

TRANRICH[®]

THE PREMIUM TOOLS

**DON'T
BUY**
FROM US
★ UNLESS ★
YOU ARE READY
— FOR —
SUCCESS

High Performance Cutting Tools
High Precision Measuring Tools
Innovative Solutions for the
Metalworking Industries

2024/25 CATALOG

ABOUT TRANRICH

THE TRANRICH WAY

TRANRICH VALUES

Our values guide all of our interactions with our customers, co-workers, and communities.



INTEGRITY

- **ENERGIZE** — create a vision and inspire others, communicate with impact, foster teamwork and collaboration.



CUSTOMER FOCUSED

- **INNOVATE** — foster innovation, deliver continuous improvement, and challenge the status quo.



PASSIONATE

- **LEARN** — adapt and learn, coach and develop ourselves and others.



LEARNING AND COMPETENCE

- **EXECUTE RESULTS** — deliver on our commitments, focus on the customer, get things done safely.



ACCOUNTABILITY



We Sichuan Tranrich Abrasives Co., Ltd is one well-known professional distributor of high performance cutting and measuring tools for metalworking industry. Quality products are backed by our ingenuity, integrity, sincerity, excellent customer service. Our goal is to assist our customers in growing their business year-over-year and improving productivity by helping them and machinery work more efficiently. We help our customers drive greater productivity, profitability and growth. Our tools, materials and wear-resistant solutions enable customers to run longer, cut faster and measure with greater precision. We work to provide you with high performing, quality products that enable you to accomplish all you need to do with ease and efficiency. We do not just sell a product; we deliver a solution. For more information on Tranrich , please visit www.tranrich.com.

PEXCRAFT[®]

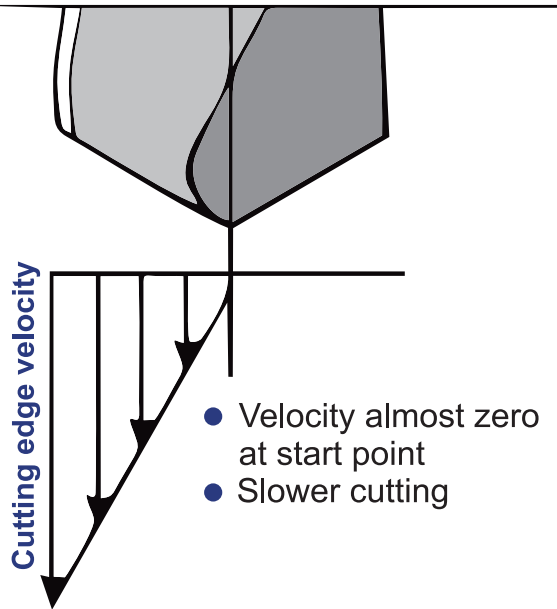
CRJ

C&GFLEX
Cutting, Grinding & Polishing Master

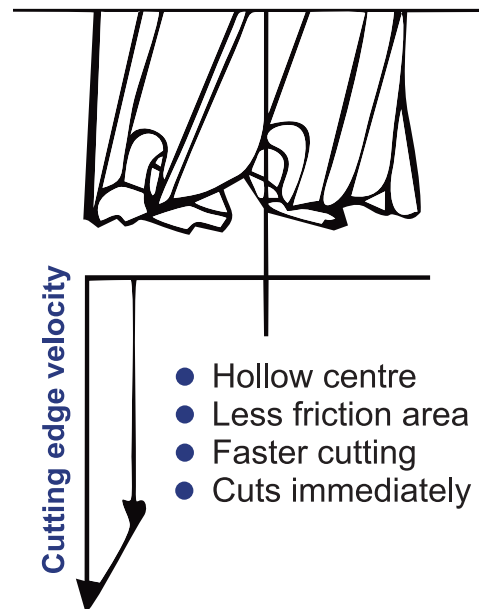
TRANRICH **TRANSHARP**[®]



Twist drill bit

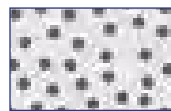
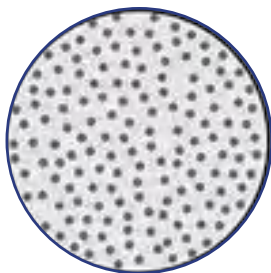
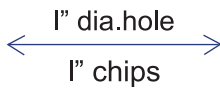


Annular Cutter



Conventional Twist Drill VS. Annular Bits Metal Removal

Conventional Twist Drill

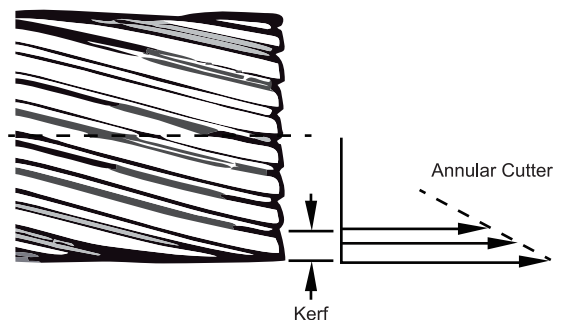
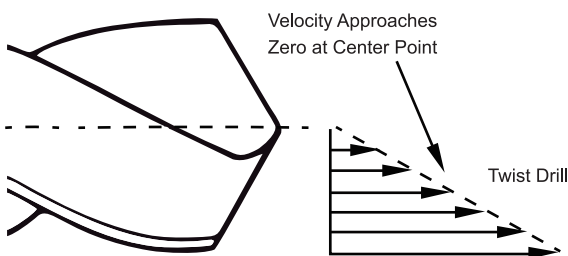
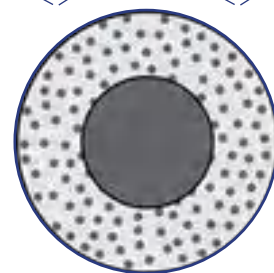
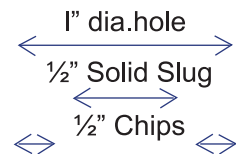


Chips



Solid Slug

Annular Cutter



The drills from this series have outstanding heat resistance and wear protection. In combination with speed-controlled BDS magnetic core drilling machines, they are suitable for machining fine-grained steels and rustproof materials. BDS recommends the BDS 5000 cutting oil for machining stainless steel.



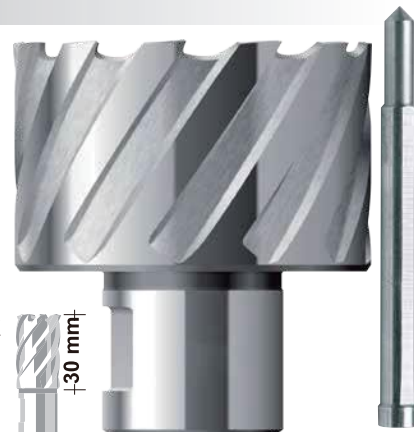
HSS-CO Annular Bits

- > 30 mm cutting depth
- > 19 mm weldon shank (3/4")



HSS-CO Annular Bits

- > 30 mm cutting depth
- > 32 mm weldon shank (1 1/4")



Ø mm	Order No.	Ø mm	Order No.
12	CRJ24-16881008	36	CRJ24-16881034
13	CRJ24-16881009	37	CRJ24-16881035
14	CRJ24-16881010	38	CRJ24-16881036
15	CRJ24-16881011	39	CRJ24-16881037
16	CRJ24-16881012	40	CRJ24-16881038
17	CRJ24-16881013	41	CRJ24-16881039
17.5	CRJ24-16881014	42	CRJ24-16881040
18	CRJ24-16881015	43	CRJ24-16881041
19	CRJ24-16881016	44	CRJ24-16881042
19.5	CRJ24-16881017	45	CRJ24-16881043
20	CRJ24-16881018	46	CRJ24-16881044
21	CRJ24-16881019	47	CRJ24-16881045
22	CRJ24-16881020	48	CRJ24-16881046
23	CRJ24-16881021	49	CRJ24-16881047
24	CRJ24-16881022	50	CRJ24-16881048
25	CRJ24-16881023	51	CRJ24-16881049
26	CRJ24-16881024	52	CRJ24-16881050
27	CRJ24-16881025	53	CRJ24-16881051
28	CRJ24-16881026	54	CRJ24-16881052
29	CRJ24-16881027	55	CRJ24-16881053
30	CRJ24-16881028	56	CRJ24-16881054
31	CRJ24-16881029	57	CRJ24-16881055
32	CRJ24-16881030	58	CRJ24-16881056
33	CRJ24-16881031	59	CRJ24-16881057
34	CRJ24-16881032	60	CRJ24-16881058
35	CRJ24-16881033		

Ø mm	Order No.	Ø mm	Order No.
61	CRJ24-16881059	84	CRJ24-16881082
62	CRJ24-16881060	85	CRJ24-16881083
63	CRJ24-16881061	86	CRJ24-16881084
64	CRJ24-16881062	87	CRJ24-16881085
65	CRJ24-16881063	88	CRJ24-16881086
66	CRJ24-16881064	89	CRJ24-16881087
67	CRJ24-16881065	90	CRJ24-16881088
68	CRJ24-16881066	91	CRJ24-16881089
69	CRJ24-16881067	92	CRJ24-16881090
70	CRJ24-16881068	93	CRJ24-16881091
71	CRJ24-16881069	94	CRJ24-16881092
72	CRJ24-16881070	95	CRJ24-16881093
73	CRJ24-16881071	96	CRJ24-16881094
74	CRJ24-16881072	97	CRJ24-16881095
75	CRJ24-16881073	98	CRJ24-16881096
76	CRJ24-16881074	99	CRJ24-16881097
77	CRJ24-16881075	100	CRJ24-16881098
78	CRJ24-16881076	105	CRJ24-16881099
79	CRJ24-16881077	110	CRJ24-16881100
80	CRJ24-16881078	115	CRJ24-16881101
81	CRJ24-16881079	120	CRJ24-16881102
82	CRJ24-16881080	125	CRJ24-16881103
83	CRJ24-16881081	130	CRJ24-16881104

- Fully ground core drills
- Made from high-performance high-speed steel.

HSS-CO Annular Bits

- > 55 mm cutting depth
- > 19 mm weldon shank (3/4")



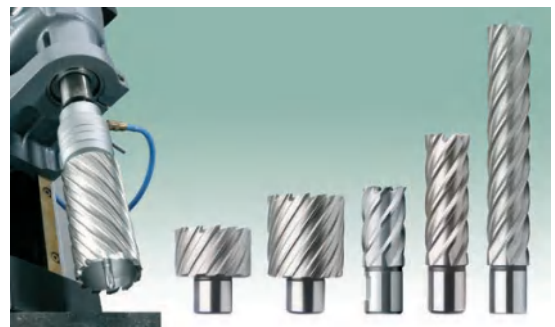
HSS-CO Annular Bits

- > 55 mm cutting depth
- > 32 mm weldon shank (1 1/4")



Ø mm	Order No.	Ø mm	Order No.
12	CRJ24-16881105	36	CRJ24-16881131
13	CRJ24-16881106	37	CRJ24-16881132
14	CRJ24-16881107	38	CRJ24-16881133
15	CRJ24-16881108	39	CRJ24-16881134
16	CRJ24-16881109	40	CRJ24-16881135
17	CRJ24-16881110	41	CRJ24-16881136
17.5	CRJ24-16881111	42	CRJ24-16881137
18	CRJ24-16881112	43	CRJ24-16881138
19	CRJ24-16881113	44	CRJ24-16881139
19.5	CRJ24-16881114	45	CRJ24-16881140
20	CRJ24-16881115	46	CRJ24-16881141
21	CRJ24-16881116	47	CRJ24-16881142
22	CRJ24-16881117	48	CRJ24-16881143
23	CRJ24-16881118	49	CRJ24-16881144
24	CRJ24-16881119	50	CRJ24-16881145
25	CRJ24-16881120	51	CRJ24-16881146
26	CRJ24-16881121	52	CRJ24-16881147
27	CRJ24-16881122	53	CRJ24-16881148
28	CRJ24-16881123	54	CRJ24-16881149
29	CRJ24-16881124	55	CRJ24-16881150
30	CRJ24-16881125	56	CRJ24-16881151
31	CRJ24-16881126	57	CRJ24-16881152
32	CRJ24-16881127	58	CRJ24-16881153
33	CRJ24-16881128	59	CRJ24-16881154
34	CRJ24-16881129	60	CRJ24-16881155
35	CRJ24-16881130		

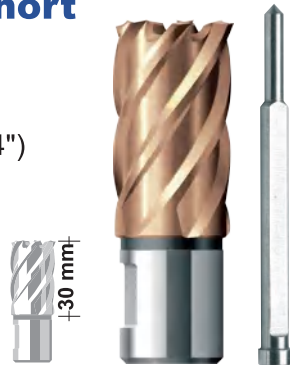
Ø mm	Order No.	Ø mm	Order No.
61	CRJ24-16881156	81	CRJ24-16881176
62	CRJ24-16881157	82	CRJ24-16881177
63	CRJ24-16881158	83	CRJ24-16881178
64	CRJ24-16881159	84	CRJ24-16881179
65	CRJ24-16881160	85	CRJ24-16881180
66	CRJ24-16881161	86	CRJ24-16881181
67	CRJ24-16881162	87	CRJ24-16881182
68	CRJ24-16881163	88	CRJ24-16881183
69	CRJ24-16881164	89	CRJ24-16881184
70	CRJ24-16881165	90	CRJ24-16881185
71	CRJ24-16881166	91	CRJ24-16881186
72	CRJ24-16881167	92	CRJ24-16881187
73	CRJ24-16881168	93	CRJ24-16881188
74	CRJ24-16881169	94	CRJ24-16881189
75	CRJ24-16881170	95	CRJ24-16881190
76	CRJ24-16881171	96	CRJ24-16881191
77	CRJ24-16881172	97	CRJ24-16881192
78	CRJ24-16881173	98	CRJ24-16881193
79	CRJ24-16881174	99	CRJ24-16881194
80	CRJ24-16881175	100	CRJ24-16881195



Fully ground core drills made from high-performance high-speed steel with carbide coating. High economic efficiency due to longer service life, greater safety during work thanks to excellent discharge of chips, particularly for long core drills. BDS recommends the BDS 5000 high-performance cutting oil.

HSS-VarioPLUS short Annular Bits

- > 30 mm cutting depth
- > 19 mm weldon shank (3/4")



HSS-VarioPLUS long Annular Bits

- > 55 mm cutting depth
- > 19 mm weldon shank (3/4")



Ø mm	Order No.	Ø mm	Order No.
12	CRJ24-16881196	36	CRJ24-16881222
13	CRJ24-16881197	37	CRJ24-16881223
14	CRJ24-16881198	38	CRJ24-16881224
15	CRJ24-16881199	39	CRJ24-16881225
16	CRJ24-16881200	40	CRJ24-16881226
17	CRJ24-16881201	41	CRJ24-16881227
17.5	CRJ24-16881202	42	CRJ24-16881228
18	CRJ24-16881203	43	CRJ24-16881229
19	CRJ24-16881204	44	CRJ24-16881230
19.5	CRJ24-16881205	45	CRJ24-16881231
20	CRJ24-16881206	46	CRJ24-16881232
21	CRJ24-16881207	47	CRJ24-16881233
22	CRJ24-16881208	48	CRJ24-16881234
23	CRJ24-16881209	49	CRJ24-16881235
24	CRJ24-16881210	50	CRJ24-16881236
25	CRJ24-16881211	51	CRJ24-16881237
26	CRJ24-16881212	52	CRJ24-16881238
27	CRJ24-16881213	53	CRJ24-16881239
28	CRJ24-16881214	54	CRJ24-16881240
29	CRJ24-16881215	55	CRJ24-16881241
30	CRJ24-16881216	56	CRJ24-16881242
31	CRJ24-16881217	57	CRJ24-16881243
32	CRJ24-16881218	58	CRJ24-16881244
33	CRJ24-16881219	59	CRJ24-16881245
34	CRJ24-16881220	60	CRJ24-16881246
35	CRJ24-16881221		

Ø mm	Order No.	Ø mm	Order No.
12	CRJ24-16881247	36	CRJ24-16881273
13	CRJ24-16881248	37	CRJ24-16881274
14	CRJ24-16881249	38	CRJ24-16881275
15	CRJ24-16881250	39	CRJ24-16881276
16	CRJ24-16881251	40	CRJ24-16881277
17	CRJ24-16881252	41	CRJ24-16881278
17.5	CRJ24-16881253	42	CRJ24-16881279
18	CRJ24-16881254	43	CRJ24-16881280
19	CRJ24-16881255	44	CRJ24-16881281
19.5	CRJ24-16881256	45	CRJ24-16881282
20	CRJ24-16881257	46	CRJ24-16881283
21	CRJ24-16881258	47	CRJ24-16881284
22	CRJ24-16881259	48	CRJ24-16881285
23	CRJ24-16881260	49	CRJ24-16881286
24	CRJ24-16881261	50	CRJ24-16881287
25	CRJ24-16881262	51	CRJ24-16881288
26	CRJ24-16881263	52	CRJ24-16881289
27	CRJ24-16881264	53	CRJ24-16881290
28	CRJ24-16881265	54	CRJ24-16881291
29	CRJ24-16881266	55	CRJ24-16881292
30	CRJ24-16881267	56	CRJ24-16881293
31	CRJ24-16881268	57	CRJ24-16881294
32	CRJ24-16881269	58	CRJ24-16881295
33	CRJ24-16881270	59	CRJ24-16881296
34	CRJ24-16881271	60	CRJ24-16881297
35	CRJ24-16881272		

The basic core drill range for professional use. Fully ground core drill made from high-performance high-speed steel on CNC-controlled grinding centres, with good discharge of chips. Drilling with minimal effort. For working on a horizontal plane, BDS recommends the BDS 5200 high-performance lubrication spray.

HSS Standard short Annular Bits

- > 30 mm cutting depth
- > 19 mm weldon shank (3/4")



HSS- Standard long Annular Bits

- > 55 mm cutting depth
- > 19 mm weldon shank (3/4")



Ø mm	Order No.	Ø mm	Order No.
12	CRJ24-16881298	36	CRJ24-16881324
13	CRJ24-16881299	37	CRJ24-16881325
14	CRJ24-16881300	38	CRJ24-16881326
15	CRJ24-16881301	39	CRJ24-16881327
16	CRJ24-16881302	40	CRJ24-16881328
17	CRJ24-16881303	41	CRJ24-16881329
17.5	CRJ24-16881304	42	CRJ24-16881330
18	CRJ24-16881305	43	CRJ24-16881331
19	CRJ24-16881306	44	CRJ24-16881332
19.5	CRJ24-16881307	45	CRJ24-16881333
20	CRJ24-16881308	46	CRJ24-16881334
21	CRJ24-16881309	47	CRJ24-16881335
22	CRJ24-16881310	48	CRJ24-16881336
23	CRJ24-16881311	49	CRJ24-16881337
24	CRJ24-16881312	50	CRJ24-16881338
25	CRJ24-16881313	51	CRJ24-16881339
26	CRJ24-16881314	52	CRJ24-16881340
27	CRJ24-16881315	53	CRJ24-16881341
28	CRJ24-16881316	54	CRJ24-16881342
29	CRJ24-16881317	55	CRJ24-16881343
30	CRJ24-16881318	56	CRJ24-16881344
31	CRJ24-16881319	57	CRJ24-16881345
32	CRJ24-16881320	58	CRJ24-16881346
33	CRJ24-16881321	59	CRJ24-16881347
34	CRJ24-16881322	60	CRJ24-16881348
35	CRJ24-16881323		

Ø mm	Order No.	Ø mm	Order No.
12	CRJ24-16881349	36	CRJ24-16881375
13	CRJ24-16881350	37	CRJ24-16881376
14	CRJ24-16881351	38	CRJ24-16881377
15	CRJ24-16881352	39	CRJ24-16881378
16	CRJ24-16881353	40	CRJ24-16881379
17	CRJ24-16881354	41	CRJ24-16881380
17.5	CRJ24-16881355	42	CRJ24-16881381
18	CRJ24-16881356	43	CRJ24-16881382
19	CRJ24-16881357	44	CRJ24-16881383
19.5	CRJ24-16881358	45	CRJ24-16881384
20	CRJ24-16881359	46	CRJ24-16881385
21	CRJ24-16881360	47	CRJ24-16881386
22	CRJ24-16881361	48	CRJ24-16881387
23	CRJ24-16881362	49	CRJ24-16881388
24	CRJ24-16881363	50	CRJ24-16881389
25	CRJ24-16881364	51	CRJ24-16881390
26	CRJ24-16881365	52	CRJ24-16881391
27	CRJ24-16881366	53	CRJ24-16881392
28	CRJ24-16881367	54	CRJ24-16881393
29	CRJ24-16881368	55	CRJ24-16881394
30	CRJ24-16881369	56	CRJ24-16881395
31	CRJ24-16881370	57	CRJ24-16881396
32	CRJ24-16881371	58	CRJ24-16881397
33	CRJ24-16881372	59	CRJ24-16881398
34	CRJ24-16881373	60	CRJ24-16881399
35	CRJ24-16881374		



HSS-Standard, Inches

Fully ground core drills
Made from high-performance high-speed steel.

HSS Standard Annular Bits Short

- > 30 mm cutting depth
- > 19 mm weldon shank (3/4")



Ø mm	Order No.	Ø mm	Order No.
12.700	CRJ24-16881400	33.338	CRJ24-16881413
14.288	CRJ24-16881401	34.925	CRJ24-16881414
15.875	CRJ24-16881402	36.513	CRJ24-16881415
17.463	CRJ24-16881403	38.100	CRJ24-16881416
19.050	CRJ24-16881404	39.688	CRJ24-16881417
20.638	CRJ24-16881405	41.276	CRJ24-16881418
22.225	CRJ24-16881406	42.863	CRJ24-16881419
23.813	CRJ24-16881407	44.450	CRJ24-16881420
25.400	CRJ24-16881408	46.038	CRJ24-16881421
26.988	CRJ24-16881409	47.625	CRJ24-16881422
28.575	CRJ24-16881410	49.213	CRJ24-16881423
30.136	CRJ24-16881411	50.800	CRJ24-16881424
31.750	CRJ24-16881412	52.388	CRJ24-16881425

HSS-Standard

Fully groundcore drills
Made from high-performance high-speed steel.

HSS Standard Annular Bits Extralong

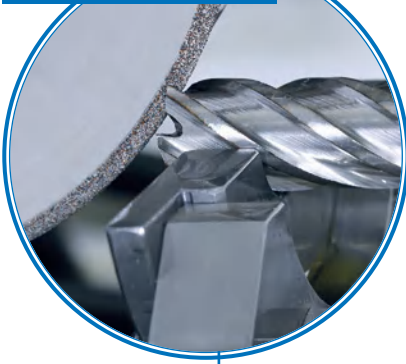
- > 110 mm cutting depth
- > 19 mm weldon shank (3/4")



Ø mm	Order No.	Ø mm	Order No.
20	CRJ24-16881426	36	CRJ24-16881442
21	CRJ24-16881427	37	CRJ24-16881443
22	CRJ24-16881428	38	CRJ24-16881444
23	CRJ24-16881429	39	CRJ24-16881445
24	CRJ24-16881430	40	CRJ24-16881446
25	CRJ24-16881431	41	CRJ24-16881447
26	CRJ24-16881432	42	CRJ24-16881448
27	CRJ24-16881433	43	CRJ24-16881449
28	CRJ24-16881434	44	CRJ24-16881450
29	CRJ24-16881435	45	CRJ24-16881451
30	CRJ24-16881436	46	CRJ24-16881452
31	CRJ24-16881437	47	CRJ24-16881453
32	CRJ24-16881438	48	CRJ24-16881454
33	CRJ24-16881439	49	CRJ24-16881455
34	CRJ24-16881440	50	CRJ24-16881456
35	CRJ24-16881441		

Quality features that make the difference.

Grinding the end teeth



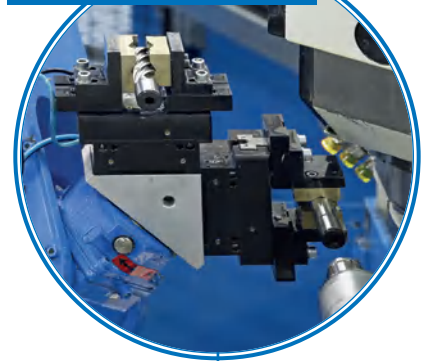
Modern CNC-controlled grinding centres ensure consistent quality.

Perfect cylindrical grinding



Maximum concentricity and a high degree of dimensional stability are guaranteed by the latest generation of cylindrical grinding machines.

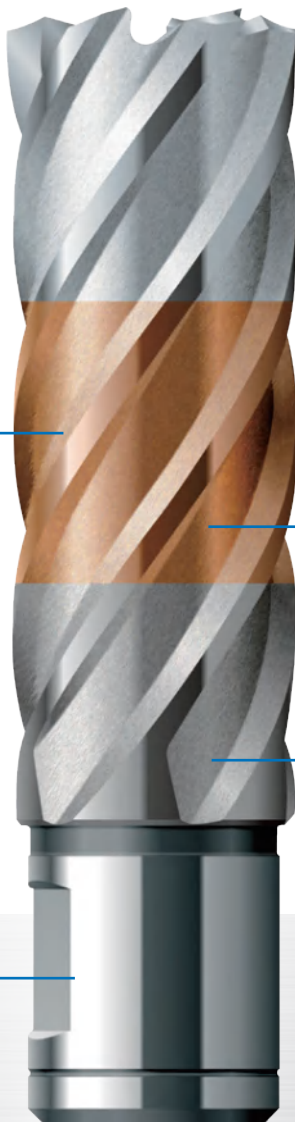
Manufacture of chip flute



Optimised work processes and quick loading operations with loading robots speed up the work process.

VarioPLUS coating

The VarioPLUS developed for BDS provides an additional protective layer on the tools. A hard coating provides a high degree of heat resistance and increased hardness of the coating.



From the first to the last cut!

HSSCo 8%, HSS-VarioPLUS and HSS-BDS fully ground core drills



Unprocessed round bar



Mechanically processed



Hardened



Ground to external dimension



Ground with flute and end tooth



Coated VarioPLUS core drills

BDS carbide-tipped core drills. Series with cutting depths of 30 mm, 35 mm, 55 mm, 75 mm and 110 mm and almost stepless graduations of the diameter from Ø 12 mm to Ø 150 mm. BDS recommends the BDS 6000 high-performance cooling lubricant concentrate for machining stainless steel and nonferrous metals.

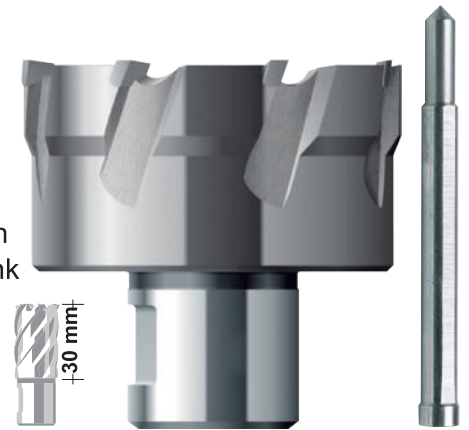
Carbide (TCT) Annular Bits Short

- > 30 mm cutting depth
- > 19 mm weldon shank (3/4")



Carbide (TCT) Annular Bits Short

- > 30 mm cutting depth
- > 32 mm weldon shank (1 1/4")



Ø mm	Order No.	Ø mm	Order No.
12	CRJ24-16881456	37	CRJ24-16881481
13	CRJ24-16881457	38	CRJ24-16881482
14	CRJ24-16881458	39	CRJ24-16881483
15	CRJ24-16881459	40	CRJ24-16881484
16	CRJ24-16881460	41	CRJ24-16881485
17	CRJ24-16881461	42	CRJ24-16881486
18	CRJ24-16881462	43	CRJ24-16881487
19	CRJ24-16881463	44	CRJ24-16881488
20	CRJ24-16881464	45	CRJ24-16881489
21	CRJ24-16881465	46	CRJ24-16881490
22	CRJ24-16881466	47	CRJ24-16881491
23	CRJ24-16881467	48	CRJ24-16881492
24	CRJ24-16881468	49	CRJ24-16881493
25	CRJ24-16881469	50	CRJ24-16881494
26	CRJ24-16881470	51	CRJ24-16881495
27	CRJ24-16881471	52	CRJ24-16881496
28	CRJ24-16881472	53	CRJ24-16881497
29	CRJ24-16881473	54	CRJ24-16881498
30	CRJ24-16881474	55	CRJ24-16881499
31	CRJ24-16881475	56	CRJ24-16881500
32	CRJ24-16881476	57	CRJ24-16881501
33	CRJ24-16881477	58	CRJ24-16881502
34	CRJ24-16881478	59	CRJ24-16881503
35	CRJ24-16881479	60	CRJ24-16881504
36	CRJ24-16881480		

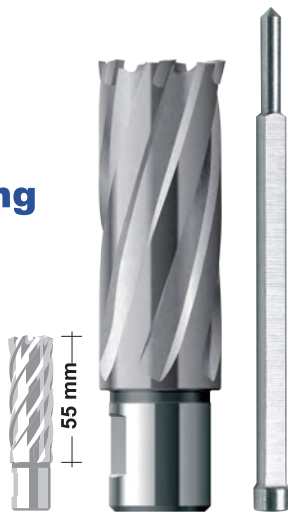
Ø mm	Order No.	Ø mm	Order No.
61	CRJ24-16881505	86	CRJ24-16881530
62	CRJ24-16881506	87	CRJ24-16881531
63	CRJ24-16881507	88	CRJ24-16881532
64	CRJ24-16881508	89	CRJ24-16881533
65	CRJ24-16881509	90	CRJ24-16881534
66	CRJ24-16881510	91	CRJ24-16881535
67	CRJ24-16881511	92	CRJ24-16881536
68	CRJ24-16881512	93	CRJ24-16881537
69	CRJ24-16881513	94	CRJ24-16881538
70	CRJ24-16881514	95	CRJ24-16881539
71	CRJ24-16881515	96	CRJ24-16881540
72	CRJ24-16881516	97	CRJ24-16881541
73	CRJ24-16881517	98	CRJ24-16881542
74	CRJ24-16881518	99	CRJ24-16881543
75	CRJ24-16881519	100	CRJ24-16881544
76	CRJ24-16881520	105	CRJ24-16881545
77	CRJ24-16881521	110	CRJ24-16881546
78	CRJ24-16881522	115	CRJ24-16881547
79	CRJ24-16881523	120	CRJ24-16881548
80	CRJ24-16881524	125	CRJ24-16881549
81	CRJ24-16881525	130	CRJ24-16881550
82	CRJ24-16881526	135	CRJ24-16881551
83	CRJ24-16881527	140	CRJ24-16881552
84	CRJ24-16881528	145	CRJ24-16881553
85	CRJ24-16881529	150	CRJ24-16881554

Carbide (TCT)

Tungsten Carbide Tip Core Drills

Carbide (TCT) Annular Bits Long

- > 55 mm cutting depth
- > 19 mm weldon shank (3/4")



Carbide (TCT) Annular Bits Long

- > 55 mm cutting depth
- > 32 mm weldon shank (1 1/4")

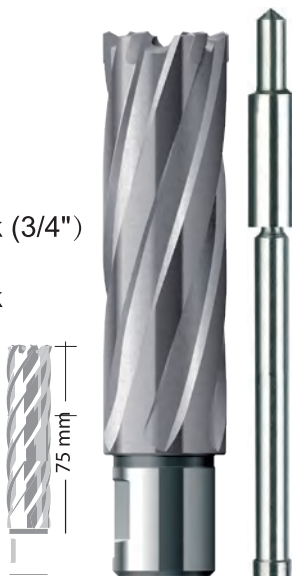


Ø mm	Order No.	Ø mm	Order No.
12	CRJ24-16881555	37	CRJ24-16881580
13	CRJ24-16881556	38	CRJ24-16881581
14	CRJ24-16881557	39	CRJ24-16881582
15	CRJ24-16881558	40	CRJ24-16881583
16	CRJ24-16881559	41	CRJ24-16881584
17	CRJ24-16881560	42	CRJ24-16881585
18	CRJ24-16881561	43	CRJ24-16881586
19	CRJ24-16881562	44	CRJ24-16881587
20	CRJ24-16881563	45	CRJ24-16881588
21	CRJ24-16881564	46	CRJ24-16881589
22	CRJ24-16881565	47	CRJ24-16881590
23	CRJ24-16881566	48	CRJ24-16881591
24	CRJ24-16881567	49	CRJ24-16881592
25	CRJ24-16881568	50	CRJ24-16881593
26	CRJ24-16881569	51	CRJ24-16881594
27	CRJ24-16881570	52	CRJ24-16881595
28	CRJ24-16881571	53	CRJ24-16881596
29	CRJ24-16881572	54	CRJ24-16881597
30	CRJ24-16881573	55	CRJ24-16881598
31	CRJ24-16881574	56	CRJ24-16881599
32	CRJ24-16881575	57	CRJ24-16881600
33	CRJ24-16881576	58	CRJ24-16881601
34	CRJ24-16881577	59	CRJ24-16881602
35	CRJ24-16881578	60	CRJ24-16881603
36	CRJ24-16881579		

Ø mm	Order No.	Ø mm	Order No.
61	CRJ24-16881604	81	CRJ24-16881624
62	CRJ24-16881605	82	CRJ24-16881625
63	CRJ24-16881606	83	CRJ24-16881626
64	CRJ24-16881607	84	CRJ24-16881627
65	CRJ24-16881608	85	CRJ24-16881628
66	CRJ24-16881609	86	CRJ24-16881629
67	CRJ24-16881610	87	CRJ24-16881630
68	CRJ24-16881611	88	CRJ24-16881631
69	CRJ24-16881612	89	CRJ24-16881632
70	CRJ24-16881613	90	CRJ24-16881633
71	CRJ24-16881614	91	CRJ24-16881634
72	CRJ24-16881615	92	CRJ24-16881635
73	CRJ24-16881616	93	CRJ24-16881636
74	CRJ24-16881617	94	CRJ24-16881637
75	CRJ24-16881618	95	CRJ24-16881638
76	CRJ24-16881619	96	CRJ24-16881639
77	CRJ24-16881620	97	CRJ24-16881640
78	CRJ24-16881621	98	CRJ24-16881641
79	CRJ24-16881622	99	CRJ24-16881642
80	CRJ24-16881623	100	CRJ24-16881643

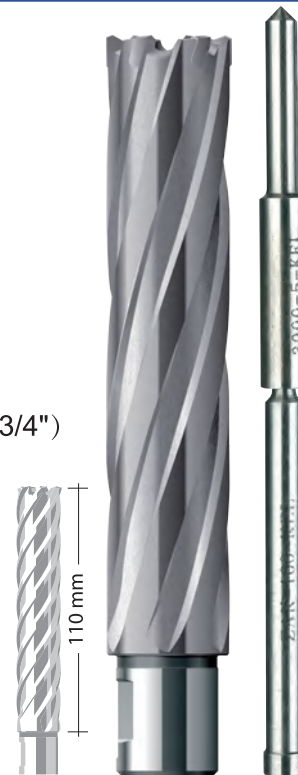
Carbide (TCT) Annular Bits Overlong

- > 75 mm cutting depth
- > up to ø 60 mm:
19 mm weldon shank (3/4")
- > from ø 61 mm:
32 mm weldon shank (1 1/4")



Carbide (TCT) Annular Bits Overlong

- > 110 mm cutting depth
- > up to ø 60 mm:
19 mm weldon shank (3/4")
- > from ø 61 mm:
32 mm weldon shank (1 1/4")



Ø mm	Order No.	Ø mm	Order No.
18	CRJ24-16881644	44	CRJ24-16881670
19	CRJ24-16881645	45	CRJ24-16881671
20	CRJ24-16881646	46	CRJ24-16881672
21	CRJ24-16881647	47	CRJ24-16881673
22	CRJ24-16881648	48	CRJ24-16881674
23	CRJ24-16881649	49	CRJ24-16881675
24	CRJ24-16881650	50	CRJ24-16881676
25	CRJ24-16881651	51	CRJ24-16881677
26	CRJ24-16881652	52	CRJ24-16881678
27	CRJ24-16881653	53	CRJ24-16881679
28	CRJ24-16881654	54	CRJ24-16881680
29	CRJ24-16881655	55	CRJ24-16881681
30	CRJ24-16881656	56	CRJ24-16881682
31	CRJ24-16881657	57	CRJ24-16881683
32	CRJ24-16881658	58	CRJ24-16881684
33	CRJ24-16881659	59	CRJ24-16881685
34	CRJ24-16881660	60	CRJ24-16881686
35	CRJ24-16881661	65	CRJ24-16881687
36	CRJ24-16881662	70	CRJ24-16881688
37	CRJ24-16881663	75	CRJ24-16881689
38	CRJ24-16881664	80	CRJ24-16881690
39	CRJ24-16881665	90	CRJ24-16881691
40	CRJ24-16881666	100	CRJ24-16881692
41	CRJ24-16881667	110	CRJ24-16881693
42	CRJ24-16881668	120	CRJ24-16881694
43	CRJ24-16881669		

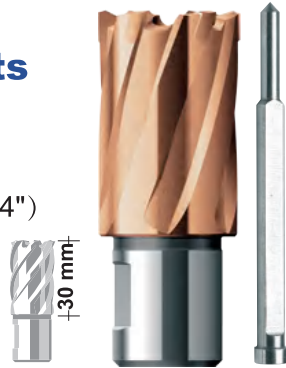
Ø mm	Order No.	Ø mm	Order No.
20	CRJ24-16881695	45	CRJ24-16881720
21	CRJ24-16881696	46	CRJ24-16881721
22	CRJ24-16881697	47	CRJ24-16881722
23	CRJ24-16881698	48	CRJ24-16881723
24	CRJ24-16881699	49	CRJ24-16881724
25	CRJ24-16881700	50	CRJ24-16881725
26	CRJ24-16881701	51	CRJ24-16881726
27	CRJ24-16881702	52	CRJ24-16881727
28	CRJ24-16881703	53	CRJ24-16881728
29	CRJ24-16881704	54	CRJ24-16881729
30	CRJ24-16881705	55	CRJ24-16881730
31	CRJ24-16881706	56	CRJ24-16881731
32	CRJ24-16881707	57	CRJ24-16881732
33	CRJ24-16881708	58	CRJ24-16881733
34	CRJ24-16881709	59	CRJ24-16881734
35	CRJ24-16881710	60	CRJ24-16881735
36	CRJ24-16881711	65	CRJ24-16881736
37	CRJ24-16881712	70	CRJ24-16881737
38	CRJ24-16881713	75	CRJ24-16881738
39	CRJ24-16881714	80	CRJ24-16881739
40	CRJ24-16881715	90	CRJ24-16881740
41	CRJ24-16881716	100	CRJ24-16881741
42	CRJ24-16881717	110	CRJ24-16881742
43	CRJ24-16881718	120	CRJ24-16881743
44	CRJ24-16881719		

Carbide-PLUS

Carbide tipped core drills with carbide coating.

Carbide-PLUS Short Annular Bits

- > 30 mm cutting depth
- > 19 mm weldon shank (3/4")

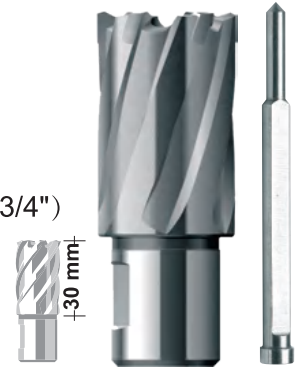


Carbide-RAIL

Carbide-tipped core drills for railway track drilling

Carbide-RAIL Annular Bits

- > 30 mm cutting depth
- > 19 mm weldon shank (3/4")



Ø mm	Order No.	Ø mm	Order No.
14	CRJ24-16881744	38	CRJ24-16881768
15	CRJ24-16881745	39	CRJ24-16881769
16	CRJ24-16881746	40	CRJ24-16881770
17	CRJ24-16881747	41	CRJ24-16881771
18	CRJ24-16881748	42	CRJ24-16881772
19	CRJ24-16881749	43	CRJ24-16881773
20	CRJ24-16881750	44	CRJ24-16881774
21	CRJ24-16881751	45	CRJ24-16881775
22	CRJ24-16881752	46	CRJ24-16881776
23	CRJ24-16881753	47	CRJ24-16881777
24	CRJ24-16881754	48	CRJ24-16881778
25	CRJ24-16881755	49	CRJ24-16881779
26	CRJ24-16881756	50	CRJ24-16881780
27	CRJ24-16881757	51	CRJ24-16881781
28	CRJ24-16881758	52	CRJ24-16881782
29	CRJ24-16881759	53	CRJ24-16881783
30	CRJ24-16881760	54	CRJ24-16881784
31	CRJ24-16881761	55	CRJ24-16881785
32	CRJ24-16881762	56	CRJ24-16881786
33	CRJ24-16881763	57	CRJ24-16881787
34	CRJ24-16881764	58	CRJ24-16881788
35	CRJ24-16881765	59	CRJ24-16881789
36	CRJ24-16881766	60	CRJ24-16881790
37	CRJ24-16881767		

Ø mm	Order No.	Ø mm	Order No.
17	CRJ24-16881791	27	CRJ24-16881801
18	CRJ24-16881792	28	CRJ24-16881802
19	CRJ24-16881793	29	CRJ24-16881803
20	CRJ24-16881794	30	CRJ24-16881804
21	CRJ24-16881795	31	CRJ24-16881805
22	CRJ24-16881796	32	CRJ24-16881806
23	CRJ24-16881797	33	CRJ24-16881807
24	CRJ24-16881798	34	CRJ24-16881808
25	CRJ24-16881799	35	CRJ24-16881809
26	CRJ24-16881800	36	CRJ24-16881810

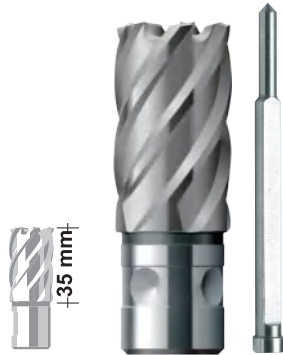


Quick-In HSS-CO

Core drills made from tool steel with high cobalt content, for increased heat resistance and wear protection. For Quick-In arbor system

HSS-CO Short Annular Bits

- > 35 mm cutting depth
- > 18 mm shank for Quick-In arbor system



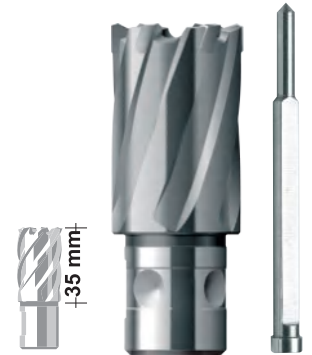
Ø mm	Order No.	Ø mm	Order No.
12	CRJ24-16881811	37	CRJ24-16881836
13	CRJ24-16881812	38	CRJ24-16881837
14	CRJ24-16881813	39	CRJ24-16881838
15	CRJ24-16881814	40	CRJ24-16881839
16	CRJ24-16881815	41	CRJ24-16881840
17	CRJ24-16881816	42	CRJ24-16881841
18	CRJ24-16881817	43	CRJ24-16881842
19	CRJ24-16881818	44	CRJ24-16881843
20	CRJ24-16881819	45	CRJ24-16881844
21	CRJ24-16881820	46	CRJ24-16881845
22	CRJ24-16881821	47	CRJ24-16881846
23	CRJ24-16881822	48	CRJ24-16881847
24	CRJ24-16881823	49	CRJ24-16881848
25	CRJ24-16881824	50	CRJ24-16881849
26	CRJ24-16881825	51	CRJ24-16881850
27	CRJ24-16881826	52	CRJ24-16881851
28	CRJ24-16881827	53	CRJ24-16881852
29	CRJ24-16881828	54	CRJ24-16881853
30	CRJ24-16881829	55	CRJ24-16881854
31	CRJ24-16881830	56	CRJ24-16881855
32	CRJ24-16881831	57	CRJ24-16881856
33	CRJ24-16881832	58	CRJ24-16881857
34	CRJ24-16881833	59	CRJ24-16881858
35	CRJ24-16881834	60	CRJ24-16881859
36	CRJ24-16881835		

Quick-In Carbide

Carbide-tipped core drills. For Quick-In arbor system.

Short Carbide Annular Bits

- > 35 mm cutting depth
- > 18 mm shank for Quick-In arbor system



Ø mm	Order No.	Ø mm	Order No.
12	CRJ24-16881861	37	CRJ24-16881886
13	CRJ24-16881862	38	CRJ24-16881887
14	CRJ24-16881863	39	CRJ24-16881888
15	CRJ24-16881864	40	CRJ24-16881889
16	CRJ24-16881865	41	CRJ24-16881890
17	CRJ24-16881866	42	CRJ24-16881891
18	CRJ24-16881867	43	CRJ24-16881892
19	CRJ24-16881868	44	CRJ24-16881893
20	CRJ24-16881869	45	CRJ24-16881894
21	CRJ24-16881870	46	CRJ24-16881895
22	CRJ24-16881871	47	CRJ24-16881896
23	CRJ24-16881872	48	CRJ24-16881897
24	CRJ24-16881873	49	CRJ24-16881898
25	CRJ24-16881874	50	CRJ24-16881899
26	CRJ24-16881875	51	CRJ24-16881900
27	CRJ24-16881876	52	CRJ24-16881901
28	CRJ24-16881877	53	CRJ24-16881902
29	CRJ24-16881878	54	CRJ24-16881903
30	CRJ24-16881879	55	CRJ24-16881904
31	CRJ24-16881880	56	CRJ24-16881905
32	CRJ24-16881881	57	CRJ24-16881906
33	CRJ24-16881882	58	CRJ24-16881907
34	CRJ24-16881883	59	CRJ24-16881908
35	CRJ24-16881884	60	CRJ24-16881909
36	CRJ24-16881885		

STEP DRILL BITS



1-3/8"

1-1/4"

1-1/8"

1"

7/8"

3/4"

5/8"

3/4"

3 PCS Step Drill Bits with Spiral Grooved



CRJ24-16881910

- Each unibit is constructed of industrial high-speed steel with a titanium nitride coating for durability and strength to punch and drill clean holes in materials like plastic, aluminum, wood, copper, stainless steel, and other types of sheet metal.
- With a split point tip that accelerates cutting speed while preventing angled walking away from center line of bore, drilling holes in metal is fast, efficient, and clean.
- The two-flute spiral grooved design deburrs chip, dust and debris for clearance and smooth cutting. With 31 step sizes, each hole made with these step bits will be precise.
- The 1/4-inch hex shank makes for easy, convenient, and quick stepper bit switches and is compatible with impact ready power tools.

5PCS Step Drill Bits with Straight Groove



CRJ24-16881911

Size (mm)	Step	Length (mm)
4-12	5	65
4-12	9	65
4-20	9	75
4-30	14	100
6-38	12	100
6-26.7	8	75
4-39	13	107
6-32	8	75
5-28	7	69
6-30.50	9	80
6-37	12	100
4.8-10.65	5	54
6-25	7	65
6-32	9	76
6-40	16	105

- Different sized shanks ensure compatibility with 1/4, 3/8 and 1/2 in. chuck sizes. You are capable to drill holes in different sizes which can meet your normal needs. Non-walking drill tip provides fast and smooth drills on steel sheets, aluminum sheets, wood board, plastic board etc. (the board must be smaller in thickness than the height of step drill bits).
- Cobalt high speed steel drill bits along with the titanium coating ensures extreme durability, will stay new and shiny for years to come.
- Please mark the spot that you are to drill for easier drilling and improved drill bits life. Keep Your Step Drill Bits Well Organized: All the bits come in a well-organized case for easy transport and storage.





HSS STEP DRILL (DIN)

Size (mm)	Length (mm)	Step	Shank Diameter (mm)	Order No.
4-12	65	5	6	CRJ24-16881912
4-12	65	9	6	CRJ24-16881913
4-20	75	9	8	CRJ24-16881914
4-22	80	10	8	CRJ24-16881915
4-30	100	14	10	CRJ24-16881916
4-32	105	15	10	CRJ24-16881917
4-39	107	14	13	CRJ24-16881918
5-28	69	7	10	CRJ24-16881919
5-28.3	72	10	10	CRJ24-16881920
5-35	100	13	10	CRJ24-16881921
5-38	95	14	10	CRJ24-16881922
6-18	67	7	8	CRJ24-16881923
6-20	71	8	8	CRJ24-16881924
6-24	80	10	10	CRJ24-16881925
6-25	65	7	10	CRJ24-16881926
6-30	98	13	10	CRJ24-16881927
6-30.5	100	10	10	CRJ24-16881928
6-32	75	8	10	CRJ24-16881929
6-32	76	9	10	CRJ24-16881930
6-37	100	12	12	CRJ24-16881931
6-38	100	12	12	CRJ24-16881932
6-40	105	16	12	CRJ24-16881933
7-40.5	110	7	10	CRJ24-16881934
9-36	86	10	10	CRJ24-16881935
10-20	88	11	8	CRJ24-16881936
12-20	76	9	8	CRJ24-16881937
13-38	112	10	10	CRJ24-16881938
14-24	67	6	10	CRJ24-16881939
14-25	71	7	10	CRJ24-16881940
20-30	88	11	10	CRJ24-16881941
20-34	75	8	10	CRJ24-16881942
30-40	98	11	12	CRJ24-16881943
40-50	107	11	13	CRJ24-16881944
50-60	120	11	13	CRJ24-16881945



HSS STEP DRILL (JIS)

Size (mm)	Step	Shank Diameter (mm)	Order No.
3-11	5	6	CRJ24-16881946
4-12	5	6	CRJ24-16881947
5-23	6	6	CRJ24-16881948
6-24	6	6	CRJ24-16881949
4-12	9	6	CRJ24-16881950
4-20	9	6	CRJ24-16881951
5-21	13	6	CRJ24-16881952
4-22	10	6	CRJ24-16881953
4-26	12	6	CRJ24-16881954
4-32	14	6	CRJ24-16881955



HSS STEP DRILL (ANSI)

Size (Inch)	Length (Inch)	Step	Shank Diameter (Inch)	Order No.
1/8-1/2"	3 1/8"	13	1/4"	CRJ24-16881956
3/16-1/2"	3 1/8"	6	1/4"	CRJ24-16881957
3/16-7/8"	3"	12	3/8"	CRJ24-16881958
1/4-3/4"	2 5/8"	9	3/8"	CRJ24-16881959
1/4-1 3/8"	3 1/8"	10	3/8"	CRJ24-16881960
3/8-1/2"	2"	2	1/4"	CRJ24-16881961
1/2-1"	3 1/4"	9	1/2"	CRJ24-16881962
7/8-1 3/8"	3"	5	3/8"	CRJ24-16881963



HSS Umbrella Drill (DIN)

Size (mm)	Length (mm)	Shank Diameter (mm)	Order No.
3-14	58	6	CRJ24-16881964
6-20	63	8	CRJ24-16881965
5-20	75	8	CRJ24-16881966
8-20	68	8	CRJ24-16881967
3-22.5	85	8	CRJ24-16881968
5-24.5	87	10	CRJ24-16881969
16-30.5	79	9	CRJ24-16881970
26-40	86	10	CRJ24-16881971
3-31	102	10	CRJ24-16881972
35-50	89	13	CRJ24-16881973
40-61	98	13	CRJ24-16881974



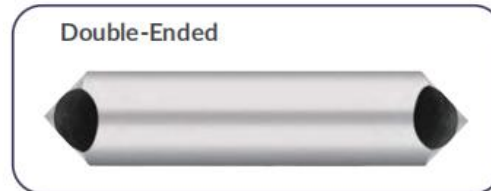
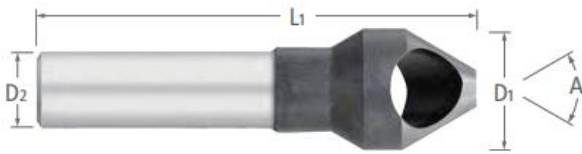
COUNTERSINKS





Designed for general purpose countersinking, chamfering or deburring.

- Efficient stock removal, chatter-free finish.
- Bright finish helps reduce chip build-up on cutting edge.



- Designed with a radially-relieved single edge for fast removal without chatter
- 60°, 82°, 90° included angle options

Angle	D1 Inch	D2 Inch	L1 Inch	Order No.
60°	1/4	1/4	1-1/2	CRJ24-16881975
	7/16	1/4	2-1/32	CRJ24-16881976
	9/16	1/4	2	CRJ24-16881977
	13/16	1/2	2-5/8	CRJ24-16881978
	1-1/8	1/2	2-7/8	CRJ24-16881979
82°	1/4	1/4	1-1/2	CRJ24-16881980
	7/16	1/4	2-1/32	CRJ24-16881981
	9/16	1/4	2	CRJ24-16881982
	13/16	1/2	2-5/8	CRJ24-16881983
	1-1/8	1/2	2-7/8	CRJ24-16881984
90°	1/4	1/4	1-1/2	CRJ24-16881985
	7/16	1/4	2-1/32	CRJ24-16881986
	9/16	1/4	2	CRJ24-16881987
	13/16	1/2	2-5/8	CRJ24-16881988
	1-1/8	1/2	2-7/8	CRJ24-16881989



GERMANY TYPE

Diameter (mm)	Shank Diameter (mm)	Length (mm)	Order No.
6.35	6.35	45.00	CRJ24-16881990
10.00	6.00	45.00	CRJ24-16881991
14.00	8.00	48.00	CRJ24-16881992
21.00	10.00	65.00	CRJ24-16881993
28.00	12.00	85.00	CRJ24-16881994
35.00	15.00	102.00	CRJ24-16881995
44.00	15.00	115.00	CRJ24-16881996
48.00	15.00	127.00	CRJ24-16881997
53.00	15.00	136.00	CRJ24-16881998
64.00	18.00	166.00	CRJ24-16881999



JAPANESE TYPE

Diameter (mm)	Shank Diameter (mm)	Length (mm)	Order No.
6.35	6.35	45.00	CRJ24-16882000
10.00	6.00	45.00	CRJ24-16882001
14.00	8.00	48.00	CRJ24-16882002
21.00	10.00	65.00	CRJ24-16882003
28.00	12.00	85.00	CRJ24-16882004



JAPANESE LONG LENGTH TYPE

Diameter (mm)	Shank Diameter (mm)	Length (mm)	Order No.
6.00	6.00	50.00	CRJ24-16882005
8.00	8.00	50.00	CRJ24-16882006
10.00	8.00	55.00	CRJ24-16882007
15.00	8.00	70.00	CRJ24-16882008
20.00	10.00	100.00	CRJ24-16882009
25.00	12.00	110.00	CRJ24-16882010
30.00	12.00	120.00	CRJ24-16882011
35.00	12.00	120.00	CRJ24-16882012

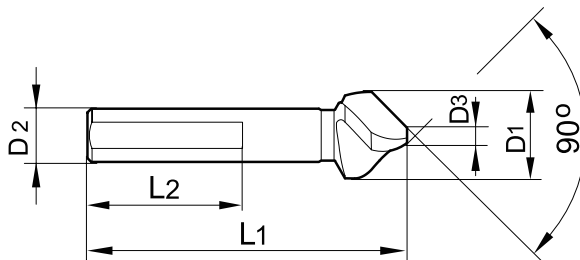


HSS-CO	THREE FLUTE	DIN 335	90°	ROUND SHANK
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Material		Suitability
P	Steel	●
M	Stainless steel	●
K	Cast iron	●
N	Aluminum	○
S	Ni / Ti alloys	○
H	Hardened steel	

●=Optimal ○=Secondary

- 3 different convex cutting edges
- Low-vibration cutting processes
- For round and chatter-free countersinking
- Considerably lower feed force required
- For universal application



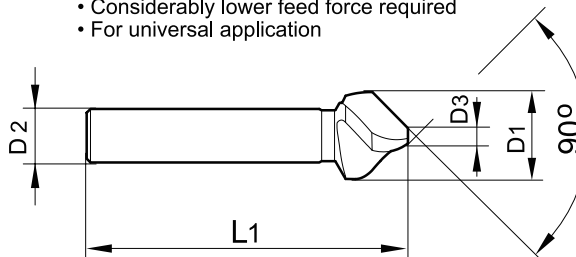
D1 mm	D2 mm	D3 mm	L1 mm	Order No.
6.30	5.00	1.50	45.00	CRJ24-16882013
8.00	6.00	2.00	50.00	CRJ24-16882014
8.30	6.00	2.00	50.00	CRJ24-16882015
10.00	6.00	2.50	50.00	CRJ24-16882016
10.40	6.00	2.50	50.00	CRJ24-16882017
11.50	8.00	2.80	56.00	CRJ24-16882018
12.40	8.00	2.80	56.00	CRJ24-16882019
15.00	10.00	3.20	60.00	CRJ24-16882020
16.50	10.00	3.20	60.00	CRJ24-16882021
19.00	10.00	3.50	63.00	CRJ24-16882022
20.50	10.00	3.50	63.00	CRJ24-16882023
23.00	10.00	3.80	67.00	CRJ24-16882024
25.00	10.00	3.80	67.00	CRJ24-16882025
31.00	12.00	4.20	71.00	CRJ24-16882026
40.00	12.00	10.00	75.00	CRJ24-16882027

HSS-CO	THREE FLUTE	DIN 335	90°	TRIANGULAR SHANK
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Material		Suitability
P	Steel	●
M	Stainless steel	●
K	Cast iron	●
N	Aluminum	○
S	Ni / Ti alloys	○
H	Hardened steel	

●=Optimal ○=Secondary

- 3 different convex cutting edges
- Tri-flat shank prevents slipping in the chuck
- Perfect for hand drills
- Low-vibration cutting processes
- For round and chatter-free countersinking
- Considerably lower feed force required
- For universal application



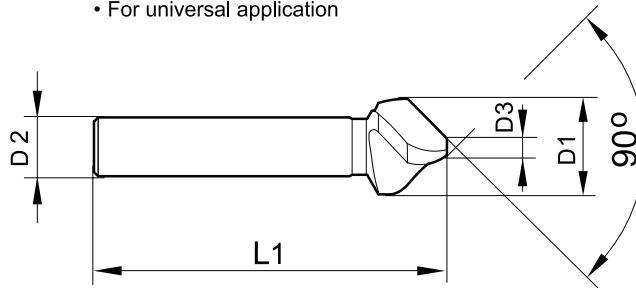
D1 mm	D2 mm	D3 mm	L1 mm	L2 mm	Order No.
6.30	5.00	1.50	45.00	30.00	CRJ24-16882028
8.00	6.00	2.00	50.00	30.00	CRJ24-16882029
8.30	6.00	2.00	50.00	30.00	CRJ24-16882030
10.00	6.00	2.50	50.00	30.00	CRJ24-16882031
10.40	6.00	2.50	50.00	30.00	CRJ24-16882032
11.50	8.00	2.80	56.00	30.00	CRJ24-16882033
12.40	8.00	2.80	56.00	30.00	CRJ24-16882034
15.00	10.00	3.20	60.00	30.00	CRJ24-16882035
16.50	10.00	3.20	60.00	30.00	CRJ24-16882036
19.00	10.00	3.50	63.00	30.00	CRJ24-16882037
20.50	10.00	3.50	63.00	30.00	CRJ24-16882038
23.00	10.00	3.80	67.00	30.00	CRJ24-16882039
25.00	10.00	3.80	67.00	30.00	CRJ24-16882040
31.00	12.00	4.20	71.00	30.00	CRJ24-16882041
40.00	12.00	10.00	75.00	30.00	CRJ24-16882042



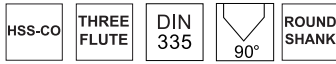
Material	Suitability
P Steel	●
M Stainless steel	○
K Cast iron	●
N Aluminum	○
S Ni / Ti alloys	○
H Hardened steel	

●=Optimal ○=Secondary

- Long version for recessed machining points
- 3 different convex cutting edges
- Low-vibration cutting processes
- For round and chatter-free countersinking
- Considerably lower feed force required
- For universal application



D1 mm	D2 mm	D3 mm	L1 mm	Order No.
6.30	5.00	1.50	104.00	CRJ24-16882043
8.30	6.00	2.00	105.00	CRJ24-16882044
10.40	6.00	2.50	107.00	CRJ24-16882045
12.40	8.00	2.80	108.00	CRJ24-16882046
16.50	10.00	3.20	111.00	CRJ24-16882047
20.50	10.00	3.50	114.00	CRJ24-16882048
25.00	10.00	3.80	118.00	CRJ24-16882049
31.00	12.00	4.20	140.00	CRJ24-16882050



Material		Suitability
P	Steel	●
M	Stainless steel	●
K	Cast iron	●
N	Aluminum	○
S	Ni / Ti alloys	○
H	Hardened steel	
●=Optimal ○=Secondary		

- 3 different convex cutting edges
- Low-vibration cutting processes
- For round and chatter-free countersinking
- Considerably lower feed force required
- For universal application



Size mm	Pieces/set	Order No.
6,3/8,3/10,4/12,4/16,5/20,5	6	CRJ24-16882051
6,3/10,4/16,5/20,5/25.0	5	CRJ24-16882052



Material		Suitability
P	Steel	●
M	Stainless steel	●
K	Cast iron	●
N	Aluminum	○
S	Ni / Ti alloys	○
H	Hardened steel	
●=Optimal ○=Secondary		

- 3 different convex cutting edges
- Tri-flat shank prevents slipping in the chuck
- Perfect for hand drills
- Low-vibration cutting processes
- For round and chatter-free countersinking
- Considerably lower feed force required
- For universal application

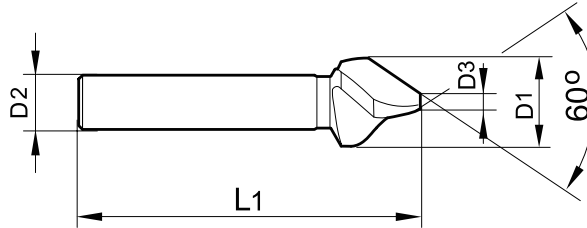


Size mm	Pieces/set	Order No.
6,3/8,3/10,4/12,4/16,5/20,5	6	CRJ24-16882053
6,3/10,4/16,5/20,5/25.0	5	CRJ24-16882054

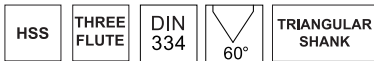


Material		Suitability
P	Steel	●
M	Stainless steel	●
K	Cast iron	●
N	Aluminum	○
S	Ni / Ti alloys	○
H	Hardened steel	
●=Optimal ○=Secondary		

- 3 different convex cutting edges
- Low-vibration cutting processes
- For round and chatter-free countersinking
- Considerably lower feed force required
- For universal application

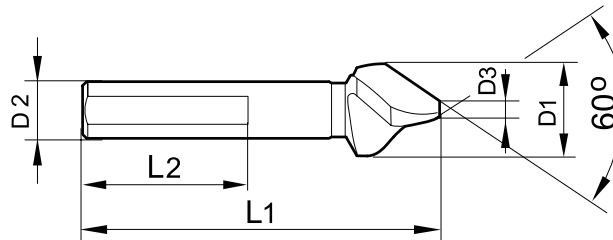


D1 mm	D2 mm	D3 mm	L1 mm	Order No.
6.30	5.00	1.60	45.00	CRJ24-16882055
8.00	6.00	2.00	50.00	CRJ24-16882056
10.00	6.00	3.20	56.00	CRJ24-16882057
12.50	8.00	3.20	56.00	CRJ24-16882058
16.00	10.00	4.00	63.00	CRJ24-16882059
20.00	10.00	5.00	67.00	CRJ24-16882060
25.00	10.00	6.30	71.00	CRJ24-16882061



Material		Suitability
P	Steel	●
M	Stainless steel	●
K	Cast iron	●
N	Aluminum	○
S	Ni / Ti alloys	○
H	Hardened steel	
●=Optimal ○=Secondary		

- 3 different convex cutting edges
- Tri-flat shank prevents slipping in the chuck
- Perfect for hand drills
- Low-vibration cutting processes
- For round and chatter-free countersinking
- Considerably lower feed force required
- For universal application



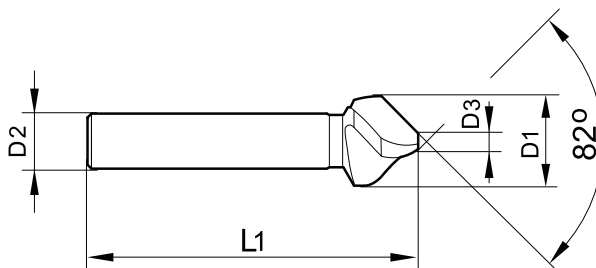
D1 mm	D2 mm	D3 mm	L1 mm	L2 mm	Order No.
6.30	5.00	1.60	45.00	30	CRJ24-16882062
8.00	6.00	2.00	50.00	30	CRJ24-16882063
10.00	6.00	3.20	56.00	30	CRJ24-16882064
12.50	8.00	3.20	56.00	30	CRJ24-16882065
16.00	10.00	4.00	63.00	30	CRJ24-16882066
20.00	10.00	5.00	67.00	30	CRJ24-16882067
25.00	10.00	6.30	71.00	30	CRJ24-16882068



Material		Suitability
P	Steel	●
M	Stainless steel	●
K	Cast iron	●
N	Aluminum	○
S	Ni / Ti alloys	○
H	Hardened steel	

●=Optimal ○=Secondary

- 3 different convex cutting edges
- Low-vibration cutting processes
- For round and chatter-free countersinking
- Considerably lower feed force required
- For universal application



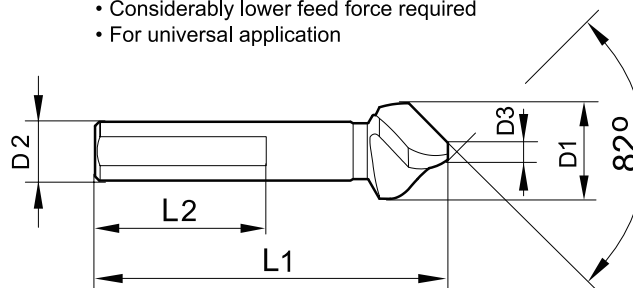
D1 Inch	D2 Inch	D3 Inch	L1 Inch	Order No.
1/4	0.25	0.06	2.00	CRJ24-16882069
5/16	0.25	0.08	2.00	CRJ24-16882070
3/8	0.25	0.09	2.00	CRJ24-16882071
1/2	0.375	0.15	2.25	CRJ24-16882072
5/8	0.375	0.18	2.25	CRJ24-16882073
3/4	0.50	0.21	2.75	CRJ24-16882074
7/8	0.50	0.23	2.75	CRJ24-16882075
1	0.50	0.25	2.75	CRJ24-16882076
1 1/4	0.50	0.37	3.00	CRJ24-16882077



Material		Suitability
P	Steel	●
M	Stainless steel	●
K	Cast iron	●
N	Aluminum	○
S	Ni / Ti alloys	○
H	Hardened steel	

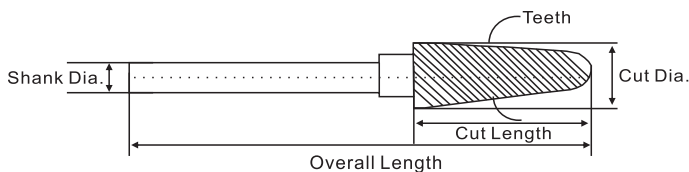
●=Optimal ○=Secondary

- 3 different convex cutting edges
- Tri-flat shank prevents slipping in the chuck
- Perfect for hand drills
- Low-vibration cutting processes
- For round and chatter-free countersinking
- Considerably lower feed force required
- For universal application

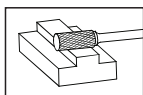


D1 Inch	D2 Inch	D3 Inch	L1 Inch	L2 Inch	Order No.
1/4	0.25	0.06	2.00	1.18	CRJ24-16882078
5/16	0.25	0.08	2.00	1.18	CRJ24-16882079
3/8	0.25	0.09	2.00	1.18	CRJ24-16882080
1/2	0.375	0.15	2.25	1.18	CRJ24-16882081
5/8	0.375	0.18	2.25	1.18	CRJ24-16882082
3/4	0.50	0.21	2.75	1.18	CRJ24-16882083
7/8	0.50	0.23	2.75	1.18	CRJ24-16882084
1	0.50	0.25	2.75	1.18	CRJ24-16882085
1 1/4	0.50	0.37	3.00	1.18	CRJ24-16882086



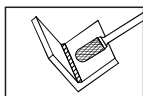


SHAPE A CYLINDRICAL



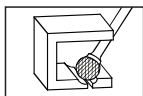
Size	Cut Length	Shank	Overall Length	Order No.
3mm	13mm	3mm	3mm	CRJ2024-16882087
4mm	13mm	4mm	4mm	CRJ2024-16882088
6mm	16mm	6mm	6mm	CRJ2024-16882089
8mm	20mm	6mm	6mm	CRJ2024-16882090
10mm	20mm	6mm	6mm	CRJ2024-16882091
12mm	25mm	6mm	6mm	CRJ2024-16882092
16mm	25mm	6mm	6mm	CRJ2024-16882093

SHAPE C CYLINDRICAL BALL NOSE



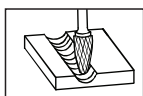
Size	Cut Length	Shank	Overall Length	Order No.
2mm	10mm	3mm	40mm	CRJ2024-16882094
3mm	13mm	3mm	43mm	CRJ2024-16882095
6mm	13mm	3mm	43mm	CRJ2024-16882096
6mm	16mm	6mm	56mm	CRJ2024-16882097
8mm	20mm	6mm	60mm	CRJ2024-16882098
10mm	20mm	6mm	60mm	CRJ2024-16882099
12mm	25mm	6mm	65mm	CRJ2024-16882100
16mm	25mm	6mm	65mm	CRJ2024-16882101

SHAPE D BALL



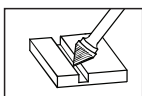
Size	Cut Length	Shank	Overall Length	Order No.
3mm	2mm	3mm	33mm	CRJ2024-16882102
4mm	3mm	3mm	34mm	CRJ2024-16882103
6mm	5mm	3mm	35mm	CRJ2024-16882104
4mm	3mm	6mm	50mm	CRJ2024-16882105
6mm	5mm	6mm	45mm	CRJ2024-16882106
8mm	7mm	6mm	47mm	CRJ2024-16882107
10mm	9mm	6mm	49mm	CRJ2024-16882108
12mm	10mm	6mm	51mm	CRJ2024-16882109

SHAPE F ROUND NOSE TREE



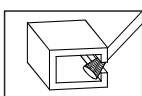
Size	Cut Length	Shank	Overall Length	Order No.
3mm	7mm	3mm	37mm	CRJ2024-16882110
3mm	13mm	3mm	50mm	CRJ2024-16882111
6mm	13mm	3mm	43mm	CRJ2024-16882112
6mm	18mm	6mm	58mm	CRJ2024-16882113
10mm	20mm	6mm	60mm	CRJ2024-16882114
12mm	25mm	6mm	65mm	CRJ2024-16882115
16mm	25mm	6mm	65mm	CRJ2024-16882116

SHAPE J60 CONE



Size	Cut Length	Shank	Overall Length	Order No.
6mm	5mm	6mm	50mm	CRJ2024-16882117
8mm	7mm	6mm	52mm	CRJ2024-16882118
10mm	8mm	6mm	53mm	CRJ2024-16882119
12mm	10mm	6mm	55mm	CRJ2024-16882120
16mm	13mm	6mm	56mm	CRJ2024-16882121

SHAPE N INVERTED CONICAL



Size	Cut Length	Shank	Overall Length	Order No.
3mm	7mm	3mm	37mm	CRJ2024-16882122
6mm	7mm	3mm	37mm	CRJ2024-16882123
12mm	13mm	6mm	53mm	CRJ2024-16882124
16mm	16mm	6mm	56mm	CRJ2024-16882125
10mm	5mm	6mm	45mm	CRJ2024-16882126
12mm	5mm	6mm	45mm	CRJ2024-16882127
16mm	6mm	6mm	45mm	CRJ2024-16882128

PLASTIC BOX KIT - 10PCS



Size(mm):

A1020M06
C1020M06
E1016M06
F1020M06
L1025M06
A0616M06
C0616M06
D0807M06
H0618M06
L0616M06

CRJ24-16882138

PLASTIC BOX KIT- 10PCS



Size(mm):

B1020M06
C1020M06
F1020M06
G1020M06
D1009M06
B0616M06
C0616M06
F0618M06
G0617M06
D0605M06

CRJ24-16882148

ALUMINUM BOX KIT - 8PCS



Size(mm):

A1225M06
A1020M06
C1020M06
C0616M06
D0807M06
D1009M06
F0818M06
F1020M06

CRJ24-16882158

PLASTIC BOX KIT- 8PCS



Size(mm):

A1225M06 A1020M06
C1020M06 C0616M06
D0605M06 D1009M06
F1020M06 F1225M06

CRJ24-16882168



FEATURE:

- The carbide alloy rotary file use is extremely widespread, applies in the mold processing manufacture. Machine parts bevel edge, inverted round and trench processing.
- Can be processed cast iron, cast steel, carbon steel, alloy steel, stainless steel, copper, aluminum, and marble, jade, bone and other non-metallic.
- Widely used in machinery, automobile, shipbuilding, chemical, craft sculpture etc.
- Good processing quality, finish high, long service life. Can process a variety of high-precision mold cavity.
- Easy to grasp, easy to use, safe and reliable. Reduces the arduous manual labor greatly, reduce the cost of production.

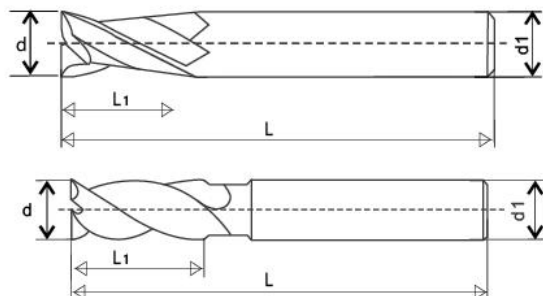


Multi-functional solid carbide straight shank 2 flutes endmill

Multi-functional solid carbide straight shank 4 flutes endmill

Features:

Used for processing carbon steel, tool steel, alloy steel, stainless steel. High wear resistance 4 flutes provide better surface roughness Suitable for high-speed machining, coolant and dry cutting conditions



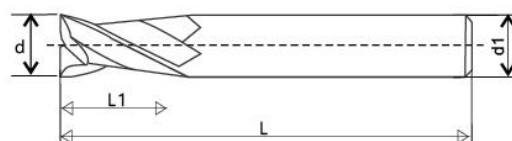
d mm	d1 mm	L1 mm	L mm	Order No.
4	4	12	50	CRJ24-16882178
6	6	18	50	CRJ24-16882179
8	8	25	60	CRJ24-16882180
10	10	30	75	CRJ24-16882181
12	12	32	75	CRJ24-16882182
14	14	40	100	CRJ24-16882183
16	16	45	100	CRJ24-16882184
18	18	45	100	CRJ24-16882185
20	20	48	100	CRJ24-16882186

Solid carbide straight shank endmill for Aluminum

Features:

For processing aluminum and aluminum alloys. Special design reduces vibration. Edge surface treatment makes the cut surface brightly. High precision tolerances on blade diameter

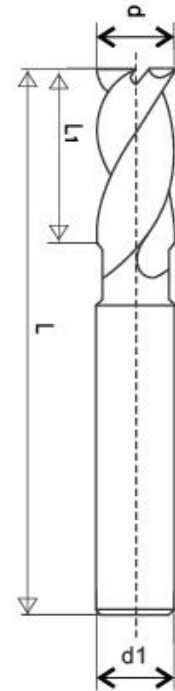
d mm	d1 mm	L1 mm	L mm	Order No.
4	4	10	50	CRJ24-16882187
6	6	15	50	CRJ24-16882188
8	8	20	60	CRJ24-16882189
10	10	25	75	CRJ24-16882190
12	12	30	75	CRJ24-16882191
14	14	35	100	CRJ24-16882192
16	16	50	100	CRJ24-16882193
18	18	45	100	CRJ24-16882194
20	20	50	100	CRJ24-16882195



Multi-functional solid carbide straight shank 4 flutes endmill

Features:

Special design reduces vibration. Suitable for high-speed, deep cutting of stainless steel, titanium alloys and materials with hardness below HRC40



d mm	d1 mm	L1 mm	L mm	Order No.
4	4	10	50	CRJ24-16882196
6	6	15	50	CRJ24-16882197
8	8	20	60	CRJ24-16882198
10	10	25	75	CRJ24-16882199
12	12	30	75	CRJ24-16882200
14	14	35	100	CRJ24-16882201
16	16	50	100	CRJ24-16882202
18	18	45	100	CRJ24-16882203
20	20	50	100	CRJ24-16882204

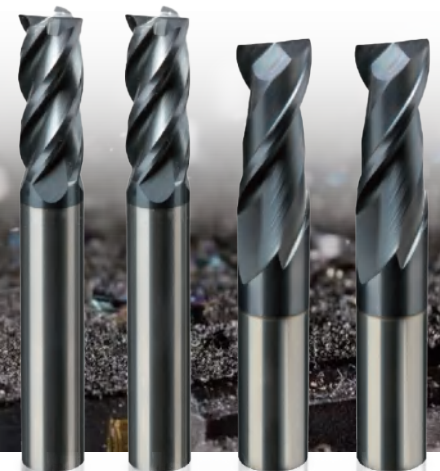
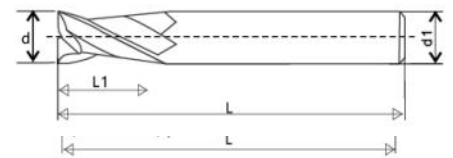
Multi-functional solid carbide straight shank 2 flutes endmill

Multi-functional solid carbide straight shank 4 flutes endmill

Features:

Designed for processing high hardness materials. High precision milling. Better surface roughness higher wear resistance. Suitable for high-speed cutting and dry cutting

d mm	d1 mm	L1 mm	L mm	Order No.
4	4	10	50	CRJ24-16882205
6	6	15	50	CRJ24-16882206
8	8	20	60	CRJ24-16882207
10	10	25	75	CRJ24-16882208
12	12	30	75	CRJ24-16882209

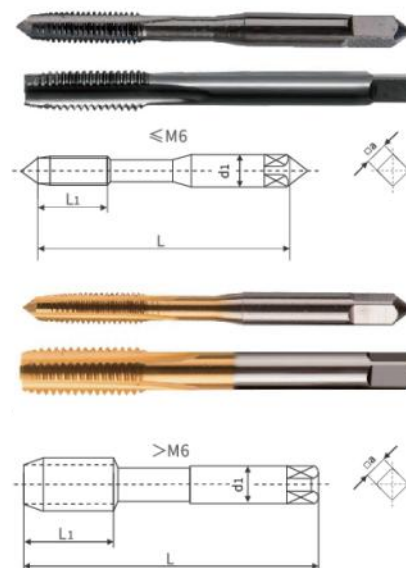


TAP

MACHINE TAP



- Multi-functional straight flute machine tap (HSS-E)
- Straight flute tap with coating for stainless steel (HSS-E)



Material: HSS-E

Feature: With heat and wear resistance, the special design of fute and tooth-type with thousands times testing can improve working efficiency and reducing the working cost.

Precision: H1 H2 H3

Application: Suitable for drilling general steel, alloy steel under HRC30, cast iron, cast steel and stainless steel

Dimensions	D1(mm)	L1(mm)	L(mm)	Order No.
M3	3.15	11	48	CRJ24-16882210
M3.5	3.55	13	50	CRJ24-16882211
M4	4.0	13	53	CRJ24-16882212
M4.5	4.5	13	53	CRJ24-16882213
M5	5.0	16	58	CRJ24-16882214
M6	6.3	19	66	CRJ24-16882215
M8	6.3	22	72	CRJ24-16882216
M8X1	6.3	22	72	CRJ24-16882217
M10X0-1.25	8.0	2/24	80	CRJ24-16882218
M12X0-1.5	9.0	22/29	80/89	CRJ24-16882219
M14x0-1.5	11.2	22/30	87/95	CRJ24-16882220
M16x0-1.5	12.5	22/32	92/102	CRJ24-16882221
M18x0-2	14	22/37	97/112	CRJ24-16882222
M20x0-2	14	22/37	102/112	CRJ24-16882223
M22x0-2	16	24/38	109/118	CRJ24-16882224
M24x0-2	18	24/45	114/130	CRJ24-16882225
M27x0-2	20	25/37/45	120/127/135	CRJ24-16882226
M30x0-2	20	25/37/48	120/127/138	CRJ24-16882227
M33x0-2	22.4	37/51	137/151	CRJ24-16882228
M36x0-3	25	39/57	144/162	CRJ24-16882229
M39X1.5-4	28	39/60	149/170	CRJ24-16882230
M42X1.5-4.5	28	39/60	149/170	CRJ24-16882231
M45x1.5-4.5	31.5	45/67	165/187	CRJ24-16882232
M48X5	31.5	67	187	CRJ24-16882233
M48X1.5-4	31.5	45/67	165/187	CRJ24-16882234
M52X1.5-5	35.5	45/70	175/200	CRJ24-16882235
M56X1.5-5.5	35.5	45/70	175/200	CRJ24-16882236
M60X1.5-5.5	40	76	193/209/221	CRJ24-16882237
M64X1.5-6	40	79	193/209/224	CRJ24-16882238
M68X1.5-6	45	79	203/219/234	CRJ24-16882239

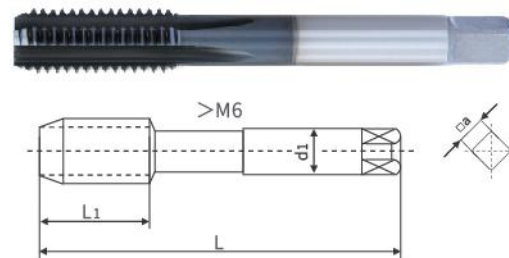
HSS-E Machine Tap

Material: HSS-E

Feature: The cast iron is specially designed with 4 blade grooves, and the whole grinding process is adopted to ensure high precision, high stability and high wear resistance of the product.

Precision: 6HX

Application: Suitable for drilling general steel, alloy steel under HRC 35, cast iron, cast steel and stainless steel.



Dimensions	D1(mm)	L1(mm)	L(mm)	Order No.
M6	6.3	19	66	CRJ24-16882240
M8X0-1	6.3	22	72	CRJ24-16882241
M10X0-1.25	8	24	80	CRJ24-16882242
M12X0-1.5	9	22/29	80/89	CRJ24-16882243
M14X0-1.5	11.2	22/30	87/95	CRJ24-16882244
M16X0-1.5	12.5	22/32	92/102	CRJ24-16882245
M18X0-2	14	22/37	97/112	CRJ24-16882246
M20	14	37	112	CRJ24-16882247
M22	16	38	118	CRJ24-16882248

Multi-functional spiral flute machine tap(HSS-E)

Spiral flute tap with coating for stainless steel(HSS-E)

Material: HSS-E

Feature: With heat and wear resistance, the special design of flute and tooth-type with thousands times testing can improve working efficiency and reducing the working cost.

Precision: H1 H2 H3

Application: Suitable for drilling general steel, alloy steel under HRC30, cast iron, cast steel and stainless steel.



Dimensions	D1(mm)	L1(mm)	L(mm)	Order No.
M3	3.15	6	48	CRJ24-16882249
M3.5	3.55	7.2	50	CRJ24-16882250
M4	4.0	8.4	53	CRJ24-16882251
M4.5	4.5	9	53	CRJ24-16882252
M5	5	9.6	58	CRJ24-16882253
M6	6.3	12	66	CRJ24-16882254
M8X0-1	6.3	12/15	72	CRJ24-16882255
M10X0-1.25	8.0	15/18	80	CRJ24-16882256
M12X0-1.5	9.0	18/21	89	CRJ24-16882257

Dimensions	D1(mm)	L1(mm)	L(mm)	Order No.
M14x0-1.5	9.0/11.2	18/24	80/87/95	CRJ24-16882258
M16X0-1.5	12.5	18/24	92/102	CRJ24-16882259
M18X0-2	14	24/30	97/112	CRJ24-16882260
M20X0-2	14	24/30	102/112	CRJ24-16882261
M22X0-2	16	24/30	109/118	CRJ24-16882262
M24X0-2	18	24/36	114/130	CRJ24-16882263
M27X0-2	20	24/36	120/127/135	CRJ24-16882264
M30X0-2	20	24/42	120/127/138	CRJ24-16882265
M33X0-2	22.4	24/42	137/151	CRJ24-16882266
M36X0-3	25	24/36/48	144/162	CRJ24-16882267

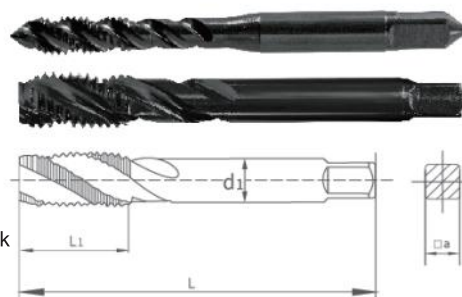
Multi-functional spiral flute machine tap

Material: HSS-E

Feature: With heat and wear resistance, the special design of flute and tooth-type with thousands times testing can improve working efficiency and reducing the working cost.

Precision: H1 H2 H3

Application: Suitable for blind hole processing of stainless steel, chrome steel and other work hardened, ductile materials.

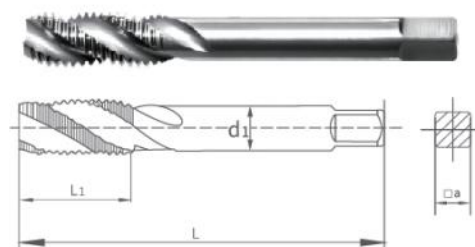


Dimensions	D1(mm)	L1(mm)	L(mm)	Order No.
M3	3.15	6	48	CRJ24-16882268
M4	4.0	8.4	53	CRJ24-16882269
M5	5	9.6	58	CRJ24-16882270
M6	6.3	12	66	CRJ24-16882271
M8X0-1	6.3	12/15	72	CRJ24-16882272
M10X0-1.25	8.0	15/18	80	CRJ24-16882273
M12X0-1.5	9.0	12/18	80/89	CRJ24-16882274

Spiral flute tap for Aluminum

Material: HSS-E

Precision: H1 H2 H3



Dimensions	D1(mm)	L1(mm)	L(mm)	Order No.
M3	3.15	6	48	TRJ24-16882275
M3.5	3.55	7.2	50	TRJ24-16882276
M4	4.0	8.4	53	TRJ24-16882277
M4.5	4.5	9.0	53	TRJ24-16882278

Dimensions	D1(mm)	L1(mm)	L(mm)	Order No.
M5	5	9.6	58	CRJ24-16882279
M6	6.3	12	66	CRJ24-16882280
M8X0-1	6.3	12/15	72	CRJ24-16882281
M10X0-1.25	8.0	15/18	80	CRJ24-16882282
M12X0-1.5	9.0	18/21	80/89	CRJ24-16882283
M14X0-1.5	11.2	18/24	87/95	CRJ24-16882284
M16X0-1.5	12.5	18/24	92/102	CRJ24-16882285
M18X0-2	14	24/30	97/112	CRJ24-16882286
M20X0-2	14	24/30	102/112	CRJ24-16882287

Multi-functional spiral pointed tap

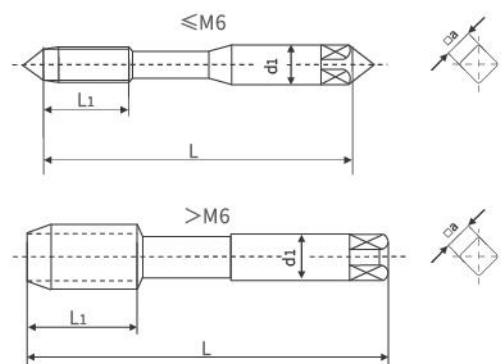
Spiral pointed tap with coating for stainless steel

Material: HSS-E

Feature: With heat and wear resistance, the special design of flute and tooth-type with thousands times testing can improve working efficiency and reduce the working cost.

Precision: H1 H2 H3

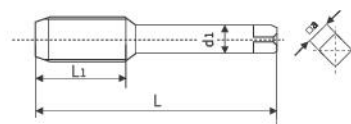
Application: Suitable for drilling general steel, alloy steel under HRC 30、 cast iron. cast steel and stainless steel.



Dimensions	D1(mm)	L1(mm)	L(mm)	Order No.
M3	3.15	11	48	CRJ24-16882288
M4	4.0	13	53	CRJ24-16882289
M5	5.0	16	58	CRJ24-16882290
M6	6.3	19	66	CRJ24-16882291
M8X0-1	6.3	22	72	CRJ24-16882292
M10X0-1.25	8.0	24	80	CRJ24-16882293
M12X0-1.5	9.0	22/29	80/89	CRJ24-16882294
M14X0-1.5	11.2	22/30	87/95	CRJ24-16882295
M16X0-1.5	12.5	22/32	92/102	CRJ24-16882296
M18X0-2	14	22/37	97/112	CRJ24-16882297
M20X0-2	14	22/37	102/112	CRJ24-16882298
M22X0-2	16	24/38	109/118	CRJ24-16882299
M24X0-2	18	24/45	114/130	CRJ24-16882300
M27X0-2	20	25/37/45	120/127/135	CRJ24-16882301
M30X0-2	20	25/37/48	120/127/138	CRJ24-16882302
M33X0-2	22.4	37/51	137/151	CRJ24-16882303
M36X0-3	25	39/57	144/162	CRJ24-16882304

55° (ZG) taper pipe tap

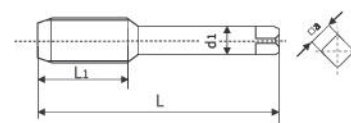
Material: HSS



Dimensions	D1(mm)	L1(mm)	L(mm)	A(mm)	Order No.
ZG1/8	8	15	59	6.3	CRJ24-16882306
ZG1/4	10	19	67	8	CRJ24-16882307
ZG3/8	12.5	21	75	10	CRJ24-16882308
ZG1/2	16	26	87	12.5	CRJ24-16882309
ZG3/4	20	28	96	16	CRJ24-16882310
ZG1	25	33	109	20	CRJ24-16882311
ZG1 1/4	31.5	36	119	25	CRJ24-16882312
ZG1 1/2	35.5	37	125	28	CRJ24-16882313
ZG2	40	41	140	31.5	CRJ24-16882314

60° (Z) taper pipe tap

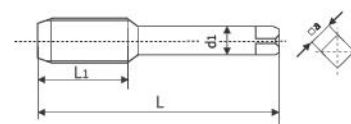
Material: HSS



Dimensions	D1(mm)	L1(mm)	L(mm)	A(mm)	Order No.
NPT1/8	8	19	59	6.3	CRJ24-16882315
NPT1/4	10	27	67	8	CRJ24-16882316
NPT3/8	12.5	27	75	10	CRJ24-16882317
NPT1/2	16	35	87	12.5	CRJ24-16882318
NPT3/4	20	35	96	16	CRJ24-16882319
NPT1	25	44	109	20	CRJ24-16882320
NPT1 1/4	31.5	44	119	25	CRJ24-16882321
NPT 1 1/2	35.5	44	125	28	CRJ24-16882322
NPT2	40	44	140	31.5	CRJ24-16882323

55° (G) Cylindrical pipe tap

Material: HSS

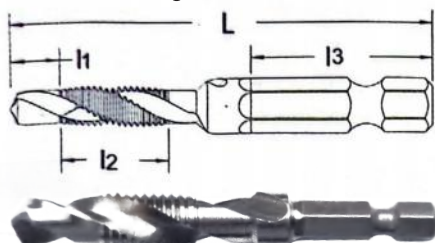
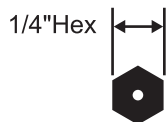


Dimensions	D1(mm)	L1(mm)	L(mm)	A(mm)	Order No.
G1/8	8	15	59	6.3	CRJ24-16882324
G1/4	10	19	67	8	CRJ24-16882325
G3/8	12.5	21	75	10	CRJ24-16882326
G1/2	16	26	87	12.5	CRJ24-16882327
G3/4	20	28	96	16	CRJ24-16882328
G1	25	33	109	20	CRJ24-16882329
G1 1/4	31.5	36	119	25	CRJ24-16882330
G1 1/2	35.5	37	125	28	CRJ24-16882331
G2	40	41	140	31.5	CRJ24-16882332

Combined Drill Taps Hex Shank(Drill-Tap-Countersink)

Long Type

- Hole drilling
- Thread cutting (tapping)
- Thread deburring
- Thread cleaning
- Self-centering



Metric Thread

Inch

Size	TPI	L	I1	Shank Dia	Shank L	Order No.
M3	0.5	1.969	0.276	1/4"	1"	CRJ24-16882333
M5	0.8	2.165	0.354	1/4"	1"	CRJ24-16882334
M10	1.5	2.835	0.669	1/4"	1"	CRJ24-16882335

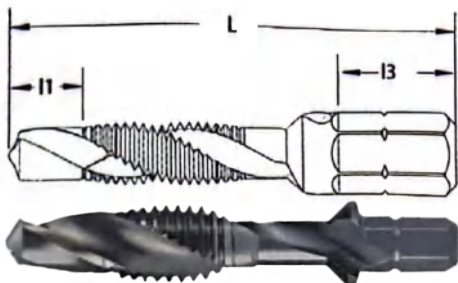
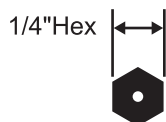
UNC/UNF Thread

Inch

Size	TPI	L	I1	Shank Dia	Shank L	Order No.
No.6	32	2.067	0.256	1/4"	1"	CRJ24-16882336
No.10	24	2.244	0.256	1/4"	1"	CRJ24-16882337
No.3/8	16	3.118	0.650	1/4"	1"	CRJ24-1682338

Short Type

- Hole drilling
- Thread cutting (tapping)
- Thread deburring
- Thread cleaning
- Self-centering



Metric Thread

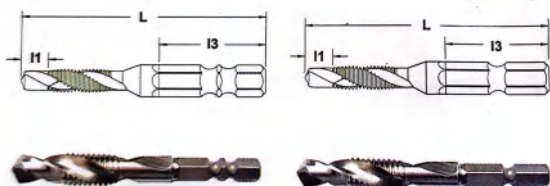
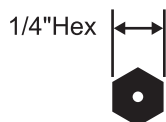
mm

Size	TPI	L	I1	Shank Dia	Shank L	Order No.
M3	0.5	36	5	6.35	14	CRJ24-16882339
M4	0.7	39	6	6.35	14	CRJ24-16882340
M5	0.8	41	7	6.35	14	CRJ24-16882341
M6	1.0	44	8	6.35	14	CRJ24-16882342
M8	1.25	51	11	6.35	14	CRJ24-16882343
M10	1.5	59	15	6.35	14	CRJ24-16882344

Hex Quick Change Shank

Quick Change Shank

- Hole drilling
- Thread cutting (tapping)
- Self-Centering



Metric Thread

mm

Size	TPI	L	I1	Shank Dia	Order No.
M3	0.5	66	4	6.35	CRJ24-16882345
M5	0.8	68	6	6.35	CRJ24-16882346
M10	1.5	73	11	6.35	CRJ24-16882347

UNC/UNF Thread

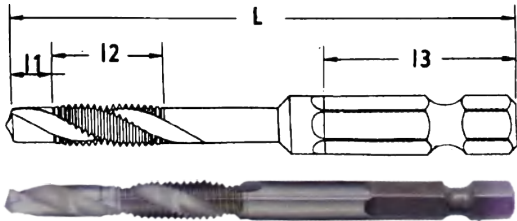
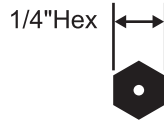
mm

Size	TPI	L	I1	Shank Dia	Order No.
No.6	32	67	6.5	14	CRJ24-16882348
No.10	24	68	6.5	14	CRJ24-16882349
No.3/8	16	73	16.5	14	CRJ24-16882350

Long Drill Tap - Hex Quick Change Shank

Quick Change Shank

- Hole drilling
- Thread cutting (tapping)
- Self-Centering



UNC/UNF Thread

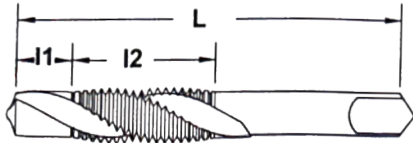
Inch

Size	TPI	L	I1	Drill Dia	Order No.
6	32	3	5/16	0.112	CRJ24-16882351
10	32	3-3/8	13/32	0.164	CRJ24-16882352
1/4	28	3-1/2	17/32	0.220	CRJ24-16882353
5/16	24	3-27/32	11/16	0.277	CRJ24-16882354
7/16	20	4-3/4	1	0.395	CRJ24-16882355

Combined Drill Taps

Square Shank

- Hole drilling
- Thread cutting (tapping)
- Self-centering



Metric Thread

Inch

Size	TPI	L	I1	I2	Order No.
M3	0.5	1-15/16	13/32	9/32	CRJ24-16882356
M5	0.8	2-3/8	5/8	13/32	CRJ24-16882357
M10	1.5	3-3/8	1-1/16	13/16	CRJ24-16882358

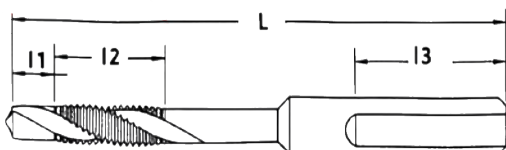
UNC/UNF Thread

Inch

Size	TPI	L	I1	I2	Order No.
No.6	32	2	11/16	5/16	CRJ24-16882359
No.10	24	2-3/8	7/8	13/32	CRJ24-16882360
No.3/8	16	3-1/3	1-1/4	13/16	CRJ24-16882361

Triangle Shank

- Hole drilling
- Thread cutting (tapping)
- Self-centering



UNC/UNF Thread

Inch

Size	TPI	L	I1	I2	Order No.
6	40	2	5/16	7/16	CRJ24-16882362
8	36	2-1/8	3/8	1/2	CRJ24-16882363
10	32	2-3/8	13/32	5/8	CRJ24-16882364

Metric Thread

Inch

Size	TPI	L	I1	I2	Order No.
M3	0.5	2	5/16	7/16	CRJ24-16882365
M4	0.7	2-1/8	3/8	1/2	CRJ24-16882366
M5	0.8	2-3/8	13/32	5/8	CRJ24-16882367
M10	1.5	3-3/8	13/16	1-1/16	CRJ24-16882368

7PCS Tap Set



Type	Order No.
Straight Flute	CRJ24-16882369
Spiral Point	CRJ24-16882370
Spiral Flute	CRJ24-16882371

Taps :M3, M4, M5, M6, M8, M10, M12 (DIN371/DIN376)



DIE SET THREAD TOOL
For drilling external threads



TAP SET THREAD TOOL
For drilling internal threads

32PCS Tap and Die Set



Order No.
CRJ24-16882372

Taps:3x0.5, 4x0.7, 5x0.8, 6x1.0, 8x1.25, 10x1.5, 12x 1.75, (Taper Plug Bottom)

Dies:follow taps size

Tap wrench, Screwdriver, Die handle, Screw-pitch gauge

16PCS Tap and Die Set



Order No.
CRJ24-16882373

Taps:M3x0.5, M4x0.7, M5x0.8, M6x1.0, M8x1.25, M10x1.5, M12x1.75

Dies:M3x0.5, M4x0.7, M5x0.8, M6x1.0, M8x1.25, M10x1.5, M12x1.75

Tap Wrench

110PCS Tap and Die Set



Order No.
CRJ24-16882374

Taps: 4-40, 6-32, 8-32, 10-24, 10-32, 12-24, 1/4"-20, 1/4"-28, 1/4"-24, 1/4"-40, 5/16"-18, 5/16"-24, 3/8"-16, 3/8"-24, 7/16"-14, 7/16"-20, 1/2"-13, 1/2"-20, 9/16"-12, 9/16"-18, 5/8"-11, 5/8"-18, 3/4"-10, 3/4"-16, 6x1.0, 8x1.25, 10x1.5, 10x1.0, 11x1.5, 12x1.25, 12x1.75, 14x1.25, 18x1.5, NPT1/8"-27, NPT1/4"-18

Dies:follow taps size

2PC Tap Wrenches, T type Wrench

Die handle 1"OD, Die handle 1 1/2" OD



METRIC ROUND DIES DIN223

Material:HSS-M2,HSS-M35 Alloy steel,Carbon steel

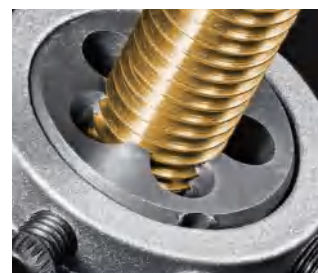


Metric Coarse Thread

Size	Outer-Ø o/d	Order No.
M1x0.25	16x5	CRJ24-16882375
M1.1x0.25	16x5	CRJ24-16882376
M1.2x0.25	16x5	CRJ24-16882377
M1.4x0.25	16x5	CRJ24-16882378
M1.6x0.35	16x5	CRJ24-16882379
M1.7x0.35	16x5	CRJ24-16882380
M1.8x0.35	16x5	CRJ24-16882381
M2x0.4	16x5	CRJ24-16882382
M2.2x0.45	16x5	CRJ24-16882383
M2.3x0.4	16x5	CRJ24-16882384
M2.5x0.45	16x5	CRJ24-16882385
M2.6x0.45	16x5	CRJ24-16882386
M3x0.45	20x5	CRJ24-16882387
M3.5x0.6	20x5	CRJ24-16882388
M4x0.7	20x5	CRJ24-16882389
M4.5x0.75	20x7	CRJ24-16882390
M5x0.8	20x7	CRJ24-16882391
M5.5x0.9	20x7	CRJ24-16882392
M6x1.0	20x7	CRJ24-16882393
M7x1.0	25x9	CRJ24-16882394
M8x1.25	25x9	CRJ24-16882395
M9x1.25	25x9	CRJ24-16882396
M10x1.5	30x11	CRJ24-16882397
M11x1.5	30x11	CRJ24-16882398
M12x1.75	38x14	CRJ24-16882399
M14x2.0	38x14	CRJ24-16882400
M15x2.0	38x14	CRJ24-16882401
M16x2.0	45x18	CRJ24-16882402
M18x2.5	45x18	CRJ24-16882403
M19x2.5	45x18	CRJ24-16882404
M20x2.5	45x18	CRJ24-16882405

Metric Fine Thread

Size	Outer-Ø o/d	Order No.
M2.5x0.35	16x5	CRJ24-16882406
M2.6x0.35	16x5	CRJ24-16882407
M3x0.35	20x5	CRJ24-16882408
M3.5x0.35	20x5	CRJ24-16882409
M4x0.35	20x5	CRJ24-16882410
M4x0.5	20x5	CRJ24-16882411
M4.5x0.5	20x5	CRJ24-16882412
M5x0.5	20x5	CRJ24-16882413
M5.5x0.5	20x5	CRJ24-16882414
M5x0.75	20x7	CRJ24-16882415
M6x0.5	20x5	CRJ24-16882416
M6x0.75	20x7	CRJ24-16882417
M7x0.5	25x9	CRJ24-16882418
M7x0.75	25x9	CRJ24-16882419
M8x0.5	25x9	CRJ24-16882420
M8x0.75	25x9	CRJ24-16882421
M8x1.0	25x9	CRJ24-16882422
M9x0.5	25x9	CRJ24-16882423
M9x0.75	25x9	CRJ24-16882424
M9x1.0	25x9	CRJ24-16882425
M10x0.5	30x11	CRJ24-16882426
M10x0.75	30x11	CRJ24-16882427
M10x1.0	30x11	CRJ24-16882428
M10x1.25	30x11	CRJ24-16882429
M11x1.0	30x11	CRJ24-16882430
M11x1.25	30x11	CRJ24-16882431
M12x0.75	38x10	CRJ24-16882432
M12x1.0	38x10	CRJ24-16882433
M12x0.5	38x10	CRJ24-16882434
M12x1.25	38x10	CRJ24-16882435
M13x0.5	38x10	CRJ24-16882436
M12x1.5	38x10	CRJ24-16882437
M13x0.5	38x10	CRJ24-16882438



Vernier Caliper[Open Vernier]

1. Carbon steel or stainless steel
2. Measuring diameter,depth and step

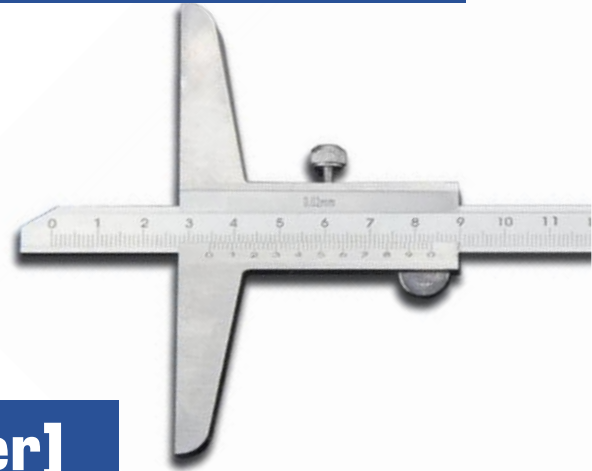
Size	Order No.
0-150mm/0-6"	CRJ24-16882439
0-200mm/0-8"	CRJ24-16882440
0-300mm/0-12"	CRJ24-16882441



Vernier Depth Gages[Mono-Block Vernier]

1. Mono-block vernier
2. Can measure depth
3. Can measure steps

Size	Order No.
0-150mm/0-6"	CRJ24-16882442
0-200mm/0-8"	CRJ24-16882443
0-300mm/0-12"	CRJ24-16882444

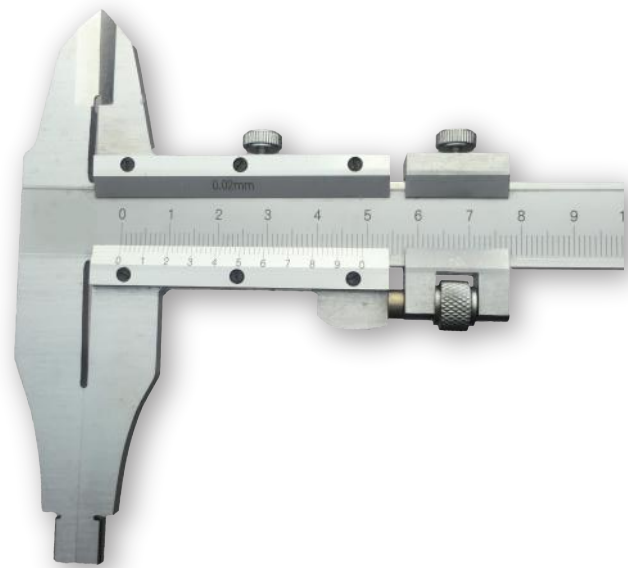


Vernier Caliper[Open Vernier]

-With Fine Adjustment

1. With a fine-tuning
2. Carbon steel or stainless steel
3. Can measure the outside diameter, inside diameter

Size	Order No.
0-150mm/0-6"	CRJ24-16882445
0-200mm/0-8"	CRJ24-16882446
0-300mm/0-12"	CRJ24-16882447
0-400mm/0-16"	CRJ24-16882448
0-450mm/0-18"	CRJ24-16882449
0-500mm/0-20"	CRJ24-16882450
0-600mm/0-24"	CRJ24-16882451
0-800mm/0-32"	CRJ24-16882452
0-1000mm/0-40"	CRJ24-16882453
0-1500mm/0-60"	CRJ24-16882454
0-2000mm/0-80"	CRJ24-16882455



Electronic Caliper

1. Made of stainless steel
2. Metric/inch system interchange
3. Manual power on/off or auto power off
4. Can measure the diameter, depth and step

Size	Order No.
0-150mm/0-6"	CRJ24-16882456
0-200mm/0-8"	CRJ24-16882457
0-300mm/0-12"	CRJ24-16882458



Electronic Caliper

1. Made of stainless steel
2. Metric/inch system interchange
3. Manual power on/off or auto power off
4. Can measure the diameter, depth and step

Size	Order No.
0-150mm/0-6"	CRJ24-16882459
0-200mm/0-8"	CRJ24-16882460
0-300mm/0-12"	CRJ24-16882461



Dial Caliper

1. Easy to read
2. The same time raise both metric and imperial readings
3. Carbon steel and stainless steel

Size	Order No.
0-150mm/0-6"	CRJ24-16882462
0-200mm/0-8"	CRJ24-16882463
0-300mm/0-12"	CRJ24-16882464



Oil & Water Proof Digital Caliper IP67

- 1.IP67 water and dust proof, and also good oil proof.
- 2.Zero setting and power on.
- 3.Metric/Inch system onversion at any position.
- 4.Can measure OD, ID, steps, and depth.
- 5.Auto power off.



Range	Resolution	Accuracy	Order No.
0-150mm/6"	0.01mm/0.0005"	±0.03	CRJ24-16882465
0-200mm/8"	0.01mm/0.0005"	±0.03	CRJ24-16882466
0-300mm/12"	0.01mm/0.0005"	±0.04	CRJ24-16882467

Water Proof Heavy Duty Digital Caliper

- 1.The 500mm digital caliper has a 6"/150mm long jaw
- 2.IP 54 water proof vernier caliper with lock screw
- 3.Entire electronic caliper weighs about 3 pounds, heavy duty caliper
- 4.Large and easy-reading LCD display

Range	Resolution	Accuracy	Order No.
0-300mm/0-12"	0.01mm/0.0005"	0.04mm/0.002"	CRJ24-16882468
0-500mm/0-20"	0.01mm/0.0005"	0.05mm/0.002"	CRJ24-16882469
0-1000mm/0-40"	0.01mm/0.0005"	0.06mm/0.0025"	CRJ24-16882470



Big Screen Digital Caliper

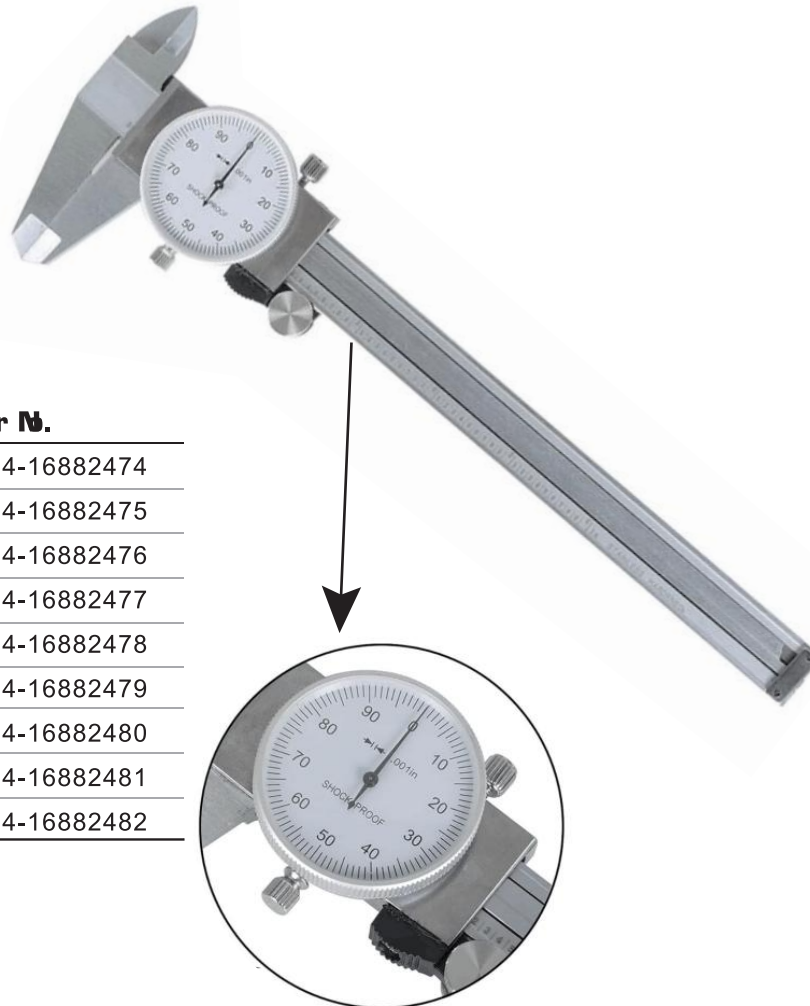
1. Bigger screen with larger digits for easy reading.
2. Manual power on/off..
3. Zero setting and mm/inch conversion at any position.
4. With data output interface.



Range	Resolution	Accuracy	Order No.
0-150mm/6"	0.01mm/0.0005"	±0.03	CRJ24-16882471
0-200mm/8"	0.01mm/0.0005"	±0.03	CRJ24-16882472
0-300mm/12"	0.01mm/0.0005"	±0.04	CRJ24-16882473

Dial Caliper with Double Shock Proof

1. Measure OD, ID, steps and depth.
2. Shock proof
3. Easy reading.
4. With thumb roller for range 200mm or more
5. Metric and inch caliper can be optional.



Range	Grad	Accuracy	Order No.
0-150mm	0.02mm	±0.03	CRJ24-16882474
0-200mm	0.02mm	±0.03	CRJ24-16882475
0-300mm	0.02mm	±0.04	CRJ24-16882476
0-150mm	0.01mm	±0.03	CRJ24-16882477
0-200mm	0.01mm	±0.03	CRJ24-16882478
0-300mm	0.01mm	±0.04	CRJ24-16882479
0-6"	0.001"	±0.0012"	CRJ24-16882480
0-8"	0.001"	±0.0012"	CRJ24-16882481
0-12"	0.001"	±0.0015"	CRJ24-16882482

Inside Groove Digital Caliper

- 1.High-quality stainless steel.
- 2.Large LCD display
- 3.Home, DIY and professional using
- 4.One button quick switch between two units: inch and millimeter

Size	Order No.
0-150mm/0-6"	CRJ24-16882483
0-200mm/0-8"	CRJ24-16882484
0-300mm/0-12"	CRJ24-16882485



Center Distance Digital Caliper

- 1.Center distance between two holes can be easily obtained by moving slider.
- 2.Center distance between two steps holes can be obtained too.
- 3.Can be used to measure the diameter of big hole.
- 4.With external measurement.

Range	Accuracy	Order No.
20-150mm	±0.05mm	CRJ24-16882486
20-200mm	±0.05mm	CRJ24-16882487
20-300mm	±0.07mm	CRJ24-16882488
20-500mm	±0.09mm	CRJ24-16882489
20-1000mm	±0.20mm	CRJ24-16882490



Digital Welding Gauge

- 1.Digital Readout Welding Gauge
- 2.Zero setting at any position
- 3.Metric/Inch system conversion at any position
- 4.The digital welding gage is equipped with an output port
- 5.Both Metric and Inch

Range	Resolution	Order No.
0-20mm	0.10mm	CRJ24-16882491
0-20mm/0.8"	0.01mm/0.0005"	CRJ24-16882492



Height Gauge

1. Mono-block vernier
2. With a fine-tuning
3. Carbon steel or stainless steel

Size	Order No.
0-300mm	CRJ24-16882493
0-450mm	CRJ24-16882494
0-500mm	CRJ24-16882495
0-600mm	CRJ24-16882496



Dial Indicator

1. Steel body
2. Metal dial adjustable ring
3. Measuring rod made of stainless steel

Size	Order No.
0-3mm	CRJ24-16882497
0-5mm	CRJ24-16882498
0-10mm	CRJ24-16882499
0-20mm	CRJ24-16882500
0-30mm	CRJ24-16882501



Thickness Instrument



Measuring thickness

Size	Order No.
0-10mm	CRJ24-16882502
0-20mm	CRJ24-16882503

Outside Micrometer

1. Plastic spray frame
2. Carbide tipped measuring faces

Size	Order No.
0-25mm/0-1"	CRJ24-16882504
25-50mm/1-2"	CRJ24-16882505
50-75mm/2-3"	CRJ24-16882506
75-100mm/3-4"	CRJ24-16882507



Point Micrometer

1. Plastic spray frame

Size	Order No.
0-25mm/0-1"	CRJ24-16882508
25-50mm/1-2"	CRJ24-16882509
50-75mm/2-3"	CRJ24-16882510
75-100mm/3-4"	CRJ24-16882511



Digital Micrometer

1. Carbide amount of surface
2. Any position Zero
3. Metric / inch interchangeable

Size	Order No.
0-25mm/0-1"	CRJ24-16882512
25-50mm/1-2"	CRJ24-16882513
50-75mm/2-3"	CRJ24-16882514
75-100mm/3-4"	CRJ24-16882515



Outside Micrometer Set

- 1. Painted casting frame.
- 2. Carbide measuring faces.

Range	Grad.	pcs/set	Order No.
0-100mm	0.01mm	4	CRJ24-16882516
0-100mm	0.001mm	4	CRJ24-16882517
0-150mm	0.01mm	6	CRJ24-16882518
0-200mm	0.01mm	8	CRJ24-16882519
150-300mm	0.01mm	6	CRJ24-16882520
0-300mm	0.01mm	12	CRJ24-16882521



Indicating Micrometer

- 1. Carbide measuring faces.
- 2. With metric and inch system.
- 3. Spindle and anvil are made of hardened high quality steel.

Range of Micrometer Head	Range of Indicator	Indicator	Indicator Micrometer	Order No.
0-25mm	±0.06mm	±1µm	±3µm	CRJ24-16882522
0-25mm	±0.04mm	±1µm	±3µm	CRJ24-16882523
0-25mm	±0.03mm	±1µm	±3µm	CRJ24-16882524
0-1"	±±0.0023"	±0.5µm	±0.00015"	CRJ24-16882525



Digital Tube Gauge

- 1. Inch and Metric Reading Function
- 2. Extra Large LCD Screen
- 3. Designed with grip handle and thumb trigger

Range	Resolution	Accuracy	Order No.
0-10mm	0.001mm/0.00005"	±9µm	CRJ24-16882526
0-10mm	0.01mm/0.0005"	±30µm	CRJ24-16882527



Rafter Square Angle Ruler

1. Frame angle, triangle, miter angle and protractor angle at the same time, and can also be used as a scribe and saw blade guide
2. Rust-resistant, wear-resistant and corrosion-resistant, durable and not easy to break
3. The scale of the ruler is clear, accurate and easy to read
4. 12-inch: 12x12x17 inches (310x310x430mm); 7-inch: 7x7x10 inches (180x180x260mm)

Material: Aluminum Alloy



CRJ24-16882528

12 inch Combination Square

1. 12"/300mm 4 in 1/SET, 1/32" and 0.5mm on the front while 1/64" and 1mm on the back side.
2. Used for set-ups. Layouts, checking heights, depths, angle set-ups, etc.
3. Easy-to-read satin chrome finished blades.
4. Equipped with a square head, level, and scribe point for comprehensive machining setups.



CRJ24-16882529



180 Degree Protractor

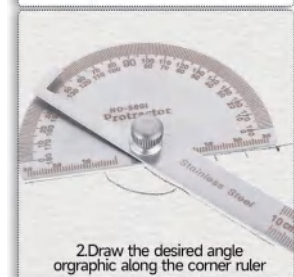
1. Stainless steel material, integrally formed, high hardness, strong toughness
2. Laser engraving, the figures are clear and precise, and easy to use.
3. The range of 0-180°, fix device of the marking nut is firm to prevent it from falling off.
4. Angle Graduation: 0-180 Degree. Ruler Graduation: 0-10cm.



CRJ24-16882530



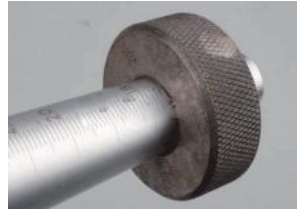
1. Adjust the required angle of the logpoint and tighten the screw



2. Draw the desired angle or graphic along the corner ruler

Hole Taper Ruler

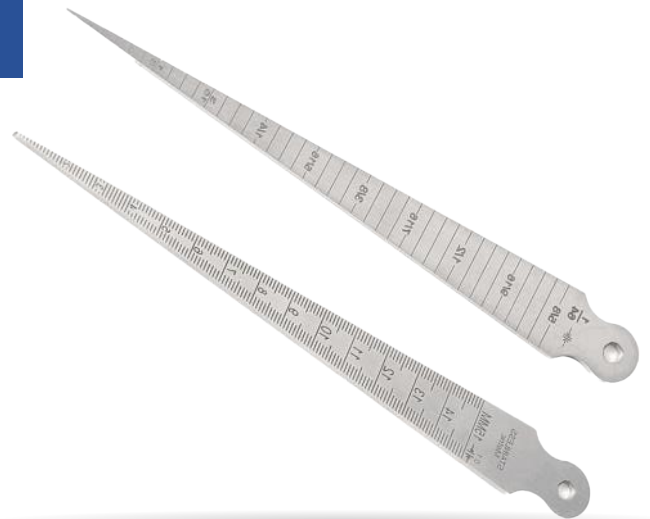
- 1.For Measuring Hole Diameter.
- 2.Made of polished stainless steel.
- 3.Sizes engraved to last longer and read easily.



Range	Graduation	Accuracy	Order No.
1-6.5mm	0.1mm	±0.05	CRJ24-16882531
3-15mm	0.1mm	±0.05	CRJ24-16882532

Stainless Taper Gauges

- 1.For measuring of slot width, gap hole and etc.
- 2.Made of stainless steel, durable
- 3.Welding taper gauge: 1-15mm (1/64-5/8 inch)



CRJ24-16882534

Feeler Gauges - 32 Blades

Metric sizes: 0.04, 0.05, 0.06, 0.08, 0.10, 0.13, 0.15, 0.18, 0.20, 0.23, 0.25, 0.25, 0.28, 0.30, 0.33, 0.35, 0.38, 0.40, 0.43, 0.45, 0.48, 0.50, 0.53, 0.55, 0.58, 0.60, 0.63, 0.65, 0.70, 0.75, 0.80, 0.88mm.

Inch sizes: 0.0015, 0.002, 0.0025, 0.003, 0.004, 0.005, 0.006, 0.007, 0.008, 0.009, 0.010, 0.010, 0.011, 0.012, 0.013, 0.014, 0.015, 0.016, 0.017, 0.018, 0.019, 0.020, 0.021, 0.022, 0.023, 0.024, 0.025, 0.026, 0.028, 0.030, 0.032, 0.035Inch.



CRJ24-16882535

5PCS Extractor Set

Size:#1, #2, #3, #4, #5



CRJ24-16882536



CRJ24-16882537



CRJ24-16882538

6PCS Extractor Set

Size:#0, #1, #2, #2, #3, #4



CRJ24-16882539



CRJ24-16882540

CRJ24-16881632

Double heads
#7 :M25-M35
#8:M35-M50



5PCS Extractor Set



CRJ24-16882541



CRJ24-16882542



8PCS Extractor Set

Size:#1, #2, #3, #4, #5, #6, #7, #8



CRJ24-16882543



CRJ24-16882544

10PCS Extractor Set

Size:
Extractor :#1, #2, #3, #4, #5
Twist Drill:2, 3, 4, 6.3, 7.5mm



CRJ24-16882545



CRJ24-16882546

12PCS Extractor Set

Size:
Eextractor:#1, #2, #3, #4, #5
Twist Drill:2, 3, 4, 6.3, 7.5mm



CRJ24-16882547



CRJ24-16882548

5PCS Extractor Set

Size:#5, #1, #2, #3, #4



CRJ24-16882549



CRJ24-16882550



CRJ24-16882551



CRJ24-16882552



CRJ24-16882553



CRJ24-16882554

10PCS Extractor Set

Size:
Eextractor :#1, #2, #3, #4, #5
Twist Drill:2, 3, 4, 6.3, 7.5mm



CRJ24-16882555

11PCS Extractor Set

Size:
Eextractor :#1, #2, #3, #4, #5
Twist Drill:2, 3, 4, 6.3, 7.5mm
1pc tap wrench



CRJ24-16882556

12PCS Extractor Set

Size:
Eextractor :#1, #2, #3, #4, #5, #6
Drill:1/16", 1/8", 5/32", 1/4", 9/32", 3/8"



CRJ24-16882557

Thread Repair Set 16PCS

CRJ24-16882558

Size:10 stainless steel
1/2-13 Inserts,
1 tap
1 twist drill,
1 coil driver,
1 tang breaker,
1 L hex wrench



88PCS Set

CRJ24-16882560

Size:Sizes:M6x1.0, M8x1 .25, M10x1 .5
Material:304 Stainless Steel, High Speed Steel, PVC handle 3 Drills:
101mm, 117mm, 133mm
3 Taps:70mm, 75.3mm, 85.5mm
3 L Installation Tools:133mm
3 Breaking Tools:101mm
1 L Wrench:51mm
Screw Thread Inserts:
M6x7.0mm(25pcs), M8x9.5mm(25pcs)
M10x12mm(25pcs)



15PCS Set

CRJ24-16882559

Size:M5~M14
Material:304 Stainless Steel, Carbon Steel,
High Speed Steel
Including:
Screw Thread Inserts 11pcs
Drill 1pc
Tap 1pc
Installation Tool 1pc
Breaking Tool 1pc



261PCS Set

CRJ24-16882561

Sizes:Screw Thread Inserts:1/2(10pcs),
7/16(25pcs), 3/8(25pcs), 5/16(25pcs),
1/4(25pcs), M12x1.75mm(25pcs),
M10x1.5mm(10pcs), M8x1.25mm(25pcs),
M12x16.3mm(25pcs)M5x0.8(25pcs),
M6x1.0(25pcs)
10 Drills
10 Taps
10 L Installation Tools
10 Breaking Tools
1 L Wrench



131PCS Set

CRJ24-16882562

Sizes: M5x0.8, M6x1.0, M8x1.25, M10x1.5, M12x1.75
 Material: 304 Stainless Steel, High Speed Steel, PVC handle
 5 Drills: HSS5.2, HSS6.2, HSS8.3, HSS10.3, HSS12.4
 5 Taps: 66mm, 70mm, 75mm, 85mm, 89mm
 5 L Installation Tools: 133mm+2mm
 5 Breaking Tools: 101mm+2mm
 1 L Wrench: 50mm
 Screw Thread Inserts: M5x6.7mm (25pcs), M6x10.8mm (25pcs),
 M8x10.8mm (25pcs), M10x13.5mm (25pcs), M12x16.3mm (10pcs)



25PCS Extractor Set

Size:
 1/8", 5/32", 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 13/32",
 7/16", 15/32", 1/2", 17/32", 9/16", 19/32", 5/8", 21/32", 11/16",
 23/32", 3/4", 25/32", 13/16", 27/32", 7/8"



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27PCS Extractor Set

Size:
 Set 1/8", 5/32", 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 13/32",
 7/16", 15/32", 1/2", 17/32", 9/16", 19/32", 5/8", 21/32", 11/16", 23/32",
 3/4", 25/32", 13/16", 27/32", 7/8"
 3/8" Conversion connecting rod 1/2" joint



CRJ24-16882564

49PCS Extractor Set

CRJ24-16882565

Size:
 3/8"Extractor:1/4", 5/16", 3/8", 10MM, 11MM, 12MM, 1/2", 13MM, 14MM,
 16MM, 17MM, 11/16", 19MM
 13PCS Jacket:
 1/8", 5/32", 3/16", 7/32", 1/4", 9/32", 5/16", 11/32",3/8", 13/32", 7/16",
 15/32", 1/2"
 16PCS Drills:
 5/64", 7/64", 1/8", 5/32", 3/16", 7/32", 1/4", 9/32", 19/64", 5/16", 11/32",
 3/8", 13/32", 7/16", 15/32", 1/2"
 Extractor:1#, 2#, 3#, 4#, 5#, 6#
 Conversion connecting rod:3/8"



35PCS Extractor Set

CRJ24-16882566

Size:
 13PCS Jacket:
 1/8", 5/32", 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8",
 13/32", 7/16", 15/32", 1/2"
 16PCS Drills:
 5/64", 7/64", 1/8", 5/32", 3/16", 7/32", 1/4", 9/32",
 19/64", 5/16", 11/32", 3/8", 13/32", 7/16", 15/32", 1/2"
 Extractor:
 1#, 2#, 3#, 4#, 5#, 6#



10PCS Extractor Set

CRJ24-16882567

Size:
 9mm, 10mm, 11mm, 12mm, 13mm, 14mm,
 15mm, 16mm, 17mm, 19mm



13PCS Extractor Set

CRJ24-16882568

Size:
 1/4", 8mm, 3/8", 10mm, 11mm, 12mm, 1/2",
 13mm, 14mm, 16mm, 17mm, 11/16", 19mm



15PCS Extractor Set

CRJ24-16882569

Size:
 10mm, 12mm, 14mm, 16mm, 17mm,
 19mm, 21mm, 22mm, 24mm, 25mm, 27mm





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