



HUD Mining Supplies (Pty) LTD

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Kempe K600 Drill Range Technical Specification Summary

	K600 – BQ – 45kW	K600 – BQ – 55kW	K600-HQ-55kw	K600 – HQ – 75kW
Bit Size				
AQ	780m	900m		1 125m
BQ	600m	800m	600m	900m
NQ	-		400m	690m
HQ	-		250m	460m
Electric Motor	45kW 525v (std) 225 s/m Frame	55kW 525v (std) 250 s/m Frame	55kW 525v (std) 250 s/m Frame	75kW 525v (std) 250 s/m Frame
Hydraulic System				
Main Pump	Sundstrand flow & pressure compensated	Sundstrand flow & pressure compensated	Sundstrand flow & pressure compensated	Bosch pressure compensated
Max Flow	100 lpm	109 lpm	109 lpm	139 lpm
Max Pressure	21 MPa	21 MPa	21 MPa	24 MPa
Application	Rod handling and rotation	Rod handling and rotation	Rod handling and rotation	Rod handling and rotation
Secondary Pump	Sundstrand Piston Pump	Sundstrand Piston Pump	Sundstrand Piston Pump	Bosch Radial Piston Pump
Max Flow	25 lpm	32 lpm	32 lpm	50 lpm
Max Pressure	21 MPa	21 MPa	21 MPa	24 MPa
Application	Drill fine feed – chuck and gripper	Drill fine feed – chuck and gripper	Drill fine feed – chuck and gripper	Drill fine feed – chuck and gripper
Hydraulic Tank Capacity	210 litres	210 litres	210 litres	210 litres
Drill head rotation motor	Sundstrand bent axis variable displacement piston motor – hydr control	Sundstrand bent axis variable displacement piston motor – hydr. control	Sundstrand bent axis variable displacement piston motor – hydr. control	Sundstrand bent axis variable displacement piston motor – hydr. control
Mechanical Transmission	One gear ratio – 3:1	One gear ratio – 3:1	2 Speed Option	2 Speed Option



Kempe k600 Drill Range Technical Specification summary continued:

Continued:	K600 – BQ – 45kW	K600 – BQ – 55kW	K600-HQ-55kw	K600 – HQ – 75kW
RPM and Torque	400 – 1 100rpm infinitely variable. 900Nm at 400rpm	350 – 12500 RPM Infinitely Variable. 1 250Nm at 350rpm 252Nm at 1 600rpm	1st Option: 1 372Nm at 330rpm 404Nm at 1 120rpm 2nd Option: 857 NM at 530rpm 252Nm at 1 790rpm	1st Option: 1 372Nm at 330rpm 404Nm at 1 120rpm 2nd Option: 857 NM at 530rpm 252Nm at 1 790rpm
Feed Frame				
Feed length	1 700mm	1 700mm	1 700mm	1 700mm
Feed Cylinder	2 cylinder and HD leaf frame	2 cylinder and HD leaf frame	2 cylinder and HD leaf frame	2 cylinder and HD leaf frame
Max rated push force	10 900kg	10 900kg	16 500kg	16 500kg
Max rated pull force	10 900kg	10 900kg	16 500kg	16 500kg
Normal Rod handling	11 – 15 m/min (handling time may vary)	11 – 15 m/min (handling time may vary)	11 – 18 m/min (handling time may vary)	11 – 18 m/min (handling time may vary)
Chuck				
Max chuck opening	Hydraulic open – mech close. Auto synchronised with rod holder. 58mm	Hydraulic open – mech close. Auto synchronised with rod holder. 60mm	Hydraulic open – mech close. Auto synchronised with rod holder. 91mm	Hydraulic open – mech close. Auto synchronised with rod holder. 91mm
No. of jaws on the chuck	3	3	8	8
Rod Gripper				
Max rod gripper opening	Hydraulic open and close. Auto synchronised with the chuck. 100mm	Hydraulic open and close. Auto synchronised with the chuck. 100mm	Hydraulic open and close. Auto synchronised with the chuck. 100mm	Hydraulic open and close. Auto synchronised with the chuck. 100mm
No. of jaws on the rod gripper	2	2	2	2
Type of Jaws – Chuck and Gripper	Tungsten carbide inserts	Tungsten carbide inserts	Tungsten carbide inserts	Tungsten carbide inserts

NB: Figures above are based on past experience and may be reasonably expected. Actual drilling capacity will depend on in-hole conditions and drilling conditions. All drill depths are as specified for the full 360° drilling