



# QS600 (1M) Drill Stand

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Internal & Confidential

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# Introduction

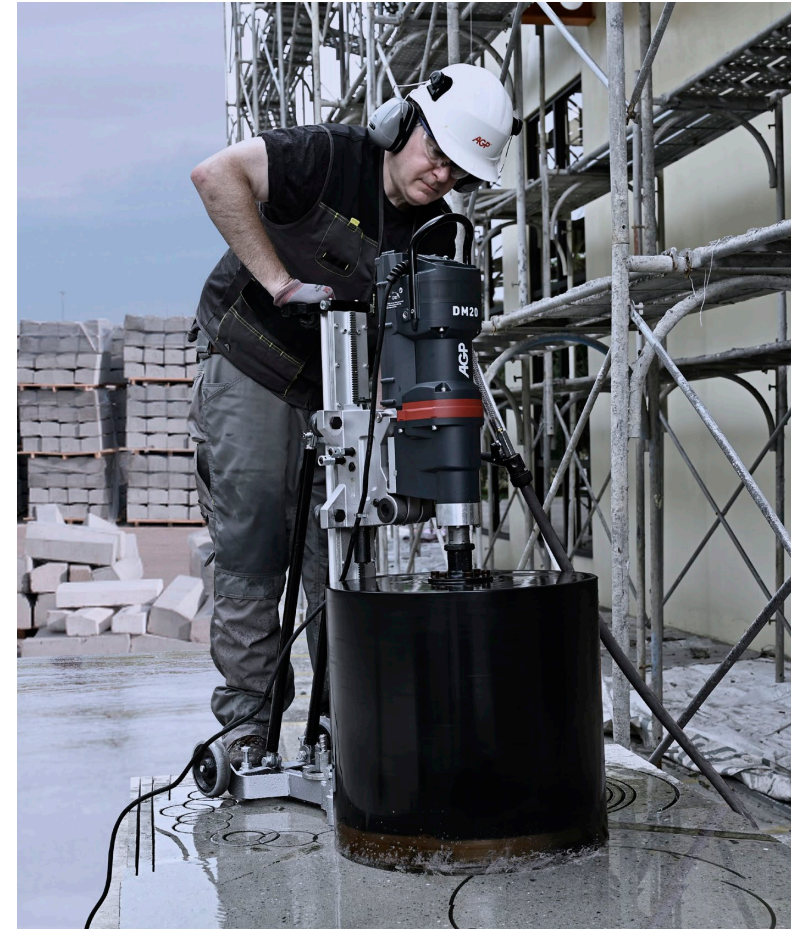
## Target group & Applications

### QS600 Introduction

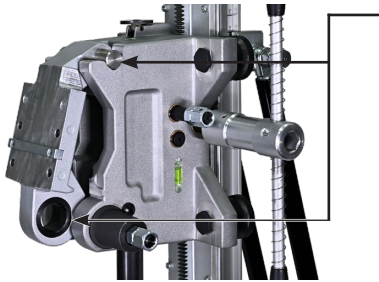
The QS600 is a 600 mm tiltable drill stand with quick-release motor mounting system for use with rig-mounted diamond core drilling motors. It features two crank ratios on both sides. One is the faster 1:1 ratio, and the other is a slower 4:1 ratio, giving the operator significant mechanical advantage for difficult situations. Its carriage is designed so that it can be directly used for 500 mm without the need for additional spacers. The guidance for the carriage is by 4 large rollers with eccentric adjustment for smooth operation with zero backlash. Its steel-reinforced aluminum column allows it to be light in weight, yet with the required rigidity demanded for heavy diamond coring. For special applications, the column can be extended with an optional column extension kit. The heavy-duty box-section steel base gives dependable stability for drilling. It can tilt from 0° down to 45° and there is an angle scale on the column indicating the angle of tilt. The self-centering 2-spoke crank handle also acts as a 19 mm wrench and all the operative fasteners are 19 mm head size. There are many useful features, such as the built-in spirit levels and the easy to use pin-type carriage lock. Altogether, it's a convenient and impressively capable drill stand.

### Target Groups and Applications

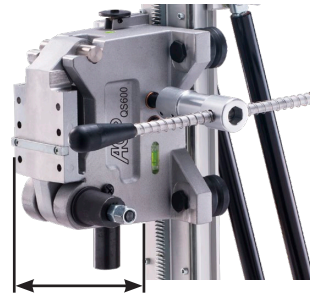
This stand will be useful for professional drilling companies, construction contractors, and anyone who needs a large capacity drill stand. This drill stand allows the operator to get the full potential out of his large capacity drill motor, such as a DM20.



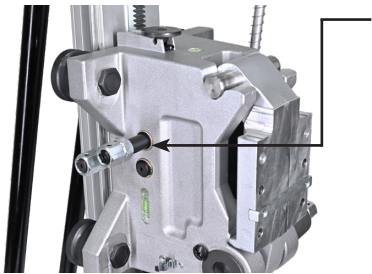
# Sales Arguments



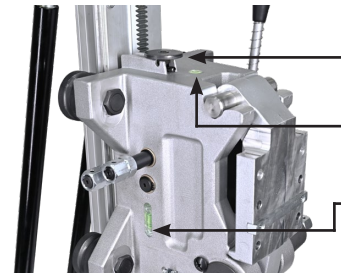
**Quick Release Cradle**  
Motor mount quickly fits into cradle and locks with eccentric cradle lock. Makes it easy to mount and remove the motor from the stand, even when in difficult positions.



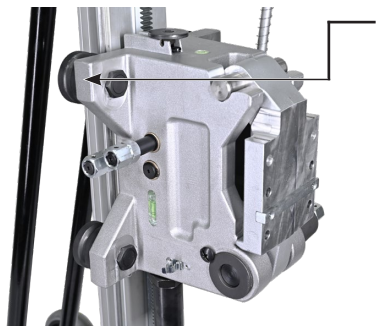
**Large Drilling Capacity**  
Fits 500 mm bits in stock form, without needing to use any extension spacers. With an extension spacer it can achieve 600 mm.



**Built-In Gear Reduction on Both Sides**  
Both 1:1 and 4:1 reduction gearing. Use the 1:1 spindle for fast motion and for small bits. Use the 4:1 reduction spindle for decreased operator effort with large bits or when pulling out cores.



**Convenient Features**  
Pin-lock carriage lock  
Vertical spirit level  
Horizontal spirit levels



**Roller Carriage Guidance**  
V-groove type low-friction and zero backlash roller guidance with eccentric adjustment.



Cable clip to keep the power supply cable out of the way.

# Sales Arguments



## Steel Box Section Base

The heavy duty steel base gives reliable stability with large diameters. The wheels offer convenient transporting on the jobsite.



## Extendable Steel-Reinforced Aluminum Column

Only the wearing surfaces, (the gear rack and roller tracks) are steel, for maximum strength and manageable weight.

Using the optional column extension, the stroke can be increased for special applications.



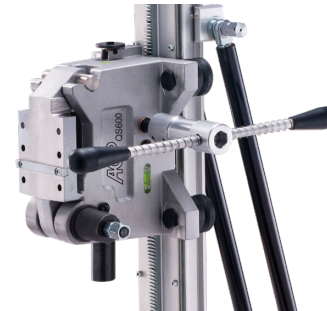
## Wrench Stop Lug

For safely loosening tight core bits



## M19 Control Elements

For the convenience of the operator, all control elements on the stand are M19 head, and the crank handle can also be used as a wrench for these.



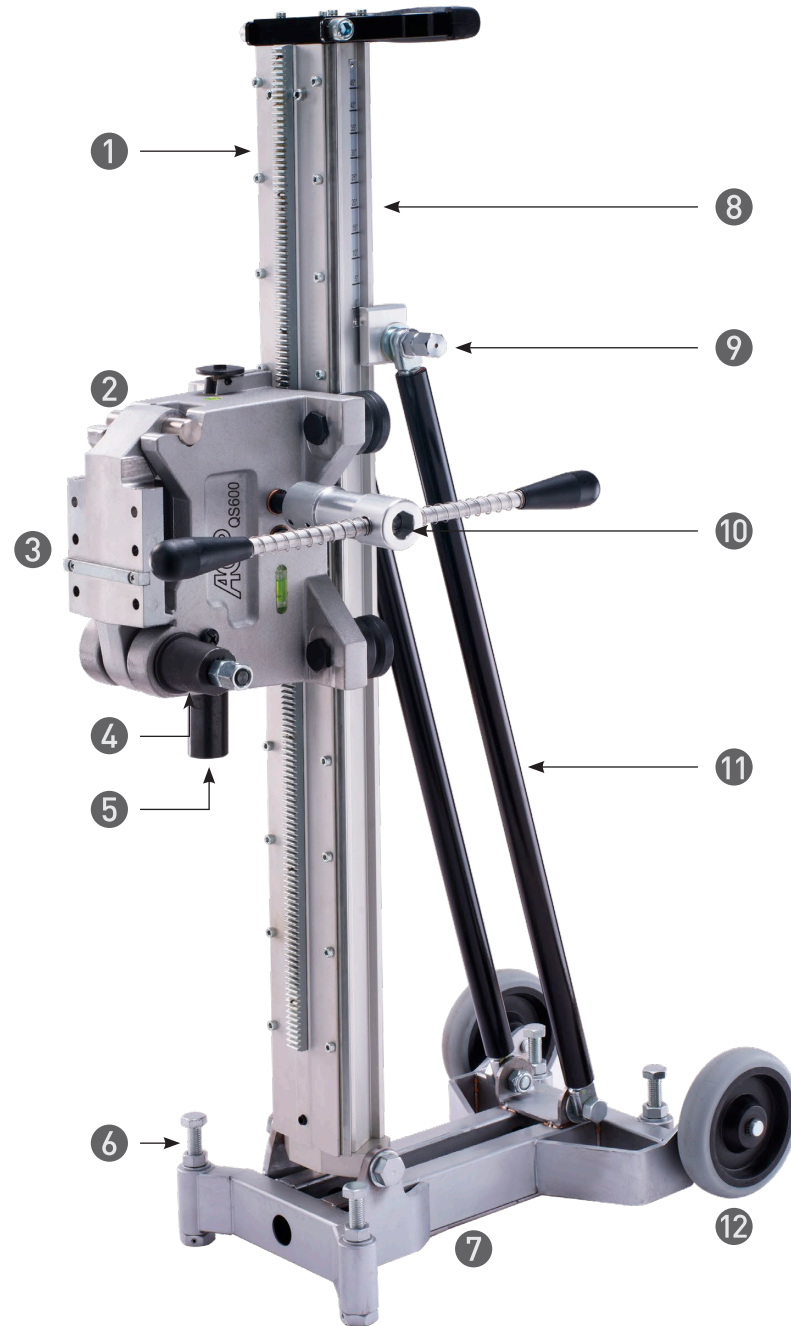
## Self-Centering Crank Handle

The two-spoke design gives more leverage when extended and is more convenient to use as a wrench. The springs allow it to self center.

# Technical Specifications

Model	QS600
Capacity (without spacers)	500 mm (20")
Max. Capacity (with spacer)	600 mm (24")
Effective Stroke	670 mm (26.4")
Dimensions (LxWxH)	582 x 313 x 1032 mm (22.9" x 12.3" x 40.6")
Weight	26.8 kg (59 lb)

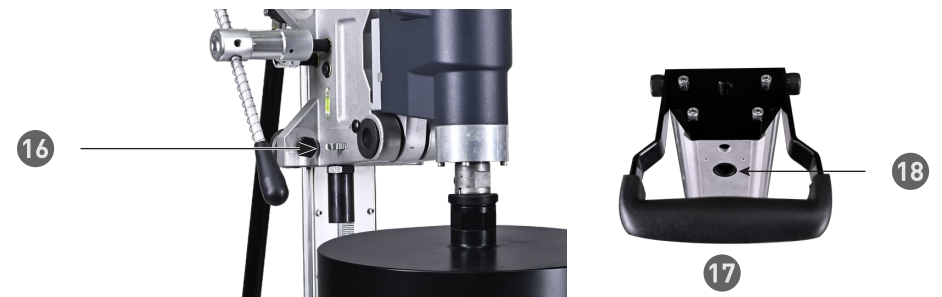
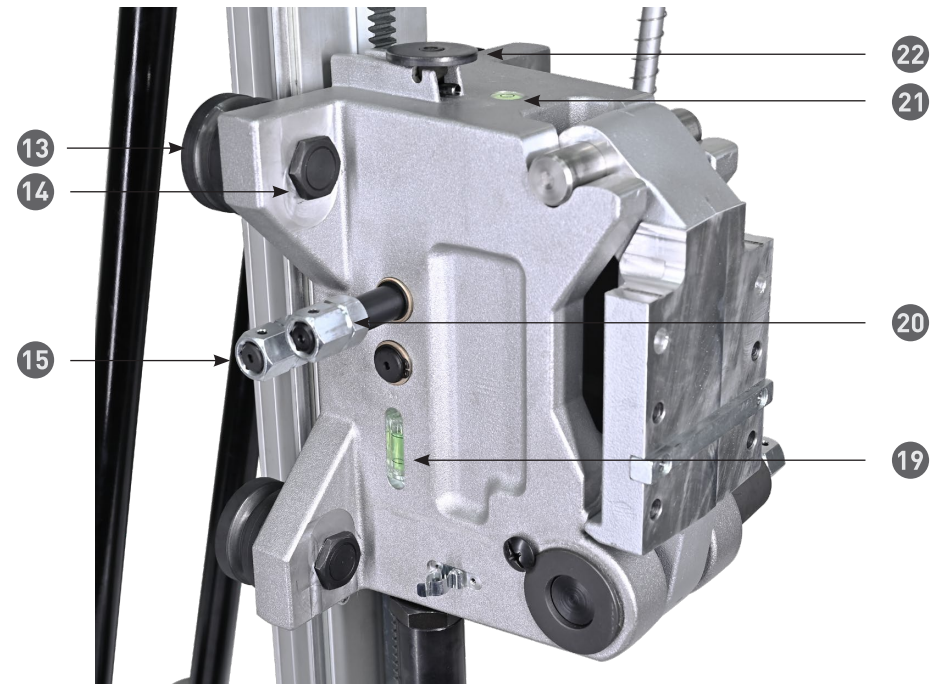
- ① Column
- ② Carriage
- ③ Motor Mount (quick-release)
- ④ Cradle Lock (eccentric)
- ⑤ Wrench Stop Lug
- ⑥ Leveling Screws
- ⑦ Steel Base
- ⑧ Tilt Scale
- ⑨ Tilt Lock
- ⑩ Crank Handle (M19)
- ⑪ Buttress Bars
- ⑫ Wheels



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- 13 Guide Roller
- 14 Guide Roller Adjuster
- 15 1:1 Crank Spindle
- 16 Cable Clip
- 17 Handle
- 18 Lock (for Extension Column)
- 19 Horizontal Spirit Level
- 20 4:1 Reduction Crank Spindle
- 21 Vertical Spirit Level
- 22 Carriage Lock



# Offer Content

## Standard Accessories


















- ① QS600 Drill Stand
- ② Motor Mount
- ③ Crank Handle
- ④ Wheels

## Optional Accessories

- ⑤ 50 mm Extension Spacer Kit  
(allows drilling up to  $\varnothing$  600 mm)
- ⑥ Anchoring Plate
- ⑦ Fixing Kit
- ⑧ Laser Aiming Device



# Comparison Table

Brand					
600 mm Drill Stands					
<b>Model</b>	<b>QS600</b>	DRA 500	DD-HD 30 SBP (steel base)	DS 500	KS 50 S
<b>Ø Capacity w/o spacers</b>	<b>500 mm</b> 	250 mm	300 mm	400 mm	300 mm
<b>Max. Ø Capacity</b>	<b>600 mm</b> 	500 mm	600 mm	500 mm	500 mm
<b>Max. Bit Length</b>	<b>670 mm</b>	869 mm	(not listed)	706 mm	630 mm
<b>Center Indicator</b>	no	yes	yes	no	no
<b>Crank Gearing</b>	<b>1:1 (both sides) &amp; 4:1 (both sides)</b>	1:1 (one side) & 3.5:1 (one side)	1:1 (both sides) & 3:1 (both sides)	1:1 (both sides) no reduction gearing	1:1 (optional reduction gearbox)
<b>Adjustments</b>	<b>all M19 hex head</b>	all M19 hex head	all 1/2" socket square drive	all 1/2" socket square drive	mix of sizes (D shaft & M19)
<b>Crank as Wrench</b>	<b>all elements M19 hex head</b>	no	possible (1/2" square drive elements)	possible (1/2" square drive elements)	no
<b>Crank Type</b>	<b>2 spoke sliding</b>	4 spoke sliding	3 spoke, fixed	3 spoke, fixed	3 spoke, fixed
<b>Base</b>	<b>steel box section</b>	steel box section	steel box section	aluminum	steel box section
<b>Leveling screws</b>	<b>M19 head (4)</b>	M19 head (4)	1/2" square drive (3)	1/2" square drive (4)	tommy bar type (4)
<b>Spirit Levels</b>	<b>yes</b> 	no	yes	vertical only	no
<b>Column Extendable</b>	<b>yes</b>	yes	yes	yes	no
<b>Quick Release Cradle</b>	<b>yes</b> 	yes (Tyrolit ModulDrill)	yes (Hilti quick-connect)	no (dovetail type)	yes
<b>Carriage Guidance</b>	<b>rollers (4)</b>	rollers (4)	rollers (4)	rollers (4)	sliding pads
<b>Carriage Lock</b>	<b>lock pin type</b>	lock pin type	lock pin type	lock pin type	screw type
<b>Cable Clip on Carriage</b>	<b>yes</b> 	no	yes	no	no
<b>Handle</b>	<b>yes</b> 	yes	no	no	yes
<b>Stand Folds Down</b>	<b>45°</b>	45°	yes	yes	45°
<b>Laser</b>	<b>optional (mounts to motor)</b> 	no	optional (mounts to column)	no	no
<b>Wheels</b>	<b>yes</b>	optional	optional	optional	yes
<b>Weight</b>	<b>26.8 kg</b>	26.0 kg	36.0 kg	17.0 kg	21.0 kg
<b>Dimensions</b>	<b>582 x 313 x 1032 mm</b>	454 x 301 x 1182 mm	410 x 272 x 1087 mm	395 x 240 x 1050 mm	H: 1070 mm



# Tool Dimensions (mm)

