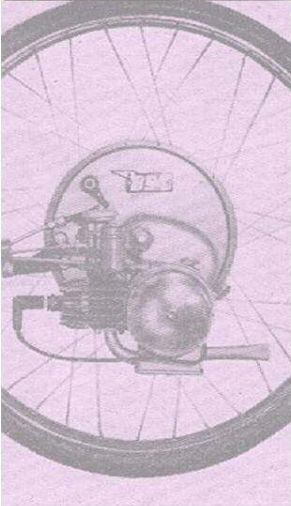
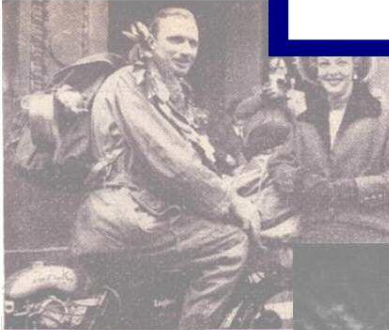


# IceniCAM Information Service



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# SPARE PARTS LIST

HMW

## MK 50 N 3

## MO-PED ENGINE

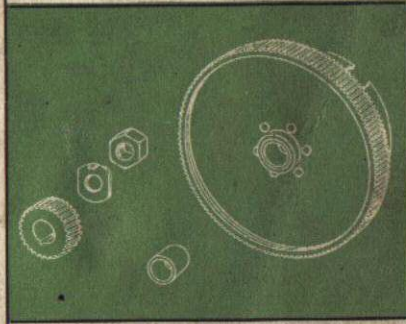
1<sup>st</sup> EDITION  
JANUARY 1960

THREE-SPEED ENGINE-GEAR UNIT



AIR-COOLED

DRIVE BY



GEARS

# HALLEINER MOTORENWERKE

KOTTINGBRUNN, NÖ. / AUSTRIA



# IMPORTANT!

## WHEN ORDERING SPARES INSIST UPON GENUINE HMW SPARES

Only genuine HMW replacement parts, which conform to the same high quality of workmanship as the original components, and are manufactured with great care and precision guarantee maximum efficiency of the engine.

The guarantee becomes void if any parts not made or supplied by THE HALLEINER MOTORENWERKE, are fitted to a HMW engine.

When ordering spares kindly use our order forms and hand in all orders in triplicate.

When ordering, always quote:

- 1) quantity,
- 2) **part number of the component** (most important),
- 3) description,
- 4) full engine number,
- 5) price as per catalogue if feasible.

If in doubt send a pattern.

As a rule we are prepared to supply the customers' requirements in spares. However we do not undertake to supply solely any parts specified by the customer when we consider that other parts are necessary, too to make an efficient repair. In such cases, we reserve the right to supply also those additional parts.

If requested at the time of despatch, we are prepared to give an estimate before proceeding with any repair. Replaced parts or parts sent as pattern, are not returned unless specially asked for at the time of sending them to us.

Defective parts must be sent to us carriage paid and accompanied by an intimation from the sender that he desires to have them repaired or replaced free of charge, under our guarantee, and he must also furnish us at the same time with the number of the engine, and full particulars of purchase. The sender must also attach to each part the green card duly filled in, and not the guarantee card. We do not undertake to refit or bear the cost of replacement or refitting new parts.

When sending parts for replacement, repair, or as pattern, the name and address of the sender should always be securely attached. Full instructions explaining what is required should be sent separately by post. Duplicate instructions should always be enclosed with the parts.

Failing compliance with the above, no notice will be taken of anything that may arrive, but such articles will lie here at the risk of the sender. All orders are executed as per our general conditions of sale and delivery. All goods must be consigned and all correspondence addressed to

**HALLEINER MOTORENWERKE**  
HINTERBERGER, SCHREITL & CO.  
FORMERLY HALLEINER MOTORENWERK AG.  
EXPORT SERVICE DEPARTMENT  
**KOTTINGBRUNN, NÖ. / AUSTRIA**



Illus. No.	Part No.	Qty.	Description	Note
1	M 6×75 DIN 84	2	cylinder bolt for L. H. cover	
2	2×6 DIN 1476	4	semi-circular knurled pin for HMW plate	
3	52.03.155	2	HMW plate	
4	57.03.103	1	L. H. crankcase cover	
5	10×1 DIN 471	1	circlip	
6	57.03.111	1	gear selector spindle	
7	D 6 DIN 71412	1	beaded edge grease point	
8	57.03.112	1	nipple	
9	57.03.114	1	plate	
10	57.03.113	1	locking plate	
—	57.03.113	—	washer as required	
11	M 6×15 DIN 933	2	hexagon bolt	
12	57.03.110	1	gear selector fork	
13	57.03.117	1	spring	
14	57.03.115	1	pin	
15	52.09.105	1	hexagon nut for flywheel	
16	52.09.104	1	washer for flywheel	
17	52.09.11	1	BOSCH flywheel for magneto assembly LM/UP 1/115/17 L 22, anticlockwise rotor STENSHOLM-flywheel for magneto assembly E 2/75-102, anticlockwise rotor	
—	or	1		
18	AM 4×12 DIN 84	2	cylinder bolt	
19	4,3 DIN 433	2	washer	
20	M 6×45 DIN 84	1	cylinder bolt	
21	—	1	BOSCH armature plate for magneto assembly LM/UP 1/115/17 L, anticlockwise rotor STENSHOLM-Armature plate for magneto assembly E 2/75-102, anticlockwise rotor	
—	or	1		
22	M 6×25 DIN 84	2	cylinder bolt	
23	BA 15×32×7	1	seal	
24	M 6×30 DIN 84	1	cylinder bolt	
25	M 6×40 DIN 84	1	cylinder bolt (see 129 too)	
26	52.04.152	1	plug	
27	52.03.134	1	seal for oil level control plug	
28	57.04.108	1	cap	
29	5 DIN 6799	1	locking washer	
30	19×1 DIN 472	1	circlip	
31	EL 6 DIN 625	1	annular roller race journal	
32	57.04.117	1	gear selection piece	
33	57.04.02	1	slot nut with felt washer	
34				
35	57.04.105	1	locking plate	
36	57.04.122	1	F. D. sprocket 12 T	
37	M 6×45 DIN 84	2	cylinder bolt	
38	BA 20×30×7	1	seal with	
—	57.04.124	1	spacer	
39	57.03.119	1	L. H. crankcase	
40	M 6 DIN 934	4	hexagon nut	
41	A 6 DIN 137	4	dished washer	
42	50.01.106	4	stud for cylinder	
43	52.09.103	2	wire outlet	
44	57.04.121	1	clutch return spring	
45	57.04.120	1	clutch spindle	
46	52.04.35	1	pedal release control lever assembly	
47	A 6 DIN 137	1	dished washer	
48	M 6×12 DIN 933	1	hexagon bolt for pedal release lever	
49	50.04.175	1	washer	
50	50.03.106	1	rubber sealing ring for spindle 12 dia.	
51	52.04.41	1	selector spindle for pedal release	
52	52.03.104	1	washer	
53	6302 DIN 625	1	annular roller race journal	

USE ONLY GENUINE HMW SPARES



# HMW MK 50 N 3

## MO-PED ENGINE

### THREE SPEED



When ordering spares always quote the part number and description, not the illustration number, which is only for your assistance



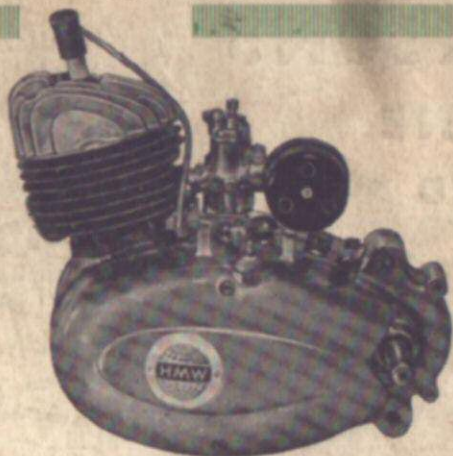
Illus. No.	Part No.	Qty.	Description	Note
54	6003×DIN 625	1	annular roller race journal	
55	52.03.105	2	INA needle bearing HK 12/12	
56	52.04.30	1	filler plug assembly	
57	BA OF 16×24×7	1	seal	
58	44.186	1	sealing ring	
59	52.03.116	1	oil drain plug	
60	52.03.136	1	crankcase gasket 0,8 mm	
61	52.04.196	1	washer for pedal spindle	
62	52.04.188	1	hexagon nut for pedal spindle	
63	52.04.187	1	deflected locking plate	
64	52.04.186	1	snug washer	
65	52.04.288	1	pedal pinion	
66	52.04.192	1	washer for pedal release 24,8/20 dia./3 mm	
67	52.04.169	2	washer for laygear	
68	52.04.180	1	laygear 12 T and 34	
69	54.04.100	1	pedal spindle	
70	52.04.136	1	double dog nut for pedal drive	
71	52.04.123/110/134	1	washer for pedal spindle	
72	52.04.191	1	brake shaft	
73	52.04.153	1	washer for brake shaft 33 dia./25 dia./1,5 mm	
74	6201 DIN 625	1	annular roller race bearing	
75	57.04.103	1	washer	
76	52.04.202	1	threaded pin for clamp spring	
77	52.04.139	1	clamp spring for double dog nut	
78	57.04.112	1	1 <sup>st</sup> gear pinion	
79	57.04.113	1	2 <sup>nd</sup> gear pinion	
80	57.04.154	1	3 <sup>rd</sup> gear pinion	
81	57.04.153	1	mainshaft	
82	6,5 dia. III DIN 5401	9	steel ball for mainshaft	
	deleted			
84	57.04.115	1	dog gear	
85	57.04.104 (a, b, c)	1	washer (0,2 mm, 0,5 mm, 1 mm)	
86	57.04.102	1	gear selector rod	
87	52.04.182	1	pressure rod for clutch	
88	57.04.103	1	washer	
89	57.04.01	1	layshaft assembly	
90	5 III DIN 5401	1	steel ball for pressure rod	
91	52.04.182	1	pressure rod for clutch	
92	52.04.173	1	fork for pedal release	
93	52.04.128	1	selector rail	
94	6204 DIN 625	1	annular roller race bearing	
95	BA 20×35×7	1	seal	
96	52.02.14	1	crankshaft assembly	
97	2×3,7 DIN 6888	1	key for L. H. crankshaft	
—	3×5 DIN 6888	1	key for R. H. crankshaft	
98	50.02.112 0,1 mm		washer as required	} for L. H. crankshaft
—	50.02.109 0,2 mm		washer as required	
—	50.02.110 0,3 mm		washer as required	
99	50.02.03	1	piston assembly	
100	B 10 DIN 73123	2	wire circlip	
101	50.02.107	1	gudgeon pin	
102	50.02.102	2	piston ring	
103	52.01.135	1	gasket for cylinder base	
104	52.11.103	1	exhaust pipe nut	
105	C 24×30 DIN 7603	1	sealing ring	
106	52.01.136	1	cylinder	
107	52.01.104	1	cylinder head gasket	
108	52.01.153	1	cylinder head available only with valve cone ground in	
—	52.01.08	1	cylinder head assembly with compression release valve	
109	58.01.103	1	valve cone for compression release	
110	52.01.130	1	graphite-asbestos washer	

USE ONLY GENUINE HMW SPARES



Illus. No.	Part No.	Qty.	Description	Note
111	52.01.107	1	spring plate for compression release	
112	52.01.108	1	pressure spring for compression release	
113	52.01.128	1	cap for compression release	
114	2×8 DIN 94	1	cotter pin	
115	52.01.148	1	pressure lever for compression release	
116	52.01.126	1	bearing pin for compression release	
117	2×12 DIN 94	1	cotter pin	
118	KEA 7 J 8 Z	1	BOSCH H. T. lead plug	
or	25.834	1	STENSHOLM H. T. lead plug	
119	14 DIN 72.502	1	spark plug BOSCH W 175 T 1	
or	14 DIN 72.502	1	spark plug BOSCH W 225 T 1	
120	44283	1	seal	
121	deleted			
122	A 5 DIN 137	2	dished washer	
123	M 5 DIN 934	2	hexagon nut	
124	AM 5×12 DIN 939	2	stud	
125	52.08.21	1	carburettor 12 mm	
or	52.08.22	1	carburettor 9 mm	
126	57.03.130	1	R. H. crankcase	
127	2×4 DIN 1476	2	knurled pin for engine number plate	} (no spare part)
—	57.03.120	1	engine number plate	
128	57.03.106	1	stop	
—	57.03.118	1	sealing ring for stop	
—	M 6 DIN 934	1	hexagon nut	
—	DIN 6797 J 6,4	1	serrated washer	
129	M 6×40 DIN 84	3	cylinder bolt for R. H. cover (see also 25)	
130	52.03.108	1	circular cover for gear bearing R. H.	
131	AM 6×12 DIN 63	3	countersunk screw	
132	52.04.205	1	washer for bearing	
133	52.04.206	1	washer for clutch drum	
134	52.04.117	1	bearing ring for clutch	
135	deleted			
136	52.02.141	1	engine sprocket	
137	10,5 DIN 432	1	locking plate	
138	M 10×1 DIN 936	1	hexagon nut for crankshaft	
139	52.04.54	1	clutch drum assembly	
140	52.04.115	1	clutch hub	
141	52.04.149	1	locking plate for clutch hub	
142	M 10×1 DIN 936	1	hexagon nut	
143	52.04.02	2	inner clutch plate assembly	
144	52.04.109	1	outer clutch plate	
145	52.04.03	1	front plate assembly	
146	M 6×12 DIN 551	1	thread pin with cone lug	
147	BM 6 DIN 439	1	hexagon nut for front plate	
148	52.04.293	6	clutch spring	
149	52.04.179	6	bush for clutch spring	
150	52.04.175	1	pressure plate for clutch	
151	52.04.114	3	securing plate for pressure plate	
152	52.03.127	1	crankcase cover gasket R. H. 0,8 mm	
153	57.03.132	1	R. H. crankcase cover	
154	52.03.124	1	rubber seal for brakshaft	
155	52.04.142/90	1	serrated washer for brakshaft	
156	52.04.268	1	brake lever for cable	
—	52.04.290	1	brake lever for brake rod	
—	52.04.248	1	} washer as required	
—	52.04.249	1		
—	52.04.250	1		
157	24×1,2 DIN 471	1	circlip	
158	52.03.115	1	seal for plug	
159	52.03.114	1	plug	
160	M 6×45 DIN 84	4	cylinder bolt for R. H. cover	
161	M 6×40 DIN 84	2	cylinder bolt for R. H. cover	
162	52.03.134	1	sealing ring for oil level control plug	
163	M 6×30 DIN 84	1	cylinder bolt for R. H. cover	





## TECHNICAL DATA

**High Efficiency Engine-Gear Unit, Air-Cooled, Single-Cylinder, Two-Stroke, Reverse Scavenging, Three-Speed, Single-Chain Drive, Incorporated Pedal Gear with Starting and Coasting Mechanism (HMW World Patent)**

**Bore:** 38 mm  
**Stroke:** 44 mm  
**Cylinder Capacity:** 49,8 c. c.  
**Compression Ratio:** 6,5 to 1  
**PERFORMANCE:** 2,2 B. H. P. at 5.500 to 6.000 R. P. M. (max.)

**Consumption:** 300 to 350 g/HPH + 1,1 to 1,4 litres at 100 km (204 MPG)

**Ignition Advance:** 3 ± 0,2 mm

**Spark Plug:** BOSCH W 225 or W 240 T 1  
 — for fast driving BOSCH W 175 T 1  
 — for running-in period and continual slow driving

**Spark Gap:** 0,4 to 0,5 mm

**Flywheel Magneto Ignition:**  
 6 Volts/17 Watts providing also lighting current

**Lubrication, Engine:** petrol mixture (25 parts petrol > 75 MOZ to one part engine oil SAE 50)

**Carburettor:** quality float carburettor with intake silencer 12 mm Compression Release into exhaust pipe

**Gearbox:** three-speed box with two-plate cork-lined clutch, running in oil-bath

**Lubrication, Gearbox:** 0,4 litres (0,7 pts.) engine oil SAE 20

**Dry Weight:** 12,70 kg (28 lbs.)

**Exhaust Noise:** 78 phon

**POWER TRANSMISSION FROM ENGINE TO GEARBOX** by serrated spur gears ratio 3,90

**GEAR RATIOS:** serrated gears, running in oil-bath

1st gear pinions 10 to 39  
 ratio  $i = 3,90$

2nd gear pinions 14 to 35,  
 ratio  $i = 2,50$

3rd gear pinions 19 to 30,  
 ratio  $i = 1,58$

**POWER TRANSMISSION PEDAL DRIVE TO REARWHEEL** in gearbox by serrated spur gears running in oil-bath

drive of rearwheel from gearbox by roller chain size  $\frac{1}{2}$  by  $\frac{3}{16}$  in.

55 km/h 12 to 28 T — 14 to 32 T

40 km/h 12 to 32 T

30 km/h 12 to 36 T

**RATIOS AND SPEEDS** (at 2,2 B. H. P. max.) with tyres 23 by 2,25 in.

**Lever in position I** (starting and additional pedalling) starting ratio 24,9

**Lever in position II** (when pedalling the vehicle like a bicycle): 60 R. P. M. at pedal drive with 1st gear engaged correspond to 3675 R. P. M. at engine crankshaft at maximum torque.

78 R. P. M. at pedal drive with 2nd gear engaged correspond to 3100 R. P. M. at engine crankshaft

**Reduction gear:** in all three speeds 1 to 1,7

**SPECIFICATIONS ARE SUBJECT TO ALTERATION WITHOUT NOTICE**