PROMOTECH®

smart tools for heavy tasks

FM 37982

PRO-50 | 2-SPEED DRILLING MACHINE

PRO-50 featuring purpose designed motor and 2-speed gear box 240/480 rpm is optimized to provide appropriate speed for work with HSS cutters up to Φ 45 mm and twist drills up to Φ 23 mm. Rigid construction, optimized by means of FEA (finite element analysis) software extends tool life and enables depth of cut up to 75 mm.

Compact design along with innovative smart magnet with reduced weight make it a lightweight machine.

PRO-50 provides maximum holding power on thin materials thanks to Magnetic Field Shape Control (MFSC). The drill protects both the machine and the operator from work on too thin work piece by means of Magnetic Power Adhesion Control (MPAC). PRO-50 is also equipped with Energy Saving Base (ESB) that uses only 50% of its power when motor is not running.

Features and benefits:

- Compact design with excellent ratio weight/power
- Purpose designed motor
- Motor Speeds 240/480 rpm (under load)
- Spindle equipped with MT2
- Innovative smart magnet with reduced weight
- Rigid design to extend tool life
- Large stroke enables the use of long tools
- Motor cable with additional protective cover
- Magnetic Field Shape Control (MFSC) provides maximum holding power on thin materials
- Magnetic Power Adhesion Control (MPAC) detects adhesive force of electromagnetic base and protects both the machine and the operator from work on too thin work piece
- Energy Saving Base (ESB) uses only 50% of its power when motor is not running

Core drill	Twist drill	Spindle	Depth of cut	Stroke	Speed	Power	Weight
max 50 mm	max 23 mm	MT2	max 75 mm	160 mm	240, 480 rpm	1150 W	15,5 kg

New mid-range drill family at your service

Promotech is introducing new family of drills that are designed for maximum milling/drilling performance.

Customers can choose from 4 models with various tool holders including:

- Weldon 19,05 mm (3/4")
- Morse Taper #2.

These new drills are optimized for work with HSS cutters and TCT cutters.

PRO-40

Weldon 3/4"
440 rpm

PRO-50

MT2
240/480 rpm

PRO-50 TCT

MT2
320/640 rpm

PRO-55

Weldon 3/4"
200/400 rpm

Best practices and new ideas

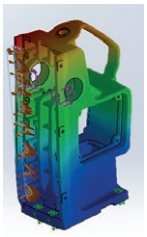
Replaceable spline at the end of armature shaft eliminates laborious and expensive armature maintenance

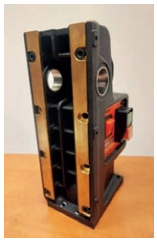
Motor based on well proven PRO-40 drive

Motor cable with additional protective cover

Increased stiffness of gearbox housing including ribs

Increased stiffness of drill body





Large stroke enables the use of long tools

A verified control system proved in PRO-40 / PRO-51

Drills PRO-40 and PRO-55 use the same magnetic base as former PRO-40

Drills PRO-50 and PRO-50 TCT features higher magnetic base to ensure safety when working on thin workpieces or with largest possible tools

Drills will be delivered in dedicated plastic box

Increased productivity and extended tool life

The right choice of drilling machine for a specific application can increase process productivity and extend tool life, especially when drilling a large number of holes of the same size.

The design of the new drills is based on well proven electric motor successfully used for many years in the PRO-40 drilling machines.

Most of the components are common between the new models, which allows for flexibility in production, shorter delivery times and immediate response to market demand for specific versions of new drills.

All drills are equipped with smart electromagnetic bases including many advanced systems.

Magnetic power adhesion control module (MPAC) detects adhesive force and protects both the machine and the operator from work on too thin work pieces.

Magnetic field shape control system (MFSC) provides maximum holding power on thin materials.

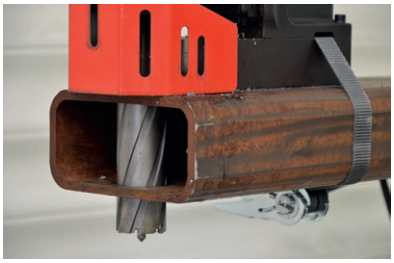
Energy Saving Base (ESB) uses only 50% of its power when motor is not running.

Compact design allows the operator to drill very close to side wall and corners.

Drilling capacity up to 16 mm (0.63")
– *with cylindrical shank twist drill in use*
Drilling capacity up to 23 mm (0.91")
– *with MT2 shank twist drill in use*

Out of position drilling

Milling capacity up to 55 mm (2.17")
Depth of cut up to 75 mm (3")



Starting point of milling up to 50 mm (2")
below a level of a drill base

Features and benefits of new mid-range drill family:

- Wide selection of 4 models tailored to certain drilling applications
- Purpose designed motor proven for many years in the PRO-40 drill
- Heavy duty gear boxes optimized to match the appropriate speed of specific tools in use
- Innovative smart magnet with reduced weight
- Compact design with excellent ratio weight / power
- Various tool holders
- Rigid design to extend tool life
- Magnetic Field Shape Control (MFSC)
- Magnetic Power Adhesion Control (MPAC)
- Energy Saving Base (ESB)

Possible tool configurations of PRO-50

HSS cutters up to Φ 45 mm

TCT cutters up to Φ 50 mm
with AMT2-C19/2-3 arbor D.O.C. up to 75 mm

Starting point of drilling up to 50 mm below level of a drill base with 100 mm long cutter

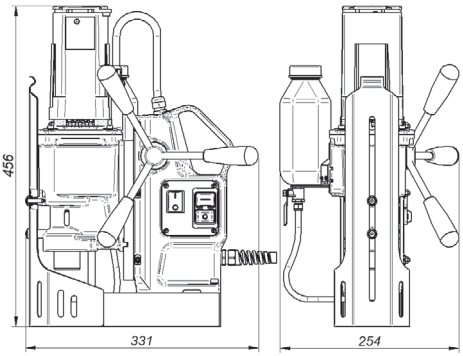
Adapter MT2 x 1/2" 20 UNF, Drilling chuck 1/2" 20 UNF
Twist drills up to Φ 16.0 mm (DIN 338)

Adapter MT2 x 1/2" 20 UNF, Quick change drilling chuck 1/2" 20 UNF
Twist drills up to Φ 16.0 mm (DIN 338)

PRO-50 TECHNICAL SPECIFICATION	
Motor Speeds (under load)	240/480 rpm
Power	1150 W
Weight	15,5 kg (34.17 lbs)
Max milling capacity TCT/HSS	50/45 mm (1.97"/1.77")
Max drilling capacity	23 mm (0.91")
Stroke	160 mm (6.3")
Max depth of cut	50 mm (2") 75 mm (2.95") option
Voltage	1~ 220–240 V, 50–60 Hz 1~ 110–120 V, 50–60 Hz
MFSC (Magnetic Field Shape Control)	yes
MPAC (Magnetic Power Adhesion Control)	yes
ESB (Energy Saving Base)	yes
Magnetic clamping force (surface with the thickness of 25 mm and roughness Ra = 1.25)	1009 kgf (9900 N)
Magnet base dimensions	84 mm × 168 mm × 48 mm (3.3" × 6.6" × 1.9")
Min. work piece thickness	6 mm (1/4")
Spindle	MT2
Tool holder	19 mm (3/4") Weldon
Product Code 220–240 V, 50–60 Hz	WRT-0684-10-20-00-0
Product Code 110–120 V, 50–60 Hz	WRT-0684-10-10-00-0

Drilling capacity up to 23 mm (0.91")

Milling capacity up to 50 mm (2")
Depth of cut up to 75 mm (3") - option



Standard shipping set:

- Drilling machine
- Plastic box
- Handle (3pcs)
- MT2 arbor with 19 mm (3/4") Weldon tool holder
- Safety strap
- Cooling system
- Protective spring for cooling system hose
- MT2 drift
- 2.5 mm hex wrench
- 5 mm hex wrench
- 5 mm hex wrench with a handle
- 8 mm combination wrench
- Operator's manual

Selected additional accessories:

PDS-0110-03-00-01-0	Pipe attachment DMP 251 for pipes with diameters of 80–250 mm (3–10")
PDS-0111-03-00-01-0	Pipe attachment DMP 501 for pipes with diameters of 150–500 mm (6–20")
TRZ-000008	Adapter MT2 x 1/2" 20 UNF
UCW-000059	Drilling chuck 1/2" 20 UNF x 1.5–13 mm
UCW-000061	Drilling chuck 1/2" 20 UNF x 3–16 mm
UCW-0220-00-00-00-4	Arbor AMT2-C19/2-3 for 75 mm (3") depth cutting
UKL-0440-16-00-00-0	Pressure cooling system
PDS-0587-10-00-00-0	Vacuum pad
AGR-0541-10-20-00-0 (230 V CEE)	Vacuum pump
AGR-0541-10-10-00-0 (115 V UK)	Vacuum pump
ZSP-0587-11-00-00-0	Compressed air ejector

Pipe attachment DMP 251

Pipe attachment DMP 501

Adapter MT2 x 1/2"

Drilling chuck

Arbor AMT2-C19/2-3

Pressure cooling system

Vacuum pad

Vacuum pump

Compressed air ejector

All information is subject to change without notice. 26.07

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