

Magnetic core drilling machines from OPTIMUM

when reliability, precision and economical working are important

- ▶ Stable drilling guidance thanks to long and especially deep mounted sleeve holder
- ▶ The devices are ideal for the construction site as they are earthed and double insulated
- ▶ Internal self-lubrication function for a longer service life of the gear unit
- ▶ Soft-start is gentle on the motor and prolongs the service life
- ▶ Powerful motor with high torque and low-maintenance
- ▶ High-quality mechanical design
- ▶ Conversion from core to full drilling in just a few actions
- ▶ Automatic return to starting position
- ▶ Protection class IP42



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Information & Video



Automatic internal lubrication

- › Coolant is fed to the tip of the drill bit
- › No dry running and overheating of the drill bit
- › Tool service lives and work results are substantially improved



Coolant tank

- › Detachable coolant tank
- › External fastening



Guides

- › Safe guides for stability and precision
- › Vario machines with low-wear brass guides



Magnetic base

- › Monitoring the magnetic force
- › Wear-resistant design to extend the service life of the magnetic base and thus the maximum magnetic holding force (except DM35PF/DM38VF/DM36VT)

DM 35



Fig. with optional drill bit

Core drilling max.		Twist drilling max.	
Drill Ø	35 mm	Drill Ø	13 mm
Drill depth	35 mm		

DM 35V

INFINITELY VARIABLE SPEED

- › Low-wear brass guide



Fig. with optional drill bit

Core drilling max.		Twist drilling max.	
Drill Ø	35 mm	Drill Ø	13 mm
Drill depth	35 mm		

DM 50



Fig. with optional drill bit

Core drilling max.		Twist drilling max.	
Drill Ø	50 mm	Drill Ø	16 mm
Drill depth	50 mm		

DM 50V

INFINITELY VARIABLE SPEED

- › Low-wear brass guide



Fig. with optional drill bit

Core drilling max.		Twist drilling max.	
Drill Ø	50 mm	Drill Ø	16 mm
Drill depth	50 mm		

Machine data	DM 35	DM 50	DM 35V*	DM 50V*
Art no.	3071036	3071051	3071136	3071151
Motor power ~50 Hz	1.6 kW / 230 V	1.65 kW / 230 V	1.6 kW / 230 V	1.7 kW / 230 V
Spindle seat	Weldon 3/4"	Weldon 3/4"	Weldon 3/4"	Weldon 3/4"
Spindle sleeve stroke	145 mm	145 mm	158 mm	150 mm
Moveable head	110 mm	110 mm	-	-
Magnetic base dimensions	166 x 80 x 44 mm	166 x 80 x 44 mm	166 x 80 x 44 mm	166 x 80 x 44 mm
Magnetic attraction force	16 KN	16.5 KN	14.8 KN	15.6 KN
Speed without load	830 min ⁻¹	780 min ⁻¹	100 - 550 min ⁻¹	100 - 530 min ⁻¹
Dimensions (L x W x H) approx.	270 x 210 x 480 mm	270 x 210 x 480 mm	300 x 260 x 420 mm	297 x 244 x 405 mm
Net weight approx.	11 kg	12 kg	12 kg	13 kg

DM 38VF

FLAT DESIGN

- › Suitable for hard-to-reach drilling locations with low heights

Pluggable handle



- › Can be mounted either on the left or right side



Fig. with optional drill bit

Core drilling max.

Drill Ø	38 mm
Drill depth	35 mm

DM 60V

INFINITELY VARIABLE SPEED

- › Low-wear brass guide
- › Weldon and MT shank



Fig. with optional drill bit

Core drilling max.

Drill Ø	60 mm
Drill depth	50 mm
Twist drilling max.	
Drill Ø	23 mm

DM 48VT

RIGHT-LEFT ROTATION

- › Thread tapping device.
- › Low-wear brass guide
- › Weldon and MT shank



Fig. with optional drill bit

Core drilling max.

Drill Ø	36 mm
Drill depth	50 mm

Twist drilling max.

Drill Ø	22 mm
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Tapping max.

Drill Ø	M 16
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DM 35PF

AUTOMATIC

SPINDLE SLEEVE FEED



Fig. with optional drill bit

Core drilling max.

Drill Ø	35 mm
Drill depth	35 mm

Twist drilling max.

Drill Ø	18 mm
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DM 50PM

PERMANENT MAGNETS

- › Independent of electricity
- › 100% safe

Two magnets



- › Can be individually switched

- › The machine can be moved for inspection or cleaning without losing its position on the pipe.



Fig. with optional drill bit

Core drilling max.

Drill Ø	50 mm
Drill depth	40 mm

Twist drilling max.

Drill Ø	16 mm
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DM 98V

INFINITELY VARIABLE SPEED

- › Low-wear brass guide
- › Weldon and MT shank



Fig. with optional drill bit

Core drilling max.

Drill Ø	98 mm
Drill depth	75 mm

Twist drilling max.

Drill Ø	28 mm
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DM 38VF	DM 60V	DM 48VT	DM 35PF	DM 50PM*	DM 98V*
3071338	3071161	3071248	3071435	3071550	3071199
1.65 kW / 230 V	1.89 kW / 230 V	1.7 kW / 230 V	1.6 kW / 230 V	1.7 kW / 230 V	2.28 kW / 230 V
Weldon 3/4"	MT2/ Weldon 3/4"	MT 2/Weldon 3/4"	Weldon 3/4"	Weldon 3/4"	MT3/ Weldon 3/4"
45 mm	180 mm	150 mm	145 mm	150 mm	190 mm
-	-	60 mm	115 mm	70 mm	80 mm
166 x 80 mm	202 x 102 x 44 mm	165 x 80 x 44 mm	166 x 80 mm	2 pieces, 240 x 40 mm	202 x 103 mm
14.5 KN	16 KN	14.5 KN	16 KN	16.5 KN	17 KN
670 min ⁻¹	310 - 550 min ⁻¹ stepless	50 - 320/ 560min ⁻¹	810 min ⁻¹	20 - 320 / 600 min ⁻¹ 2 pcs.	100 - 360 min ⁻¹
350 x 150 x 240 mm	330 x 230 x 490 mm	300 x 250 x 430 mm	350 x 250 x 430 mm	320 x 270 x 450 mm	330 x 240 x 650 mm
8.8 kg	18.3 kg	13 kg	14 kg	11.6 kg	18.5 kg

*The machine complies with the DIN EN 55011 standard: Class C2. Important information on operating machines with frequency converters can be found on the reverse side.

Core drill set

HSS-TiAlN 30 3072010

- › Six HSS core drill bit Ø 12, 14, 16, 20, 22 mm
- › A TiAlN core drill Ø 18 mm in our highest quality grade with TiAlN coating for a long service life and excellent cutting properties
- › Set in plastic case, ejector pin
- › Drilling depth 30 mm



Core drill set

TiAlN 30 3072020

- › Six TiAlN core drills Ø 12 - 22 mm Hard and smooth TiAlN coating
- › TiAlN coating for a long service life and excellent cutting properties
- › Set in plastic case, ejector pin
- › Drilling depth 30 mm



	Accessories	Art. no.	DM 35 3071036	DM 50 3071051	DM 35V 3071136	DM 50V 3071151	DM 38VF 3071338	DM 60V 3071161	DM 48VT 3071248	DM 35PF 3071435	DM 50PM 3071550	DM 98V 3071198
	Adapter for drill chuck Weldon 19 mm to 1/2" x 20 ext. thread	3876020						●				●
	Drill chuck 1.5 - 13 mm Incl. chuck spanner	3876002			●	●						●
	Quick-change chuck MT 2	3072102	●	●	●	●	●	●	●	●	●	●
	Quick-change chuck MT 3	3072103	●	●	●	●	●	●	●	●	●	●
	Thread tapping chuck with 6 inserts MT2 M3 - M12	3050702	●	●	●	●	●	●	●	●	●	●
	Ejector pin	38720.1261	●	●	●	●	●	●	●	●	●	●
	Cutting oil spray	3872100	●	●	●	●	●	●	●	●	●	●

CORE DRILL with Weldon shank

HSS



For all steels up to 750N strength

Ø mm	L mm	Item No.	Ø mm	L mm	Item No.
HSS			HSS		
12	25	30732512	12	50	30735012
13	25	30732513	13	50	30735013
14	25	30732514	14	50	30735014
15	25	30732515	15	50	30735015
16	25	30732516	16	50	30735016
17	25	30732517	17	50	30735017
18	25	30732518	18	50	30735018
19	25	30732519	19	50	30735019
20	25	30732520	20	50	30735020
21	25	30732521	21	50	30735021
22	25	30732522	22	50	30735022
23	25	30732523	23	50	30735023
24	25	30732524	24	50	30735024
25	25	30732525	25	50	30735025
26	25	30732526	26	50	30735026
27	25	30732527	27	50	30735027
28	25	30732528	28	50	30735028
29	25	30732529	29	50	30735029
30	25	30732530	30	50	30735030
32	25	30732532	32	50	30735032
33	25	30732533	33	50	30735033
34	25	30732534	34	50	30735034
35	25	30732535	35	50	30735035
36	25	30732536	36	50	30735036
37	25	30732537	37	50	30735037
38	25	30732538	38	50	30735038
40	25	30732540	40	50	30735040
42	25	30732542	43	50	30735043
44	25	30732544	50	50	30735050
45	25	30732545	55	50	30735055
48	25	30732548	60	50	30735060
50	25	30732550			
55	25	30732555			
60	25	30732560			

TiN



For all steels up to 900N strength. Also suitable for stainless steel.

Ø mm	L mm	Item No.
TiN		
12	30	30733012
13	30	30733013
14	30	30733014
15	30	30733015
16	30	30733016
17	30	30733017
18	30	30733018
19	30	30733019
20	30	30733020
21	30	30733021
22	30	30733022
23	30	30733023
24	30	30733024
25	30	30733025
26	30	30733026
27	30	30733027
28	30	30733028
29	30	30733029
30	30	30733030
32	30	30733032
35	30	30733035
40	30	30733040
50	30	30733050
60	30	30733060
12	55	30735512
13	55	30735513
14	55	30735514
16	55	30735516
18	55	30735518
20	55	30735520
21	55	30735521
22	55	30735522
24	55	30735524
25	55	30735525
26	55	30735526
28	55	30735528
30	55	30735530
32	55	30735532
35	55	30735535
40	55	30735540
48	55	30735548
50	55	30735550

TiAlN



For all steels up to 1100N strength and for all stainless steels.

Ø mm	L mm	Item No.
TiAlN		
12	30	30733012B
13	30	30733013B
14	30	30733014B
15	30	30733015B
16	30	30733016B
17	30	30733017B
18	30	30733018B
19	30	30733019B
20	30	30733020B
21	30	30733021B
22	30	30733022B
24	30	30733024B
25	30	30733025B
26	30	30733026B
28	30	30733028B
30	30	30733030B
32	30	30733032B
35	30	30733035B
40	30	30733040B
50	30	30733050B
12	55	30735512B
14	55	30735514B
16	55	30735516B
18	55	30735518B
20	55	30735520B
22	55	30735522B
23	55	30735523B
25	55	30735525B
28	55	30735528B
30	55	30735530B

OPTIdrill® DQ 14 / DQ 18 / DQ 22

Entry level bench-top drilling machines with V-belt drive

The machines are pre-assembled.

Individual components of the machine still have to be assembled and joined together.



Facts that impress in terms of quality, performance and price

- ▶ Separate emergency stop push button
- ▶ Measuring scale for drilling depth
- ▶ Drill table can be tilted $\pm 45^\circ$ and rotated 360°
- ▶ One-piece die-cast aluminium quill lever with soft-grip handles
- ▶ Safety electrics in 24 V DC

DQ 18/DQ 22

- ▶ Precise workmanship; stable drilling table with two diagonal T-slots and all-around cooling water channel

DQ 22 (400 V)

- ▶ Clockwise/anticlockwise rotation



Fig.: DQ 14

Fig.: DQ 18

Fig.: DQ 22

SCOPE OF DELIVERY:

- ▶ T-slot nuts
- ▶ DQ 14: Quick-action drill chuck 1 - 15.9 mm
- ▶ DQ 18/22: Quick-action drill chuck 1 - 16 mm
- ▶ DQ 18/22: Mandrel for drill chuck MT2/B16

Machine data	DQ 14	DQ 18	DQ 22
Art no.	3191040	3191042	3191044(230V)/ 3191045 (400V)
Motor power ~50 Hz	350 W / 230 V	450 W / 230 V	550 W / 230 V or 400 V
Drilling capacity/continuous drilling capacity in steel (S235JR)	\varnothing 13 mm / \varnothing 12 mm	\varnothing 15.9 mm / \varnothing 14 mm	\varnothing 20 mm / \varnothing 16 mm
Spindle seat	fixed/B16	MT2	MT2
Throat depth / quill stroke	104 mm / 52 mm	127 mm / 65 mm	169 mm / 85 mm
Spindle speeds / steps	700 - 2500 min ⁻¹ / 5	600 - 2400 min ⁻¹ / 5	300 - 2300 min ⁻¹ / 12
Table (L x W) / T-slots	170 x 170 / 14 mm	200 x 200 / 14 mm	270 x 270 / 14 mm
Drill table rotation / tilting sideways	$360^\circ / \pm 45^\circ$	$360^\circ / \pm 45^\circ$	$360^\circ / \pm 45^\circ$
Dimensions (L x W x H) approx.	472 x 283 x 634 mm	568 x 319 x 849 mm	700 x 351 x 1006 mm
Net weight approx.	18.5 kg	28.5 kg	41.7 kg

OPTIdrill® DQ 20V

Bench drill with V-belt drive and mechanically infinitely adjustable speed



Facts that impress in terms of quality, performance and price

- ▶ User-friendly safety switch with IP 54 degree of protection
- ▶ Separate emergency stop push button
- ▶ Measuring scale for drilling depth
- ▶ Drill table can be tilted $\pm 45^\circ$ and rotated 360°
- ▶ One-piece die-cast aluminium quill lever with soft-grip handles
- ▶ Safety electrics in 24 V DC
- ▶ Guaranteed concentricity ≤ 0.03 mm measured in the drilling spindle
- ▶ Drill spindle with precision ball bearings
- ▶ Glare-free LED lighting integrated in the drill head
- ▶ V-belt cover with safety switch

SCOPE OF DELIVERY:

- ▶ Quick-action drill chuck 1-16 mm
- ▶ Mandrel for drill chuck MT2/B16
- ▶ T-slot nuts

Machine data	DQ 20V*
Art no.	3191080
Motor power ~50 Hz	0.75 kW / 230 V
Drilling performance in steel (S235JR)	\varnothing 20 mm
Continuous drilling performance in steel (S235JR)	\varnothing 16 mm
Spindle seat	MT2
Throat depth / quill stroke	152 mm / 80 mm
Spindle speeds	450 - 2500 min ⁻¹
Speed	mechanically adjustable
Drill table (L x W) / T-slots	243 x 243 mm / 14 mm
Machine foot (L x W)	181 x 187 mm
Dimensions (L x W x H) approx.	580 x 400 x 960 mm
Net weight approx.	41 kg



The machines are pre-assembled. Individual components of the machine still have to be assembled and joined together.

Belt drive



- ▶ Best power transmission thanks to aluminium pulleys in conjunction with toothed GATES quality V-belt

Speed change



- ▶ The V-belt is adjusted to the required diameter using the hand lever while the drilling spindle is rotating. This changes the speed

*The machine complies with the DIN EN 55011 standard: Class C2. Important information on operating machines with frequency converters can be found on the reverse side.

OPTI^{drill}® RB 6T / RB 8S

Lightweight radial drilling machines with large throat depth for wood, plastic, aluminium



Facts that impress in terms of quality, performance and price

- ▶ Separate emergency stop push button
- ▶ Guaranteed concentricity of the drill spindle ≤ 0.03 mm measured in the drill spindle.
- ▶ Best power transmission thanks to aluminium pulleys in conjunction with toothed GATES quality V-belt
- ▶ Drill spindle with precision ball bearings
- ▶ V-belt cover with safety switch
- ▶ Steel column for extremely smooth action and stability
- ▶ Solid and generously dimensioned baseplate with slots for T slot nuts, rear heavily ribbed
- ▶ Drilling depth stop
- ▶ OPTIMUM key type drill chuck in standard scope of delivery

The machines are pre-assembled.

Individual components of the machine still have to be assembled and joined together.

Machine data	RB 6T	RB 8S
Art no.	3009161	3009181
Motor power ~50 Hz	750 W / 230 V	
Drilling capacity (S235JR)	$\varnothing 16$ mm / $\varnothing 12$ mm	
Continuous drilling capacity in steel (S235JR)		
Throat depth / quill stroke	115 - 430 mm / 80 mm	
Spindle speeds / Gear stages	390 - 3000 min ⁻¹ / 5 stages	
Drill table (L x W) / T-slots	225 x 230 mm / -	262 x 262 mm / 14 mm
Dimensions (L x W x H) approx.	820 x 335 x 930 mm	820 x 395 x 1640 mm
Net weight approx.	47 kg	60 kg



Fig.: RB 6T

Fig.: RB 8S

OPTI^{drill}® DQ 25T / DQ 25 / DQ 32

Inexpensive table and column drilling machines featuring a V-belt drive



Facts that impress in terms of quality, performance and price

- ▶ User-friendly safety switch with IP 54 degree of protection
- ▶ Separate emergency stop push button
- ▶ Precisely machined drilling table with diagonal T-slots $\pm 45^\circ$ tiltable and 360° rotatable
- ▶ Solid, generously dimensioned baseplate with slots, rear heavily ribbed
- ▶ Guaranteed concentricity ≤ 0.03 mm measured in the drilling spindle
- ▶ V-belt cover with safety switch
- ▶ Measuring scale for drilling depth
- ▶ Clockwise/anticlockwise rotation

SCOPE OF DELIVERY:

- ▶ Quick-action drill chuck 1-16 mm
- ▶ Taper mandrel for drill chuck
- ▶ T-slot nuts



Fig.: DQ 25T

Fig.: DQ 32

Belt drive



- › Smooth action thanks to ground multi-tooth carrier
- › Best power transmission due to aluminium pulleys

Machine data	DQ 25 / DQ 25T	DQ 32
Art no.	3191047 / 3191047T	3191049
Motor power ~50 Hz	750 W / 400 V	1.1 kW / 400 V
Drilling performance in steel (S235JR)	$\varnothing 25$ mm	$\varnothing 30$ mm
Continuous drilling performance in steel (S235JR)	$\varnothing 20$ mm	$\varnothing 25$ mm
Spindle seat	MT3	MT4
Throat depth / quill stroke	181 mm / 80 mm	254 mm / 120 mm
Spindle speeds / speed levels	200 - 2440 min ⁻¹ / 12	120 - 1810 min ⁻¹ / 9
Drill table (L x W) / T-slots	280 x 280 / 14 mm	355 x 355 / 14 mm
Drill table rotation / tilting sideways	360° / $\pm 45^\circ$	360° / $\pm 45^\circ$
Dimensions (L x W) approx.	700 x 350	850 x 390 mm
Dimensions (H) approx.	1620 (DQ 25) 1012mm (DQ 25T)	1,660 mm
Net weight approx.	71 kg (DQ 25) 67 kg (DQ 25T)	120 kg

The machines are pre-assembled. Individual components of the machine still have to be assembled and joined together.



Twist drill set
Art no. 3201010

- › 25-piece; 1- 13 mm
- › According to DIN 338 HSS-Co 5%



OPTIdrill® B 17PRO basic / D 17Pro / D 23Pro / D 26Pro / D 33Pro Bench and column drills with V-belt drive

Facts that impress in terms of quality, performance and price

- ▶ User-friendly safety switch with IP 54 degree of protection
- ▶ Separate emergency stop push button
- ▶ Digital depth sensor
- ▶ Precisely machined drilling table with diagonal T-slots ± 45° tiltable and 360° rotatable
- ▶ Single-piece, pressure cast aluminium sleeve lever with Softgrip handles
- ▶ Safety electrics in 24 V DC
- ▶ Guaranteed concentricity ≤ 0.02 mm measured in the drilling spindle
- ▶ Drill spindle with precision ball bearings
- ▶ Precision spindle hole
- ▶ Premium quick-action drill chuck as standard equipment
- ▶ Generously dimensioned, height adjustable protective screen with safety switch
- ▶ V-belt cover with safety switch
- ▶ Heavy duty design of entire machine

As of D 23 Pro

- ▶ GATES quality belts
- ▶ Clockwise/anticlockwise rotation

D 33Pro

- ▶ Solid, generously dimensioned baseplate with T-slots, heavily ribbed on rear



Belt drive

- › Smooth action thanks to ground multi-tooth carrier
- › Best possible force transmission thanks to aluminium pulleys in combination with GATES quality toothed belts (as of D 23Pro)

DISPLAY (from D 17Pro)

- › Digital drilling depth and speed display integrated in housing
- › Unit convertible metric / inch



The machines are pre-assembled. Individual components of the machine still have to be assembled and joined together.



Fig.: B 17Pro basic



Fig.: D 17Pro



Fig.: D 23Pro



Fig.: D 26Pro



Fig.: D 33Pro

SCOPE OF DELIVERY:

- ▶ Quick-action drill chuck 1-13 mm (B 17Pro basic)
- ▶ Quick-action drill chuck 1-16 mm
- ▶ Taper mandrel for drill chuck
- ▶ T-slot nuts

Machine data	B 17PRO basic	D 17Pro	D 23Pro	D 26Pro	D 33Pro
Art no.	3003161	3003010	3003020	3003030	3003040
Motor power ~50 Hz	490 W / 230V	500 W / 230 V	750 W / 400 V	750 W / 400 V	1.1 kW / 400 V
Drilling performance in steel (S235JR)	Ø 15.5 mm	Ø 16 mm	Ø 25 mm	Ø 25 mm	Ø 30 mm
Continuous drilling performance in steel (S235JR)	Ø 12 mm	Ø 12 mm	Ø 20 mm	Ø 20 mm	Ø 25 mm
Spindle seat	MT2	MT2	MT2	MT3	MT4
Throat depth / quill stroke	152 mm / 65 mm	152 mm / 65 mm	180 mm / 80 mm	210 mm / 85 mm	254 mm / 120 mm
Spindle speeds / speed levels	680 - 2700 min ⁻¹ / 5	680 - 2700 min ⁻¹ / 5	200 - 2440 min ⁻¹ / 12	200 - 2440 min ⁻¹ / 12	120 - 1810 min ⁻¹ / 9
Drill table (L x W) / T- slot size	235 x 220 / 12 mm	235 x 220 / 12 mm	280 x 245 / 12 mm	330 x 290 / 14 mm	475 x 425 / 14 mm
Tilting sideways/rotating the drill table	± 45° / 360°	± 45° / 360°	± 45° / 360°	± 45° / 360°	± 45° / 360°
Dimensions (L x W x H) approx.	565 x 275 x 840 mm	585 x 305 x 840 mm	680 x 350 x 1015 mm	715 x 360 x 1640 mm	755 x 450 x 1705 mm
Net weight approx.	36.5 kg	36.5 kg	63.5 kg	90 kg	137 kg

OPTi^{drill}® DX 13V / DX 15V / DX 17E / DX 17V Bench drills with infinitely variable speed control

Facts that impress in terms of quality, performance and price

- ▶ Best power transmission thanks to aluminium pulleys
- ▶ Drilling spindle with precision ball bearings
- ▶ Height adjustability chuck guard with microswitch
- ▶ Dirt/water-resistant, easy-to-clean membrane keyboard
- ▶ EMC filter class C2



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Information & Video



Machinery and MSU tool trolley



MSM 1

Machine data

Art no.

MSU 3
(height 620 mm)

3352990

MSU 4
(Height 800 mm)

3352991

MSM 1
(Height 800 mm)

3353000

DX 13V



LCD display
› Spindle speed

DX 15V



LCD display
› Spindle speed

DX 17E



LCD display
› Spindle speed
› Depth display (actual)
› Clockwise/anticlockwise rotation
› Unit of dimension mm / inch
› Set zero point

**SIEMENS INVERTER
SINAMICS V20**

DX 17V



OPTIMUM PATENT



OLED display
A suitable speed is suggested depending on the material and tool size. These parameters are entered via the menu. Speed display/current drilling depth and thread depth/set drilling or thread depth as target value/material selection/piece counter

**SIEMENS INVERTER
SINAMICS V20**

SCOPE OF DELIVERY:

- ▶ Quick-action drill chuck 1-13 mm
- ▶ Taper mandrel for drill chuck MT2/B16

Machine data	DX 13V*	DX 15V*	DX 17E*	DX 17V*
Art no.	3020150	3020155	3020168	3020170
Motor power ~50 Hz	0.85 kW / 230 V		1.0 kW / 230 V	
Drilling capacity / continuous drilling capacity in steel (S235JR)	Ø 13 mm / Ø 11 mm	Ø 15 mm / Ø 12 mm	Ø 16 mm / Ø 13 mm	
Spindle seat	MT2		MT2	
Throat depth / quill stroke	235 mm / 60 mm		235 mm / 60 mm	
Spindle speeds	100 - 3000 min ⁻¹		50 - 4000 min ⁻¹	
Drive	electronically adjustable		electronically adjustable	
Drill table (L x W) / T- slot size	-	290 x 290 mm / 10 mm	290 x 290 mm / 10 mm	
Dimensions (L x W x H) approx.	325 x 520 x 900 mm	425 x 475 x 980 mm	425 x 480 x 910 mm	
Net weight approx.	51 kg	66 kg	73 kg	

* The machines comply with the DIN EN 55011 standard: Class C2. Important information on operating machines with frequency converters can be found on the reverse side



OPTIdrill® DP 26T / DP 26F / DP 33

DP 26T bench drill and DP 26F/DP 33 column drills with V-belt drive in a modern design

Facts that impress in terms of quality, performance and price

- ▶ Separate emergency stop push button
- ▶ Digital depth sensor
- ▶ Machine operation with safety electrics in 24 V DC voltage
- ▶ Guaranteed concentricity ≤ 0.02 mm measured in the drilling spindle
- ▶ Particularly smooth running thanks to new spindle design
- ▶ Industrial motor
- ▶ LED machine lamp integrated in drilling head
- ▶ Precision spindle hole
- ▶ speed display
- ▶ Thick walled steel column for high force absorption and stability
- ▶ Solid, generously dimensioned baseplate with T-slots
- ▶ Precisely machined, stable drilling table with diagonal T-slots with all-round cooling water channel, can be tilted sideways by $\pm 45^\circ$ and rotated 360°
- ▶ V-belt cover with safety switch
- ▶ Heavy duty design of entire machine

Machines with 400 V:

- ▶ Clockwise/anticlockwise rotation



Scan QR code

Information & Video

V-BELT DRIVE



- › Premium Gates belts
- › The toothed V-belts enable a higher power transmission to the shaft due to their smaller wrap angle at the V-belt pulleys
- › Easy adjustment of the belt tension via excenter (toggle lever)

STATE-OF-THE-ART OPERATING CONCEPT



- › Easily readable, digital display for viewing the speed, depth gauge and zero point

SPINDLE



- › Outstandingly smooth running thanks to an innovative spindle geometry that has a vibration-damping effect



The machines are pre-assembled.
Individual components of the machine still have to be assembled and joined together.

SCOPE OF DELIVERY:

- ▶ Quick-action drill chuck 1 - 16 mm
- ▶ Taper mandrel for drill chuck
- ▶ T-slot nuts
- ▶ Push-out tool
- ▶ Operating tool



Fig.: DP 26-T

Fig.: DP 33

Machine data	DP 26T	DP 26F	DP 33
Art no.	3020620T	3020625T (230V) / 3020625F (400V)	3020640
Motor power ~50 Hz		0.75 kW 230 V or 400 V	1.1 kW 400 V
Drilling capacity / continuous drilling capacity in steel (S235JR)		$\varnothing 25$ mm / $\varnothing 20$ mm	$\varnothing 30$ mm / $\varnothing 25$ mm
Spindle seat		MT3	MT4
Throat depth / quill stroke		95 mm / 209 mm	125 mm / 270 mm
Spindle speeds / speed levels		200 - 2440 min ⁻¹ / 12 speeds	120 - 1810 min ⁻¹ / 9 speeds
Drill table (L x W) / T- slot size		308 x 308 mm / 12 mm	387 x 387 mm / 14 mm
Tilting sideways/rotating the drill table		$\pm 45^\circ$ / 360°	$\pm 45^\circ$ / 360°
Clearance spindle - drilling table	400 mm	770 mm	775 mm
Foot work surface (L x W)		202 x 265 mm	270 x 327 mm
T-slot size / spacing / count		14 mm / 120 mm / 2	16 mm / 150 mm / 2
Clearance spindle - machine base	592 mm	1,300 mm	1,300 mm
Column diameter		$\varnothing 80$ mm	$\varnothing 92$ mm
Dimensions (L x W x H) approx.	750 x 410 x 1025 mm	750 x 410 x 1725 mm	945 x 480 x 1880 mm
Net weight approx.	107 kg	116 kg	186 kg

OPTi drill[®] DP 26V / DP 33V Bench and column drills with Vario drive in a modern design

Facts that impress in terms of quality, performance and price

- ▶ Heavy duty design of entire machine
- ▶ Separate emergency stop push button
- ▶ Digital depth sensor
- ▶ Clockwise/anticlockwise rotation
- ▶ Machine operation with safety electrics in 24 V DC voltage
- ▶ Guaranteed concentricity ≤ 0.02 mm measured in the drilling spindle
- ▶ Particularly smooth running thanks to new spindle design
- ▶ Industrial motor
- ▶ LED machine lamp integrated in drilling head
- ▶ Precision spindle hole
- ▶ Thick walled steel column for high force absorption and stability
- ▶ Speed display
- ▶ Solid, generously dimensioned baseplate with T-slots
- ▶ Precisely machined, stable drilling table with V-belt cover with safety switch
- ▶ Thread tapping function with automatic changeover after reaching the depth



INVERTER DRIVE

- ▶ Stepless speed control using inverter technology
- ▶ Easily accessible
- ▶ Premium Gates belts
- ▶ To ensure that you can always set the optimum torque for machining, the belt can also be switched to the appropriate belt stage. This ensures a longer service life for the tools and reduces the load on the entire machine design
- ▶ Easy adjustment of the belt tension via excenter (toggle lever)

SIEMENS SINAMICS V 20 FREQUENCY INVERTER

- ▶ Energy-saving features
- ▶ Advanced cooling



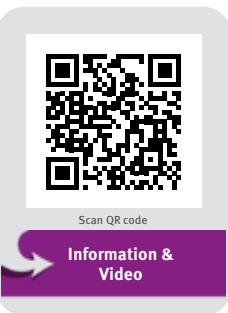
STATE-OF-THE-ART OPERATING CONCEPT

- ▶ Easily readable digital display for viewing the speed, depth gauge and zero point



SPINDLE

- ▶ Outstandingly smooth running thanks to an innovative spindle geometry that has a vibration-damping effect



The machine is pre-assembled.

- ▶ Individual components of the machine still have to be assembled and joined together.



SCOPE OF DELIVERY:

- ▶ Quick-action drill chuck 1 - 16 mm
- ▶ Taper mandrel for drill chuck
- ▶ T-slot nuts
- ▶ Push-out tool

Option DP 33V
Drill table 475 x 425 mm
Art no. 3020640001

Machine data	DP 26V-T*	DP 26V-F*	DP 33V*
Model	Bench drill	Column drilling machine	Column drilling machine
Art no.	3020675T	3020675F	3020680
Motor power ~50 Hz	0.75 kW 400 V		1.1 kW 400 V
Drilling capacity / continuous drilling capacity in steel (S235JR)	Ø 25 mm / Ø 20 mm		Ø 30 mm / Ø 25 mm
Spindle seat	MT3		MT4
Throat depth/ quill stroke	209 mm / 95 mm		270 mm / 125 mm
Spindle speeds / speed levels	60 - 3050 min ⁻¹ / 12 speeds		70 - 2800 min ⁻¹ / 9 speeds
Drive	electronically adjustable		electronically adjustable
Drill table (L x W) / T- slot size	308 x 308 mm / 12 mm		387 x 387 mm / 14 mm
Tilting sideways/rotating the drill table	± 45° / 360°		± 45° / 360°
Clearance spindle - drilling table	400 mm	770 mm	775 mm
Foot work surface (L x W) / T-slot size	202 x 265 mm / 14 mm		270 x 327 mm / 16 mm
Clearance spindle - machine base	592 mm	1,300 mm	1,300 mm
Column diameter	Ø 80 mm		Ø 92 mm
Dimensions (L x W x H) approx.	845 x 406 x 1025 mm	845 x 406 x 1724 mm	945 x 480 x 1880 mm
Net weight approx.	98 kg	107 kg	177 kg

* The machines comply with the DIN EN 55011 standard: Class C2. Important information on operating machines with frequency converters can be found on the reverse side



OPTi drill® DP 26BV / DP 33BV Bench and column drills with Vario drive in a modern design

Facts that impress in terms of quality, performance and price

- ▶ Heavy duty design of entire machine
- ▶ Separate emergency stop push button
- ▶ Digital depth sensor
- ▶ Clockwise/anticlockwise rotation
- ▶ Machine operation with safety electrics in 24 V DC voltage
- ▶ Guaranteed concentricity ≤ 0.02 mm measured in the drilling spindle
- ▶ Particularly smooth running thanks to new spindle design
- ▶ Industrial motor
- ▶ LED machine lamp integrated in drilling head
- ▶ Precision spindle hole
- ▶ Thick-walled steel column
- ▶ Speed display
- ▶ Solid, generously dimensioned baseplate with T-slots
- ▶ Precisely machined, stable drill table
- ▶ V-belt cover with safety switch
- ▶ Thread tapping function with automatic changeover after reaching the depth



VARIATOR BELT DRIVE

- ▶ By varying the distance between the conical pulleys, the belt can have different diameters. This leads to a stepless adjustment of the transmission ratio and thus to a variable speed of the drilling spindle.
- ▶ **The highlight:** The user can change the distance between the conical discs using an actuator via the pushbuttons on the control panel.
- ▶ The speed changes when the spindle is rotating

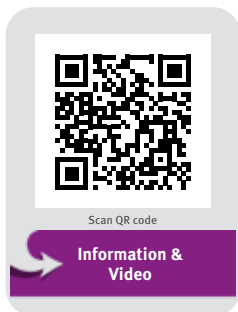


Fig.: DP 26BV-F

Fig.: DP 33BV

The machine is pre-assembled.



Individual components of the machine still have to be assembled and joined together.

VARIATOR

- ▶ Durable wide groove v-belt
- ▶ Extremely reliable thanks to electrically adjustable speed
- ▶ Powerful, smooth action
- ▶ Speed change only possible when spindle is running
- ▶ Permanent optimal motor efficiency



STATE-OF-THE-ART OPERATING CONCEPT

- ▶ Easily readable digital display for viewing the speed, depth gauge and zero point
- ▶ The highlight - speed adjustment at the touch of a button

SCOPE OF DELIVERY:

- ▶ Quick-action drill chuck 1 - 16 mm
- ▶ Taper mandrel for drill chuck
- ▶ T-slot nuts
- ▶ Push-out tool

Machine data	DP 26BV-T*	DP 26BV-F*	DP 33BV*
Model	Bench drill	Column drilling machine	Column drilling machine
Art no.	3027660T	3027660F	3027685
Motor power ~50 Hz	0.45 / 0.75 kW 400 V		0.85 / 1.5 kW 400 V
Drilling capacity / continuous drilling capacity in steel (S235JR)	Ø 25 mm / Ø 20 mm		Ø 30 mm / Ø 25 mm
Spindle seat	MT3		MT4
Throat depth/ quill stroke	209 mm / 95 mm		270 mm / 125 mm
Spindle speeds / speed levels	420 - 2100 min ⁻¹ / 2 speeds		420 - 2130 min ⁻¹ / 2 speeds
Drive	electronically adjustable		electronically adjustable
Drill table (L x W) / T- slot size	308 x 308 mm / 12		387 x 387 mm / 14 mm
Drill table can be tilted / rotated sideways	± 45° / 360°		± 45° / 360°
Clearance spindle - drilling table	400 mm	740 mm	775 mm
Foot work surface (L x W) / T-slot size	202 x 265 mm		270 x 327 mm
Clearance spindle - machine base	592 mm	1,300 mm	1,300 mm
Column diameter	Ø 80 mm		Ø 92 mm
Dimensions (L x W x H) approx.	748 x 406 x 1025 mm	748 x 406 x 1724 mm	945 x 480 x 1880 mm
Net weight approx.	101 kg	111 kg	177 kg

1) Explanations regarding transport surcharges (TPZ) – see reverse side. * The machines comply with the DIN EN 55011 standard: Class C2. Important information on operating machines with frequency converters can be found on the reverse side



OPTIdrill® B 16H / B 24H / B 28H / B 34H

Robust bench and column drilling machines

Facts that impress in terms of quality, performance and price

- ▶ Smooth, powerful industrial electric motor
- ▶ V-belt quick tensioning device
- ▶ Measuring scale for drilling depth

Equipment	B 16H	B 24H	B 28H	B 34H
Machine lamp		✓	✓	✓
Clockwise/anticlockwise rotation		✓ (400 V)	✓	✓
Dig. depth gauge				✓
Dig. Speed display				✓
Integr. push-out tool			✓	✓



B 16H



B 24H



B 28H



B 34H

SCOPE OF DELIVERY:

- ▶ Quick-action drill chuck
- ▶ T-slot nuts
- ▶ Taper mandrel for drill chuck

Machine data	B 16H	B 24H	B 28H	B 34H
Art no.	3020217	3020241 (230V) 3020243(400V)	3020283	3020333
Motor power ~50 Hz	550 W / 400 V	850 W / 230 V or 400 V	850 W / 400 V	1.5 / 2.2 kW / 400 V
Drilling performance in steel (S235JR)	Ø 13 mm	Ø 24 mm	Ø 28 mm	Ø 34 mm
Continuous drilling performance in steel (S235JR)	Ø 11 mm	Ø 20 mm	Ø 24 mm	Ø 26 mm
Spindle seat	MT2	MT2	MT3	MT4
Throat depth / quill stroke	130 mm / 65 mm	165 mm / 85 mm	200 mm / 105 mm	285 mm / 160 mm
Spindle speeds / speed levels	450 - 3500 min ⁻¹ / 5	350 - 4000 min ⁻¹ / 7	120 - 4000 min ⁻¹ / 16	145 - 4800 min ⁻¹ / 2 x 9
Drill table (L x W) / T- slot size	230 x 245 / 12 mm	280 x 300 / 14 mm	340 x 360 / 14 mm	420 x 400 / 14 mm
Dimensions (L x W x H) approx.	550 x 300 x 850 mm	665 x 435 x 1000 mm	700 x 450 x 1720 mm	920 x 585 x 1900 mm
Net weight approx.	54 kg	92 kg	142 kg	260 kg

OPTIdrill® DH 28FS

Column drilling machine with automatic quill feed

Facts that impress in terms of quality, performance and price

- ▶ V-belt quick tensioning device
 - ▶ V-belt cover with safety switch
 - ▶ Aluminium pulleys
 - ▶ Toothed GATES quality V-belts
 - ▶ Drilling depth stop
 - ▶ Precision machined drilling table
- ▶ with diagonal T-slots and all-around cooling water channel
 - ▶ Solid, generously dimensioned baseplate with T-slots
 - ▶ Integrated push-out tool

SCOPE OF DELIVERY:

- ▶ Quick-action drill chuck 1 - 16 mm
- ▶ Taper mandrel for drill chuck
- ▶ T-slot nuts

Machine data	DH 28FS
Art no.	3020284
Motor power ~50 Hz	850 W / 400 V
Drilling performance in steel (S235JR)	Ø 28 mm
Continuous drilling performance in steel (S235JR)	Ø 24 mm
Spindle seat	MT3
Throat depth / quill stroke	200 mm / 105 mm
Spindle speeds / speed levels	120 - 3000 min ⁻¹ / 12
Drill table (L x W) / T- slot size	340 x 360 mm / 14 mm
spindle sleeve feed	0.02 mm/rev
Clearance spindle - drilling table	928 mm
Dimensions (L x W x H) approx.	715 x 450 x 1720 mm
Net weight approx.	146 kg



AUTOMATIC SPINDLE SLEEVE FEED

- ▶ The feed is automatically switched off after reaching the preset drilling depth and turned back to its original position by the spring force of the return spring.



* The machines comply with the DIN EN 55011 standard: Class C2. Important information on operating machines with frequency converters can be found on the reverse side

OPTIdrill® DH 18V Robust bench drill with electronic speed control



Facts that impress in terms of quality, performance and price

- ▶ Separate emergency stop push button
- ▶ Drilling depth stop
- ▶ Smooth action thanks to ground multi-tooth carrier
- ▶ Generously dimensioned, height adjustable protective screen with safety switch
- ▶ Dirt/water-resistant, easy-to-clean membrane keyboard
- ▶ V-belt cover with safety switch
- ▶ V-belt tensioning device

POWERFUL BRUSHLESS DRIVE

- ▶ Particularly quiet operation
- ▶ Extremely powerful
- ▶ Approximately constant torque across the entire speed range

MENU-CONTROLLED OPERATION

- ▶ Working modes: Drilling, thread tapping
- OLED display**
 - › Spindle speed
 - › Depth display
 - › Drilling
 - › Thread tapping
 - › Workpiece thickness selection



SCOPE OF DELIVERY:

- ▶ Quick-action drill chuck 1 - 13 mm
- ▶ Taper mandrel for drill chuck MT2/ B16
- ▶ T-slot nuts

Machine data	DH 18V*
Art no.	3020220
Motor power ~50 Hz	1.5 kW / 230 V
Drilling performance in steel (S235JR)	Ø 18 mm
Continuous drilling performance in steel (S235JR)	Ø 16 mm
Thread tapping in steel (S235JR)	M 10
Spindle seat	MT2
Throat depth / quill stroke	130 mm / 65 mm
Spindle speeds / speed levels	100 - 6000 min ⁻¹ / 5
Drive	electronically adjustable
Drill table (L x W) / T- slot size	230 x 245 mm / 12 mm
Dimensions (L x W x H) approx.	445 x 550 x 850 mm
Net weight approx.	64 kg



- › Art no. 3201010
- › 25-piece; 1- 13 mm
- › According to DIN 338 HSS-Co 5%



OPTIdrill® B 24HV / B 28HV / B 34HV Robust bench and column drills with OPTIMUM brushless drive with electronic speed control



- ▶ Best power transmission thanks to aluminium pulleys in conjunction with toothed GATES quality V-belt
- ▶ Smooth action thanks to ground multi-tooth carrier

Equipment	B 24HV	B 28HV	B 34HV
Machine lamp	✓	✓	✓
Digital speed display	✓	✓	✓
Coolant system		✓	✓
Chip filter		✓	✓
Thread tapping function			✓
Digital depth sensor			✓
Integrated push-out tool		✓	✓

SCOPE OF DELIVERY:

- ▶ Quick-action drill chuck
- ▶ Taper mandrel for drill chuck

Machine data	B 24HV *	B 28HV *	B 34HV *
Art no.	3020245	3020285	3020335
Motor power ~50 Hz	1.5 kW / 230 V	1.5 kW / 230 V	2.2 kW / 230 V
Drilling performance in steel (S235JR)	Ø 24 mm	Ø 28 mm	Ø 34 mm
Continuous drilling performance in steel (S235JR)	Ø 20 mm	Ø 24 mm	Ø 26 mm
Thread tapping in steel (S235JR)	-	-	M 16 x 2 mm
Spindle seat	MT2	MT3	MT4
Throat depth / quill stroke	165 mm / 85 mm	200 mm / 105 mm	285 mm / 160 mm
Spindle speeds / speed levels	100 - 5950 min ⁻¹ / 4	35 - 5600 min ⁻¹ / 12	40 - 5000 min ⁻¹ / 9
Drill table (L x W) / T- slot size	280 x 300 mm / 14 mm	340 x 360 mm / 14 mm	420 x 400 mm / 14 mm
Dimensions (L x W x H) approx.	665 x 435 x 1000 mm	700 x 475 x 1755 mm	920 x 595 x 1930 mm
Net weight approx.	96 kg	166 kg	275 kg

POWERFUL BRUSHLESS DRIVE

- ▶ Particularly smooth action
- ▶ Extremely powerful
- ▶ Virtually constant torque over the entire speed range



Fig.: B 34HV

* The machines comply with the DIN EN 55011 standard: Class C2. Important information on operating machines with frequency converters can be found on the reverse side

OPTi drill® DH 24BV / DH 28BV / DH 40BV

Bench and column drilling machines with stepless, mechanical belt drive



Facts that impress in terms of quality, performance and price

- ▶ Smooth action powerful electric motor
- ▶ Quicker speed adjustment using a lever
- ▶ Drilling spindle with precision ball bearings
- ▶ Clockwise/anticlockwise rotation
- ▶ Machine light integrated in the drill head
- ▶ V-belt cover with safety switch

Equipment	DH 24BV	DH 28BV	DH 40BV
Integrated push-out tool		✓	✓
Dig. depth gauge			✓
Primary gear			✓

VARIATOR BELT DRIVE



- › Durable wide groove v-belt
 - › Extremely reliable
 - › Powerful, smooth action
 - › Speed change possible during operation
 - › Permanent optimal motor efficiency
-
- › By varying the distance between the conical pulleys, the belt can have different diameters.
 - › This leads to a stepless adjustment of the transmission ratio and thus to a variable speed of the drilling spindle.
 - › The infinitely variable V-belt drive is used to position the V-belt to the desired V-belt diameter with the hand lever while the drilling spindle is rotating. This causes the speed to change



Fig.: DH 24BV



Fig.: DH 40BV

SCOPE OF DELIVERY:

- ▶ Quick-action drill chuck 1 - 16 mm
- ▶ Taper mandrel for drill chuck
- ▶ T-slot nuts

Machine data	DH 24BV	DH 28BV	DH 40BV
Art no.	3020420	3020431	3020450
Motor power ~50 Hz	0.85 / 1.5 kW / 400 V	0.85 / 1.5 kW / 400 V	1.5 / 2.2 kW / 400 V
Drilling performance in steel (S235JR)	Ø 24 mm	Ø 28 mm	Ø 40 mm
Continuous drilling performance in steel (S235JR)	Ø 20 mm	Ø 24 mm	Ø 32 mm
Spindle seat	MT2	MT3	MT4
Throat depth / quill stroke	165 mm / 85 mm	200 mm / 105 mm	285 mm / 160 mm
Spindle speeds	300 - 4000 min ⁻¹	300 - 4000 min ⁻¹	150 - 2000 min ⁻¹
Spindle speeds	2 speed motor, manual	2 speed motor, manual	2 speed motor, manual
Drill table (L x W) / T- slot size	280 x 300 mm / 14 mm	340 x 360 mm / 14 mm	420 x 400 mm / 14 mm
Clearance spindle - drilling table	515 mm	860 mm	790 mm
Dimensions (L x W x H) approx.	675 x 555 x 1025 mm	755 x 550 x 1745 mm	920 x 680 x 1895 mm
Net weight approx.	115 kg	152 kg	275 kg

* The machines comply with the DIN EN 55011 standard: Class C2. Important information on operating machines with frequency converters can be found on the reverse side

OPTi drill® DH 40G / DH 40GP / DH 40GPE / DH 40CT / DH 40CTP / DH 40CTPE / DH 40CTPED- Column gear drilling machines. The versatile machines for milling and drilling



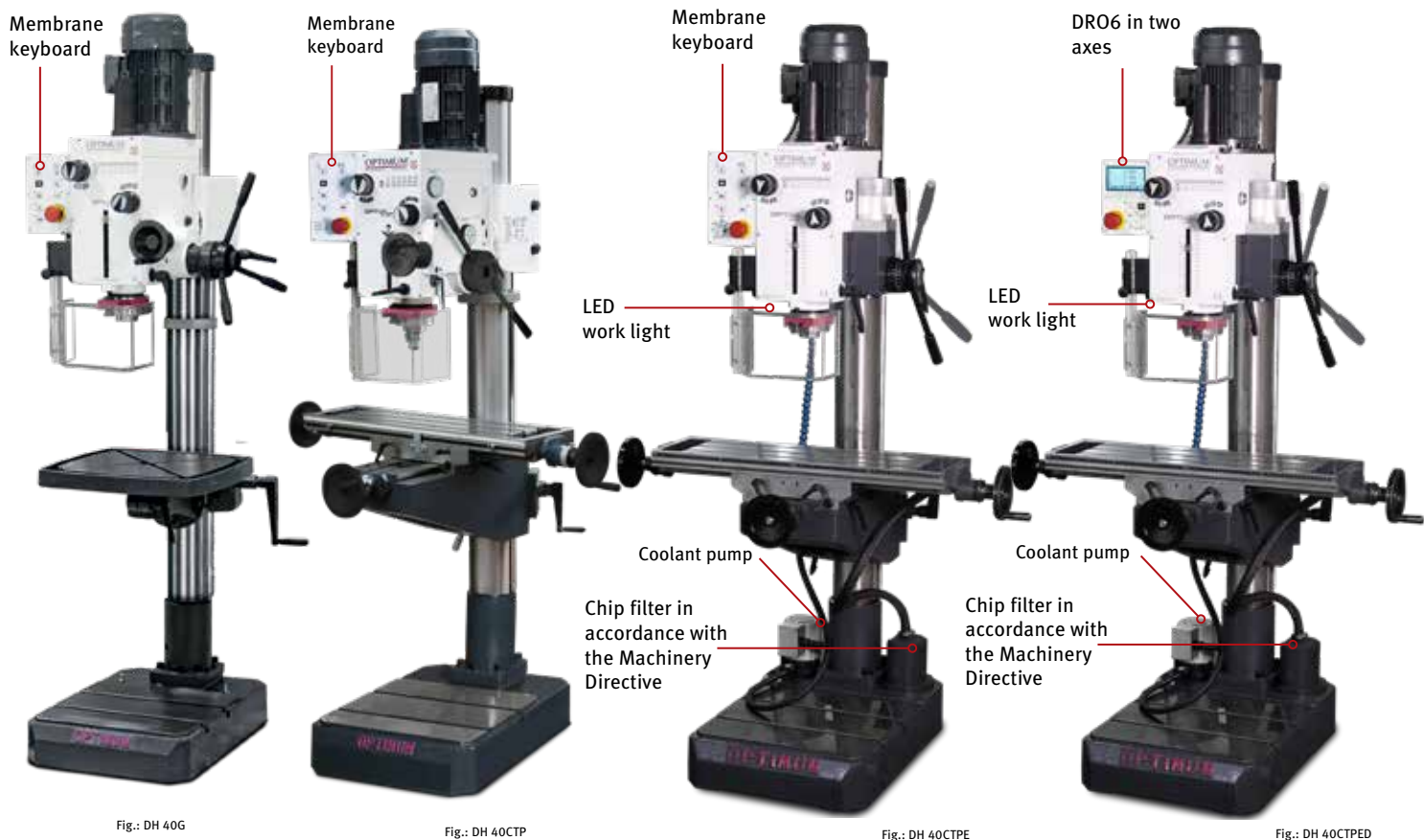
Facts that impress in terms of quality, performance and price

- ▶ Two-stage industrial quality electric motor
- ▶ High running smoothness due to ground gear wheels running in an oil bath
- ▶ Drilling depth stop
- ▶ Thread tapping function
- ▶ Height-adjustable gear head and drilling table
- ▶ Clockwise/anticlockwise rotation
- ▶ Sideways ± 45° tiltable gear head
- ▶ Membrane keyboard

SCOPE OF DELIVERY:

- ▶ Gear rim drill chuck 1-13 mm/B16
- ▶ T-slot nuts
- ▶ Adapter MT4-MT3
- ▶ Arbor MT4/B16
- ▶ Morse taper MT4/B22

Equipment	DH 40G	DH 40GP	DH 40GPE	DH 40CT	DH 40CTP	DH 40CTPE	DH 40CTPED
Spindle sleeve feed	manual	automatic	electrical	manual	automatic	electrical	electrical
Speed dependent		✓			✓		
Speed independent			✓			✓	✓
Cross table				✓	✓	✓	✓
Coolant pump and chip filter			✓			✓	✓
DRO6 in two axes							✓
LED work light			✓			✓	✓



Machine data	DH 40G	DH 40GP	DH 40GPE	DH 40CT	DH 40CTP	DH 40CTPE	DH 40CTPED
Art no.	3034356	3034361	3035357	3034349	3034352	3035353	3035355
Motor power ~50 Hz		1.1 / 1.5 kW / 400 V			1.1 / 1.5 kW / 400 V		
Drilling performance in steel (S235JR)		Ø 32 mm / Ø 28 mm			Ø 32 mm / Ø 28 mm		
Continuous drilling capacity (S235JR)		Ø 32 mm / Ø 28 mm			Ø 32 mm / Ø 28 mm		
Thread tapping in steel (S235JR)		M 16			M 16		
Spindle seat		MT4			MT4		
Throat depth / quill stroke		280 mm / 120 mm			280 mm / 120 mm		
Spindle sleeve feed		0.1 - 0.26 mm/rev	0 - 130 mm/min		0.1 - 0.26 mm/rev	0 - 130 mm/min	
	manual	automatic	electrical	manual	automatic	electrical	
Spindle speeds / Gear stages	95 - 3200 min ⁻¹ / 2 x 6 speeds			95 - 3200 min ⁻¹ / 2 x 6 speeds			
Drill table (L x W) / T- slot size	500 x 460 mm / 14 mm			730 x 210 mm / 14 mm			
X- / Y- / Z-axis manual traverse path	-			480 / 180 / 560 mm			
Dimensions (L x W x H) approx.	595 x 700 x 2050 mm			1060 x 745 x 2090 mm			
Net weight approx.	320 kg	335 kg	335 kg	370 kg			

* The machines comply with the DIN EN 55011 standard: Class C2. Important information on operating machines with frequency converters can be found on the reverse side

OPTi drill® DH 26GT / DH 28GS / DH 28GSV / DH 32GS / DH 32GSV

Bench and column drills with polyamide gearwheels



Facts that impress in terms of quality, performance and price

- ▶ Excellent true running accuracy thanks to hardened and ground main spindle
- ▶ Drilling depth stop
- ▶ Thread tapping function
- ▶ Low-maintenance, grease-lubricated gearbox
- ▶ Gearbox with PA6 gears, smooth running
- ▶ Large speed range
- ▶ Machine lamp integrated in drilling head
- ▶ Integrated push-out tool
- ▶ Clockwise/anticlockwise rotation



Foot switch
Art no. 3050032

Foot switch for switching between clockwise/anti-clockwise rotation and for thread tapping

Equipment	DH 26GT	DH 28GS	DH 28GSV	DH 32GS	DH 32GSV
SIEMENS SINAMIGS V 20 FREQUENCY INVERTER			✓		✓
Automatic spindle sleeve feed				✓	✓
Coolant pump/chip filter			✓	✓	✓
Digital Display			✓		✓

DH 26GT



Fig.: with optional drill chuck, see OP 24

DH 28GSV



Fig.: with optional drill chuck, see OP 24

DH 32GSV

Automatic spindle sleeve feed

Coolant pump

Chip filter in line with Machinery Directive



Fig.: with optional drill chuck, see OP 24

SCOPE OF DELIVERY:

- ▶ Taper mandrel for drill chuck

Machine data	DH 26GT	DH 28GS	DH 28GSV *	DH 32GS	DH 32GSV *
Art no.	3034220	3034230	3034235	3034240	3034245
Motor power ~50 Hz	1.1 / 1.5 kW / 400 V		1.5 kW	1.5 / 2.2 kW / 400 V	
Drilling performance in steel (S235JR)	Ø 24 mm	Ø 26 mm		Ø 30 mm	
Continuous drilling performance in steel (S235JR)	Ø 21 mm	Ø 23 mm		Ø 26 mm	
Thread tapping in steel (S235JR)	-	-	M 16 x 2 mm	M16 x 2 mm	
Spindle seat	MT3	MT3		MT4	
Throat depth / quill stroke	235 mm / 127 mm	260 mm / 127 mm		285 mm / 125 mm	
Spindle sleeve feed	-	-	-	0.05 / 0.1 mm	
Spindle speeds	75 - 2900 min ⁻¹	75 - 2900 min ⁻¹	45 - 3200 min ⁻¹	75 - 2000 min ⁻¹	40 - 3000 min ⁻¹
Gearbox stages	8 stages	8 stages	4 pcs. electronically adjustable	8 stages	4 pcs. electronically controllable
Drill table (L x W) / T- slot size	380 x 380 mm / 14 mm	376 x 394 mm / 14 mm		400 x 420 mm / 14 mm	
Dimensions (L x W x H) approx.	610 x 380 x 1430 mm	640 x 376 x 2080 mm	690 x 375 x 2080 mm	725 x 450 x 2200 mm	820 x 450 x 2230 mm
Net weight approx.	158 kg	175 kg	184 kg	312 kg	324 kg

* The machines comply with the DIN EN 55011 standard: Class C2. Important information on operating machines with frequency converters can be found on the reverse side

OPTIdrill® DH 35G / DH 35V / DH 45GE / DH 45V / DH 55G / DH 55V
Heavy-duty gearbox drilling machine with thread tapping device



Facts that impress in terms of quality, performance and price

- ▶ Heavy, solid cast design
- ▶ Dirt/water-resistant, easy-to-clean membrane keyboard
- ▶ 24V DC Electronics
- ▶ Machine lamp
- ▶ Drilling depth stop
- ▶ Solid base plate with precise surface finish
- ▶ Coolant device, chip filter
- ▶ Thread tapping device
- ▶ Extremely stable, thick-walled cast iron column

Equipment	DH 35G	DH 35V	DH 45GE	DH 45V	DH 55G	DH 55V
FREQUENCY CONVERTER		✓		✓		✓
Electrically operated spindle sleeve feed	✓	✓	✓	✓	✓	✓
Oil pump			✓		✓	✓
Infinitely variable speed control		✓		✓		✓
Feed deactivation programmable		✓		✓		✓
Easily readable digital display		✓		✓		✓
Digitally adjustable drilling and thread depth		✓		✓		✓
Digital zero point adjustable		✓		✓		✓

SCOPE OF DELIVERY:

- ▶ Quick-action drill chuck 1-16 mm
- ▶ Taper mandrel for drill chuck MT4/B16



Machine data	DH 35G	DH 35V*	DH 45GE	DH 45V*	DH 55G	DH 55V*
Art no.	3034250	3034253	3034257	3034263	3034265	3034267
Motor power ~50 Hz	1.5 / 2.2 kW / 400 V	2.2 kW / 400 V		2.2 kW / 400 V	2.2 / 2.8 kW / 400 V	2.8 kW / 400 V
Drilling performance in steel (S235JR)	Ø 35 mm		Ø 40 mm		Ø 55 mm	
Continuous drilling performance in steel (S235JR)	Ø 26 mm		Ø 35 mm		Ø 50 mm	
Thread tapping in steel (S235JR)	M 20		M 30		M 42	
Spindle seat	MT4		MT4		MT4	
Throat depth / quill stroke	285 mm / 125 mm		350 mm / 170 mm		400 mm / 190 mm	
Spindle sleeve feed	3 speeds; 0.05 - 0.15 mm/rev		3 speeds; 0.1 - 0.2 mm/rev		3 speeds; 0.1 - 0.2 mm/rev	
Spindle speeds	75 - 2000 min ⁻¹	30 - 2950 min ⁻¹	90 - 1520 min ⁻¹	30 - 2430 min ⁻¹	45 - 2000 min ⁻¹	10 - 3000 min ⁻¹
Gearbox stages	8 stages	4 pcs. electronically adjustable	8 stages	4 pcs. electronically adjustable	16 stages	4 pcs. electronically adjustable
Drill table (L x W) / T- slot size	400 x 420 mm / 14 mm		530 x 530 mm / 18 mm		600 x 600 mm / 18 mm	
Dimensions (L x W x H) approx.	860 x 475 x 2175 mm		880 x 595 x 2445 mm		850 x 1060 x 2500 mm	
Net weight approx.	355 kg		540 kg		850 kg	

* The machines comply with the DIN EN 55011 standard: Class C2. Important information on operating machines with frequency converters can be found on the reverse side

OPTI^{drill}® RD 4E/ RD 5E Precise, solid radial drilling machines



Facts that impress in terms of quality, performance and price

- ▶ Electrically braked motor
- ▶ Heavy, solid, premium quality casting
- ▶ Smooth action pivoting and travel axes
- ▶ Torsionally stiff boom design, capable of supporting heavy loads
- ▶ Height-adjustment of boom via powerful motorised drive and lifting spindle
- ▶ Right/left-hand rotation
- ▶ Clamping table included in the scope of delivery
- ▶ Coolant unit with coolant tank in machine base
- ▶ Column and headstock mechanically clamped



TOUCH

- › User-friendly membrane keypad with touch operation



CONTROL CABINET

- › Standards-compliant setup
- › New OPTIMUM in-house development
- › Signal transmission via network cable with diagnostic function

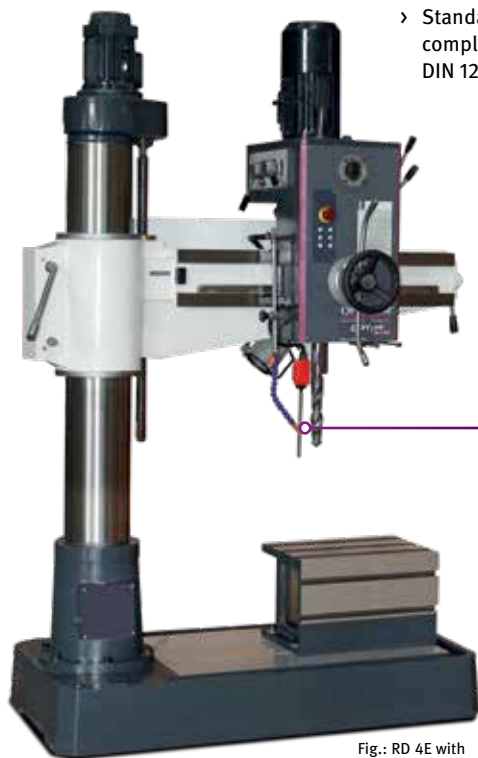


Fig.: RD 4E with optional drill

EXTENDABLE SHIFT ROD

- › Standards-compliant as per DIN 12717

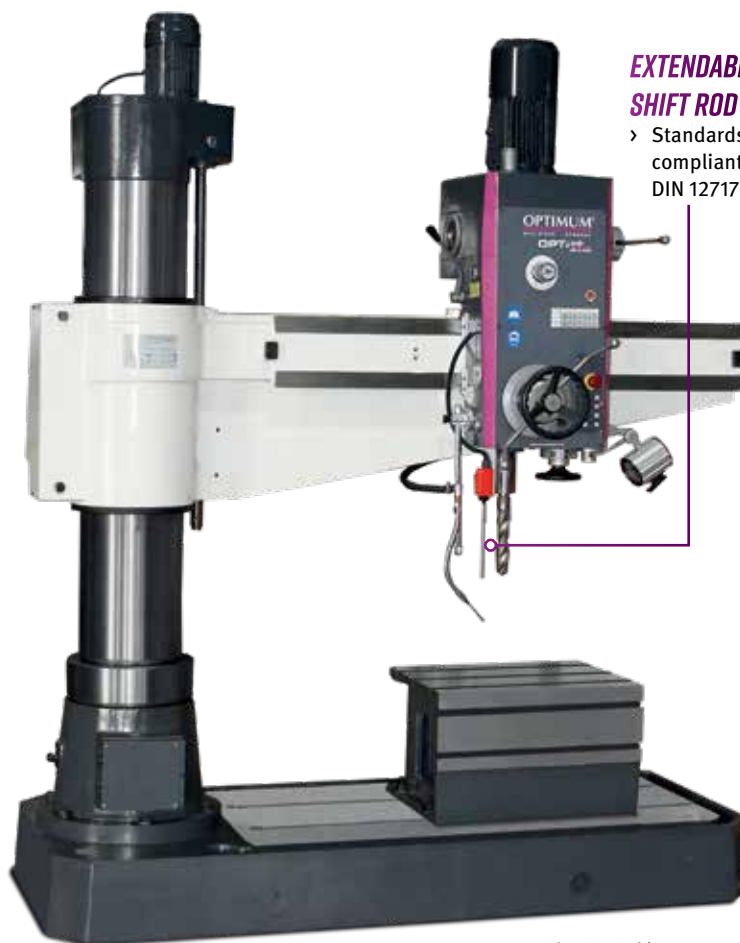


Fig.: RD 5E with optional drill

EXTENDABLE SHIFT ROD

- › Standards-compliant as per DIN 12717

SCOPE OF DELIVERY:

- ▶ Clamping table
- ▶ Morse taper MT4-MT3, MT4-MT2

Machine data	RD 4E	RD 5E
Art no.	3049340	3049350
Total connected load ~50 Hz	2.2 kW / 400 V	2.2 kW / 400 V
Drive power hoist motor	0.75 kW	0.75 kW
Drilling/continuous drilling capacity in steel (S235JR)	Ø 35 mm / Ø 32 mm	Ø 45 mm / Ø 40 mm
Spindle seat	MT 4	MT 4
Drilling head travel (horizontal)	570 mm	1,000 mm
Boom lift travel (vertical)	500 mm	680 mm
Spindle speeds / number of steps	75 - 1220 min ⁻¹ / 6 speeds	40 - 1896 min ⁻¹ / 12 speeds
Clamping table working surface (L x W x H)	460 x 320 x 300 mm	600 x 450 x 370 mm
Spindle to table distance	260 - 1000 mm	280 - 1210 mm
Spindle to column distance	300 - 870 mm	370 - 1370 mm
Dimensions (L x W x H) approx.	1550 x 750 x 2200 mm	2045 x 800 x 2450 mm
Net weight approx.	800 kg	2200 kg

OPTIdrill® RD 4

Precision, solid radial drilling machines, premium quality



Facts that impress in terms of quality, performance and price

- ▶ Electrically braked motor
- ▶ Operating elements with 24V DC electrics and 2-channel safety chain in accordance with DIN EN 12717
- ▶ Heavy, solid, premium quality casting
- ▶ Smooth action pivoting and travel axes
- ▶ 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 hardened and precision ground
- ▶ Gear wheels made of chrome-nickel steel, hardened and precision ground for lower noise and smooth action
- ▶ Drilling head and column can be clamped or released separately
- ▶ Clockwise/anticlockwise rotation
- ▶ Hardened and ground clamping table with parallel T-slots
- ▶ Machine lamp
- ▶ Overload protection
- ▶ Clamping table included in the scope of delivery
- ▶ Coolant unit with coolant tank in machine base
- ▶ All axes are clamped manually



OPERATING ELEMENTS

> in 24 V DC electronics

EXTENDABLE SHIFT ROD

> Standards-compliant
as per DIN 12717

SCOPE OF DELIVERY:

- ▶ Clamping table

Machine data	RD 4
Art no.	3049040
Total connected load ~50 Hz	3 kW 400 V / ~50 Hz
Spindle drive motor power	1.5 kW
Drilling/continuous drilling capacity in steel (S235JR)	Ø 32 mm / Ø 28 mm
Spindle seat	MT4
Drilling head travel (horizontal)	530 mm
Boom lift travel (vertical)	580 mm
Spindle speeds / number of steps	73 - 1247 min ⁻¹ / 6 speeds
Clamping table working surface (L x W x H)	600 x 445 x 380 mm
Spindle to table distance	260 - 1060 mm
Spindle to column distance	220 - 750 mm
Dimensions (L x W x H) approx.	1260 x 700 x 2180 mm
Net weight approx.	1120 kg

1) Explanations regarding the transport surcharge (TPZDF) plus VAT can be found on the reverse side..