0.500	0.141	0.75	100°	7/16-20	0.312	120°
ST1221JD-7-215	3	0.0215	0.500	0.141	0.75	100°	7/16-20	0.312	120°
ST1221JD-7-217	3	0.0217	0.500	0.141	0.75	100°	7/16-20	0.312	120°
ST1221JD-7-229	3	0.0229	0.500	0.141	0.75	100°	7/16-20	0.312	120°
ST1221JD-7-231	3	0.0231	0.500	0.141	0.75	100°	7/16-20	0.312	120°
ST1221JD-7-232	3	0.0232	0.500	0.141	0.75	100°	7/16-20	0.312	120°
ST1221JD-7-244	3	0.0244	0.625	0.181	0.75	100°	7/16-20	0.312	120°

ST Drill

直徑氣動擴孔鑽頭

inch

Order Code	Z	A	B	C	F	α1	THD	D	α2
ST1221JD-7-246	3	0.0246	0.625	0.181	0.75	100°	7/16-20	0.312	120°
ST1221JD-7-248	3	0.0248	0.625	0.181	0.75	100°	7/16-20	0.312	120°
ST1221JD-7-260	3	0.0260	0.625	0.181	0.75	100°	7/16-20	0.312	120°
ST1221JD-7-262	3	0.0262	0.625	0.181	0.75	100°	7/16-20	0.312	120°
ST1221JD-7-264	3	0.0264	0.625	0.181	0.75	100°	7/16-20	0.312	120°
ST1221JD-7-275	3	0.0275	0.625	0.181	0.75	100°	7/16-20	0.312	120°
ST1221JD-7-277	3	0.0277	0.625	0.181	0.75	100°	7/16-20	0.312	120°
ST1221JD-7-279	3	0.0279	0.625	0.181	0.75	100°	7/16-20	0.312	120°
ST1221JD-7-291	3	0.0291	0.625	0.181	0.75	100°	7/16-20	0.312	120°
ST1221JD-7-293	3	0.0293	0.625	0.181	0.75	100°	7/16-20	0.312	120°
ST1221JD-7-295	3	0.0295	0.625	0.181	0.75	100°	7/16-20	0.312	120°
ST1221JD-7-306	3	0.0306	0.750	0.232	0.75	100°	7/16-20	0.312	120°
ST1221JD-7-308	3	0.0308	0.750	0.232	0.75	100°	7/16-20	0.312	120°
ST1221JD-7-311	3	0.0311	0.750	0.232	0.75	100°	7/16-20	0.312	120°
ST1221JD-7-322	3	0.0322	0.750	0.232	0.75	100°	7/16-20	0.312	120°
ST1221JD-7-324	3	0.0324	0.750	0.232	0.75	100°	7/16-20	0.312	120°
ST1221JD-7-326	3	0.0326	0.750	0.232	0.75	100°	7/16-20	0.312	120°
ST1221JD-7-338	3	0.0338	0.750	0.232	0.75	100°	7/16-20	0.312	120°
ST1221JD-7-340	3	0.0340	0.750	0.232	0.75	100°	7/16-20	0.312	120°
ST1221JD-7-342	3	0.0342	0.750	0.232	0.75	100°	7/16-20	0.312	120°
ST1221JD-7-354	3	0.0354	0.750	0.232	0.75	100°	7/16-20	0.312	120°
ST1221JD-7-356	3	0.0356	0.750	0.232	0.75	100°	7/16-20	0.312	120°
ST1221JD-7-358	3	0.0358	0.750	0.232	0.75	100°	7/16-20	0.312	120°
ST1221JD-7-368	3	0.0368	0.875	0.274	1.15	100°	7/16-20	0.437	120°
ST1221JD-7-370	3	0.0370	0.875	0.274	1.15	100°	7/16-20	0.437	120°
ST1221JD-7-373	3	0.0373	0.875	0.274	1.15	100°	7/16-20	0.437	120°
ST1221JD-7-385	3	0.0385	0.875	0.274	1.15	100°	7/16-20	0.437	120°
ST1221JD-7-387	3	0.0387	0.875	0.274	1.15	100°	7/16-20	0.437	120°
ST1221JD-7-389	3	0.0389	0.875	0.274	1.15	100°	7/16-20	0.437	120°
ST1221JD-7-400	3	0.0400	0.875	0.274	1.15	100°	7/16-20	0.437	120°
ST1221JD-7-402	3	0.0402	0.875	0.274	1.15	100°	7/16-20	0.437	120°
ST1221JD-7-404	3	0.0404	0.875	0.274	1.15	100°	7/16-20	0.437	120°
ST1221JD-7-416	3	0.0416	0.875	0.274	1.15	100°	7/16-20	0.437	120°
ST1221JD-7-418	3	0.0418	0.875	0.274	1.15	100°	7/16-20	0.437	120°
ST1221JD-7-420	3	0.0420	0.875	0.274	1.15	100°	7/16-20	0.437	120°
ST1221JD-7-431	3	0.0431	1.000	0.325	1.15	100°	7/16-20	0.437	120°
ST1221JD-7-433	3	0.0433	1.000	0.325	1.15	100°	7/16-20	0.437	120°
ST1221JD-7-436	3	0.0436	1.000	0.325	1.15	100°	7/16-20	0.437	120°
ST1221JD-7-446	3	0.0446	1.000	0.325	1.15	100°	7/16-20	0.437	120°
ST1221JD-7-449	3	0.0449	1.000	0.325	1.15	100°	7/16-20	0.437	120°
ST1221JD-7-451	3	0.0451	1.000	0.325	1.15	100°	7/16-20	0.437	120°
ST1221JD-7-463	3	0.0463	1.000	0.325	1.15	100°	7/16-20	0.437	120°
ST1221JD-7-465	3	0.0465	1.000	0.325	1.15	100°	7/16-20	0.437	120°
ST1221JD-7-467	3	0.0467	1.000	0.325	1.15	100°	7/16-20	0.437	120°
ST1221JD-7-481	3	0.0481	1.000	0.325	1.15	100°	7/16-20	0.437	120°
ST1221JD-7-483	3	0.0483	1.000	0.325	1.15	100°	7/16-20	0.437	120°
ST1221JD-7-494	3	0.0494	1.125	0.366	1.15	100°	7/16-20	0.437	120°
ST1221JD-7-495	3	0.0495	1.125	0.366	1.15	100°	7/16-20	0.437	120°
ST1221JD-7-498	3	0.0498	1.125	0.366	1.15	100°	7/16-20	0.437	120°
ST1221JD-7-510	3	0.0510	1.125	0.366	1.15	100°	7/16-20	0.437	120°

ST Drill

直徑氣動擴孔鑽頭

inch

Order Code	Z	A	B	C	F	α1	THD	D	α2
ST1221JD-7-512	3	0.0512	1.125	0.366	1.15	100°	7/16-20	0.437	120°
ST1221JD-7-514	3	0.0514	1.125	0.366	1.15	100°	7/16-20	0.437	120°
ST1221JD-7-526	3	0.0526	1.125	0.366	1.15	100°	7/16-20	0.437	120°
ST1221JD-7-527	3	0.0527	1.125	0.366	1.15	100°	7/16-20	0.437	120°
ST1221JD-7-529	3	0.0529	1.125	0.366	1.15	100°	7/16-20	0.437	120°
ST1221JD-7-543	3	0.0543	1.125	0.366	1.15	100°	7/16-20	0.437	120°
ST1221JD-7-545	3	0.0545	1.125	0.366	1.15	100°	7/16-20	0.437	120°
ST1221JD-7-556	3	0.0556	1.250	0.417	1.15	100°	7/16-20	0.437	120°
ST1221JD-7-558	3	0.0558	1.250	0.417	1.15	100°	7/16-20	0.437	120°
ST1221JD-7-561	3	0.0561	1.250	0.417	1.15	100°	7/16-20	0.437	120°
ST1221JD-7-572	3	0.0572	1.250	0.417	1.15	100°	7/16-20	0.437	120°
ST1221JD-7-574	3	0.0574	1.250	0.417	1.15	100°	7/16-20	0.437	120°
ST1221JD-7-576	3	0.0576	1.250	0.417	1.15	100°	7/16-20	0.437	120°
ST1221JD-7-587	3	0.0587	1.250	0.417	1.15	100°	7/16-20	0.437	120°
ST1221JD-7-590	3	0.0590	1.250	0.417	1.15	100°	7/16-20	0.437	120°
ST1221JD-7-592	3	0.0592	1.250	0.417	1.15	100°	7/16-20	0.437	120°
ST1221JD-7-605	3	0.0605	1.250	0.417	1.15	100°	7/16-20	0.437	120°
ST1221JD-7-607	3	0.0607	1.250	0.417	1.15	100°	7/16-20	0.437	120°
ST1221JD-7-618	3	0.0618	1.375	0.458	1.15	100°	7/16-20	0.437	120°
ST1221JD-7-620	3	0.0620	1.375	0.458	1.15	100°	7/16-20	0.437	120°
ST1221JD-7-623	3	0.0623	1.375	0.458	1.15	100°	7/16-20	0.437	120°
ST1221JD-7-634	3	0.0634	1.375	0.458	1.15	100°	7/16-20	0.437	120°
ST1221JD-7-636	3	0.0636	1.375	0.458	1.15	100°	7/16-20	0.437	120°
ST1221JD-7-639	3	0.0639	1.375	0.458	1.15	100°	7/16-20	0.437	120°
ST1221JD-7-650	3	0.0650	1.375	0.458	1.15	100°	7/16-20	0.437	120°
ST1221JD-7-652	3	0.0652	1.375	0.458	1.15	100°	7/16-20	0.437	120°
ST1221JD-7-654	3	0.0654	1.375	0.458	1.15	100°	7/16-20	0.437	120°
ST1221JD-7-668	3	0.0668	1.375	0.458	1.15	100°	7/16-20	0.437	120°
ST1221JD-7-670	3	0.0670	1.375	0.458	1.15	100°	7/16-20	0.437	120°
ST1221JD-7-743	3	0.0743	1.750	0.551	1.25	100°	7/16-20	0.437	120°
ST1221JD-7-745	3	0.0745	1.750	0.551	1.25	100°	7/16-20	0.437	120°
ST1221JD-7-748	3	0.0748	1.750	0.551	1.25	100°	7/16-20	0.437	120°
ST1221JD-7-759	3	0.0759	1.750	0.551	1.25	100°	7/16-20	0.437	120°
ST1221JD-7-775	3	0.0775	1.750	0.551	1.25	100°	7/16-20	0.437	120°
ST1221JD-7-873	3	0.0873	1.750	0.551	1.25	100°	7/16-20	0.437	120°
ST1221JD-7-998	3	0.0998	1.750	0.625	1.25	100°	7/16-20	0.500	120°