

HAFCO-METALMASTER GHD-45A



Industrial 4MT Geared Head Drilling Machine

Ø40mm Drilling Capacity



HAFCO-METALMASTER Industrial 4MT Geared Head Drilling Machine GHD-45A

SPINDLE SPEEDS						
SWITCH POSITION	HANDLE POSITION					
	CE	AE	BE	CD	AD	BD
	42	85	170	340	690	1365
	62	125	250	510	1035	2050

12 Drilling Speeds From 42 2050rpm



Gear Selection Levers

The cutting rating chart for reference					
φ	mm	mm	F	KN	D
n	r/min	s	m/s		
6"	152.4	38.1	0.12	12	8
5"	127.0	31.8	0.16	16	10
4"	101.6	25.4	0.20	20	12
3"	76.2	19.0	0.24	24	14
2"	50.8	12.7	0.28	28	16
	25.4	6.35	0.32	32	18
	12.7	3.175	0.36	36	20
	6.35	1.5875	0.40	40	22
	3.175	0.79375	0.45	45	24
	1.5875	0.396875	0.50	50	26
	0.79375	0.1984375	0.55	55	28
	0.396875	0.09921875	0.60	60	30
	0.1984375	0.049609375	0.65	65	32
	0.09921875	0.0248046875	0.70	70	34
	0.049609375	0.01240234375	0.75	75	36
	0.0248046875	0.006201171875	0.80	80	38
	0.01240234375	0.0031005859375	0.85	85	40
	0.006201171875	0.00155029296875	0.90	90	42
	0.0031005859375	0.000775146484375	0.95	95	44
	0.00155029296875	0.0003875732421875	1.00	100	46
	0.000775146484375	0.00019378662109375	1.05	105	48
	0.0003875732421875	0.000096893310546875	1.10	110	50
	0.00019378662109375	0.0000484466552734375	1.15	115	52
	0.000096893310546875	0.00002422332763671875	1.20	120	54
	0.0000484466552734375	0.000012111663818359375	1.25	125	56
	0.00002422332763671875	0.0000060558319091796875	1.30	130	58
	0.000012111663818359375	0.00000302791595458984375	1.35	135	60
	0.0000060558319091796875	0.000001513957977294921875	1.40	140	62
	0.00000302791595458984375	0.0000007569789886474609375	1.45	145	64
	0.000001513957977294921875	0.00000037848949432373046875	1.50	150	66
	0.0000007569789886474609375	0.000000189244747161865234375	1.55	155	68
	0.00000037848949432373046875	0.0000000946223735809326171875	1.60	160	70
	0.000000189244747161865234375	0.00000004731118679046630859375	1.65	165	72
	0.0000000946223735809326171875	0.000000023655593395233154296875	1.70	170	74
	0.00000004731118679046630859375	0.0000000118277966976165771484375	1.75	175	76
	0.000000023655593395233154296875	0.00000000591389834880828857421875	1.80	180	78
	0.0000000118277966976165771484375	0.000000002956949174404144287109375	1.85	185	80
	0.00000000591389834880828857421875	0.0000000014784745872020721435546875	1.90	190	82
	0.000000002956949174404144287109375	0.00000000073923729360103607177734375	1.95	195	84
	0.0000000014784745872020721435546875	0.000000000369618646800518035888671875	2.00	200	86
	0.00000000073923729360103607177734375	0.0000000001848093234002590179443359375	2.05	205	88
	0.000000000369618646800518035888671875	0.00000000009240466170012950897216796875	2.10	210	90
	0.0000000001848093234002590179443359375	0.000000000046202330850064754486083984375	2.15	215	92
	0.00000000009240466170012950897216796875	0.0000000000231011654250323772430419921875	2.20	220	94
	0.000000000046202330850064754486083984375	0.00000000001155058271251618862152099609375	2.25	225	96
	0.0000000000231011654250323772430419921875	0.000000000005775291356257894310760498046875	2.30	230	98
	0.00000000001155058271251618862152099609375	0.0000000000028876456781289471553802490234375	2.35	235	100
	0.000000000005775291356257894310760498046875	0.00000000000144382283906447357769012451171875	2.40	240	102
	0.0000000000028876456781289471553802490234375	0.000000000000721911419532236788845062255884375	2.45	245	104
	0.00000000000144382283906447357769012451171875	0.0000000000003609557097661183944225311279421875	2.50	250	106
	0.000000000000721911419532236788845062255884375	0.00000000000018047785488305919721126556397109375	2.55	255	108
	0.0000000000003609557097661183944225311279421875	0.0000000000000902389274415295986056327819546875	2.60	260	110
	0.00000000000018047785488305919721126556397109375	0.00000000000004511946372076479930281639097734375	2.65	265	112
	0.0000000000000902389274415295986056327819546875	0.000000000000022559731860382399651406195488671875	2.70	270	114
	0.00000000000004511946372076479930281639097734375	0.000000000000011279865930191199825703097724375	2.75	275	116
	0.000000000000022559731860382399651406195488671875	0.00000000000000563993296509559991285154886171875	2.80	280	118
	0.000000000000011279865930191199825703097724375	0.0000000000000028199664825477999564257744309375	2.85	285	120
	0.00000000000000563993296509559991285154886171875	0.000000000000001409983241273899978212887221671875	2.90	290	122
	0.0000000000000028199664825477999564257744309375	0.000000000000000704991620636949989106443610884375	2.95	295	124
	0.000000000000001409983241273899978212887221671875	0.000000000000000352495810318474994553221804421875	3.00	300	126
	0.000000000000000704991620636949989106443610884375	0.00000000000000017624790515923749727661090221484375	3.05	305	128
	0.000000000000000352495810318474994553221804421875	0.000000000000000088123952579618748638305451011221875	3.10	310	130
	0.00000000000000017624790515923749727661090221484375	0.0000000000000000440619762898093743191527255056109375	3.15	315	132
	0.000000000000000088123952579618748638305451011221875	0.00000000000000002203098814490468715957636275278046875	3.20	320	134
	0.0000000000000000440619762898093743191527255056109375	0.000000000000000011015494072452343579788181376390234375	3.25	325	136
	0.00000000000000002203098814490468715957636275278046875	0.00000000000000000550774703622617178989409056881951171875	3.30	330	138
	0.000000000000000011015494072452343579788181376390234375	0.00000000000000000275387351811308589494704528440955884375	3.35	335	140
	0.00000000000000000550774703622617178989409056881951171875	0.000000000000000001376936759056542947473522642204779421875	3.40	340	142
	0.00000000000000000275387351811308589494704528440955884375	0.0000000000000000006884683795282714737367613211023897109375	3.45	345	144
	0.000000000000000001376936759056542947473522642204779421875	0.000000000000000000344234189764135736868380660551194859375	3.50	350	146
	0.0000000000000000006884683795282714737367613211023897109375	0.0000000000000000001721170948820678684341903302755974296875	3.55	355	148
	0.000000000000000000344234189764135736868380660551194859375	0.000000000000000000086058547441033934217095165137798721484375	3.60	360	150
	0.0000000000000000001721170948820678684341903302755974296875	0.00000000000000000004302927372051696710854758256889886171875	3.65	365	152
	0.000000000000000000086058547441033934217095165137798721484375	0.000000000000000000021514636860258483554273791284444309375	3.70	370	154
	0.00000000000000000004302927372051696710854758256889886171875	0.0000000000000000000107573184301292417771368956422221484375	3.75	375	156
	0.000000000000000000021514636860258483554273791284444309375	0.0000000000000000000107573184301292417771368956422221484375	3.80	380	158
	0.0000000000000000000107573184301292417771368956422221484375	0.00000000000000000000537865921506462088856844781111109375	3.85	385	160
	0.00000000000000000000537865921506462088856844781111109375	0.00000000000000000000268932960753231044428422390555546875	3.90	390	162
	0.00000000000000000000268932960753231044428422390555546875	0.000000000000000000001344664803766155222142111952777734375	3.95	395	164
	0.00000000000000000000134466480376615522214211195277734375	0.0000000000000000000006723324018830776110710559763888671875	4.00	400	166
	0.0000000000000000000006723324018830776110710559763888671875	0.0000000000000000000003361662009415388055355279881944309375	4.05	405	168
	0.0000000000000000000003361662009415388055355279881944309375	0.00000000000000000000016808310047076940276776399409721484375	4.10	410	170
	0.00000000000000000000016808310047076940276776399409721484375	0.000000000000000000000084041550235384701383881997023859375	4.15	415	172
	0.000000000000000000000084041550235384701383881997023859375	0.0000000000000000000000420207751176923506919409985119484375	4.20	420	174
	0.0000000000000000000000420207751176923506919409985119484375	0.0000000000000000000000210103875588461753459704992559721484375	4.25	425	176
	0.0000000000000000000000210103875588461753459704992559721484375	0.0000000000000000000000105051937794230876729852496277859375	4.30	430	178
	0.0000000000000000000000105051937794230876729852496277859375	0.000000000000000000000005252596889711543836492624813897109375	4.35	435	180
	0.000000000000000000000005252596889711543836492624813897109375	0.00000000000000000000000262629844485577191824631240694859375	4.40	440	182
	0.00000000000000000000000262629844485577191824631240694859375	0.0000000000000000000000013131492224278859591231606203474296875	4.45	445	184
	0.0000000000000000000000013131492224278859591231606203474296875	0.00000000000000000000000065657461121394297956158031017371484375	4.50	450	186
	0.00000000000000000000000065657461121394297956158031017371484375	0.000000000000000000000000328287305606971489780790155086859375	4.55	455	188
	0.0000000				

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Features

- Ideal for industrial workshop use
- Geared head drilling machine with 4 morse taper spindle
- Automatic feed range (0.07, 0.15, 0.26, 0.40mm/rev)
- Thread tapping with auto reverse
- 12 drilling speeds from 42-2050rpm
- Digital readout depth gauge mounted on front panel (Includes LR44 battery)
- Chuck guard with micro-switch
- Drill ejector incorporated in machine
- Coolant pump system with flexible hose
- Work light mounted in convenient location
- 40mm drill capacity with 180mm of spindle travel
- Oil sight glass for geared head and feed gearbox
- Modern electrics to European CE standards
- Forward and reverse spindle switch with high and low speeds
- Emergency stop switch and overload protection
- Substantial heavy walled column ensuring greater rigidity
- Adjustable accurate depth setting with auto feed cut out for increased productivity
- T slotted work table and base
- Square work table tilts to $\pm 45^\circ$ and rotates 360°
- Motorised rise & fall work table
- 42rpm low speed for heavy drilling

Includes

- Coolant pump system
- Auto feed
- Tapping function
- Safety chuck guard
- Work light
- Digital depth gauge
- Motorised work table positioning

Specifications

ORDER CODE	D137
MODEL	GHD-45A
Drilling Capacity (mm)	Ø40
Thread Tapping Capacity (Metric)	M27
Spindle Taper (MT)	4
Spindle Travel (mm)	180
Throat Depth (mm)	360
Quill Diameter (mm)	70
Column Diameter (mm)	160
Spindle To Table (mm)	600
Spindle To Base (mm)	1200
Table (Type)	Rectangle
Table Size (mm)	450 x 578
T-Slot Size (mm)	14
Automatic Quill Feed (mm/rev)	0.07, 0.15, 0.26, 0.40

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Work Light (Includes)	Yes
Coolant System (Includes)	Yes
Spindle Speed Steps (No.)	12
Spindle Speed Range (rpm)	42 ~ 2050
Motor Power (kW / hp)	2.8 / 3.75
Voltage / Amperage (V / amp)	415
Full Height (mm)	2330
Nett Weight (kg)	680