



# Porównanie otwornic Morse do Morse MHS

Nie zawierają wiertła prowadzącego

## Tabela Porównawcza

		NOWE OTWORNICE MORSE (nie zawierają wiertła prowadzącego)				AV		MK		AD	
		NOWY MODEL	NOWY NR	NOWY MODEL	NOWY NR	STARY MODEL	STARY NR	STARY MODEL	STARY NR	STARY MODEL	STARY NR
Średnica	mm	KARTON		BLISTER							
9/16"	14	MHS09	177092	MHS09C	178099	AV09	170093	MK09	168304		
5/8"	16	MHS10	177108	MHS10C	178105	AV10	170109	MK10	168311		
16MM	16	MHS105	177511	MHS105C	178518	AV105	175104	MK105	168328		
11/16"	17	MHS11	177115	MHS11C	178112	AV11	170116	MK11	168335		
3/4"	19	MHS12	177122	MHS12C	178129	AV12	170123	MK12	168342	AD12	150002
20MM	20	MHS125	177559	MHS125C	178556	AV125	175128	MK125	168359		
13/16"	21	MHS13	177139	MHS13C	178136	AV13	170130	MK13	168366		
7/8"	22	MHS14	177146	MHS14C	178143	AV14	170147	MK14	168373	AD14	150019
15/16"	24	MHS15	177153	MHS15C	178150	AV15	170154	MK15	168380		
25MM	25	MHS155	177573	MHS155C	178570	AV155	175159	MK155	168397		
1"	25	MHS16	177160	MHS16C	178167	AV16	170161	MK16	168403	AD16	150026
1-1/16"	27	MHS17	177177	MHS17C	178174	AV17	170178	MK17	168410		
1-1/8"	29	MHS18	177184	MHS18C	178181	AV18	170185	MK18	168427	AD18	150033
30MM	30	MHS185	177597	MHS185C	178594	AV185	175180	MK185	168434		
1-3/16"	30	MHS19	177191	MHS19C	178198	AV19	170192	MK19	168441	AD19	150248
1-1/4"	32	MHS20	177207	MHS20C	178204	AV20	170208	MK20	168458	AD20	150040
32MM	32	MHS205	177658	MHS205C	178655	AV205	175203	MK205	168472		
1-5/16"	33	MHS21	177214	MHS21C	178211	AV21	170215	MK21	168489		
1-3/8"	35	MHS22	177221	MHS22C	178228	AV22	170222	MK22	168496	AD22	150057
35MM	35	MHS225	177696	MHS225C	178693	AV225	175227	MK225	168519		
1-7/16"	37	MHS23	177238	MHS23C	178235	AV23	170239	MK23	168526		
1-1/2"	38	MHS24	177245	MHS24C	178242	AV24	170246	MK24	168533	AD24	150064
1-9/16"	40	MHS25	177252	MHS25C	178259	AV25	170253	MK25	168557		
40MM	40	MHS255	177733	MHS255C	178730	AV255	175258	MK255	168564		
1-5/8"	41	MHS26	177269	MHS26C	178266	AV26	170260	MK26	168571		
1-11/16"	43	MHS27	177276	MHS27C	178273	AV27	170277	MK27	168588		
1-3/4"	44	MHS28	177283	MHS28C	178280	AV28	170284	MK28	168595	AD28	150071
45MM	45	MHS285	177740	MHS285C	178747	AV285	175289	MK285	168601		
1-13/16"	46	MHS29	177290	MHS29C	178297	AV29	170291	MK29	168618		
1-7/8"	48	MHS30	177306	MHS30C	178303	AV30	170307	MK30	168625	AD30	150088
50MM	50	MHS315	177313	MHS315C	178310	AV315	175319	MK315	168632		
2"	51	MHS32	177320	MHS32C	178327	AV32	170321	MK32	168649	AD32	150095
2-1/16"	52	MHS33	177337	MHS33C	178334	AV33	170338	MK33	168656		

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# Porównanie otwornic Morse do Morse MHS Nie zawierają wiertła prowadzącego

## Tabela Porównawcza

		NOWE OTWORNICE MORSE (nie zawierają wiertła prowadzącego)				AV		MK		AD	
		NOWY MODEL	NOWY NR	NOWY MODEL	NOWY NR	STARY MODEL	STARY NR	STARY MODEL	STARY NR	STARY MODEL	STARY NR
Średnica	mm	KARTON		BLISTER							
2-1/8"	54	MHS34	177344	MHS34C	178341	AV34	170345	MK34	168663	AD34	150101
55MM	55	MHS345	177351	MHS345C	178358	AV345	175340	MK345	168670		
2-1/4"	57	MHS36	177368	MHS36C	178365	AV36	170369	MK36	168687	AD36	150118
2-5/16"	59	MHS37	177375	MHS37C	178372	AV37	170376	MK37	168694		
2-3/8"	60	MHS38	177382	MHS38C	178389	AV38	170383	MK38	168700	AD38	150170
62MM	62	MHS385	177399	MHS385C	178396	AV385	175388	MK385	168717		
2-1/2"	64	MHS40	177405	MHS40C	178402	AV40	170406	MK40	168724	AD40	150125
2-9/16"	65	MHS41	177412	MHS41C	178419	AV41	170413	MK41	168731		
2-5/8"	67	MHS42	177429	MHS42C	178426	AV42	170420	MK42	168748		
68MM	68	MHS425	177436	MHS425C	178433	AV425	175425	MK425	168755		
2-3/4"	70	MHS44	177443	MHS44C	178440	AV44	170444	MK44	168779	AD44	150354
2-7/8"	73	MHS46	177467	MHS46C	178464	AV46	170468	MK46	168786		
75MM	75	MHS475	177474	MHS475C	178471	AV475	175470	MK475	168793		
3"	76	MHS48	177481	MHS48C	178488	AV48	170482	MK48	168809	AD48	150132
3-1/8"	79	MHS50	177504	MHS50C	178501	AV50	170505	MK50	168816		
3-1/4"	83	MHS52	177528	MHS52C	178525	AV52	170529	MK52	168823	AD52	150385
3-3/8"	86	MHS54	177542	MHS54C	178549	AV54	170543	MK54	168830	AD54	150149
3-1/2"	89	MHS56	177566	MHS56C	178563	AV56	170567	MK56	168847	AD56	150187
3-5/8"	92	MHS58	177580	MHS58C	178587	AV58	170581	MK58	168854		
3-3/4"	95	MHS60	177603	MHS60C	178600	AV60	170604	MK60	168861	AD60	150408
3-7/8"	98	MHS62	177627	MHS62C	178624	AV62	170628	MK62	168878	AD62	150194
100MM	100	MHS63	177634	MHS63C	178631	AV63	170635	MK63	168885		
4"	102	MHS64	177641	MHS64C	178648	AV64	170642	MK64	168892	AD64	150200
4-1/8"	105	MHS66	177665	-	-	AV66	170666	MK66	168908		
4-1/4"	108	MHS68	177689	-	-	AV68	170680	MK68	168915	AD68	150156
4-3/8"	111	MHS70	177702	-	-	AV70	170703	MK70	168922		
4-1/2"	114	MHS72	177726	-	-	AV72	170727	MK72	168939	AD72	150439
4-3/4"	121	MHS76	177764	-	-	AV76	170765	MK76	168946	AD76	150446
5"	127	MHS80	177801	-	-	AV80	170802	MK80	168953	AD80	150453
5-1/4"	133	MHS84	177849	-	-	AV84	170840	MK84	168960		
5-1/2"	140	MHS88	177887	-	-	AV88	170888	MK88	168977	AD88	150460
5-3/4"	146	MHS92	177924	-	-	AV92	170925	MK92	168984		
6"	152	MHS96	177962	-	-	AV96	170963	MK96	168991	AD96	150484
6-3/8"	162	MHS104	177498	-	-	AV104	170314				
6-5/8"	168	MHS106	177535	-	-					AD106	150163



## Porównanie otwornic Morse do Morse MHSA

Zawierają wiertło prowadzące

## Tabela Porównawcza

		NOWE OTWORNICE MORSE (zawierają wiertło prowadzące)		TA		TAD	
		NOWY MODEL	NOWY NR	STARY MODEL	STARY NR	STARY MODEL	STARY NR
Średnica	mm	BLISTER					
9/16"	14	MHSA09C	116091	TA09	110099		
5/8"	16	MHSA10C	116107	TA10	110105		
16MM	16	MHSA105C	116671	TA105	115100		
11/16"	17	MHSA11C	116114	TA11	110112		
3/4"	19	MHSA12C	116121	TA12	110129	TAD12	123006
20MM	20	MHSA125C	116688	TA125	115124		
13/16"	21	MHSA13C	116138	TA13	110136	TAD13	123013
7/8"	22	MHSA14C	116145	TA14	110143	TAD14	123020
15/16"	24	MHSA15C	116152	TA15	110150	TAD15	123037
25MM	25	MHSA155C	116695	TA155	115155		
1"	25	MHSA16C	116169	TA16	110167	TAD16	123044
1-1/16"	27	MHSA17C	116176	TA17	110174	TAD17	123051
1-1/8"	29	MHSA18C	116183	TA18	110181	TAD18	123068
30MM	30	MHSA185C	116701	TA185	115186		
1-3/16"	30	MHSA19C	116190	TA19	110198	TAD19	123075
1-1/4"	32	MHSA20C	116206	TA20	110204	TAD20	123082
32MM	32	MHSA205C	116725	TA205	115209		
1-5/16"	33	MHSA21C	116213	TA21	110211	TAD21	123099
1-3/8"	35	MHSA22C	116220	TA22	110228	TAD22	123105
35MM	35	MHSA225C	116749	TA225	115223		
1-7/16"	37	MHSA23C	116237	TA23	110235	TAD23	123112
1-1/2"	38	MHSA24C	116244	TA24	110242	TAD24	123129
1-9/16"	40	MHSA25C	116251	TA25	110259	TAD25	123136
40MM	40	MHSA255C	116763	TA255	115254		
1-5/8"	41	MHSA26C	116268	TA26	110266	TAD26	123143
1-11/16"	43	MHSA27C	116275	TA27	110273	TAD27	123150
1-3/4"	44	MHSA28C	116282	TA28	110280	TAD28	123167
45MM	45	MHSA285C	116770	TA285	115285		
1-13/16"	46	MHSA29C	116299	TA29	110297	TAD29	123174
1-7/8"	48	MHSA30C	116305	TA30	110303	TAD30	123181
50MM	50	MHSA315C	116787	TA315	115315		
2"	51	MHSA32C	116329	TA32	110327	TAD32	123198

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**Porównanie otwornic Morse do Morse MHSA Zawierają wiertło prowadzące Tabela Porównawcza**

		NOWE OTWORNICE MORSE (zawierają wiertło prowadzące)		TA		TAD	
		NOWY MODEL	NOWY NR	STARY MODEL	STARY NR	STARY MODEL	STARY NR
Średnica	mm	BLISTER					
2-1/16"	52	MHSA33C	116336	TA33	110334	TAD33	123204
2-1/8"	54	MHSA34C	116343	TA34	110341	TAD34	123211
55MM	55	MHSA345C	116794	TA345	115346		
2-1/4"	57	MHSA36C	116367	TA36	110365	TAD36	123228
2-5/16"	59	MHSA37C	116374	TA37	110372	TAD37	123235
2-3/8"	60	MHSA38C	116381	TA38	110389	TAD38	123242
2-1/2"	64	MHSA40C	116404	TA40	110402	TAD40	123259
2-9/16"	65	MHSA41C	116411	TA41	110419	TAD41	123266
2-5/8"	67	MHSA42C	116428	TA42	110426	TAD42	123273
68MM	68	MHSA425C	116817	TA425	115421		
2-3/4"	70	MHSA44C	116442	TA44	110440	TAD44	123280
2-7/8"	73	MHSA46C	116466	TA46	110464	TAD46	123297
75MM	75	MHSA475C	116831	TA475	115476		
3"	76	MHSA48C	116480	TA48	110488	TAD48	123303
3-1/8"	79	MHSA50C	116503	TA50	110501	TAD50	123310
3-1/4"	83	MHSA52C	116527	TA52	110525	TAD52	123327
3-3/8"	86	MHSA54C	116541	TA54	110549	TAD54	123334
3-1/2"	89	MHSA56C	116565	TA56	110563	TAD56	123341
3-5/8"	92	MHSA58C	116589	TA58	110587	TAD58	123358
3-3/4"	95	MHSA60C	116602	TA60	110600	TAD60	123365
3-7/8"	98	MHSA62C	116626	TA62	110624	TAD62	123372
100MM	100	MHSA63C	116633	TA63	110631		
4"	102	MHSA64C	116640	TA64	110648	TAD64	123389



## Porównanie otwornic konkurencji do Morse MHS

Nie zawierają wiertła prowadzącego

### Tabela Porównawcza

Średnica	mm	NOWE OTWORNICE MORSE (nie zawierają wiertła prowadzącego)		Milwaukee	Lenox	Bosch	Starrett
		NOWY MODEL	NOWY NR				
9/16"	14	MHS09	177092	49-56-0002	300099L	HB062	FCH0096-G
5/8"	16	MHS10	177108	49-56-0012	3001010L	HB063	FCH0058-G
16MM	16	MHS105	177511	49-56-0017			
11/16"	17	MHS11	177115	49-56-0023	3001111L	HB069	FCH1016-G
3/4"	19	MHS12	177122		3001212L	HB075	FCH0034-G
20MM	20	MHS125	177559				FCH020M-G
13/16"	21	MHS13	177139	49-56-0027	3001313L	HB081	FCH1036-G
7/8"	22	MHS14	177146	49-56-0032	3001414L	HB087	FCH0078-G
15/16"	24	MHS15	177153	49-56-0037	3001515L	HB094	FCH1056-G
25MM	25	MHS155	177573				FCH025M-G
1"	25	MHS16	177160	49-56-0043	3001616L	HB100	FCH0100-G
1-1/16"	27	MHS17	177177	49-56-0047	3001717L	HB106	FCH0116-G
1-1/8"	29	MHS18	177184	49-56-0052	3001818L	HB112	FCH0118-G
30MM	30	MHS185	177597				FCH030M-G
1-3/16"	30	MHS19	177191	49-56-0057	3001919L	HB119	FCH0136-G
1-1/4"	32	MHS20	177207	49-56-0062	3002020L	HB125	FCH0114-G
32MM	32	MHS205	177658				
1-5/16"	33	MHS21	177214	49-56-0067	3002121L	HB131	FCH0156-G
1-3/8"	35	MHS22	177221	49-56-0072	3002222L	HB136	FCH0138-G
35MM	35	MHS225	177696				FCH035M-G
1-7/16"	37	MHS23	177238	49-56-0077	3002323L	HB144	FCH0176-G
1-1/2"	38	MHS24	177245	49-56-0082	3002424L	HB150	FCH0112-G
1-9/16"	40	MHS25	177252	49-56-0087	3002525L	HB156	FCH0196-G
40MM	40	MHS255	177733				FCH040M-G
1-5/8"	41	MHS26	177269	49-56-0092	3002626L	HB163	FCH0158-G
1-11/16"	43	MHS27	177276	49-56-0097	3002727L	HB169	FCH1116-G
1-3/4"	44	MHS28	177283	49-56-0102	3002828L	HB175	FCH0134-G
45MM	45	MHS285	177740				FCH045M-G
1-13/16"	46	MHS29	177290	49-56-0107	3002929L	HB181	FCH1136-G
1-7/8"	48	MHS30	177306	49-56-0112	3003030L	HB187	FCH0178-G
50MM	50	MHS315	177313				FCH050M-G
2"	51	MHS32	177320	49-56-0117	3003232L	HB200	FCH0200-G
2-1/16"	52	MHS33	177337	49-56-0122	3003333L	HB206	FCH0216-G
2-1/8"	54	MHS34	177344	49-56-0127	3003434L	HB212	FCH0218-G
55MM	55	MHS345	177351				
2-1/4"	57	MHS36	177368	49-56-0132	3003636L	HB225	FCH0214-G
2-5/16"	59	MHS37	177375	49-56-0137		HB231	FCH0256-G
2-3/8"	60	MHS38	177382	49-56-0142	3003838L	HB236	FCH0238-G
62MM	62	MHS385	177399				
2-1/2"	64	MHS40	177405	49-56-0147	3004040L	HB250	FCH0212-G

➔ CIĄG DALSZY

# Porównanie otwornic konkurencji do Morse MHS Nie zawierają wiertła prowadzącego Tabela Porównawcza

		NOWE OTWORNICE MORSE (nie zawierają wiertła prowadzącego)		Milwaukee	Lenox	Bosch	Starrett
Średnica	mm	NOWY MODEL	NOWY NR				
2-9/16"	65	MHS41	177412	49-56-0153	3004141L	HB256	FCH0296-G
2-5/8"	67	MHS42	177429	49-56-0158	3004242L	HB263	FCH0258-G
68MM	68	MHS425	177436				FCH068M-G
2-3/4"	70	MHS44	177443	49-56-0163	3004444L	HB275	FCH0234-G
2-7/8"	73	MHS46	177467	49-56-0167	3004646L	HB287	FCH0278-G
75MM	75	MHS475	177474				FCH075M-G
3"	76	MHS48	177481	49-56-0173	3004848L	HB300	FCH0300-G
3-1/8"	79	MHS50	177504	49-56-0177	3005050L	HB312	FCH0318-G
3-1/4"	83	MHS52	177528	49-56-0183	3005252L	HB325	FCH0314-G
3-3/8"	86	MHS54	177542	49-56-0187	3005454L	HB338	FCH0338-G
3-1/2"	89	MHS56	177566	49-56-0193	3005656L	HB350	FCH0312-G
3-5/8"	92	MHS58	177580	49-56-0197	3005858L	HB363	FCH0358-G
3-3/4"	95	MHS60	177603	49-56-0203	3006060L	HB375	FCH0334-G
3-7/8"	98	MHS62	177627	49-56-0207	3006262L	HB375	FCH0378-G
100MM	100	MHS63	177634				FCH100M-G
4"	102	MHS64	177641	49-56-0213	3006464L	HB400	FCH0400-G
4-1/8"	105	MHS66	177665	49-56-0217	3006666L	HB412	FCH0418-G
4-1/4"	108	MHS68	177689	49-56-0223	3006868L	HB425	FCH0414-G
4-3/8"	111	MHS70	177702	49-56-0227	3007070L	HB436	FCH0438-G
4-1/2"	114	MHS72	177726	49-56-0233	3007272L	HB450	FCH0412-G
4-3/4"	121	MHS76	177764	49-56-0237	3007676L	HB475	FCH0434-G
5"	127	MHS80	177801	49-56-0243	3008080L	HB500	FCH0500-G
5-1/4"	133	MHS84	177849	49-56-0244			FCH0514-G
5-1/2"	140	MHS88	177887	49-56-0247	3008888L	HB550	FCH0512-G
5-3/4"	146	MHS92	177924	49-56-0249		HB575	
6"	152	MHS96	177962	49-56-0253	3009696L	HB600	FCH0600-G
6-3/8"	162	MHS104	177498				
6-5/8"	168	MHS106	177535	49-56-0097	3002727L	HB169	FCH168M-G



## Porównanie otwornic konkurencji do Morse MSA

Zawierają wiertło prowadzące

## Tabela Porównawcza

Średnica	mm	NOWE OTWORNICE MORSE (zawierają wiertło prowadzące)		Lenox
		NOWY MODEL	NOWY NR	
9/16"	14	MHSA09C	116091	1772423
5/8"	16	MHSA10C	116107	1772424
16MM	16	MHSA105C	116671	
11/16"	17	MHSA11C	116114	1772425
3/4"	19	MHSA12C	116121	1772426
20MM	20	MHSA125C	116688	
13/16"	21	MHSA13C	116138	1772428
7/8"	22	MHSA14C	116145	1772429
15/16"	24	MHSA15C	116152	1772430
25MM	25	MHSA155C	116695	
1"	25	MHSA16C	116169	1772481
1-1/16"	27	MHSA17C	116176	1772482
1-1/8"	29	MHSA18C	116183	1772483
30MM	30	MHSA185C	116701	
1-3/16"	30	MHSA19C	116190	1772474
1-1/4"	32	MHSA20C	116206	1772491
32MM	32	MHSA205C	116725	
1-5/16"	33	MHSA21C	116213	1772492
1-3/8"	35	MHSA22C	116220	1772727
35MM	35	MHSA225C	116749	
1-7/16"	37	MHSA23C	116237	1772728
1-1/2"	38	MHSA24C	116244	1772729
1-9/16"	40	MHSA25C	116251	1772730
40MM	40	MHSA255C	116763	
1-5/8"	41	MHSA26C	116268	1772931
1-11/16"	43	MHSA27C	116275	1772932
1-3/4"	44	MHSA28C	116282	1772933
45MM	45	MHSA285C	116770	
1-13/16"	46	MHSA29C	116299	1772935
1-7/8"	48	MHSA30C	116305	1772778
50MM	50	MHSA315C	116787	
2"	51	MHSA32C	116329	1772779
2-1/16"	52	MHSA33C	116336	1772780
2-1/8"	54	MHSA34C	116343	1772951
55MM	55	MHSA345C	116794	
2-1/4"	57	MHSA36C	116367	1772952
2-5/16"	59	MHSA37C	116374	
2-3/8"	60	MHSA38C	116381	1772953
2-1/2"	64	MHSA40C	116404	1772954
2-9/16"	65	MHSA41C	116411	1772955

➔ CIAĞ DALSZY

## Porównanie otwornic konkurencji do Morse MHSA Zawierają wiertło prowadzące

Średnica	mm	NOWE OTWORNICE MORSE (zawierają wiertło prowadzące)		Lenox
		NOWY MODEL	NOWY NR	
2-5/8"	67	MHSA42C	116428	1772956
68MM	68	MHSA425C	116817	
2-3/4"	70	MHSA44C	116442	1772961
2-7/8"	73	MHSA46C	116466	1772962
75MM	75	MHSA475C	116831	
3"	76	MHSA48C	116480	1772963
3-1/8"	79	MHSA50C	116503	1772964
3-1/4"	83	MHSA52C	116527	1772966
3-3/8"	86	MHSA54C	116541	1772945
3-1/2"	89	MHSA56C	116565	1772946
3-5/8"	92	MHSA58C	116589	1772949
3-3/4"	95	MHSA60C	116602	1772950
3-7/8"	98	MHSA62C	116626	1773001
100MM	100	MHSA63C	116633	
4"	102	MHSA64C	116640	1773002

## Tabela Porównawcza

### NOWE Oznaczenia pilotów prowadzących

NOWE OZNACZENIE	NR	STARE OZNACZENIE	Trzpień/Gwint	Zastosowanie w otwornicach	Wiertło prowadzące	Szybko-wymienny?
MA24	139007	M24K, M24	1-1/4" / 1/2-20	9/16" – 1-3/16"	3-3/32"	—
MA34	139014	M34, M44, M44K	3/8" / 1/2-20	9/16" – 1-3/16"	3-3/32"	—
MA35PS	139021	M35PS	3/8" / 5/8-18	1-1/4" – 6"	3-3/32"	✓
MA45PS	139038	M44K, M45, M45P, M46PS, M55P	7/16" / 5/8-18	1-1/4" – 6"	3-3/32"	✓
MA35	139045	<b>NOWOŚĆ</b>	3/8" / 5/8-18	1-1/4" – 6"	3-3/32"	—



MA24

MA34

MA35

MA35PS

MA45PS