

Pneumatic Drills, Tappers

ALLGEMEINE VERWENDUNG

Our pneumatic drill series PV, is well-suited for the manual drilling into metal, wood and plastics. The maximum drill-insert diameter is shown in the technical data of each drill.

Our pneumatic tappers can be used for tapping threads into steel, aluminum and other materials.

LARGE PRODUCT LINE

All our power tools excel through their high quality, ergonomic design, simple and safe operation, low maintenance and a top-of-the-line power to weight ratio. We gladly help you select the most suitable drill or tapper; please speak with our product specialists and refer to the technical data located in our catalogs.



DRILLS

Model PV 6-32, PVR

Our Bestseller

Our pneumatic drill series PV, is well-suited for the manual drilling into metal, wood and plastics. These drills are non-reversible.

The series PVR is reversible and is designed for drilling up to a diameter of 32-mm.

The drill series H (i.e. PV 6 AH) is equipped with a combination air-inlet- and exhaust hose. Those drills are used in industrialized areas with heavy dust generation and for cleaning pipes.



Drill
Model PV 16 B

RECOMMENDATION

to achieve the best fabricating results, we recommend you observe the following rules:

- only use sharp drill-bits, because they form the hole better, they eliminate high vibration and they do not get caught in the material.
- The axial pressure should not be too much or too little; it depends on the size of your drill-bit and the type of material – see more about this in the corresponding section of the Operating Instruction Booklet.
- Prior to drilling it is recommended to mark the drill-location. That will eliminate the chance for injury due to a slipping drill-bit.
- For recessed drilling it is recommended to use an adjustable depth-stop, which will simplify the operation.

STRAIGHT DRILLS

Model DS 012



The above-mentioned DI drill is mainly used for counter-sinking operations up to a diameter of 15mm and when equipped with standard 90-degree counter sinking bits.

Features: Push to start, collet with M12 x 1, chuck range from 3 – 9,5mm, integrated trigger for spindle-lock (assures simple mounting and removal of drill bit).

Drill
Model DS 012-005 PC

STRAIGHT DRILLS

Model DS 020



The air drills, series DS 020 are designed for the manual drilling into steel, wood, plastic and non-alloyed metals, especially when a vertical application is required or for drilling on difficult-to-access or narrow areas. Drill-bits made of steel or stainless can be used with those inline drills, as well as drill-bits made from coated materials. The constructively modular design of the inline drills allows a composition of up to 144 different models, which can fulfill every possible customer request. The drill model is selected on the basis of the material to be drilled, the drill-bit diameter and the necessary operating speed. The basic version of the drill includes a combined air-inlet/exhaust hose, the short version contains an extra short air-connection and additionally integrated silencers. These drills start by lever or twist valve. The models with lever-start also feature a hanger that allows their easy suspension from a balancer. This hanger feature is not possible on drills with a twist-start because of safety issues.

Drill
Model DS 020-040 SXPB10

We offer 3 different varieties of drill-bit mounting (dependent on the drill model):

- Drill Chuck with thread 3/8" 24UNF (Chuck Range: 0,5 – 6 mm)
- Drill Chuck with taper B10 (Chuck Range 0,5 – 6 mm)
- Collet with sizes of: 1, 2, 3, 4, 5, 6 mm and 1/8", 3/16", 1/4"

Both the drill chuck and the collet are equipped with a safety cap. However, the drills may also be used without the safety cap if the supplied safety nut is used.

DERIVED VALUES OF SPEED (RPM) FOR HSS-DRILL BITS

Cutting speed	35 m/min	28 m/min	25 m/min	14 m/min	11 m/min	7 m/min	22m/min	12 m/min	50 m/min	90 m/min	165 m/min	210 m/min
	Plain carbon steel			Alloyed steel		Stainless steel	Cast-iron		Copper, Bronze, Brass	Light weight metal		Magnesian alloy ²⁾
drill bit Ø mm	up to 500 N/mm ²	500-700 N/mm ²	over 700 N/mm ²	700-900 N/mm ²	900-1100 N/mm ²		to 180 N/mm ²	over 180 N/mm ²		tough screw brass ¹⁾	hardened	
1	11 000	8 800	7 800	4 400	3 400	2 200	7 000	3 800	16 000	28 000	52 000	66 000
2	5 500	4 400	3 900	2 200	1 700	1 100	3 500	1 900	8 000	14 000	26 000	33 000
3	3 700	3 000	2 600	1 500	1 100	730	2 300	1 300	5 300	9 000	17 300	22 000
4	2 800	2 200	2 000	1 100	850	550	1 700	950	4 000	7 000	13 000	16 500
5	2 200	1 800	1 600	880	680	440	1 400	760	3 200	5 600	10 400	13 200
6	1 900	1 500	1 300	735	570	365	1 200	630	2 700	4 800	8 700	11 000
7	1 600	1 300	1 100	630	485	315	1 000	540	2 300	4 000	7 400	9 400
8	1 400	1 100	975	550	425	275	875	475	2 000	3 500	6 500	8 300
9	1 200	975	865	490	380	245	780	420	1 800	3 100	5 800	7 400
10	1 100	880	780	440	340	220	700	380	1 600	2 800	5 200	6 600
11	1 000	810	720	405	320	200	635	350	1 450	2 600	4 800	6 100
12	930	745	665	370	290	185	585	320	1 300	2 400	4 400	5 600
13	860	685	610	340	270	170	540	295	1 200	2 200	4 000	5 100

¹⁾ Speed also applies to drilling to thermosetting materials, hardened paper and hardened textile, but to be used steel drill bits with K10 instead of HSS

²⁾ For drilling to thermoplastics to use double values.

STRAIGHT DRILLS

Model DS 029

Pneumatic drills to 10 mm (13/32") for drilling into steel are available in three series, straight, safety lever, for vertical working.



Drill
Model DS 029-170 SXPB10

DRILLS, TAPPERS

Pneumatic drills DS 020, DS 029 (straight form), DP 017, DP 029, DP 040 (pistol grip)

The pneumatic Drill series „DP“ is for the manual drilling into metal, wood, plastics and other materials. The maximum diameter of the drill-bit can be seen below in the specifications of each individual drill.

These drills have a capacity of up to 13-mm into steel and they are available in two different designs, offering the best-possible handling:

- „Offset handle“ design for pressure into the drill-axis, mainly used for horizontal applications (Type DP029-...)
- With pistolgrip design to absorb a higher torque (Type DP017-...)

Pneumatic tapper DS 040, DS 070 (Gerade Bauform), DP 015, DP 030, DP 040 (Pistolengriff)

The Tapper Model series „DP“ is primarily used for the tapping of threads into steel, aluminum and other alloyed materials.

These Tappers offer a cutting capacity of up to M14-threads into steel. To retap existing threads up to a size of M16, we offer two different designs:

- Pistolgrip, start and reverse by slide-trigger or dual-trigger (for horizontal access)
- Inline, start by lever, reverse through automatic „push-pull“ at approx. double the speed (for vertical access)



Tappers
Model DP 015-006ZRB10
Model DS 040-007BXR12



Drill and Tapper
Model DP 040-005Z(R)B16

ANGLE DRILLS

Model DA 020, 025

Air Angle-Drills DA 020, DC 020 (with collet), DA 020, DA 025 (with drill chuck)

this angle-drill series has a modular construction which allows more than 120 different models!

DA 020-190 SXC
DA 020-047 SXC
DA 020-033 SXC
DA 020-013 SXC
DA 020-007 SXC
DA 020-005 SXC
DA 020-190 SXB10
DA 020-047 SXB10
DA 020-033 SXB10
DA 020-013 SXB10
DA 020-007 SXB10
DA 020-005 SXB10

Design

DA...Drill - Angle
020...Power x 10 [W]
190 (047, 033, 013, 007, 005)...Speed x100 [pro minute]
S...Air connection – short design
B...Air connection – coaxial hose
X...Safety lever
Y...Twist valve
P...Cover
C...Collet
B10...Bohrfutter B10
3/8"...Bohrfutter 3/8"



This angle drill series represents an expansion of the series DS 020 (inline design) and is well suited for drilling into wood, plaster, steel, NE-metals and other materials. The suitable drill is selected according to material, drill-bit diameter and speed. The drills have a modular design, they consist of: 6 selectable speeds (19000,

4700, 3300, 1300, 700, 500 rpm), start with twist- or lever valve, with coaxial air connection or in short execution. These drills can be delivered with- or without chuck safety, with collet, chuck taper B10, or drill chuck with 3/8" 24UNF thread. The drills are right-rotation only.

The angle drills DA, DC 020, and DA 025 are designed for drilling into wood, plaster, steel, NE-me-

tals and other materials. The angle head is available with a 90° or 150° design.



Drill
Model DA 020-033 SXB10



Drill
Model DA 025-140 SXC

SPECIAL DRILLS

DS 070(100,110,180,310,350)-001(002,004,005,007,013,014)Z(Y),MK../B16

Hand-operated, with a drilling capacity from 13 to 80mm [0.51 – 3.1-inches]

The non-reversible drills are mainly used for drilling, reaming and counter-sinking operations. The reversible drills can also be used for tapping and milling of pipes. The models DS070-014ZB16 and DS070-014ZMK1 are equipped with a fist-grip; all other models have T-handles (with integrated twist-valve for start), located on the same axis. An ejector pin (standard equipment) is supplied with the models DS100-004/005...; this pin is required for the removal of the drill bit. All other models (with T-handles) are equipped with spindle-feed and pilot wheel.

- REVERSIBLE OR NON-REVERSIBLE
- HIGH DRILLING POWER
- LONG LIFESPAN



Drill
Model DS 070-014 ZB16



Drill
Model DS 110-013 YMK2

DA 048(050,150,210,220)-002(003,004,010)YMK../B16 - MORSE-Kugel oder Bohrfutter

Handheld, with a drill capacity from 13 to 80mm [0.51 –3.1-inches] equipped with either drill-chuck or Morse-taper

The DEPRAG angle-drills are mainly used for drilling, reaming and counter-sinking operations in tight access areas. When using these drills with the optional available grip-tube, these drills may also be used as a universal drill with equally beneficial results. All angle-drills are equipped with a feed-spindle that is also used for the removal of the drill bit. As an optional feature, we can offer the models DA150 to DA220 with a ratchet instead of the pilot-wheel. For extreme tight access areas, we offer reduced profile drill designs, without feed-spindle or pilot-wheel. All models of the design DA150 to DA220 are additionally equipped with a speed-regulator, which helps to reduce the air consumption when idling

- SMALL PROFILE
- HIGH DRILLING POWER
- LONG LIFESPAN



Drill
Model DA 048-010 YB16



Drill
Model DA 210-004 YMK3

SAFETY SPECIFICATIONS

Observe all safety regulations, which are an inseparable component of each DEPRAG INDUSTRIAL tool. A safe operation of the tool and its correct function is only possible, if the instruction booklet has been read in detail and if the required instructions are observed.



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