

KARR series





KMR-700DS

KAD MING

MACHINE FEATURES

- Convenient for Working Operations
- Easy to Operate
- Drilling Depth Setting
- O Automatic Feed
- High Precision and Great Efficiency

KMR-1100S

MACHINE FEATURES

- Gearbox with automatic lubrication
- Double tube column
- Drilling depth setting
- High precision
- 9 stages of speed
- Safety feeding device

KMR-1250DH

MACHINE FEATURES

- Spindle can be released to slightly rotate during workpiece centering
- Pre-selection system
- Gearbox controlled by hydraulic system
- Quick hydraulic clamping system for head, arm and column
- Automatic feed
- Safety feeding device against overload
- Centralized control for easy operations
- High precision and great efficiency
- Tool ejector



SHR-100004

KMR-1600DH

KAD MING

MACHINE FEATURES

- O Spindle can be released to slightly rotate during workpiece centering
- Pre-selection system

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- Gearbox controlled by hydraulic system
- Quick hydraulic clamping system for head, arm and column
- Automatic feed
- Safety feeding device against overload
- Centralized control for easy operations
- High precision and great efficiency
- Tool ejector

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AO SPINDLE HEAD DESCRIPTION



PRE-SELECTION (for KMR-DH)

If the rotational frequency necessary for the next work is set during drilling process, it can automatically be changed by turning a lever. Radial drilling machines KMR-1600D.H/KMR-1250D.H are full-scale machines that improve working efficiency while being easy to operate.



TOOL EJECTOR (for KMR-DH)

A tool can be easily replaced by simply pushing a button. It remarkably improves working efficiency during tool replacement and maintains high accuracy for a long period of time without damaging the spindle or bearing sections.



RELEASE (for KMR-DH)

In case of working material centering or drill connection/disconnection, a hydraulic pressure can be applied by depressing the button for release. Then, the clutch of the spindle driving gear will be disconnected to easily release the spindle.



HYDRAULIC CLAMPING SYSTEM (for KMR-DH)

This machine is equipped with a hydraulic clamping system, which is faster and more powerful than conventional electric system. Tightening and loosening operations of the column sleeve and spindle head can be performed continuously or separately with hydraulic system. Positioning is greatly facilitated and represents a significant advantage for boring operations.



GEARBOX (for KMR-DH) Besides using SCM as material for gears, KAOMING also grinds them precisely after carburized hardening process to increase the strength of teeth surface. It guarantees high durability and reliability.

or operating the spindle head, a front operation system made with compact handles & push buttons can be used from the standpoint of the operator, facilitating working process while improving efficiency. A pre-selected hydraulic pressure system is set for changing the spindle speed through 12 stages in coordination with the feed rate for a wide range of applications.

In addition, spindle is built with SCM4 material for high torque capabilities. A multiple disc clutch allows for starting and stopping the spindle in order to repeat normal and reverse operations smoothly. Finally, a safety clutch fully protects the machine against overload issue.

Automatic/manual feed operating lever	(
Ammeter	(
Spindle head transverse shifting handle	(
Spindle speed/feed rate rough estimate chart	(
Feed dial plate	(
Spindle feed rate change handle	(
Spindle speed change handle	
Description assumed for all how allo	



KAO MING

Spindle head/column clamp push button

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- Drill ejecting push button
- 2 Clutch handle for spindle feed
- 3 Clutch handle for normal & reverse spindle operations
- Switch for elevating arm and normal & reverse main motor operations
 - Emergency stop button

03 04

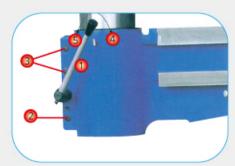


series



SPEED CHANGE (for KMR-700DS) 1. High or low speed lever (2 stages) Pull for high speed Push for low speed

2. Speed change lever (3 stages) Pull for high speed Center for low speed Push for middle speed



ARM CLAMPING & ADJUSTING (for KMR-700DS)

- O Arm clamping lever
- 2 Adjusting bolt
- Adjusting bolt
- ④ Release
- 5 Tighten



CENTRALIZED CONTROL (for KMR-700DS)

- 1. Stop
- 2. Forward
- 3. Spindle switch
- 4. Reverse
- 5. Button for elevating arm
- 6. Button for lowering arm
- 7. Cooling pump
- 8. Pilot lamp
- 9. Start switch
- 10. Stop switch



PRECISION DRILLING FOR DEFINED DEPTH (for KMR-1100S)

A fine adjusting device with a set stop is provided in the horizontal shaft feed mechanism for obtaining high precision drilling operation for a defined depth. This is to ensure uniform depth of drilled holes.



SPINDLE HEAD (for KMR-700DS)

- Head moving hand-wheel
- 2 Scale ring
- O Automatic stop point
- 4 Revolution starting point
- 5 Feed lever
 - Fixing lever



9 STAGES OF SPINDLE SPEED (for KMR-1100S)

Speed can be changed from 49 rpm to 1524 rpm by simply aligning the lever with the designed speed mark.

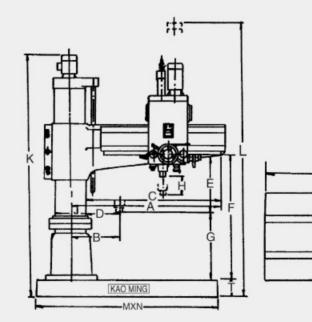
ONE CONTROL LEVER

The control lever guides all functions for maximum output and ease of use.

HIGH RIGIDITY & DURABILITY

High-grade cast iron is used for the main machine parts. Reinforced with ribs, it provides the rigidity, durability and stability required for heavy drilling. (KMR-1600DH/1250DH/1100S)

MACHINE DIMENSIONAL:



KMR-1600DH:	500 x 750 x 400 (19-1
KMR-1250DH:	500 x 750 x 400 (19-1
KMR-1100S:	500 x 750 x 400 (19-1
KMR-700DS:	405 x 530 x 405 (15-1

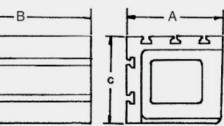
DRILLING CU	(KMR-1600DH)			
	Max. Diameter	Workpiece Material	Spindle Speed	Feedrate
DRILLING	Ø60 mm	S45C	30 rpm	1.12 mm/min
BORE HOLE	Ø200	S45C	360 rpm	0.8 mm/min
TAPPING	M50*P1.5	S45C	30 rpm	



HYDRAUDRAU RADIAL DRUC Bs,

STANDARD ACCESSORIES

- Tools
 1 set
- Drilling oil pump 1 set
 Table 1 set



11/16" x 29-17/32" x 15-3/4") 11/16" x 29-17/32" x 15-3/4") 11/16" x 29-17/32" x 15-3/4") 15/16" x 20-7/8" x 15-15/16")

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HYDRAULIC RADIAL DRILLS SPECIFICATION

MODEL			KMR-1600DH	KMR-1250DH	KMR-1100S	KMR-700DS
Distance Between S Center and Column		Max.(A) Min.(B)	1795 (70 21/32") 565 (22 1/4")	1425 (56 1/8") 535 (21 1/16")	1250 (49 1/4") 505 (19 7/8")	810 (31 7/8") 290 (11 13/32")
Distance Between S Center and Column		Max.(C) Min.(D)	1600 (63") 370 (14 9/16")	1250 (49 7/32") 360 (14 1/8")	1100 (43 5/16") 355 (14")	710 (28") 190 (7 15/32")
Distance from Spin to Base Surface	dle	Max.(F) Min.(G)	1570 (61 13/16") 435 (17 1/8")	1390 (54 23/32") 390 (15 11/32")	1265 (49 13/16") 345 (13 9/16")	1065 (41 15/16") 320 (12 19/32")
Column Diameter		(L)	390 (15 3/8")	350 (13 3/4*)	300 (11 13/16")	200 (7 7/8")
Column Height		(K)	2991 (117 3/4")	2685 (105 23/32")	2108 (83")	1966 (77 13/32")
Max. Height from Spindle Head to Ba	se	(L)	3341 (131 17/32")	3075 (121 1/16")	2503 (98 17/32")	2166 (85 9/32*)
Base Floor Space		(M×N)	2400 × 950 (94 1/2" × 37 3/8")	2035 × 840 (80 1/8" × 33")	1880 × 780 (74" × 30 3/4")	1250 × 650 (49 7/32" × 25 19/32")
Floor Space			2735 × 1250 (107 11/16" × 49 1/4")	2335 × 1140 (91 7/8" × 44 7/8")	2080 × 980 (81 7/8" × 38 9/16")	1730 × 1080 (68 1/8" × 42 1/2")
Base Height		(T)	230 (9 1/16")	188 (7 3/8")	170 (6 11/16")	145 (5 3/4")
Spindle Head Longitud	inal Travel		1230 (48 7/16")	890 (35")	745 (29 3/4")	520 (20 15/32")
Vertical Arm Travel			835 (32 7/8")	700 (27 9/16")	700 (27 9/16")	535 (21 1/16")
Spindle Travel		(H)	300 (11 3/4")	300 (11 3/4")	220 (8 5/8")	210 (8 1/4")
Spindle Diameter		Quill/Spindle	105/80 (4 1/8"/3 1/8")	105/80 (4 1/8" / 3 1/8")	80/70 (3 3/16" / 2 3/4")	68/68 (2 11/16" / 2 11/16
Morse Taper In Spir	ndle	M.T.	NO.5	NO.5	NO.4	NO.4
Base Work Area			1643 × 930 (64 11/16" × 36 5/8")	1393 × 820 (54 27/32" × 32 9/32")	1260 × 760 (49 5/8" × 29 7/8")	893 × 630 (35 5/32" × 24 13/16")
Main Spindle Moto	r	Kw	5.5 (7.5HP)	3.7 (5HP)	2.2 (3HP)	1.5 (2HP)
Arm Elevating Mot	or	kw	1.5 (2HP)	1.5 (2HP)	1.5 (2HP)	0.75 (1HP)
Clamping Device M	lotor	kw	0.75 (1HP)	0.75 (1HP)	12	-
Spindle Feed Range		mm(")/rev	0.06 - 1.12 mm (0.0023 - 0.044")	0.06 - 1.12 mm (0.0023 - 0.044")	0.1 - 0.35 mm (0.003 - 0.0137")	0.07 - 0.13 - 0.22 mm (0.003 - 0.0052 - 0.009
		Steps	12	12	3	3
Spindle Speed Range		(60HZ)r.p.m (50HZ)r.p.m	30 - 1580 25 - 1310	30 - 1580 25 - 1310	49 - 1524 41 - 1270	88 - 1500 75 - 1250
		Steps	12	12	9	6
Ale altin a	Drilling		66 / 56 (2 5/8" / 2 1/4")	60 / 50 (2 3/8" / 2")	55 / 45 (2 1/4" / 1 3/4")	50 / 38 (2" / 1 1/2")
Working Capacity	Boring	Cast Iron/Steel (FC20/S45C)	186 / 126 (7 3/8" / 5")	180 / 120 (7" / 4 3/4")	150 / 100 (6" / 4")	105 / 70 (4 1/8" / 2 3/4"
	Tapping		60 / 50 (2 3/8" / 2")	60 / 50 (2 3/8" / 2")	38 / 25 (1 1/2" / 1")	22 / 16 (7/8" / 5/8")
Net Weight		kg/lbs	4790 (10557)	3460 (7626)	2375 (5235)	1160 (2557)
Gross Weight		kg/lbs	5050 (11130)	3780 (8331)	2675 (5896)	1290 (2843)
Dimensions		in.	$108\times 46\times 117$	$88.5\times39\times100$	$81\times41\times93$	55 imes 31 imes 77





HYDRAULIC RADIAL DRILLS



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KILLS KANR series