

HUD Mining Supplies (Pty) LTD

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Kempe K600 Drill Range Technical Specification Summary

	K600 – BQ – 45kW	K600 – BQ – 55kW	K600 – HQ – 75kW
Bit Size			
AQ	780m	900m	1 125m
BQ	600m	800m	900m
NQ	-		690m
HQ	-		460m
Electric Motor	45kW 525v (std) 225 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	Bosch pressure compensated
Max Flow	100 lpm	109 lpm	139 lpm
Max Pressure	21 MPa	24 MPa	24 MPa
Application	Rod handling and rotation	Rod handling and rotation	Rod handling and rotation
Secondary Pump	Sundstrand Piston Pump	Sundstrand Piston Pump	Bosch Radial Piston Pump
Max Flow	25 lpm	36 lpm	50 lpm
Max Pressure	21 MPa	24 MPa	24 MPa
Application	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
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
Mechanical Transmission	One gear ratio – 3:1	One gear ratio – 3:1	2 Speed Option
RPM and Torque	400 – 1 100rpm infinitely variable. 900Nm at 400rpm	350 – 1 600rpm infinitely variable. 1 250Nm at 350rpm. 252Nm at 1 600rpm	1 st Option: 1 372Nm at 330rpm 404Nm at 1 120rpm 2 nd Option: 857 NM at 530rpm 252Nm at 1 790rpm



Continued:	K600 – BQ – 45kW	K600 – BQ – 55kW	K600 – HQ – 75kW
Feed Frame Feed length Feed Cylinder Max rated push force Max rated pull force Normal Rod handling	1 700mm 2 cylinder and HD leaf frame 10 900kg 10 900kg 11 – 15 m/min (handling time may vary)	1 700mm 2 cylinder and HD leaf frame 10 900kg 10 900kg 11 – 15 m/min (handling time may vary)	1 700mm 2 cylinder and HD leaf frame 16 500kg 16 500kg 11 – 18 m/min (handling time may vary)
Chuck Max chuck opening No. of jaws on the chuck Rod Gripper	Hydraulic open – mech close. Auto synchronised with rod holder. 58mm 3 Hydraulic open and close. Auto synchronised with the chuck.	Hydraulic open – mech close. Auto synchronised with rod holder. 60mm 3 Hydraulic open and close. Auto synchronised with the chuck.	Hydraulic open – mech close. Auto synchronised with rod holder. 91mm 8 Hydraulic open and close. Auto synchronised with the chuck.
Rod Gripper Max rod gripper opening No. of jaws on the rod gripper	Hydraulic open and close. Auto synchronised with the chuck. 100mm 2	Hydraulic open and close. Auto synchronised with the chuck. 100mm 2	Hydraulic open and close. Auto synchronised with the chuck. 100mm 2
Type of Jaws – chuck and and gripper	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