

OPTIdrill® RD 4 / RD 5 / RD 6

Precision, solid radial drilling machines, premium quality
Ideal for versatile deployment in one-off and serial production

Facts that impress in terms of quality, performance and price

- ▶ Versatile range of applications, such as drilling, reaming, thread tapping
- ▶ Electrically braked motor
- ▶ Control elements with 24 V DC electronics
- ▶ Heavy, solid, premium quality casting
- ▶ Long reach thanks to horizontally adjustable machine head
- ▶ Clear-cut control panel layout
- ▶ Smooth action pivoting and travel axes
- ▶ Swivelling column with sophisticated workmanship and optimised clamping for maximum stability and minimum clamping offset
- ▶ Torsionally stiff boom design, capable of supporting heavy loads
- ▶ Height-adjustment of boom via powerful motorised drive and lifting spindle
- ▶ Drilling head gear box runs in oil sump
- ▶ Boom guideways tempered and precision ground
- ▶ Gear wheels made of chrome-nickel steel, tempered and precision ground for lower noise and smooth action
- ▶ Drilling head and column can be clamped or released separately
- ▶ Right-handed/left-handed rotation
- ▶ Solid, generously dimensioned precision drilling table
- ▶ Hardened and ground clamping table with parallel T-slots
- ▶ Machine lamp
- ▶ Overload protection
- ▶ Thick-walled cast column ensures very smooth action and stability
- ▶ LED lamp
- ▶ Coolant unit with coolant tank in machine base

RD 4 / RD 5

- ▶ All axes are clamped manually

RD 6

- ▶ Column is clamped hydraulically

DC control cabinet



› Complet and clear-cut

Pull-out shift rod



› Standards-compliant as per DIN 12717





Technical data and accessories

Model	RD 4	RD 5	RD 6
Article no.	3049040	3049050	3049070
Technical specifications			
Electrical connection	400 V / 3 Ph ~50 Hz	400 V / 3 Ph ~50 Hz	400 V / 3 Ph ~50 Hz
Total rated value	3 kW	4 kW	6.5 kW
Spindle motor drive output	1.5 kW	2.25 kW	4 kW
Boom lift motor drive output	0.75 kW	0.75 kW	1.5 kW
Hydraulic clamping drive	-	-	0.75 kW
Coolant pump motor	90 W	90 W	90 W
Drilling performance			
Drilling performance in steel (S235JR)	Ø 32 mm	Ø 42 mm	Ø 50 mm
Continuous drilling performance in steel (S235JR)	Ø 28 mm	Ø 40 mm	Ø 45 mm
Thread tapping steel (S235JR)			
Spindle			
Spindle sleeve stroke	220 mm	230 mm	270 mm
Spindle seat	MT 4	MT 4	MT 5
Automatic spindle sleeve feed	3 speeds: 0.05-0.15 mm/rev	3 speeds: 0.05-0.15 mm/rev	3 speeds: 0.06-0.2 mm/rev
Boom			
Angle of rotation	± 180°	± 180°	± 180°
Drilling head travel (horizontal)	530 mm	820 mm	1 250 mm
Boom lift stroke (vertical)	580 mm	570 mm	680 mm
Speeds			
Spindle speeds	73 - 1 247 rpm	37 - 1 253 rpm	44 - 1 206 rpm
Number of speeds	6	12	12
Drilling table			
Large base L x W	1 260 x 700 mm	1 608 x 745 mm	2 550 x 970 mm
Base work area L x W x H	828 x 522 mm	1 147 x 589 mm	1 800 x 830 mm
T-slot size / spacing / count	19 mm / 171 mm / 3	19 mm / 171 mm / 3	14 mm / 180 mm / 4
Clearance spindle to base	260 - 1 060 mm	470 - 1 270 mm	465 - 1 420 mm
Distance spindle to column	220 - 750 mm	280 - 1 100 mm	350 - 1 600 mm
Clamping table			
Clamping table work area L x W	600 x 445 x 380 mm	635 x 520 x 415 mm	630 x 500 x 500 mm
T-Slot size / no / distance	19 mm / 100 mm / 3	19 mm / 121 mm / 3	22 mm / 150 mm / 3
Distance spindle to clamping table	0 - 675 mm	50 - 850 mm	0 - 910 mm
Dimensions			
Column diameter	210 mm	260 mm	320 mm
Length x width x height (max.)	1 260 x 700 x 2 180 mm	1 725 x 745 x 2 550 mm	2 670 x 1 120 x 2 760 mm
Weight	1 120 kg	1 800 kg	3 200 kg

Accessories	Article no.
Precision quick release chucks 1 - 8 mm; B16	3050608
Precision quick release chucks 1 - 10 mm; B16	3050610
Precision quick release chucks 1 - 13 mm; B16	3050623
Precision quick release chucks 1 - 16 mm; B16	3050626
› More „Accessories for drills“ from page 64	

Accessories RD 4 / RD 5	Article no.
Quick release chuck direct MT 4 / 1 - 16 mm	3050574
Reduction sleeve MT 4 - MT 3	3050664
Twist drill HSS / MT 3	3051003
Morse taper MT 4/B16	3050661
Blank holder 18 mm/M16	3352032
Assortment of clamping tools size 16, 58 parts	3352019

Accessories RD 6	Article no.
Morse taper MT 5/B16	3050675
Assortment of clamping tools size 12, 58 parts	3352017

Scope of supply

› Clamping table