



New products catalogue 2010



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N1150

Flow drills(form drills), solid carbide,Great drills, professional for pipe cutting

Flow drill process:

The flow drill comes into contact with the material using relatively high axial pressure and rotational speed. The generated heat makes the material soft and malleable enough to be formed or perforated. As the flow drills push into the material, some of the displaced material forms a collar around the upper surface of the workpiece. The rest of the material forms a bushing in the lower surface of the workpiece. All this happens in a matter of seconds. The resulting collar and bushing can be up to 3 times the original material thickness. The diameter of the bush is accurately determined by the cylindrical part of the flow drill tool. The process does not disturb the material's internal structure. As a result, the formed bush is remarkably strong and can be used for bearing sleeves or, when threaded in a separate process, can provide high torque threaded surfaces with very high pull out strength specifications.

Applications:

The flow drill process can be used in any application where the material thickness does not provide support for a threaded surface or a sleeve bearing application. When you need a welded or revited nut or a special insert,---think flow drill. You will improve quality and save a lot of money. Flow drill tools can be used on standard drilling machines, NC or CNC systems with motor capacities from 1.5 to 3.5 kw. Revolution speeds(RPM) required range from 1000 to 3500 RPM.



| size(mm) | SHORT | | SHORT/FLAT | | LONG | | LONG/FLAT | |
|--------------|-------|------|------------|------|------|------|-----------|------|
| | mm. | inch | mm. | inch | mm. | inch | mm. | inch |
| 2.0 -- 2.9 | 1.5 | 0.1 | 2.0 | 0.1 | 2.5 | 0.1 | 3.0 | 0.1 |
| 3.0 -- 3.9 | 1.5 | 0.06 | 2.0 | 0.08 | 2.5 | 0.1 | 4.0 | 0.2 |
| 4.0 -- 4.9 | 2.0 | 0.08 | 2.5 | 0.10 | 2.5 | 0.1 | 4.0 | 0.2 |
| 5.0 -- 5.9 | 2.0 | 0.08 | 2.5 | 0.10 | 3.0 | 0.1 | 4.0 | 0.2 |
| 6.0 -- 6.9 | 2.5 | 0.10 | 3.0 | 0.12 | 3.5 | 0.1 | 5.0 | 0.2 |
| 7.0 -- 7.9 | 2.5 | 0.10 | 3.0 | 0.12 | 4.0 | 0.2 | 6.0 | 0.2 |
| 8.0 -- 8.9 | 3.0 | 0.12 | 4.0 | 0.16 | 4.5 | 0.2 | 6.0 | 0.2 |
| 9.0 -- 9.9 | 3.0 | 0.12 | 4.0 | 0.16 | 5.0 | 0.2 | 6.0 | 0.2 |
| 10.0 -- 10.9 | 3.0 | 0.12 | 4.0 | 0.16 | 6.0 | 0.2 | 7.0 | 0.3 |
| 11.0 -- 11.9 | 3.0 | 0.12 | 4.0 | 0.16 | 6.0 | 0.2 | 7.0 | 0.3 |
| 12.0 -- 12.9 | 3.0 | 0.12 | 4.0 | 0.16 | 6.0 | 0.2 | 7.0 | 0.3 |
| 13.0 -- 13.9 | 3.5 | 0.14 | 4.5 | 0.18 | 6.0 | 0.2 | 7.0 | 0.3 |
| 14.0 -- 14.9 | 3.5 | 0.14 | 4.5 | 0.18 | 6.0 | 0.2 | 7.0 | 0.3 |
| 15.0 -- 15.9 | 3.5 | 0.14 | 4.5 | 0.18 | 7.0 | 0.3 | 8.5 | 0.3 |
| 16.0 -- 16.9 | 3.5 | 0.14 | 4.5 | 0.18 | 7.0 | 0.3 | 8.5 | 0.3 |



N1009
HSS form taps DIN371/DIN376 New!

Forming taps however provide multiple advantages. For ductile work materials, thread forming can provide better size control and stronger threads while improving tool life and productivity.

Unlike thread cutting, no material is removed during thread forming. Rather, the process displaces the material to generate the thread form.

Since the metal's structure is cold worked along the thread profile, the threads produced are generally stronger and have a smooth, burnished surface finish. Cold forming taps can be operated at higher speeds and feeds than conventional taps.

Cold forming technology has been used to produce threads for more than 100 years. Tap designs have changed considerably in that time. This combined with the newest coatings guarantees a very long tool life in most applications.

Forming taps must be applied in materials that cold form well. This includes steels, stainless steels, light metals, light metal alloys and other materials with tensile strength to 1200N/mm². Generally, materials that produce a continuous chip when drilling are good candidates for thread forming.

In combination with Formdrill, thread forming will boost quality and throughput.

| Size(MM) | DIN371 | | L1 | L2 | D2 | ◇ |
|----------|--------|------|-----|----|------|------|
| 3 | x | 0.5 | 56 | 11 | 3.5 | 2.7 |
| 4 | x | 0.7 | 63 | 13 | 4.5 | 3.4 |
| 5 | x | 0.8 | 70 | 16 | 6.0 | 4.9 |
| 6 | x | 1.0 | 80 | 19 | 6.0 | 4.9 |
| 8 | x | 1.25 | 90 | 22 | 8.0 | 6.2 |
| 10 | x | 1.5 | 100 | 24 | 10.0 | 8.0 |
| Size(MM) | DIN376 | | | | | |
| 12 | x | 1.75 | 110 | 29 | 9.0 | 7.0 |
| 14 | x | 2.0 | 110 | 30 | 11.0 | 9.0 |
| 16 | x | 2.0 | 110 | 32 | 12.0 | 9.0 |
| 18 | x | 2.5 | 125 | 34 | 14.0 | 11.0 |





New!



N1007 PCB solid carbide twist drills

Solid carbide twist drills for machining of printed circuit boards(1/8" shank)

| Size mm | O.L. mm | F.L. mm |
|------------|------------|------------|
| 0.20 | 38 | 3.2 |
| 0.25 | 38 | 3.2 |
| 0.30 | 38 | 3.2 |
| 0.35 | 38 | 3.2 |
| 0.40 | 38 | 3.2 |
| 0.45 | 38 | 4.8 |
| 0.50 | 38 | 4.8 |
| 0.55 | 38 | 4.8 |
| 0.60 | 38 | 6.5 |
| 0.65 | 38 | 6.5 |
| 0.70 | 38 | 8.5 |
| 0.75 | 38 | 8.5 |
| 0.80 | 38 | 9.5 |
| 0.85 | 38 | 9.5 |
| 0.90 | 38 | 9.5 |
| 0.95 | 38 | 9.5 |
| 1.00 | 38 | 9.5 |
| 1.05 | 38 | 10.5 |
| 1.10 | 38 | 10.5 |
| 1.15 | 38 | 10.5 |
| 1.20 | 38 | 10.5 |
| 1.25 | 38 | 10.5 |
| 1.30 | 38 | 10.5 |
| 1.35 | 38 | 10.5 |
| 1.40 | 38 | 10.5 |
| 1.45 | 38 | 10.5 |
| 1.50 | 38 | 10.5 |
| 1.55 | 38 | 10.5 |
| 1.60 | 38 | 10.5 |
| 1.65 | 38 | 10.5 |
| 1.70 | 38 | 10.5 |
| 1.75 | 38 | 10.5 |
| 1.80 | 38 | 10.5 |
| 1.85 | 38 | 10.5 |
| 1.90 | 38 | 10.5 |
| 1.95 | 38 | 10.5 |
| 2.00 | 38 | 10.5 |
| 2.05 | 38 | 10.5 |
| 2.10 | 38 | 10.5 |
| 2.15 | 38 | 10.5 |
| 2.20 | 38 | 10.5 |

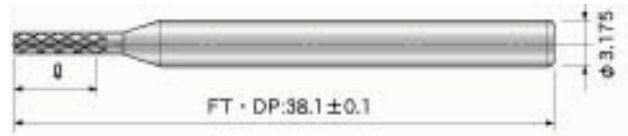
| Size mm | O.L. mm | F.L. mm |
|------------|------------|------------|
| 2.25 | 38 | 10.5 |
| 2.30 | 38 | 10.5 |
| 2.35 | 38 | 10.5 |
| 2.40 | 38 | 10.5 |
| 2.45 | 38 | 10.5 |
| 2.50 | 38 | 10.5 |
| 2.55 | 38 | 10.5 |
| 2.60 | 38 | 10.5 |
| 2.65 | 38 | 10.5 |
| 2.70 | 38 | 10.5 |
| 2.75 | 38 | 10.5 |
| 2.80 | 38 | 10.5 |
| 2.85 | 38 | 10.5 |
| 2.90 | 38 | 10.5 |
| 2.95 | 38 | 10.5 |
| 3.00 | 38 | 10.5 |
| 3.05 | 38 | 10.5 |
| 3.10 | 38 | 10.5 |
| 3.15 | 38 | 10.5 |
| 3.175 | 38 | 10.5 |
| 3.20 | 38 | 12.5 |
| 3.25 | 38 | 12.5 |
| 3.30 | 38 | 12.5 |
| 3.35 | 38 | 12.5 |
| 3.40 | 38 | 12.5 |
| 3.45 | 38 | 12.5 |
| 3.50 | 38 | 12.5 |
| 3.55 | 38 | 12.5 |
| 3.60 | 38 | 12.5 |
| 3.65 | 38 | 12.5 |
| 3.70 | 38 | 12.5 |
| 3.75 | 38 | 12.5 |
| 3.80 | 38 | 12.5 |
| 3.85 | 38 | 12.5 |
| 3.90 | 38 | 12.5 |
| 3.95 | 38 | 12.5 |
| 4.00 | 38 | 12.5 |
| 4.05 | 38 | 12.5 |
| 4.10 | 38 | 12.5 |
| 4.15 | 38 | 12.5 |
| 4.20 | 38 | 12.5 |

| Size | O.L. | F.L. |
|------|------|------|
| mm | mm | mm |
| 4.25 | 38 | 12.5 |
| 4.30 | 38 | 12.5 |
| 4.35 | 38 | 12.5 |
| 4.40 | 38 | 12.5 |
| 4.45 | 38 | 12.5 |
| 4.50 | 38 | 12.5 |
| 4.55 | 38 | 12.5 |
| 4.60 | 38 | 12.5 |
| 4.65 | 38 | 12.5 |
| 4.70 | 38 | 12.5 |
| 4.75 | 38 | 12.5 |
| 4.80 | 38 | 12.5 |
| 4.85 | 38 | 12.5 |
| 4.90 | 38 | 12.5 |
| 4.95 | 38 | 12.5 |
| 5.00 | 38 | 12.5 |
| 5.05 | 38 | 12.5 |
| 5.10 | 38 | 12.5 |

| Size | O.L. | F.L. |
|------|------|------|
| mm | mm | mm |
| 5.15 | 38 | 12.5 |
| 5.20 | 38 | 12.5 |
| 5.25 | 38 | 12.5 |
| 5.30 | 38 | 12.5 |
| 5.35 | 38 | 12.5 |
| 5.40 | 38 | 12.5 |
| 5.45 | 38 | 12.5 |
| 5.50 | 38 | 12.5 |
| 5.55 | 38 | 12.5 |
| 5.60 | 38 | 12.5 |
| 5.65 | 38 | 12.5 |
| 5.70 | 38 | 12.5 |
| 5.75 | 38 | 12.5 |
| 5.80 | 38 | 12.5 |
| 5.85 | 38 | 12.5 |
| 5.90 | 38 | 12.5 |
| 5.95 | 38 | 12.5 |



New!



N1008 PCB solid carbide end mills

Solid carbide end mills for machining of printed circuit boards(1/8" shank)

| Size | O.L. | F.L. |
|------|------|------|
| mm | mm | mm |
| 0.60 | 38.1 | 4.0 |
| 0.70 | 38.1 | 4.0 |
| 0.80 | 38.1 | 4.5 |
| 0.90 | 38.1 | 4.5 |
| 1.00 | 38.1 | 4.5 |
| 1.10 | 38.1 | 4.5 |
| 1.20 | 38.1 | 5.0 |
| 1.30 | 38.1 | 5.0 |
| 1.40 | 38.1 | 5.0 |
| 1.50 | 38.1 | 6.5 |
| 1.60 | 38.1 | 6.5 |
| 1.70 | 38.1 | 6.5 |
| 1.80 | 38.1 | 6.5 |
| 1.90 | 38.1 | 8 |

| Size | O.L. | F.L. |
|-------|------|------|
| mm | mm | mm |
| 2.00 | 38.1 | 8.0 |
| 2.10 | 38.1 | 8.0 |
| 2.20 | 38.1 | 8.0 |
| 2.30 | 38.1 | 9.5 |
| 2.40 | 38.1 | 9.5 |
| 2.50 | 38.1 | 9.5 |
| 2.60 | 38.1 | 9.5 |
| 2.70 | 38.1 | 9.5 |
| 2.80 | 38.1 | 9.5 |
| 2.90 | 38.1 | 9.5 |
| 3.00 | 38.1 | 10.0 |
| 3.10 | 38.1 | 10.0 |
| 3.175 | 38.1 | 10.0 |



New!



N1164

Solid carbide twist drills with internal coolant holes, DIN6537

The range of application drills extends from steel materials and cast iron right up to non-ferrous metals.

These tools also work with absolute process reliability in difficult materials such as stainless steels and nickel-base alloys.

The coolant must pass through the narrow cooling ducts only in the area of the flutes.

This improves the cutting capacity and process reliability even further.

| Size | Total Length | Flute Length |
|------|--------------|--------------|
| mm | mm | mm |
| 3.00 | 62 | 20 |
| 3.30 | 62 | 20 |
| 3.50 | 62 | 20 |
| 3.80 | 66 | 24 |
| 4.00 | 66 | 24 |
| 4.20 | 66 | 24 |
| 4.50 | 66 | 24 |
| 4.70 | 66 | 24 |
| 4.80 | 66 | 28 |
| 5.00 | 66 | 28 |
| 5.50 | 66 | 28 |
| 5.80 | 66 | 28 |
| 6.00 | 66 | 28 |
| 6.30 | 79 | 34 |
| 6.50 | 79 | 34 |
| 6.80 | 79 | 34 |
| 7.00 | 79 | 34 |
| 7.40 | 79 | 41 |
| 7.50 | 79 | 41 |
| 7.80 | 79 | 41 |
| 8.00 | 79 | 41 |
| 8.50 | 89 | 47 |
| 8.80 | 89 | 47 |
| 9.00 | 89 | 47 |
| 9.20 | 89 | 47 |
| 9.50 | 89 | 47 |

| Size | Total Length | Flute Length |
|-------|--------------|--------------|
| mm | mm | mm |
| 9.80 | 89 | 47 |
| 10.00 | 89 | 47 |
| 10.20 | 102 | 55 |
| 10.50 | 102 | 55 |
| 10.80 | 102 | 55 |
| 11.00 | 102 | 55 |
| 11.20 | 102 | 55 |
| 11.50 | 102 | 55 |
| 11.80 | 102 | 55 |
| 12.00 | 102 | 55 |
| 12.50 | 107 | 60 |
| 12.80 | 107 | 60 |
| 13.00 | 107 | 60 |
| 13.50 | 107 | 60 |
| 13.80 | 107 | 60 |
| 14.00 | 107 | 60 |
| 14.50 | 115 | 65 |
| 14.80 | 115 | 65 |
| 15.00 | 115 | 65 |
| 15.50 | 115 | 65 |
| 15.80 | 115 | 65 |
| 16.00 | 115 | 65 |
| 17.00 | 123 | 73 |
| 18.00 | 123 | 73 |
| 19.00 | 131 | 79 |
| 20.00 | 131 | 79 |



| Size mm | O.L. mm |
|------------|------------|
| 6.00 | 66 |
| 7.00 | 74 |
| 8.00 | 79 |
| 10.00 | 89 |

GCH075 HSS-Co Spot-weld Drills
material M35(5% cobalt), bright finish, fully ground

GCH075-A Solid Carbide Spot-weld Drills New!

Applications: for removing spot weld spots on car body



Top quality for stainless steels!
New!

GCH102 HSS Machine Taps DIN 371, spiral point, fully ground, with high quality TiALN coating for stainless steel tapping, material M35(HSS 5% Cobalt)

| Size(MM) | DIN371 | | L1 | L2 | D2 | ◇ |
|----------|--------|------|-----|----|------|-----|
| 3 | x | 0.5 | 56 | 11 | 3.5 | 2.7 |
| 4 | x | 0.7 | 63 | 13 | 4.5 | 3.4 |
| 5 | x | 0.8 | 70 | 16 | 6.0 | 4.9 |
| 6 | x | 1.0 | 80 | 19 | 6.0 | 4.9 |
| 7 | x | 1.0 | 80 | 19 | 7.0 | 5.5 |
| 8 | x | 1.25 | 90 | 22 | 8.0 | 6.2 |
| 10 | x | 1.5 | 100 | 24 | 10.0 | 8.0 |



Top quality for tough treatable steels!
New!

GCH103 HSS Machine Taps DIN 371, spiral flute of 15°, fully ground, high quality TiALN coating for stainless steel tapping, material M35(HSS 5% Cobalt)

| Size(MM) | DIN371 | | L1 | L2 | D2 | ◇ |
|----------|--------|------|-----|----|------|-----|
| 3 | x | 0.5 | 56 | 11 | 3.5 | 2.7 |
| 4 | x | 0.7 | 63 | 13 | 4.5 | 3.4 |
| 5 | x | 0.8 | 70 | 16 | 6.0 | 4.9 |
| 6 | x | 1.0 | 80 | 19 | 6.0 | 4.9 |
| 7 | x | 1.0 | 80 | 19 | 7.0 | 5.5 |
| 8 | x | 1.25 | 90 | 22 | 8.0 | 6.2 |
| 10 | x | 1.5 | 100 | 24 | 10.0 | 8.0 |



New!

Top quality sintered glass drills!

- GMH1065A Diamond sinterd glass drills with round shank**
- GMH1065B Diamond sinterd glass drills with taper shank**
- GMH1065C Diamond sinterd glass drills with thread shank**



| SIZE(MM) | SIZE(MM) | SIZE(MM) | SIZE(MM) | SIZE(MM) | SIZE(MM) |
|----------|----------|----------|----------|----------|----------|
| 5 | 22 | 39 | 56 | 73 | 90 |
| 6 | 23 | 40 | 57 | 74 | 91 |
| 7 | 24 | 41 | 58 | 75 | 92 |
| 8 | 25 | 42 | 59 | 76 | 93 |
| 9 | 26 | 43 | 60 | 77 | 94 |
| 10 | 27 | 44 | 61 | 78 | 95 |
| 11 | 28 | 45 | 62 | 79 | 96 |
| 12 | 29 | 46 | 63 | 80 | 97 |
| 13 | 30 | 47 | 64 | 81 | 98 |
| 14 | 31 | 48 | 65 | 82 | 99 |
| 15 | 32 | 49 | 66 | 83 | 100 |
| 16 | 33 | 50 | 67 | 84 | |
| 17 | 34 | 51 | 68 | 85 | |
| 18 | 35 | 52 | 69 | 86 | |
| 19 | 36 | 53 | 70 | 87 | |
| 20 | 37 | 54 | 71 | 88 | |
| 21 | 38 | 55 | 72 | 89 | |



GCH055

HSS twist drills DIN 1869, deep hole drilling, parabolic flute, material M2 or M35

[size: 2.0-13.0 mm 3 series](#)



GCH014

HSS twist drills DIN 338, quick spiral, excellent cutting performance, parabolic flute, material M2 or M35

[size: 1.0 -16.0 mm x 0.5 mm](#)

GT9001

2 PCS Spottle Weld drill set with Milling Crown

Applications:

Drilling of thin sheet metal,aluminium.

Usually use for car repair welding cleaning.

Double head cutter Material:M2

Size: 3/8" 5/16"

Hex shank of Nickel-plated,material of C45

With centering pin of 2.5mm material bearing steel



GT9005

13 PCS turbo drills in plastic box.

Size:

2/2.5/3/3.5/4/4.5/5/5.5/6/6.5/7/7.5

8mm

tri angle shank

Black and gold flute.

This drill drill well for aluminum machining.



GT9014

5 PCS extra long shank carbide burrs

Size:TYPE A 12*25mm/TYPE C 12*30mm/TYPE M

12*10mm/TYPE D 12*25mm / TYPE E 12*20mm.

150mm long shank,we also can supply you special shank as your inquiry.



GT9023

16 pcs wood drills and twist drills with hex shank

wood drills size: 3/4/5/6/7/8/9/10 mm

twist drills size: 3/4/5/6/7/8/9/10 mm





GT9017

6 pcs solid carbide twist drills with internal coolant holes
 sizes: 3.3/4.2/5.0/6.8/8.5/10.2 mm



GT9018

3 pcs HSS-TiN step drills with spiral flute in wooden box
 size:4-12/4-20/4-32 mm



GT1190

20 pcs end mills metric TiN-coated,
 4flutes:3 x 52mm; 4 x 55mm; 5 x 57mm; 6 x 57mm; 8 x 69mm;
 10 x 72mm; 12 x 83mm; 14 x 83mm; 18 x 92mm; 20 x 104mm
 2flutes:3 x 49mm; 4 x 51mm; 5 x 52mm; 6 x 52mm; 8 x 61mm;
 10 x 63mm; 12 x 73mm; 14 x 73mm; 18 x 79mm; 20 x 88mm



GT9024

10 pcs rough teeth carbide burrs for Aluminum cutting

| 10pcs | mm | mm | <i>New!</i> |
|--------------|---------|---------|-------------|
| 2 pcs TYPE A | 12 x 25 | 10 x 20 | |
| 2 pcs TYPE C | 12 x 25 | 10 x 20 | |
| 2 pcs TYPE G | 12 x 25 | 10 x 20 | |
| 2 pcs TYPE F | 12 x 25 | 10 x 20 | |
| 1 pc TYPE M | 12 X 25 | | |
| 1 pc TYPE D | 12 X 10 | | |



GT9025 *New!*
10 pcs mini carbide burrs for steel cutting



GT9022
110 pcs Thread repair kit
with wire thread inserts, stainless steel
M5/M6/M8/M10 20 pcs each
M12 10 pcs
5 pcs HSS twist drills DIN 338
5 pcs HSS intermediate tap
5 pcs installation tool
5 pcs tang breaker



GT9027
5 pcs dovetail cutters in wooden box
M2 or M35 material, TiN coating,
sizes:13/16/19/25/32 mm



GT9028
3 pcs Woodruff milling cutters in wooden plate
M2 or M35 material,
sizes: as per your requirement



GT9029
8 pcs
M2 or M35 material,
sizes: as per your requirement



GT9030
7 pcs milling cutters in wooden box
M2 or M35 material,
sizes: as per your requirement



GT9031
7 pcs DIN373 flat countersinks in wooden box
M2 material,
sizes: M3/M4/M5/M6/M8/M10/M12



GT9026
7 pcs twist drills and 7 pcs HSS machine taps
in metal box
drill size: 2.5/3.3/4.2/5.0/6.8/8.5/10.2 mm
Tap size: M3/M4/M5/M6/M8/M10/M12

