

Handwheels, Cranks & Grips

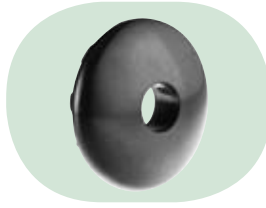
MGA - MHA



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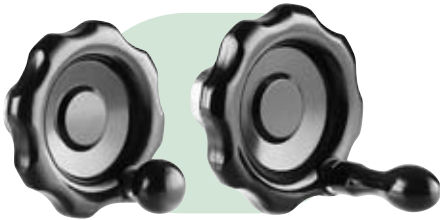
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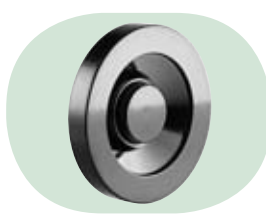
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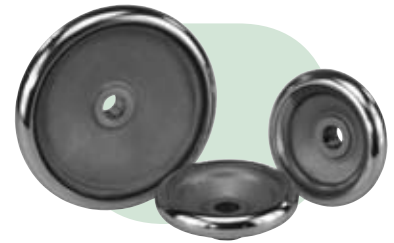
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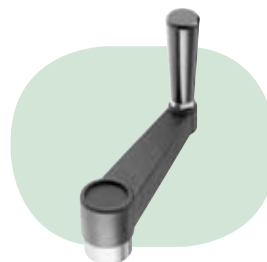
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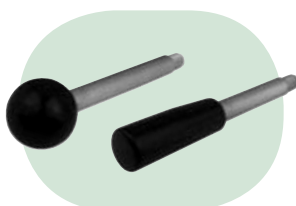
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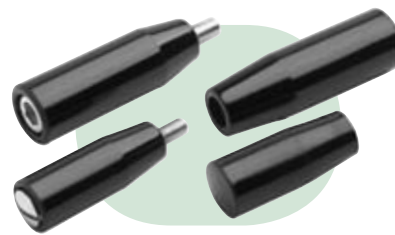
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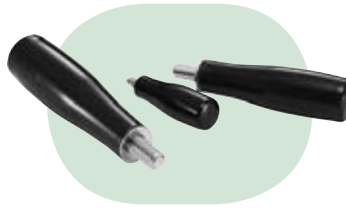


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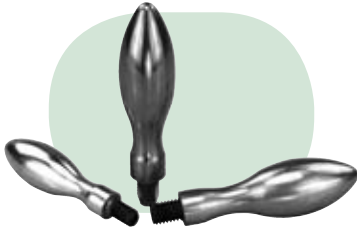
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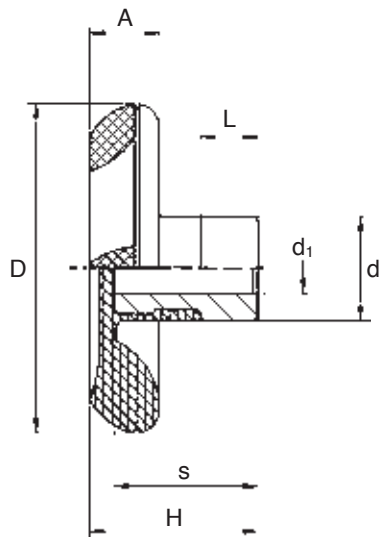
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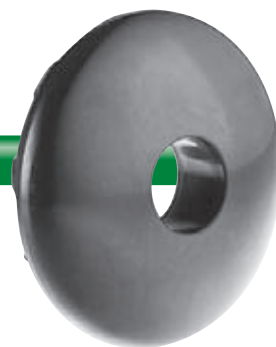


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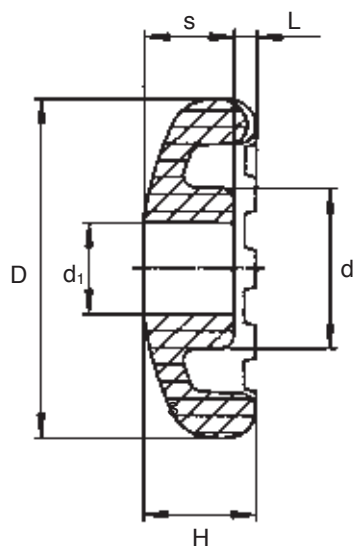


• **HANDWHEEL** – Nylon 6, Anthracite Gray • **HUB** – Steel, Zinc Plated

Catalog Number	D	H	A	s	d	d ₁	L	Weight g
MGAX6FM6801	80	41	17	35	25	10	14	154
MGAX6FM6802						12		145
MGAX6FM6803						14		132
MGAX6FM6804	100	41.5	19	35	25	10	14	188
MGAX6FM6805						12		178
MGAX6FM6806						14		168
MGAX6FM6807	125	42	20	35	25	10	14	252
MGAX6FM6808						12		243
MGAX6FM6809						14		231
MGAX6FM6810	160	42	23	35	32	12	14	446
MGAX6FM6811						14		436
MGAX6FM6812						16		412
MGAX6FM6813	160	42	23	35	32	18	14	413
MGAX6FM6814						20		381



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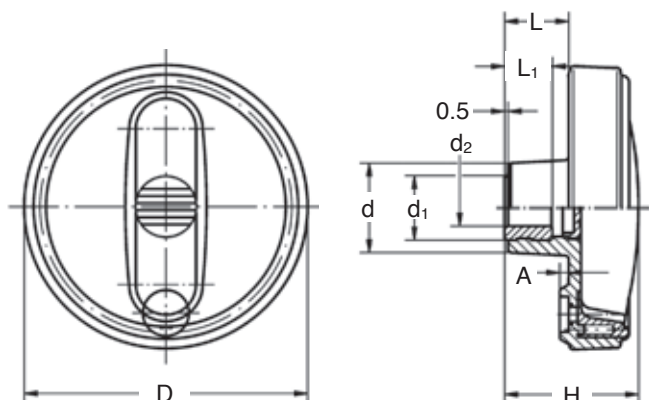


• **HANDWHEEL** – Bakelite, Black • **THROUGH HOLE**

Catalog Number	D	H	s	d	d ₁ (+0.1/0)	L	Weight g
MGAX8FM2901	60	20	16	28	16	4	40
MGAX8FM2902	80	25	20	38	22	5	80
MGAX8FM2903	95	30	25	45	26	5	150



2



• **CHARACTERISTICS**

This modern, attractive handwheel combines quality, durability, strength, ergonomics and safety into one product. Superior design ensures precision adjustments, ergonomic handling and safe operation.

• **HANDWHEEL** – Thermoplastic • **INSERTS** – Steel, Black Oxide Finish

Catalog Number	Size	D	H	A	L	L ₁	d	d ₁	d ₂ * H7	Approx. Weight g	
MGAL00M62108008	1	80	37.5	2.5	17.5	13	25	19	8	74	
MGAL00M62210010	2	100	44	3	20		28		10	12	125
MGAL00M62210012											
MGAL00M62312512	3	125	53	4	23.5	18.5	35	25	12	229	
MGAL00M62416014	4	160	64.5	5.6	28		45		14	16	425
MGAL00M62416016											

*Tolerances: 8 & 10 mm +0.015 / 0
12 to 16 mm +0.018 / 0

HANDWHEELS, WITH GRIP

RoHS
COMPLIANT

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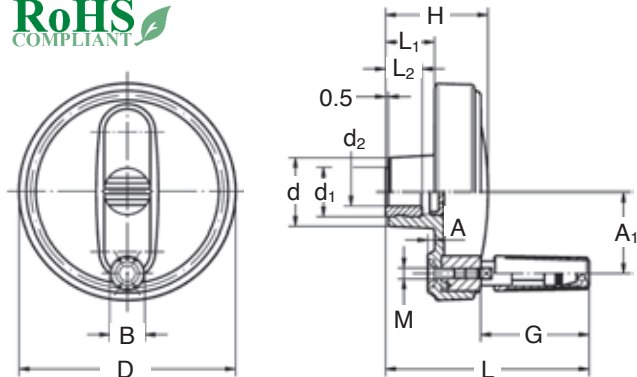


Fig. 1
With Revolving Grip

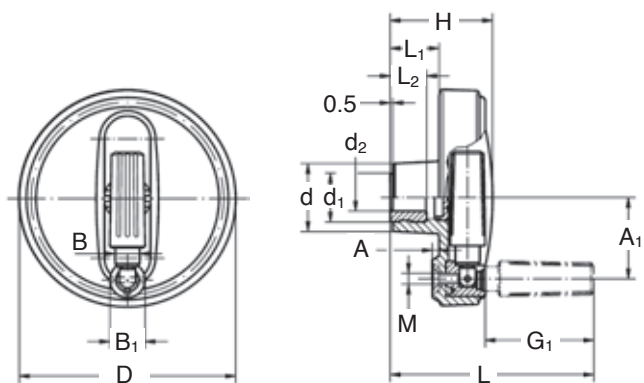


Fig. 2
With Foldaway Grip



• CHARACTERISTICS

The wheels can be secured by many methods: keyway, cross-pinning and set screw or socket head bolt and washer for threaded shaft applications.

• HANDWHEEL WITH REVOLVING OR FOLDAWAY GRIP – Thermoplastic

• INSERT – Steel, Black Oxide Finish

Catalog Number		Size	D	H	A	A ₁	d	d ₁	d ₂ ** H7	L
Fig.1* With Revolving Grip	Fig. 2 With Foldaway Grip									
MGAL00M63108008	MGAL00M64108008	1	80	37.5	2.5	30	25	19	8	75
MGAL00M63210010	MGAL00M64210010	2	100	44	3	38	28		10	90
MGAL00M63210012	MGAL00M64210012								12	
MGAL00M63312512	MGAL00M64312512	3	125	53	4	47.5	35	25	12	109
MGAL00M63416014	MGAL00M64416014	4	160	64.5	5.6	62	45		14	144
MGAL00M63416016	MGAL00M64416016								16	

Catalog Number		L ₁	L ₂	M	G (Fig. 1 Only)	G ₁ (Fig. 2 Only)	B	B ₁ (Fig. 2 Only)	Approx. Weight g
Fig.1* With Revolving Grip	Fig. 2 With Foldaway Grip								
MGAL00M63108008	MGAL00M64108008	17.5	13	M4	40	40	13	13	101
MGAL00M63210010	MGAL00M64210010	20		M5	49.5	49	16	16	178
MGAL00M63210012	MGAL00M64210012		23.5	M6	60	59.5	20	20	318
MGAL00M63312512	MGAL00M64312512	28	18.5	M8	83.5	83.5	25	26	636
MGAL00M63416014	MGAL00M64416014								
MGAL00M63416016	MGAL00M64416016								

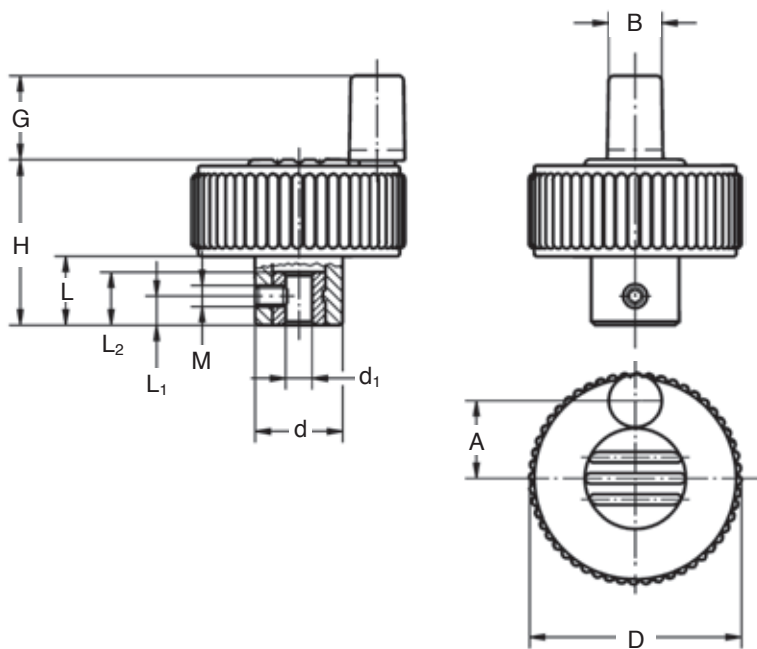
*NOTE: Hub covers and wheels with revolving grips come unassembled.

**Tolerances: 8 & 10 mm +0.015 / 0
12 to 16 mm +0.018 / 0

www.allmetricsmallparts.com



2



• CHARACTERISTICS

Attractive design and excellent ergonomic features make this positioning wheel a trendsetting product. Positioning wheels are durable, attractive and offer a firm, safe grip. Novo-Grip positioning wheels improve ease and performance in all applications.

• WITHOUT TAPPED SET SCREW HOLE • NOVO-GRIP

• HANDWHEEL – Thermoplastic, Anthracite Gray* • INSERT – Steel, Blue Chromated

Catalog Number*	Size	D	H	A	d	d ₁	L	L ₂	G	B
MGAL01M682106 ☐	1	40	31	15	16.5	6	13	10	16	10
MGAL01M682206 ☐	2	50	36	18.5	18	6	15	10		
MGAL01M682308 ☐	3	60	41	25	22	8	17	14		

• WITH TAPPED HOLE & SET SCREW • NOVO-GRIP

• HANDWHEEL – Thermoplastic, Anthracite Gray* • INSERT – Steel, Blue Chromated

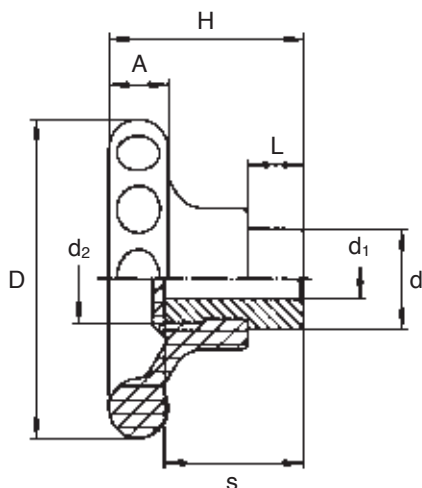
Catalog Number*	Size	D	H	A	d	d ₁	L	L ₁	L ₂	G	B	M
MGAL01M681106 ☐	1	40	31	15	16.5	6	13	5.5	10	16	10	M4
MGAL01M681206 ☐	2	50	36	18.5	18	6	15	5.5	10			
MGAL01M681308 ☐	3	60	41	25	22	8	17	8	14			

*To complete the catalog number add the desired cap color at the end. **GRAY = 5, RED = 6, YELLOW = 7.**

No color code is required for anthracite gray.



2



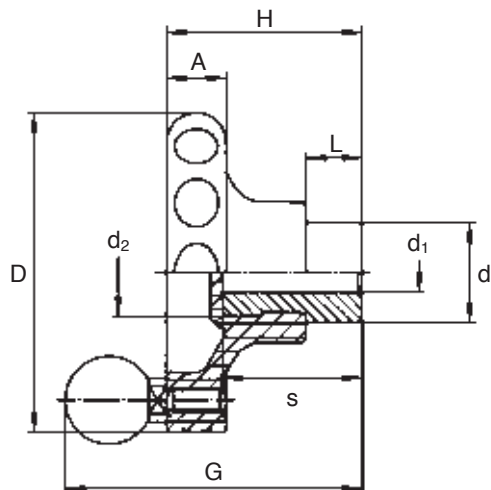
• **HANDWHEEL** – Bakelite, Black • **HUB** – Steel, Zinc Plated

Catalog Number	D	H	A	s	d	d ₁	d ₂	L	Weight g
MGAX1FM1601	80	49	15	35	25	10	20	14	162
MGAX1FM1602						12			154
MGAX1FM1603						14			150
MGAX1FM1604	100	55	17	35	25	10	20	14	212
MGAX1FM1605						12			198
MGAX1FM1606						14			205
MGAX1FM1607	125	59	18	35	25	10	20	14	270
MGAX1FM1608						12			270
MGAX1FM1609						14			262

HANDWHEELS, SCALLOP WITH KNOB



2

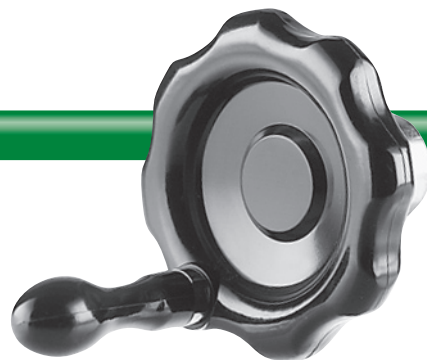


- **WHEEL** – Bakelite, Black • **HUB** – Steel, Zinc Plated
- **REVOLVING KNOB** – Bakelite, Black, Spherical Ø22 mm

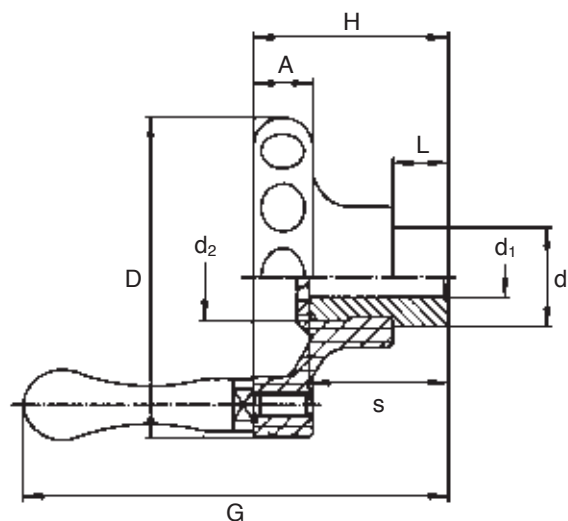
Catalog Number	D	H	A	s	d
MGAX1FM2801	80	49	15	35	25
MGAX1FM2802					
MGAX1FM2803					
MGAX1FM2804	100	55	17	35	25
MGAX1FM2805					
MGAX1FM2806					
MGAX1FM2807	125	59	18	35	25
MGAX1FM2808					
MGAX1FM2809					

Catalog Number	d ₁	d ₂	L	G	Weight g
MGAX1FM2801	10	20	14	76	184
MGAX1FM2802	12				174
MGAX1FM2803	14				162
MGAX1FM2804	10	20	14	82	230
MGAX1FM2805	12				218
MGAX1FM2806	14				202
MGAX1FM2807	10	20	14	86	296
MGAX1FM2808	12				290
MGAX1FM2809	14				276

HANDWHEELS, SCALLOP WITH GRIP



2



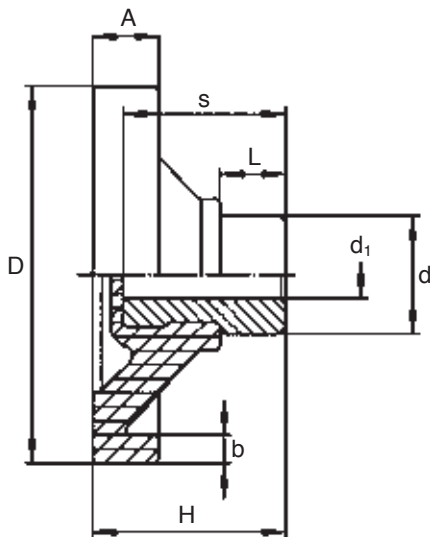
- **WHEEL** – Bakelite, Black • **HUB** – Steel, Zinc Plated
- **GRIP** – Bakelite, Black • **SCREW** – Steel, Zinc Plated

Catalog Number	D	H	A	s	d	d ₁
MGAX1FM1801	80	49	15	35	25	10
MGAX1FM1802						12
MGAX1FM1803						14
MGAX1FM1804	100	55	17	35	25	10
MGAX1FM1805						12
MGAX1FM1806						14
MGAX1FM1807	125	59	18	35	25	10
MGAX1FM1808						12
MGAX1FM1809						14

Catalog Number	d ₂	L	G	Grip Included	Weight g
MGAX1FM1801	20	14	107	MHAX4MM2301	196
MGAX1FM1802					186
MGAX1FM1803					176
MGAX1FM1804	20	14	113	MHAX4MM2301	244
MGAX1FM1805					232
MGAX1FM1806					218
MGAX1FM1807	20	14	127	MHAX4MM2302	332
MGAX1FM1808					318
MGAX1FM1809					312



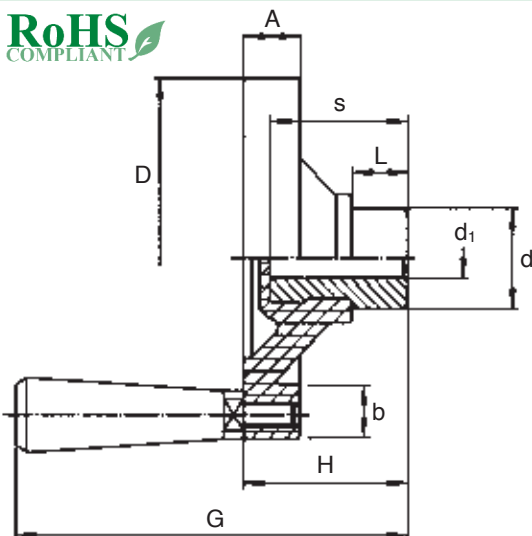
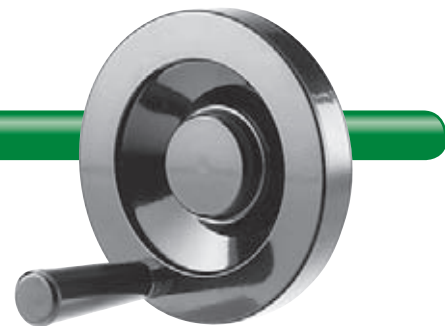
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• **HANDWHEEL** – Bakelite, Black • **HUB** – Steel, Zinc Plated

Catalog Number	D	H	A	s	d	d ₁	L	b	Weight g
MGAX7FM09817	80	41	14	35	25	10	14	6	170
MGAX7FM09818						12			160
MGAX7FM09819						14			150
MGAX7FM19801	100	43	17	35	25	10	14	7	205
MGAX7FM19802						12			200
MGAX7FM19803						14			190
MGAX7FM19804	125	44	18	35	25	10	14	8	280
MGAX7FM19805						12			270
MGAX7FM19806						14			260
MGAX7FM19807	160	50	20	35	32	12	14	12.5	440
MGAX7FM19808						14			430
MGAX7FM19809						16			420
MGAX7FM19810						18			400
MGAX7FM19811						20			390
MGAX7FM19812	200	56	22	35	40	16	14	12.5	780
MGAX7FM19813						18			760
MGAX7FM19814						20			740
MGAX7FM19815	250	67	23	40	50	20	16	16	1380
MGAX7FM19816						25			1330

HANDWHEELS, DISK WITH GRIP

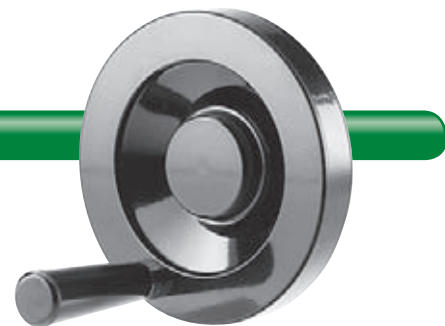


- **HANDWHEEL** – Bakelite, Black • **HUB** – Steel, Zinc Plated
- **REVOLVING GRIP** – Bakelite, Black

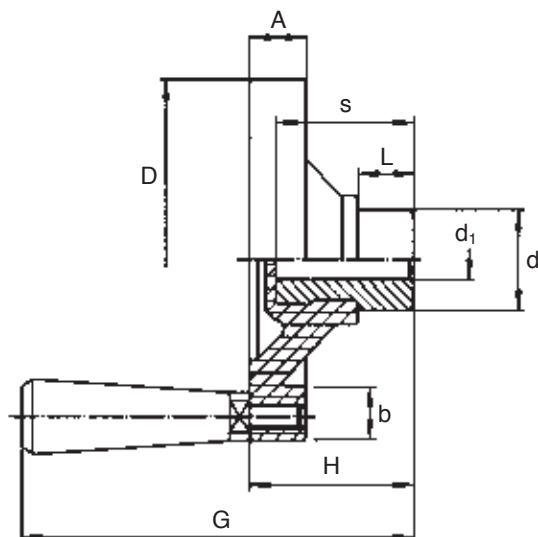
Catalog Number	D	H	A	s	d	d ₁
MGAX7FM09917	80	41	14	35	25	10
MGAX7FM09918						12
MGAX7FM09919						14
MGAX7FM19901	100	43	17	35	25	10
MGAX7FM19902						12
MGAX7FM19903						14
MGAX7FM19904	125	44	18	35	25	10
MGAX7FM19905						12
MGAX7FM19906						14
MGAX7FM19907	160	50	20	35	32	12
MGAX7FM19908						14
MGAX7FM19909						16
MGAX7FM19910						18
MGAX7FM19911						20

Catalog Number	L	b	G	Grip Included	Weight g
MGAX7FM09917	14	6	98	MHAX3MM1414	205
MGAX7FM09918					195
MGAX7FM09919					185
MGAX7FM19901	14	7	100	MHAX3MM1414	245
MGAX7FM19902					235
MGAX7FM19903					225
MGAX7FM19904	14	8	102	MHAX3MM1414	320
MGAX7FM19905					310
MGAX7FM19906					300
MGAX7FM19907	14	12.5	119	MHAX3MM1415	510
MGAX7FM19908					500
MGAX7FM19909					490
MGAX7FM19910					470
MGAX7FM19911					450

HANDWHEELS, DISK WITH GRIP



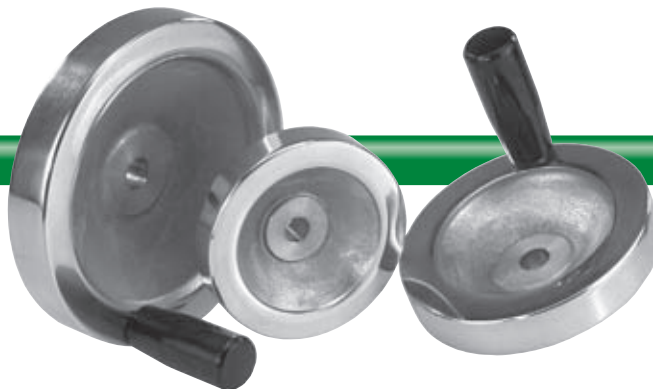
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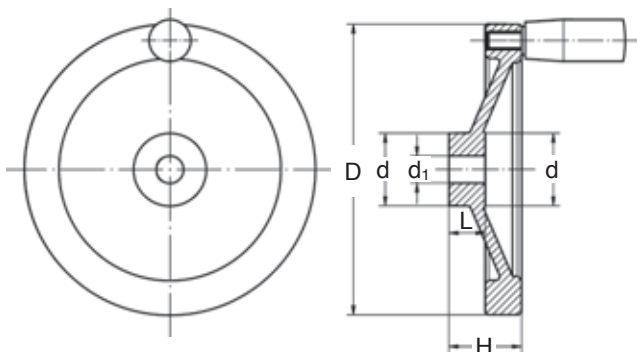
- **HANDWHEEL** – Bakelite, Black • **HUB** – Steel, Zinc Plated
- **REVOLVING GRIP** – Bakelite, Black

Catalog Number	D	H	A	s	d	d ₁
MGAX7FM19912	200	56	22	35	40	16
MGAX7FM19913						18
MGAX7FM19914						20
MGAX7FM19915	250	67	23	40	50	20
MGAX7FM19916						25

Catalog Number	L	b	G	Grip Included	Weight g
MGAX7FM19912	14	12.5	125	MHAX3MM1415	840
MGAX7FM19913					820
MGAX7FM19914					800
MGAX7FM19915	16	16	136	MHAX3MM1425	1440
MGAX7FM19916					1390



2



• **HANDWHEEL** – Aluminum • **WHEEL RIM** – Turned & Polished

Catalog Number	d ₁	Catalog Number	d ₁	D	H	d	L	Approx. Weight g
MGAL04M750080X10	10	MGAL04M750080X12	12	80	31	25	16	175
MGAL04M750100X10		MGAL04M750100X12	12	100	34	31	17	270
MGAL04M750125X12	12	MGAL04M750125X14	14	125	37	30	18	490
MGAL04M750140X14	14	MGAL04M750140X15	15	140	34	34	19	510
MGAL04M750160X15	15	MGAL04M750160X16	16	160	40	40	20	780
MGAL04M750200X18	18	MGAL04M750200X20	20	200	46	50	24	1340
MGAL04M750250X22	22	MGAL04M750250X24	24	250	49		28	1950

• **HANDWHEEL** – Aluminum • **WHEEL RIM** – Turned & Polished

• **STATIONARY GRIP** – Bakelite, Black • DIN 7708 • **SCREW** – Galvanized Steel

Catalog Number	d ₁	Catalog Number	d ₁	D	H	d	L	Fixed Cylindrical Grip	Approx. Weight g
MGAL04M752080X10	10	MGAL04M752080X12	12	80	31	25	16	Ø18 X M6 X 40	195
MGAL04M752100X10		MGAL04M752100X12	12	100	34	31	17		290
MGAL04M752125X12	12	MGAL04M752125X14	14	125	37	30	18	Ø21 X M8 X 50	530
MGAL04M752140X14	14	MGAL04M752140X15	15	140	34	34	19		590
MGAL04M752160X15	15	MGAL04M752160X16	16	160	40	40	20	Ø26 X M10 X 80	860
MGAL04M752200X18	18	MGAL04M752200X20	20	200	46	50	24		1420
MGAL04M752250X22	22	MGAL04M752250X24	24	250	49	50	28	Ø28 X M12 X 90	2065

• **HANDWHEEL** – Aluminum • **WHEEL RIM** – Turned & Polished

• **REVOLVING GRIP** – Bakelite, Black • DIN 7708 • **SCREW** – Galvanized Steel

Catalog Number	d ₁	Catalog Number	d ₁	D	H	d	L	Revolving Cylindrical Grip	Approx. Weight g
MGAL04M754080X10	10	MGAL04M754080X12	12	80	31	25	16	Ø18 X M6 X 40	205
MGAL04M754100X10		MGAL04M754100X12	12	100	34	31	17		300
MGAL04M754125X12	12	MGAL04M754125X14	14	125	37	30	18	Ø22 X M8 X 56	540
MGAL04M754140X14	14	MGAL04M754140X15	15	140	34	34	19		620
MGAL04M754160X15	15	MGAL04M754160X16	16	160	40	40	20	Ø26 X M10 X 80	890
MGAL04M754200X18	18	MGAL04M754200X20	20	200	46	50	24		1450
MGAL04M754250X22	22	MGAL04M754250X24	24	250	49	50	28	Ø31 X M12 X 102	2125

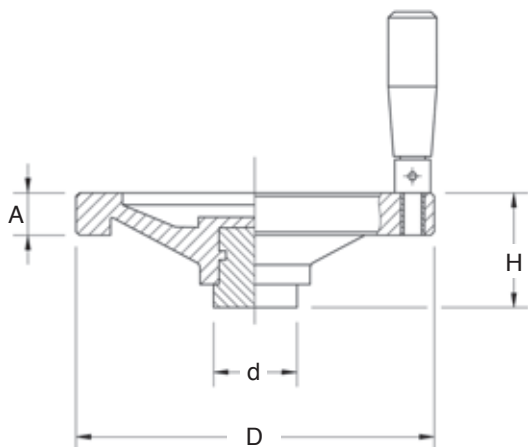


Fig. 1

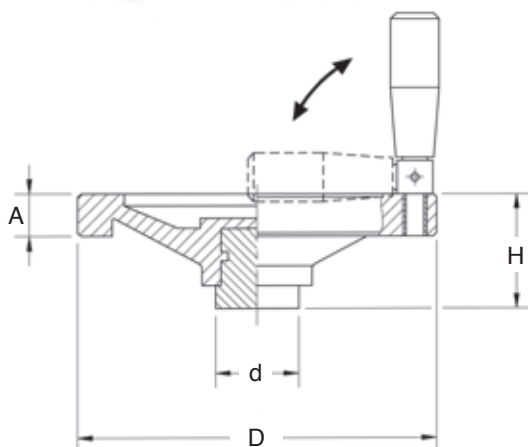


Fig. 2



Fig. 1



Fig. 2

Fig. 1 • HANDWHEEL WITH REVOLVING GRIP – Bakelite, Black

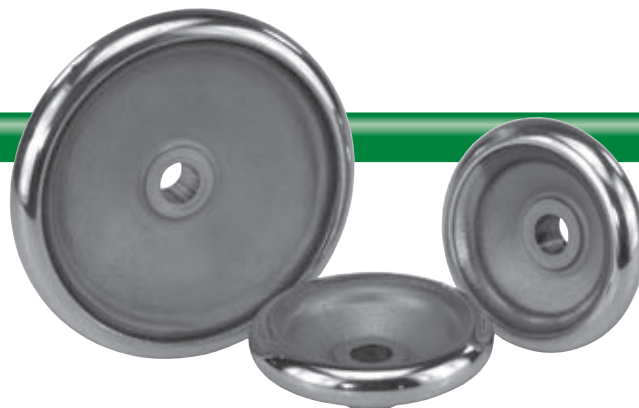
• **HUB** – Steel, UNI 5105, Zinc Plated

Catalog Number	D	H	A	d
MGAY7FM201DP30	115	42	15	32
MGAY7FM201DP35	155	50	18	35

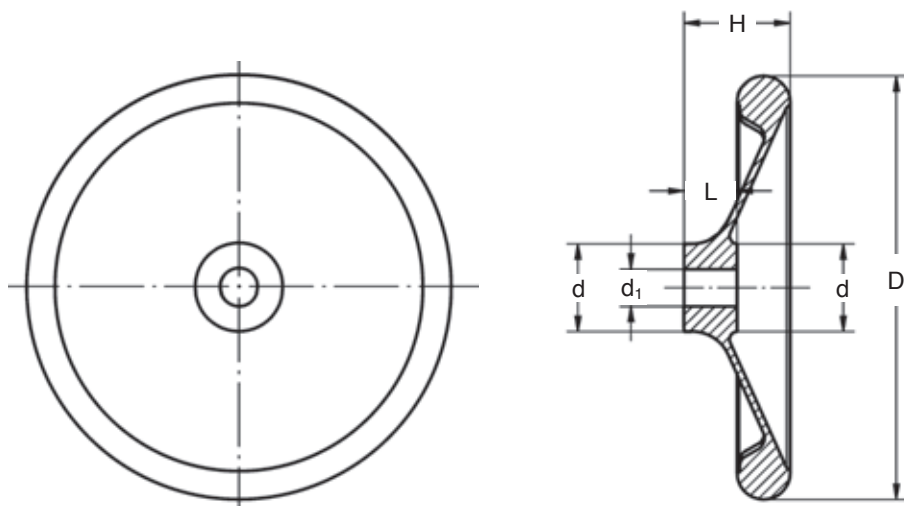
Fig. 2 • HANDWHEEL WITH FOLDAWAY REVOLVING GRIP – Bakelite, Black

• **HUB** – Steel, UNI 5105, Zinc Plated

Catalog Number	D	H	A	d
MGAY7FM201DP50	115	42	15	32
MGAY7FM201DP55	155	50	18	35



2

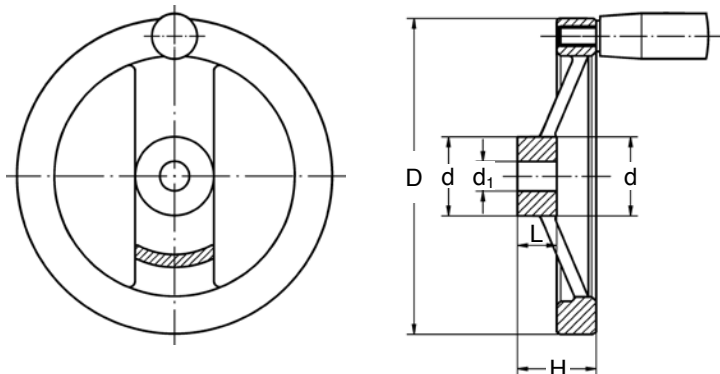


• **HANDWHEEL** – Aluminum • **WHEEL RIM** – Turned & Polished • Similar to DIN 950

Catalog Number	d ₁	Catalog Number	d ₁	D	d	L	H	Approx. Weight g
MGAL06M790080X10	10	MGAL06M790080X12	12	80	24	16	30	150
MGAL06M790100X10		MGAL06M790100X12		100	25	17	31	220
MGAL06M790120X12	12	MGAL06M790120X14	14	120	26	18	32	250
MGAL06M790160X14	14	MGAL06M790160X16	16	160	33	20	40	660
MGAL06M790200X18	18	MGAL06M790200X22	22	200	39	24	42	1100
MGAL06M790250X22	22	MGAL06M790250X26	26	250	48	28	60	2000

HANDWHEELS, TWO-SPOKE

RoHS
COMPLIANT



• **HANDWHEEL** – Aluminum • **WHEEL RIM** – Turned & Polished

Catalog Number	d ₁	Catalog Number	d ₁	D	H	d	L	Approx. Weight g
MGAL05M770080X10	10	MGAL05M770080X12	12	80	28	24	16	160
MGAL05M770100X10		MGAL05M770100X12	12	100	33	26	17	250
MGAL05M770125X12	12	MGAL05M770125X14	14	125	33.5	31	18	380
MGAL05M770160X14	14	MGAL05M770160X16	16	160	39	36	20	600
MGAL05M770200X18	18	MGAL05M770200X20	20	200	45	42	24	1020
MGAL05M770250X22	22	MGAL05M770250X26	26	250	51	48	28	1700

• **HANDWHEEL** – Aluminum • **WHEEL RIM** – Turned & Polished

• **STATIONARY GRIP** – Bakelite, Black • DIN 7708 • **SCREW** – Galvanized Steel

Catalog Number	d ₁	Catalog Number	d ₁	D	H	d	L	Fixed Cylindrical Grip	Approx. Weight g
MGAL05M772080X10	10	MGAL05M772080X12	12	80	28	24	16	Ø18 X M6 X 40	180
MGAL05M772100X10		MGAL05M772100X12	12	100	33	26	17		270
MGAL05M772125X12	12	MGAL05M772125X14	14	125	33.5	31	18	Ø21 X M8 X 50	420
MGAL05M772160X14	14	MGAL05M772160X16	16	160	39	36	20	Ø26 X M10 X 80	680
MGAL05M772200X18	18	MGAL05M772200X20	20	200	45	42	24	Ø26 X M10 X 80	1100
MGAL05M772250X22	22	MGAL05M772250X26	26	250	51	48	28	Ø28 X M12 X 90	1815

• **HANDWHEEL** – Aluminum • **WHEEL RIM** – Turned & Polished

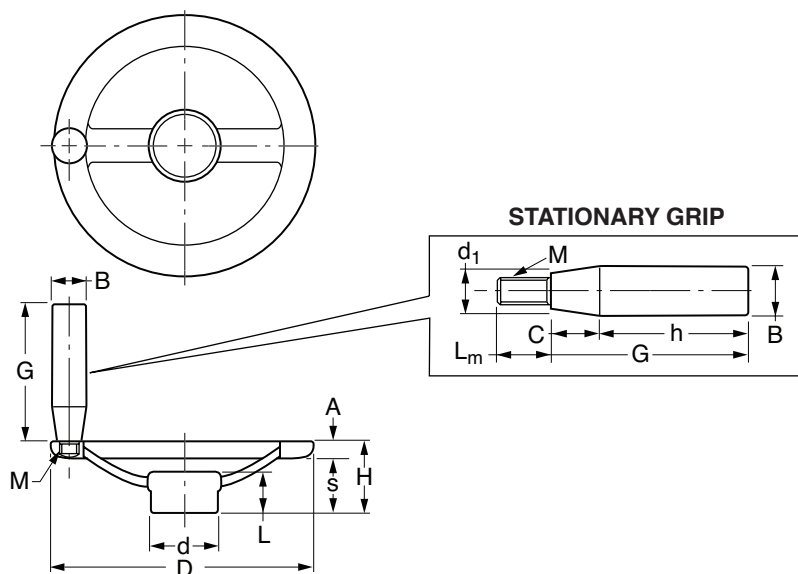
• **REVOLVING GRIP** – Bakelite, Black • DIN 7708 • **SCREW** – Galvanized Steel

Catalog Number	d ₁	Catalog Number	d ₁	D	H	d	L	Revolving Cylindrical Grip	Approx. Weight g
MGAL05M774080X10	10	MGAL05M774080X12	12	80	28	24	16	Ø18 X M6 X 40	190
MGAL05M774100X10		MGAL05M774100X12	12	100	33	26	17		280
MGAL05M774125X12	12	MGAL05M774125X14	14	125	33.5	31	18	Ø22 X M8 X 56	430
MGAL05M774160X14	14	MGAL05M774160X16	16	160	39	36	20	Ø26 X M10 X 80	710
MGAL05M774200X18	18	MGAL05M774200X20	20	200	45	42	24	Ø26 X M10 X 80	1130
MGAL05M774250X22	22	MGAL05M774250X26	26	250	51	48	28	Ø31 X M12 X 102	1875

HANDWHEELS, OFFSET & STATIONARY GRIP



2



• HANDWHEEL – Stainless Steel

Catalog Number	D	H	A	s	d	L	No. of Spokes	M	Weight g
MGAN2FMHSM080	80	28	8	20	26	17	2	M5	260
MGAN2FMHSM100	100	30	8	22	26	18	2	M5	320
MGAN2FMHSM125	125	34	8	26	32	20	2	M6	500
MGAN2FMHSM160	160	42	10	32	36	24	2	M8	900
MGAN2FMHSM200	200	42	11	31	42	24	2	M10	1300
MGAN2FMHSM250	250	53	13	40	50	34	3		2400

• STATIONARY GRIP – Stainless Steel

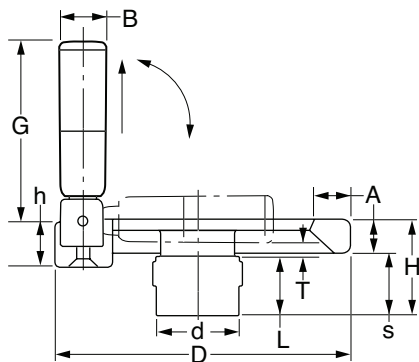
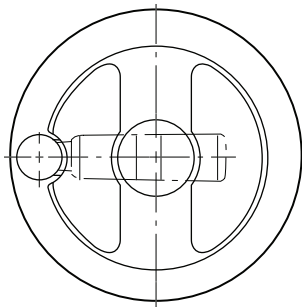
Catalog Number	B	M	L _m	d ₁	G	h
MHAN3MMGSS05	10	M5	6	8	40	30
MHAN3MMGSS06	13	M6	7	10	50	37
MHAN3MMGSS08	16	M8	8	12	64	49
MHAN3MMGSS10	20	M10	10	15	70	50

Catalog Number	C	Weight g	Applicable Model
MHAN3MMGSS05	10	25	MGAN2FMHSM080, MGAN2FMHSM100
MHAN3MMGSS06	13	50	MGAN2FMHSM125, MGAF2NMHSM140
MHAN3MMGSS08	15	100	MGAN2FMHSM160
MHAN3MMGSS10	20	150	MGAN2FMHSM200, MGAN2FMHSM250

HANDWHEELS WITH RETRACTABLE REVOLVING GRIP

RoHS
COMPLIANT

2



• HANDWHEEL – Cast Iron • REVOLVING GRIP – Bakelite, Black

Catalog Number	D	B	G	h	H	A
MGAN4FMHSN125	125	23	76.5	19	44	15
MGAN4FMHSN160	160		74	21.5	52	16
MGAN4FMHSN200	200	26	91.5	18.5	56	17
MGAN4FMHSN250	250		85	25.5	62	19
MGAN4FMHSN315	315		86	24.5	66	21

Catalog Number	s	d	L	T	Weight g
MGAN4FMHSN125	29	35	30	2.5	850
MGAN4FMHSN160	36	40	35		1300
MGAN4FMHSN200	39	48	40	2.5	2060
MGAN4FMHSN250	43	52	40		2960
MGAN4FMHSN315	45	63	45		4770

HANDWHEELS, THREE-SPOKE

RoHS
COMPLIANT

2

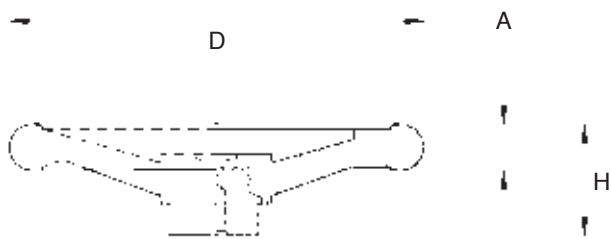


Fig. 1

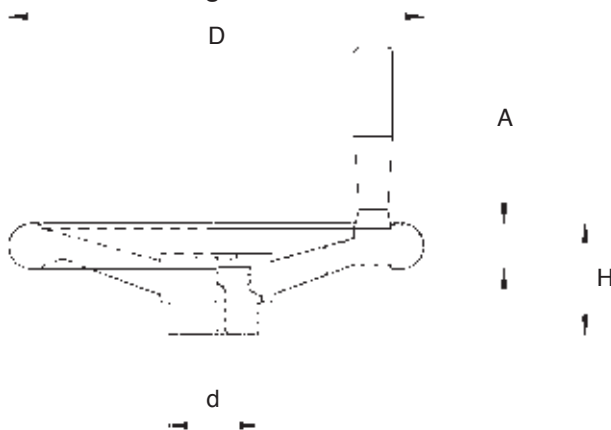


Fig. 2

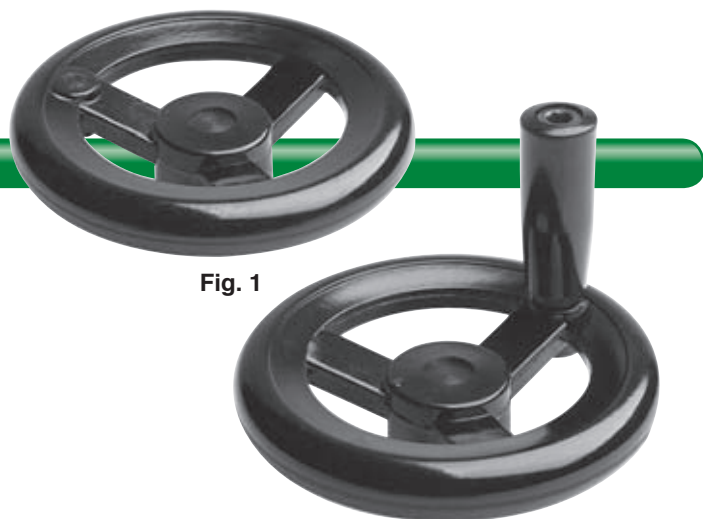


Fig. 1

Fig. 2

Fig. 1 • HANDWHEEL – Bakelite, Black
• **HUB – Steel, UNI 5105, Zinc Plated**

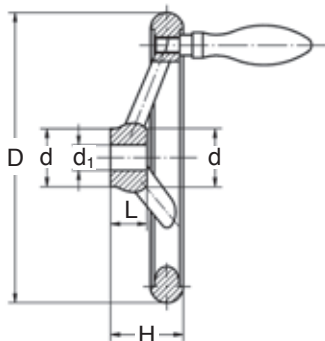
Catalog Number	D	H	A	d
MGAY5FM201D05	90	32	16	25
MGAY5FM201D10	120	40	18	28
MGAY5FM201D15	160	45	20	38
MGAY5FM201D25	200	60	24	40

Fig. 2 • HANDWHEEL WITH REVOLVING GRIP – Bakelite, Black
• **HUB – Steel, UNI 5105, Zinc Plated**

Catalog Number	D	H	A	d
MGAY5FM201D55	90	32	16	25
MGAY5FM201D60	120	40	18	28
MGAY5FM201D65	160	45	20	38
MGAY5FM201D70	180	65	26	36
MGAY5FM201D75	200	60	24	40

HANDWHEELS

RoHS
COMPLIANT



2

- **HANDWHEEL** – Aluminum • **WHEEL RIM** – Turned & Polished
- **HUB** – Steel, Black Oxide Finish • DIN 950

Catalog Number	d ₁	Catalog Number	d ₁	D	H	d	L	No. of Spokes	Approx. Weight g
MGAL03M730080X10	10	MGAL03M730080X12	12	80	29	24	16	3	125
MGAL03M730100X10		MGAL03M730100X12		100	33	26	17		220
MGAL03M730125X12	12	MGAL03M730125X14	14	125	36	28	18		305
MGAL03M730140X14	14	MGAL03M730140X16	16	140	39	30	19		400
MGAL03M730160X14	14	MGAL03M730160X16	16	160	40	32	20		530
MGAL03M730180X16	16	MGAL03M730180X18	18	180	43	35	22		675
MGAL03M730200X18	18	MGAL03M730200X22	22	200	45	38	24	5	900
MGAL03M730250X22	22	MGAL03M730250X26	26	250	50	45	28		1570

- **HANDWHEEL** – Aluminum • **WHEEL RIM** – Turned & Polished
- **HUB** – Steel, Black Oxide Finish • DIN 950 • **STATIONARY GRIP** – Aluminum, Polished • DIN 39 Style E

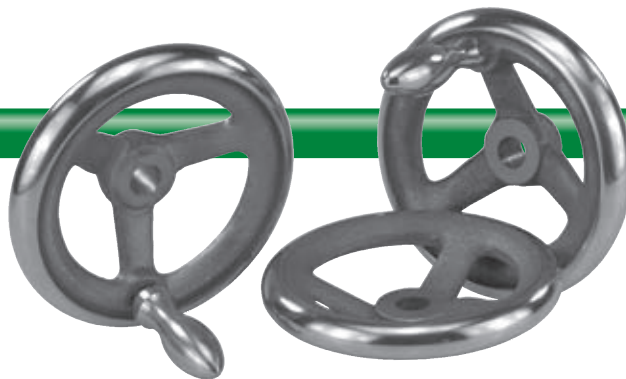
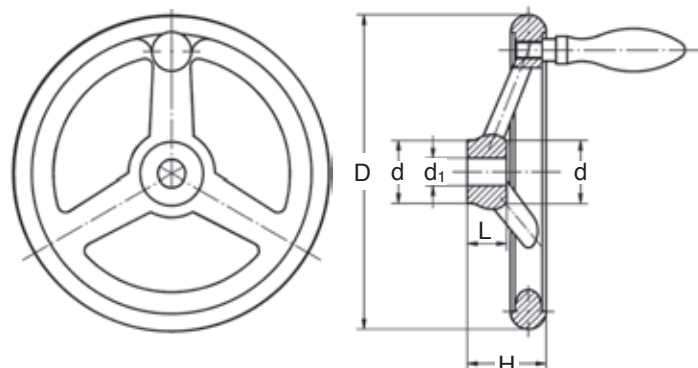
Catalog Number	d ₁	Catalog Number	d ₁	D	H	d	L	No. of Spokes	Stationary Machine Grip	Approx. Weight g
MGAL03M732080X10	10	MGAL03M732080X12	12	80	29	24	16	3	Ø16 X M6 X 50	145
MGAL03M732100X10		MGAL03M732100X12		100	33	26	17			240
MGAL03M732125X12	12	MGAL03M732125X14	14	125	36	28	18		Ø20 X M8 X 64	340
MGAL03M732140X14	14	MGAL03M732140X16	16	140	39	30	19			440
MGAL03M732160X14	14	MGAL03M732160X16	16	160	40	32	20		Ø25 X M10 X 80	610
MGAL03M732180X16	16	MGAL03M732180X18	18	180	43	35	22			755
MGAL03M732200X18	18	MGAL03M732200X22	22	200	45	38	24	5		980
MGAL03M732250X22	22	MGAL03M732250X26	26	250	50	45	28		Ø32 X M12 X 100	1705

- **HANDWHEEL** – Aluminum • **WHEEL RIM** – Turned & Polished
- **HUB** – Steel, Black Oxide Finish • DIN 950 • **REVOLVING GRIP** – Aluminum, Polished • DIN 98 Style E

Catalog Number	d ₁	Catalog Number	d ₁	D	H	d	L	No. of Spokes	Revolving Machine Grip	Approx. Weight g
MGAL03M734080X10	10	MGAL03M734080X12	12	80	29	24	16	3	Ø16 X M6 X 54.5	145
MGAL03M734100X10		MGAL03M734100X12		100	33	26	17			240
MGAL03M734125X12	12	MGAL03M734125X14	14	125	36	28	18		Ø20 X M8 X 67	340
MGAL03M734140X14	14	MGAL03M734140X16	16	140	39	30	19			440
MGAL03M734160X14	14	MGAL03M734160X16	16	160	40	32	20		Ø25 X M10 X 83	610
MGAL03M734180X16	16	MGAL03M734180X18	18	180	43	35	22			755
MGAL03M734200X18	18	MGAL03M734200X22	22	200	45	38	24	5		980
MGAL03M734250X22	22	MGAL03M734250X26	26	250	50	45	28		Ø32 X M12 X 105.5	1705

HANDWHEELS

RoHS
COMPLIANT



2

• **HANDWHEEL** – Cast Iron, Gray • **WHEEL RIM** – Turned & Polished • DIN 950

Catalog Number	d ₁	Catalog Number	d ₁	D	H	d	L	No. of Spokes	Approx. Weight g
MGAL02M710080X10	10	MGAL02M710080X12	12	80	29	24	16	3	350
MGAL02M710100X10		MGAL02M710100X12		100	33	26	17		600
MGAL02M710125X12	12	MGAL02M710125X14	14	125	36	28	18		800
MGAL02M710140X14	14	MGAL02M710140X16	16	140	39	30	19		1000
MGAL02M710160X14	14	MGAL02M710160X16	16	160	40	32	20		1350
MGAL02M710180X16	16	MGAL02M710180X18	18	180	43	35	22		1600
MGAL02M710200X18	18	MGAL02M710200X22	22	200	45	38	24	5	2300
MGAL02M710250X22	22	MGAL02M710250X26	26	250	50	45	28		4250

• **HANDWHEEL** – Cast Iron, Gray • **WHEEL RIM** – Turned & Polished • DIN 950

• **STATIONARY GRIP** – Steel. Polished • DIN 39 Style E

Catalog Number	d ₁	Catalog Number	d ₁	D	H	d	L	No. of Spokes	Stationary Machine Grip	Approx. Weight g
MGAL02M712080X10	10	MGAL02M712080X12	12	80	29	24	16	3	Ø16 X M6 X 50	400
MGAL02M712100X10		MGAL02M712100X12		100	33	26	17			650
MGAL02M712125X12	12	MGAL02M712125X14	14	125	36	28	18		Ø20 X M8 X 64	890
MGAL02M712140X14	14	MGAL02M712140X16	16	140	39	30	19			1090
MGAL02M712160X14	14	MGAL02M712160X16	16	160	40	32	20		Ø25 X M10 X 80	1530
MGAL02M712180X16	16	MGAL02M712180X18	18	180	43	35	22			1780
MGAL02M712200X18	18	MGAL02M712200X22	22	200	45	38	24	5		2480
MGAL02M712250X22	22	MGAL02M712250X26	26	250	50	45	28		Ø32 X M12 X 100	4610

• **HANDWHEEL** – Cast Iron, Gray • **WHEEL RIM** – Turned & Polished • DIN 950

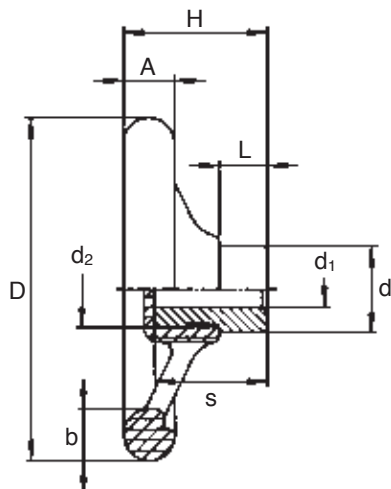
• **REVOLVING GRIP** – Steel. Polished • DIN 98 Style E

Catalog Number	d ₁	Catalog Number	d ₁	D	H	d	No. of Spokes	Revolving Machine Grip	Approx. Weight g	
MGAL02M714080X10	10	MGAL02M714080X12	12	80	29	24	16	3	Ø16 X M6 X 54.5	400
MGAL02M714100X10		MGAL02M714100X12		100	33	26	17			650
MGAL02M714125X12	12	MGAL02M714125X14	14	125	36	28	18		Ø20 X M8 X 67	890
MGAL02M714140X14	14	MGAL02M714140X16	16	140	39	30	19			1090
MGAL02M714160X14	14	MGAL02M714160X16	16	160	40	32	20		Ø25 X M10 X 83	1530
MGAL02M714180X16	16	MGAL02M714180X18	28	180	43	35	22			1780
MGAL02M714200X18	18	MGAL02M714200X22	22	200	45	38	24	2480		
MGAL02M714250X22	22	MGAL02M714250X26	26	250	50	45	28	5	Ø32 X M12 X 105.5	4610

HANDWHEELS, THREE-SPOKE



2



• **HANDWHEEL** – Bakelite, Black • **HUB** – Steel, Zinc Plated

Catalog Number	D	H	A	s	d
MGAX5FM1901	100	42	15	35	25
MGAX5FM1902					
MGAX5FM1903					
MGAX5FM1904	125	47	16	35	25
MGAX5FM1905					
MGAX5FM1906					
MGAX5FM1907	160	52	21	35	32
MGAX5FM1908					
MGAX5FM1909					
MGAX5FM1910	160	52	21	35	32
MGAX5FM1911					

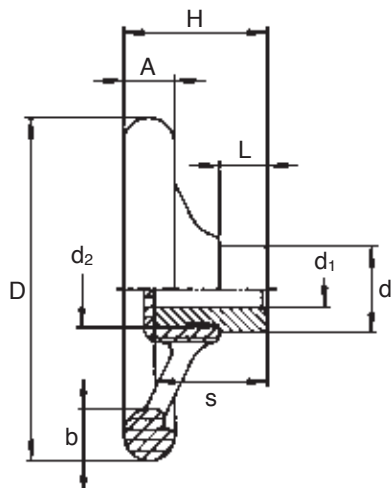
Catalog Number	d ₁	d ₂	L	b	Weight g
MGAX5FM1901	10	20	14	15	190
MGAX5FM1902	12				160
MGAX5FM1903	14				148
MGAX5FM1904	10	20	14	18	214
MGAX5FM1905	12				204
MGAX5FM1906	14				192
MGAX5FM1907	10	25	12	22	390
MGAX5FM1908	12				380
MGAX5FM1909	14				380
MGAX5FM1910	15	25	12	22	370
MGAX5FM1911	16				360

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HANDWHEELS, THREE-SPOKE



2

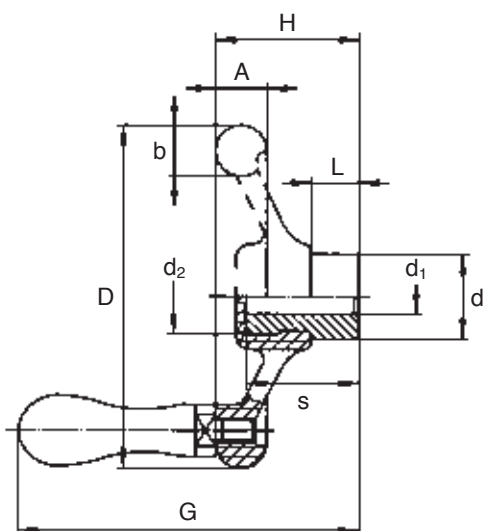


• **HANDWHEEL** – Bakelite, Black • **HUB** – Steel, Zinc Plated

Catalog Number	D	H	A	s	d
MGAX5FM1912	160	52	21	35	32
MGAX5FM1913					
MGAX5FM1914	200	54	24	35	40
MGAX5FM1915					
MGAX5FM1916					
MGAX5FM1917	250	59	28	40	50
MGAX5FM1918					
MGAX5FM1919					
MGAX5FM1920	315	67	32	45	60
MGAX5FM1921					
MGAX5FM1922					

Catalog Number	d ₁	d ₂	L	b	Weight g
MGAX5FM1912	18	25	12	22	345
MGAX5FM1913	20				330
MGAX5FM1914	16	33	14	26	640
MGAX5FM1915	18				620
MGAX5FM1916	20				600
MGAX5FM1917	18	43	14	30	1180
MGAX5FM1918	20				1150
MGAX5FM1919	25				1100
MGAX5FM1920	25	48	16	35	1750
MGAX5FM1921	28				1650
MGAX5FM1922	32				1620

HANDWHEELS, THREE-SPOKE WITH GRIP



2

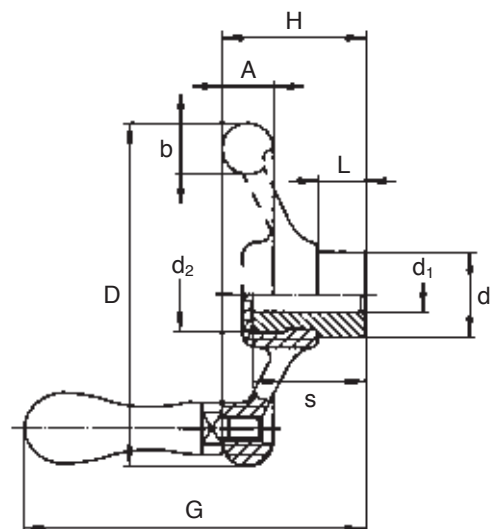
• **HANDWHEEL** – Bakelite, Black • **HUB** – Steel, Zinc Plated • **GRIP** – Bakelite, Black

Catalog Number	D	H	A	s	d	d ₁	d ₂
MGAX5FM2101	100	42	15	35	25	10	20
MGAX5FM2102						12	
MGAX5FM2103						14	
MGAX5FM2104	125	47	16	35	25	10	20
MGAX5FM2105						12	
MGAX5FM2106						14	
MGAX5FM2107	160	52	21	35	32	10	25
MGAX5FM2108						12	
MGAX5FM2109						14	
MGAX5FM2110	160	52	21	35	32	15	25
MGAX5FM2111						16	

Catalog Number	L	b	G	Grip Included	Weight g
MGAX5FM2101	14	15	100	MHAX4MM2301	220
MGAX5FM2102					188
MGAX5FM2103					178
MGAX5FM2104	14	18	105	MHAX4MM2301	240
MGAX5FM2105					226
MGAX5FM2106					220
MGAX5FM2107	12	22	120	MHAX4MM2302	430
MGAX5FM2108					420
MGAX5FM2109					420
MGAX5FM2110	12	22	120	MHAX4MM2302	410
MGAX5FM2111					400

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HANDWHEELS, THREE-SPOKE WITH GRIP



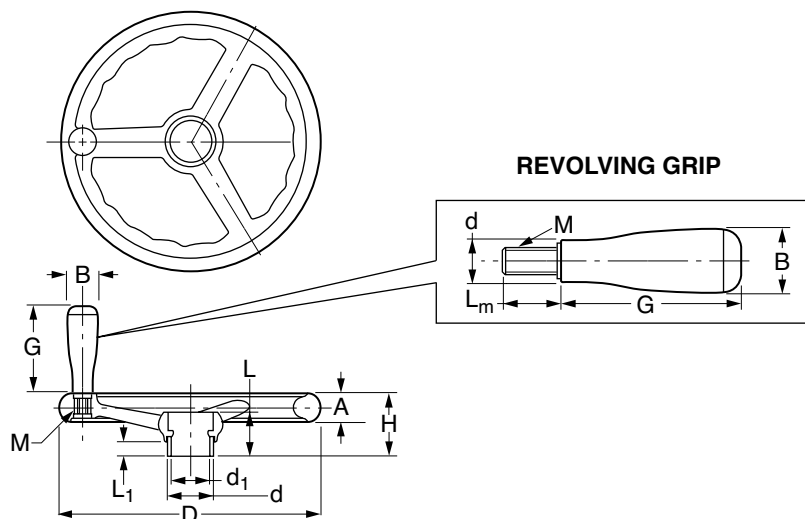
• **HANDWHEEL** – Bakelite, Black • **HUB** – Steel, Zinc Plated • **GRIP** – Bakelite, Black

Catalog Number	D	H	A	s	d	d ₁	d ₂
MGAX5FM2112	160	52	21	35	32	18	25
MGAX5FM2113						20	
MGAX5FM2114	200	54	24	35	40	16	33
MGAX5FM2115						18	
MGAX5FM2116						20	
MGAX5FM2117	250	59	28	40	50	18	43
MGAX5FM2118						20	
MGAX5FM2119						25	
MGAX5FM2120	315	67	32	45	60	25	48
MGAX5FM2121						28	
MGAX5FM2122						32	

Catalog Number	L	b	G	Grip Included	Weight g
MGAX5FM2112	12	22	120	MHAX4MM2302	390
MGAX5FM2113					370
MGAX5FM2114	14	26	140	MHAX4MM2303	710
MGAX5FM2115					680
MGAX5FM2116					670
MGAX5FM2117	14	30	145	MHAX4MM2303	1230
MGAX5FM2118					1210
MGAX5FM2119					1170
MGAX5FM2120	16	35	153	MHAX4MM2303	1850
MGAX5FM2121					1770
MGAX5FM2122					1700

HANDWHEELS, OFFSET & REVOLVING GRIP

RoHS
COMPLIANT



• **HANDWHEEL** – Nylon 6, Black • **HUB** – Steel • **THREADED INSERT** – Steel, Trivalent Chromium Plated

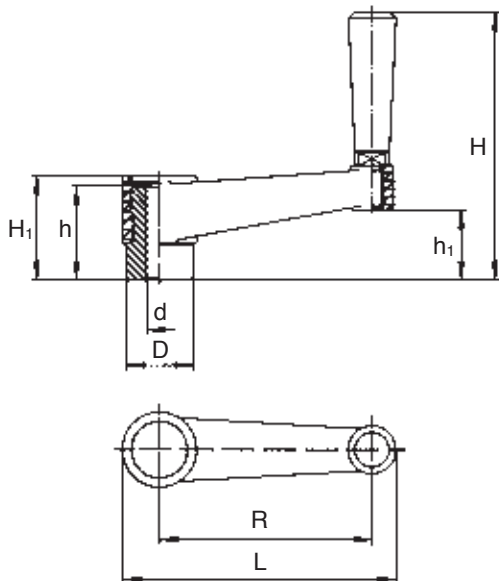
Catalog Number	D	H	A	L ₁	d	d ₁	L	No. of Spokes	M	Weight g
MGAN3FMPH080	80	40	14	10	24	18	26	3	M5	130
MGAN3FMPH100	100	44	15	10	28	22	29	3	M5	200
MGAN3FMPH125	125	48	16	10	32	26	30	3	M6	280
MGAN3FMPH140	140	54	17	10	34	26	35	3	M6	400
MGAN3FMPH160	160	57	18	10	36	28	36	3	M8	440
MGAN3FMPH200	200	64	22	12	38	30	42	3	M10	670
MGAN3FMPH250	250	66	26	15	44	36		5	M10	980

• **REVOLVING GRIP** – Nylon 6, Black • **SCREW** – Steel, Trivalent Chromium Plated

Catalog Number	B	M	L _m	d	G	Weight g	Applicable Model
MHAN4MMGTR1805	18	M5	10	12	50	25	MGAN3FMPH80, MGAN3FMPH100
MHAN4MMGTR1906	19	M6	13	13	65	30	MGAN3FMPH125, MGAN3FMPH140
MHAN4MMGTR2408	24	M8	15	17	80	60	MGAN3FMPH160
MHAN4MMGTR2810	28	M10	20	20	95	100	MGAN3FMPH200, MGAN3FMPH250



2



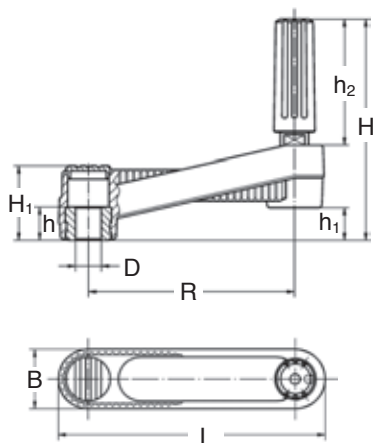
• **CRANK** – Nylon 6, Glass Filled, Black • **HUB** – Steel, Zinc Plated • **REVOLVING HANDLE** – Bakelite, Black

Catalog Number	R	L	H	H ₁	h	h ₁	D	d	Weight g
MGAX9FM4001	100	124	101	39	35	27	25	10	160
MGAX9FM4002								12	150
MGAX9FM4003								14	140
MGAX9FM4004	80	103	100	39	35	26	25	10	150
MGAX9FM4005								12	140
MGAX9FM4006								14	130

HAND CRANK

RoHS
COMPLIANT

2



• CHARACTERISTICS

These attractive hand cranks are ergonomically designed to perform in any application offering strength, durability, and precision performance.

• NOTE

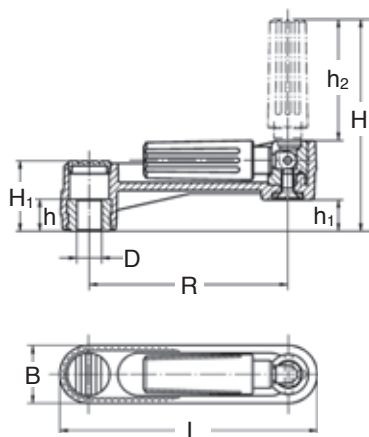
The hub cover is supplied unassembled and snaps into place within seconds to hide the base assembly. These hand cranks can be secured to a shaft by: keyway, cross-pinning and set screw or socket hex nut and washer for threaded shaft applications.

• **CRANK** – Thermoplastic, Anthracite Gray • **HUB** – Steel, Black Oxide Finish

• **REVOLVING HANDLE** – Thermoplastic, Anthracite Gray

Catalog Number	Size	R	L	H	H ₁	h	h ₁	h ₂	B	D	Approx. Weight g
MGAL65M003108	1	80	104	85.5	29	13	13	49	24	8	110
MGAL65M003210	2	100	129	105	36		16	59.5	29	10	210
MGAL65M003212										12	
MGAL65M003312	3	125	161	140	44	18.5	19.5	83.5	36	12	405

All Metric Small Parts • All Metric Small Parts • All Metric Small Parts • All Metric Small Parts • All Metric Small Parts • All Metric Small Parts



• **CRANK** – Thermoplastic, Anthracite Gray • **HUB** – Steel, Black Oxide Finish

• **FOLDAWAY HANDLE** – Thermoplastic, Anthracite Gray

Catalog Number	Size	R	L	H	H ₁	h	h ₁	h ₂	B	D	Approx. Weight g
MGAL65M001108	1	80	104	85.5	29	13	13	49	24	8	100
MGAL65M001210	2	100	129	105	36		16	59.5	29	10	190
MGAL65M001212										12	
MGAL65M001312	3	125	161	140	44	18.5	19.5	83.5	36	12	370



Fig. 1

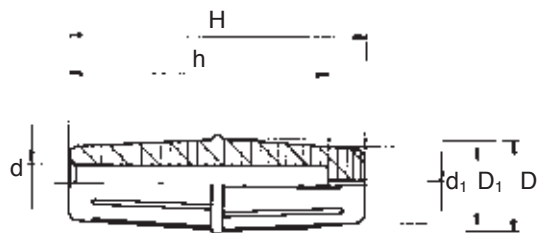


Fig. 1

Fig. 2



Fig. 3

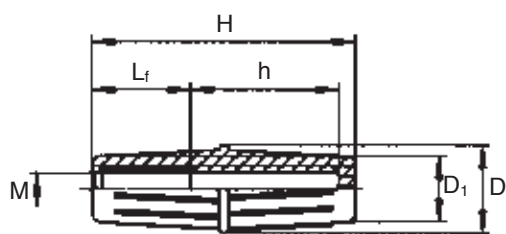


Fig. 2

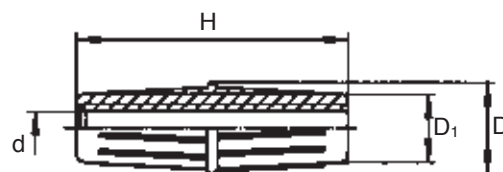


Fig. 3

Fig. 1 • GRIP – Bakelite, Black • BLIND HOLE

Catalog Number	D	D ₁	H	d ± 0.1	d ₁	h	Weight g
MHAX1FM1401	27	20	80	9.9	2	70	36
MHAX1FM1402	32	25	90	11.9	3	80	60
MHAX1FM1403	38	28	100	13.9	3	90	88

Fig. 2 • GRIP – Bakelite, Black • THREADED HOLE WITHOUT INSERT

Catalog Number	D	D ₁	H	L _f	h	M	Weight g
MHAX1FM1404	32	25	90	30	55	M16 X 1	55

Fig. 3 • GRIP – Bakelite, Black • THROUGH HOLE

Catalog Number	D	D ₁	H	d ± 0.1	Weight g
MHAX1FM1405	38	28	100	13.9	88

Fig. 1 • GRIP – Reinforced Bakelite, Black • BLIND HOLE

Catalog Number	D	D ₁	H	d ± 0.1	d ₁	h	Weight g
MHAX1FM1496	27	20	80	9.9	2	70	36
MHAX1FM1497	32	25	90	11.9	3	80	60
MHAX1FM1498	38	28	100	13.9	3	90	88

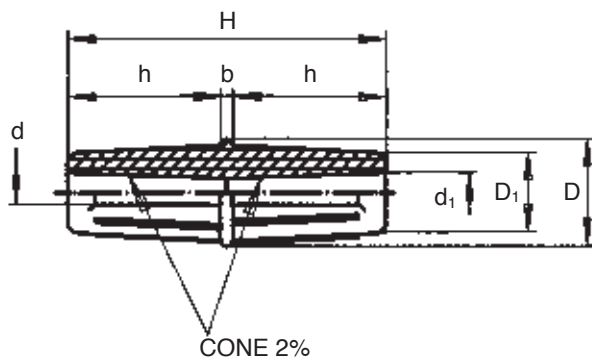


Fig. 1

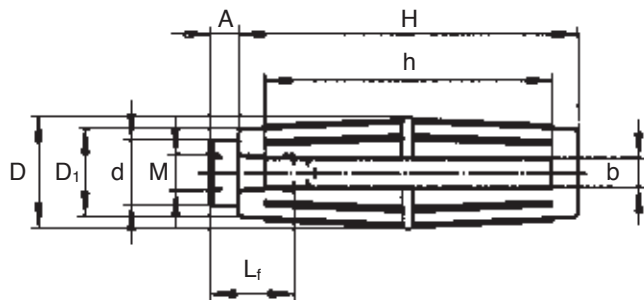


Fig. 2

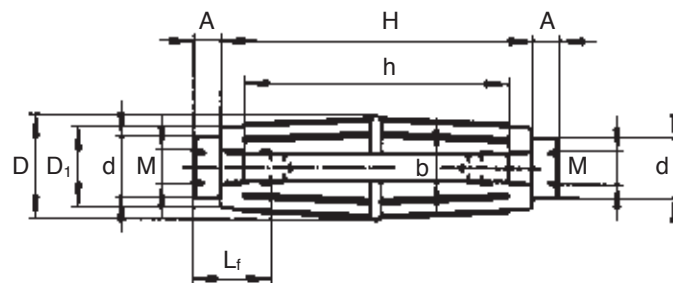


Fig. 3

Fig. 1 • GRIP – Bakelite, Black • THROUGH HOLE

Catalog Number	D	D ₁	H	d	d ₁	h	b	Weight g
MHAX1FM3501	13	10	50	4	4	22	1.5	5
MHAX1FM3504	26	19	85	6	12	36	2	34
MHAX1FM3507	32	25	90	8	17	38	2	50

Fig. 2 • GRIP – Bakelite, Black • THREADED HOLE WITHOUT INSERT

Catalog Number	D	D ₁	H	d _(0,-0.3)	L _f
MHAX1FM3505	34	29	111	18	30

Catalog Number	h	A	b	M	Weight g
MHAX1FM3505	91	11	8	M10	120

Fig. 3 • GRIP – Bakelite, Black
• THREADED HOLES, BOTH SIDES WITHOUT INSERT

Catalog Number	D	D ₁	H	d _(0,-0.3)	L _f
MHAX1FM3506	34	29	111	18	30

Catalog Number	h	A	b	M	Weight g
MHAX1FM3506	91	11	8	M10	122

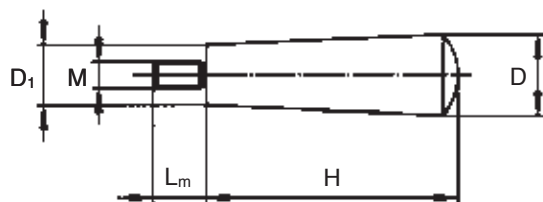


Fig. 1

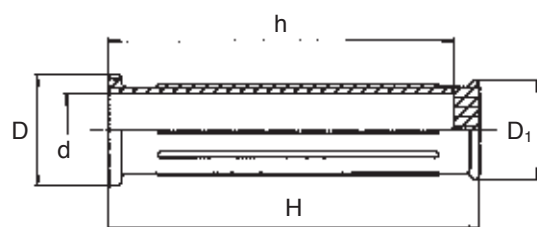


Fig. 2

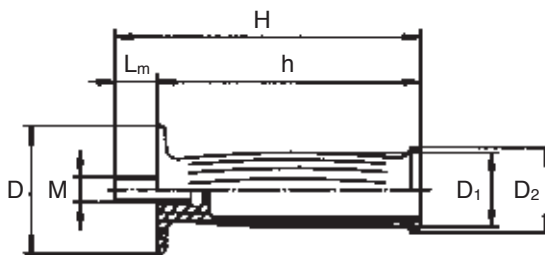


Fig. 3

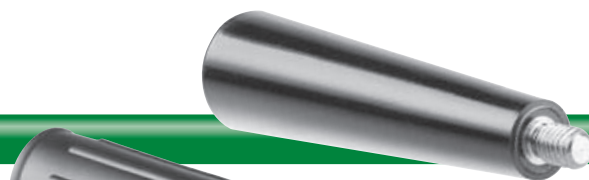


Fig. 1

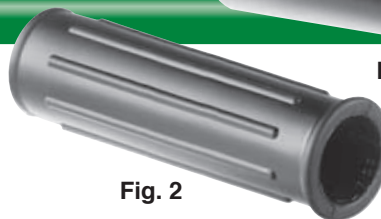


Fig. 2

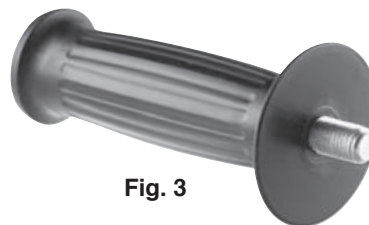


Fig. 3

Fig. 1 • **GRIP** – Bakelite, Black • **SCREW** – Steel, Zinc Plated

Catalog Number	D	D ₁	H	L _m	M	Weight g
MHAX2MM1406	12	9	40	8	M4	9
MHAX2MM1407				7	M5	
MHAX2MM1408	15	11	50	8	M6	18
MHAX2MM1409				7	M5	30
MHAX2MM1410	18	13	64	8	M6	27
MHAX2MM1411	21	15	72	10	M6	44
MHAX2MM1412					M8	55
MHAX2MM1413	25	17	90	10	M8	70

Fig. 2 • **GRIP** – Polyvinyl Chloride, Black • **BLIND HOLE**

Catalog Number	D	D ₁	H	d	h	Weight g
MHAX2FM1421	35	31	117	27	105	32

Fig. 3 • **GRIP** – Nylon 6, Black • **SCREW** – Steel, Zinc Plated

Catalog Number	D	D ₁	D ₂	H	L _m	h	M	Weight g
MHAX2MM1422	60	35	40	147	20	127	M12	110

GRIPS, STATIONARY

RoHS
COMPLIANT

2

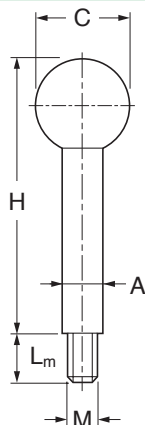


Fig. 1

Ball Knobs

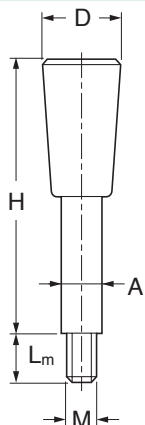


Fig. 2

Taper Knobs

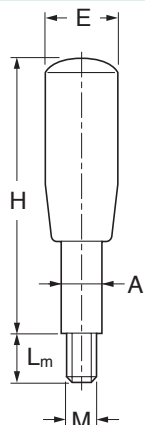


Fig. 3

Cylindrical Knobs

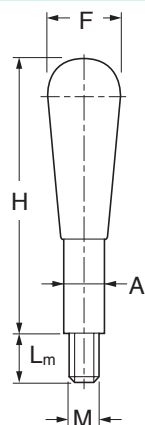


Fig. 4

Ellipse Knobs



Fig. 1

Fig. 3

• **GRIP** – Bakelite, Black • **SCREW** – Steel, Matte Silver

Catalog Number		A	M	C	D	L _m	H
Fig. 1	Fig. 2						
MHAH0MM116006063	MHAH1MM116106063						63
MHAH0MM116006080	MHAH1MM116106080	8	M6	22	16	9	80
MHAH0MM116006100	MHAH1MM116106100						100
MHAH0MM116008080	MHAH1MM116108080						80
MHAH0MM116008100	MHAH1MM116108100	10	M8	27	20	11	100
MHAH0MM116008125	MHAH1MM116108125						125
MHAH0MM116010100	MHAH1MM116110100						100
MHAH0MM116010125	MHAH1MM116110125	12	M10	34	25	14	125
MHAH0MM116010160	MHAH1MM116110160						160
MHAH0MM116012125	MHAH1MM116112125						125
MHAH0MM116012160	MHAH1MM116112160	14	M12	35	32	16	160
MHAH0MM116012200	MHAH1MM116112200						200
MHAH0MM116014160	MHAH1MM116114160						160
MHAH0MM116014200	MHAH1MM116114200	16	M14	40	40	18	200
MHAH0MM116014250	MHAH1MM116114250						250

Catalog Number		A	M	E	F	L _m	H
Fig. 3	Fig. 4						
MHAH2MM116206063	MHAH3MM116306063						63
MHAH2MM116206080	MHAH3MM116306080	8	M6	18	22	9	80
MHAH2MM116206100	MHAH3MM116306100						100
MHAH2MM116208080	MHAH3MM116308080						80
MHAH2MM116208100	MHAH3MM116308100	10	M8	21	25	11	100
MHAH2MM116208125	MHAH3MM116308125						125
MHAH2MM116210100	MHAH3MM116310100						100
MHAH2MM116210125	MHAH3MM116310125	12	M10	23	30	14	125
MHAH2MM116210160	MHAH3MM116310160						160
MHAH2MM116212125	MHAH3MM116312125						125
MHAH2MM116212160	MHAH3MM116312160	14	M12	26	35	16	160
MHAH2MM116212200	MHAH3MM116312200						200
MHAH2MM116214160							160
MHAH2MM116214200	—	16	M14	28	—	18	200
MHAH2MM116214250							250

GRIPS, STATIONARY

RoHS
COMPLIANT

2

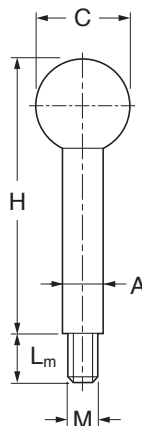


Fig. 1

Ball Knobs

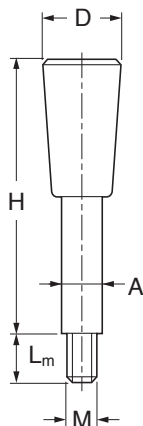


Fig. 2

Taper Knobs

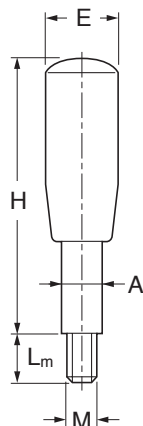


Fig. 3

Cylindrical Knobs

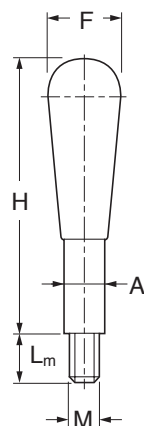


Fig. 4

Ellipse Knobs

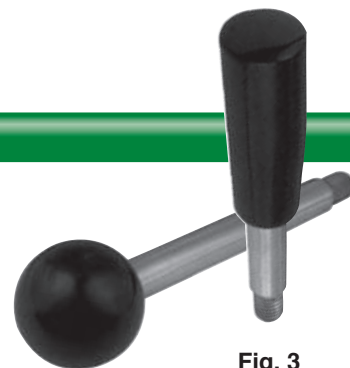


Fig. 1

Fig. 3

• **GRIP** – Bakelite, Black • **SCREW** – Stainless Steel

Catalog Number		A	M	C	D	L _m	H
Fig. 1	Fig. 2						
MHAH4MM117006063	MHAH5MM117106063						63
MHAH4MM117006080	MHAH5MM117106080	8	M6	22	16	9	80
MHAH4MM117006100	MHAH5MM117106100						100
MHAH4MM117008080	MHAH5MM117108080						80
MHAH4MM117008100	MHAH5MM117108100	10	M8	27	20	11	100
MHAH4MM117008125	MHAH5MM117108125						125
MHAH4MM117010100	MHAH5MM117110100						100
MHAH4MM117010125	MHAH5MM117110125	12	M10	34	25	14	125
MHAH4MM117010160	MHAH5MM117110160						160
MHAH4MM117012125	MHAH5MM117112125						125
MHAH4MM117012160	MHAH5MM117112160	14	M12	35	32	16	160
MHAH4MM117012200	MHAH5MM117112200						200
MHAH4MM117014160	MHAH5MM117114160						160
MHAH4MM117014200	MHAH5MM117114200	16	M14	40	40	18	200
MHAH4MM117014250	MHAH5MM117114250						250

Catalog Number		A	M	E	F	L _m	H
Fig. 3	Fig. 4						
MHAH6MM117206063	MHAH7MM117306063						63
MHAH6MM117206080	MHAH7MM117306080	8	M6	18	22	9	80
MHAH6MM117206100	MHAH7MM117306100						100
MHAH6MM117208080	MHAH7MM117308080						80
MHAH6MM117208100	MHAH7MM117308100	10	M8	21	25	11	100
MHAH6MM117208125	MHAH7MM117308125						125
MHAH6MM117210100	MHAH7MM117310100						100
MHAH6MM117210125	MHAH7MM117310125	12	M10	23	30	14	125
MHAH6MM117210160	MHAH7MM117310160						160
MHAH6MM117212125	MHAH7MM117312125						125
MHAH6MM117212160	MHAH7MM117312160	14	M12	26	35	16	160
MHAH6MM117212200	MHAH7MM117312200						200
MHAH6MM117214160							160
MHAH6MM117214200	—	16	M14	28	—	18	200
MHAH6MM117214250							250

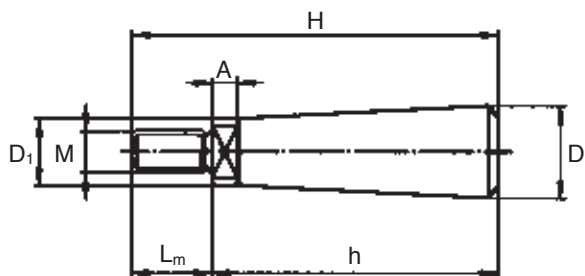


Fig. 1

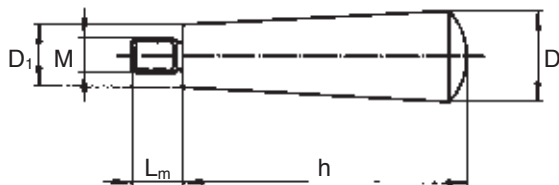


Fig. 2

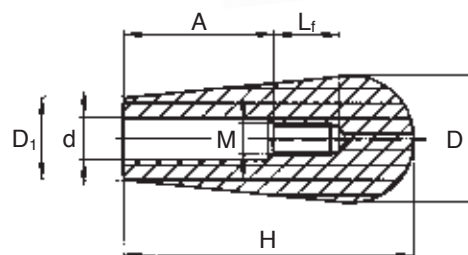


Fig. 3

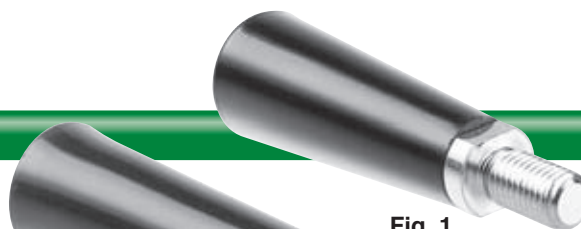


Fig. 1

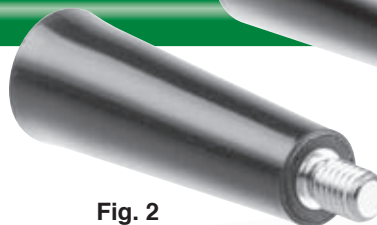


Fig. 2



Fig. 3

Fig. 1 • **REVOLVING GRIP** – Bakelite, Black • **SCREW** – Steel, Zinc Plated

Catalog Number	D	D ₁	H	L _m	h	A	M	Weight g
MHAX3MM1414	18	13	73	16	57	5	M8	34
MHAX3MM1415	23	16	89	20	69	5	M10	67
MHAX3MM1425	28	20	121	25	96	5	M10	110
MHAX3MM1426							M12	115

Fig. 2 • **GRIP** – Polypropylene, Black • **SCREW** – Steel, Zinc Plated

Catalog Number	D	D ₁	h	L _m	M	Weight g
MHAX3MM1417	16	11	50	9	M6	19

Fig. 3 • **GRIP** – Bakelite, Black • **THREADED HOLE WITHOUT INSERT**

Catalog Number	D	D ₁	H	d	L _f	A	M	Weight g
MHAX3FM4301	25	16	58	8	14	29	M6	25
MHAX3FM4302	30	19	70	10	17	35	M8	42
MHAX3FM4303	35	22	81	12	22	41	M10	67



Fig. 1

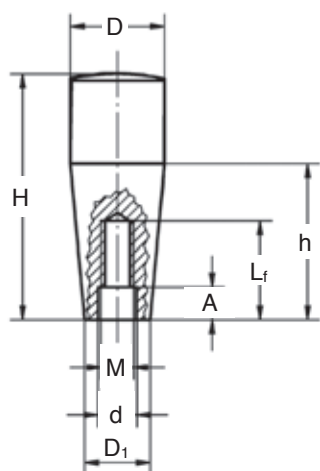


Fig. 2

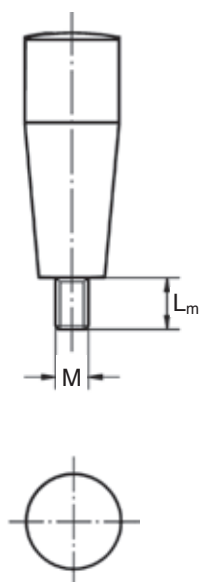


Fig. 3

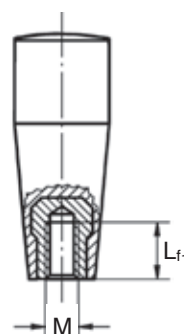


Fig. 1 • **GRIP** – Bakelite, Black • **PRESS FIT THREADED INSERT** – Galvanized Steel

Fig. 2 • **GRIP** – Bakelite, Black • **THREADED INSERT** – Steel, Copper Plated* or Brass*

Fig. 3 • **GRIP** – Bakelite, Black • **SCREW** – Galvanized Steel

Catalog Number			D	D ₁	H	d	L _r	L _{r1}	L _m	h	A	M
Fig. 1	Fig. 2	Fig. 3										
—	MHAL63M20205**	—	17	15	45	—	—	10	—	26	—	M5
MHAL63M20106	MHAL63M20206**	MHAL63M20306		13		6.2	14	9	18		2	M6
MHAL63M20108	—	—				8.2	16	—	—		2	
MHAL63M201081	MHAL63M20208*	MHAL63M20308	23	18	60	8.5	24	14	12	38	8	M8
—	MHAL63M202081*	—	28			—	—		—		—	
MHAL63M20110	—	MHAL63M20310	29	21	70	10.5	28	—	20	42	10	M10

*Bushing in copper plated steel

**Bushing in brass

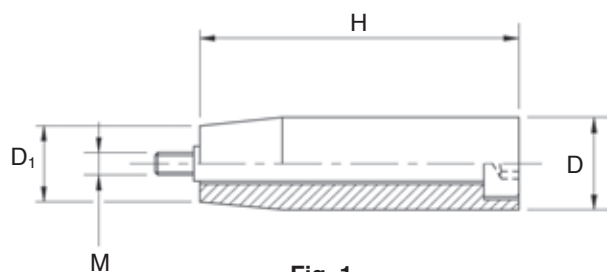


Fig. 1

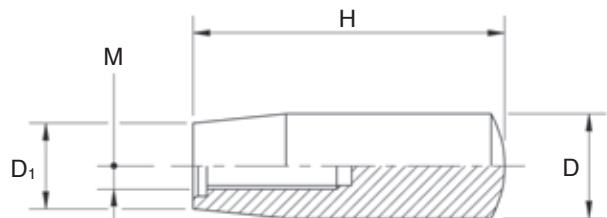


Fig. 2

**SOCKET
HEAD
SCREW**

**SLOTTED
HEAD
SCREW**



Fig. 1



Fig. 2

Fig. 1 • REVOLVING GRIP – Bakelite, Black • **SCREW** – Steel, Zinc plated

Catalog Number	D	D ₁	H	M	Screw
MHAY3MM201E05	20	16	37	M6	Socket
MHAY3MM201E10	21	15	48		Slotted
MHAY3MM201E15	23	17	63	M8	Slotted
MHAY3MM201E20	26	19	78	M10	Socket
MHAY3MM201E25	28	20	85		

Fig. 2 • STATIONARY GRIP – Bakelite, Black
• **THREADED HOLE WITHOUT INSERT**

Catalog Number	D	D ₁	H	M
MHAY3FM201G05	21	15	50	M6
MHAY3FM201G10				M8
MHAY3FM201G15				M10
MHAY3FM201G20	23	17	65	M8
MHAY3FM201G25				M10
MHAY3FM201G30	26	19	80	M10
MHAY3FM201G35				M12
MHAY3FM201G40	28	20	90	M10
MHAY3FM201G45				M12

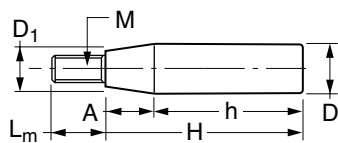


Fig. 1

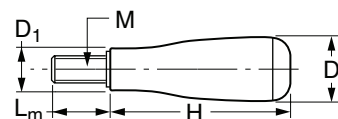


Fig. 2

Fig. 1



Fig. 2

Fig. 1 • **STATIONARY GRIP** – Stainless Steel

Catalog Number	D	D ₁	H	L _m	h	A
MHAN3MMGSS05	10	8	40	6	30	10
MHAN3MMGSS06	13	10	50	7	37	13
MHAN3MMGSS08	16	12	64	8	49	15
MHAN3MMGSS10	20	15	70	10	50	20

Catalog Number	M	Weight g	Applicable Model
MHAN3MMGSS05	M5	25	MGAN2FMHSM80, MGAN2FMHSM100
MHAN3MMGSS06	M6	50	MGAN2FMHSM125, MGAN2FMHSM140
MHAN3MMGSS08	M8	100	MGAN2FMHSM160
MHAN3MMGSS10	M10	150	MGAN2FMHSM200, MGAN2FMHSM250

Fig. 2 • **REVOLVING GRIP** – Nylon 6, Black • **SCREW** – Steel, Trivalent Chromium Plated

Catalog Number	D	D ₁	H	L _m	M	Weight g	Applicable Model
MHAN4MMGTR1805	18	12	50	10	M5	25	MGAN3FMPH80, MGAN3FMPH100
MHAN4MMGTR1906	19	13	65	13	M6	30	MGAN3FMPH125, MGAN3FMPH140
MHAN4MMGTR2408	24	17	80	15	M8	60	MGAN3FMPH160
MHAN4MMGTR2810	28	20	95	20	M10	100	MGAN3FMPH200, MGAN3FMPH250

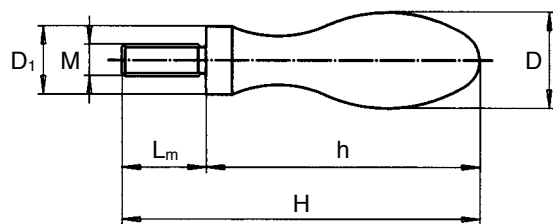


Fig. 1

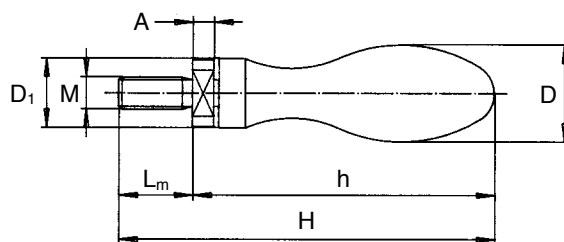


Fig. 2

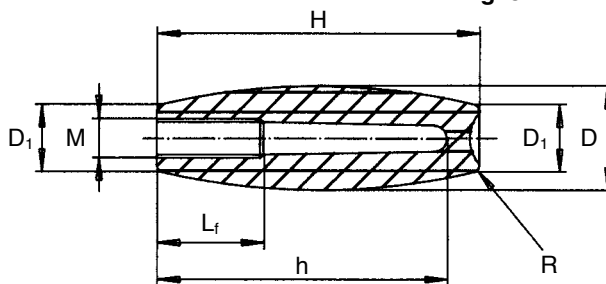


Fig. 3

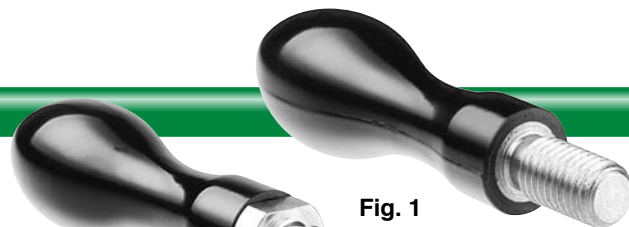


Fig. 1

Fig. 2

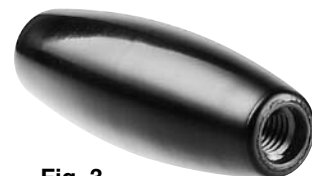


Fig. 3

Fig. 1 • GRIP – Bakelite, Black • SCREW – Steel, Zinc Plated

***GRIP – Nylon 6, Black • SCREW – Steel, Zinc Plated**

Catalog Number	D	D ₁	H	L _m	h	M	Weight g
MHAX4MM2201	23	14	80	12	68	M8	35
MHAX4MM2203	28	20	101	20	81	M10	50
MHAX4MM2204	28	20	106	25	81	M12	78
*MHAX4MM2210	20	13	77	13	64	M8	42

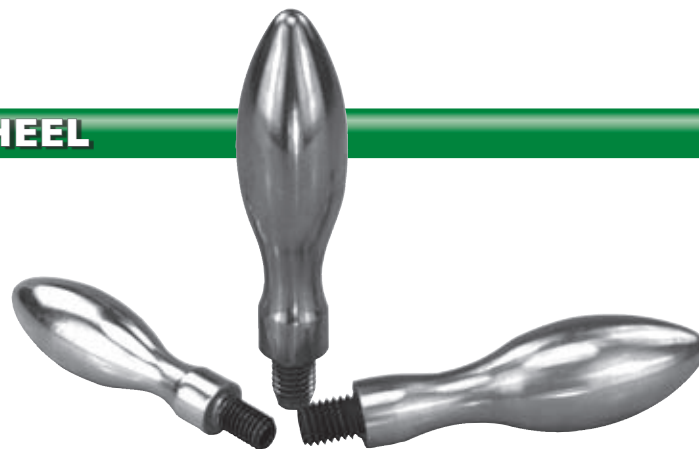
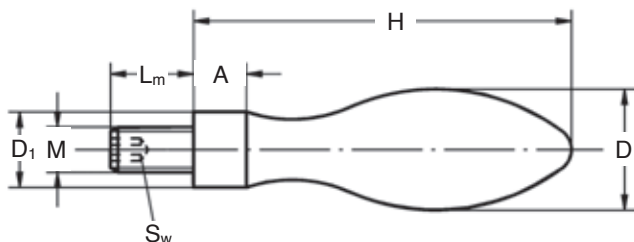
Fig. 2 • REVOLVING GRIP – Bakelite, Black • SCREW – Steel, Zinc Plated

Catalog Number	D	D ₁	H	L _m	h	A	M	Weight g
MHAX4MM2301	18	13	74	16	58	5	M8	32
MHAX4MM2302	22	16	88	20	68	5	M10	60
MHAX4MM2303	28	20	111	25	86	5	M10	93
MHAX4MM2304	28	20	111	25	86	5	M12	98
MHAX4MM2305	14	10	60	14	46	3.6	M6	15

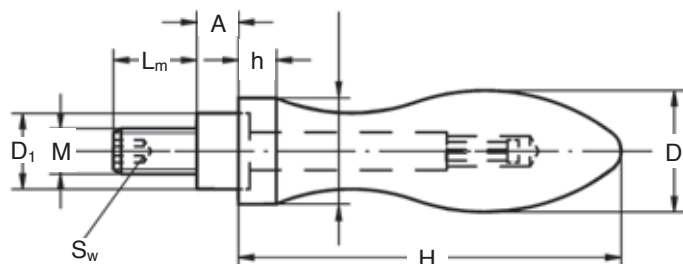
Fig. 3 • GRIP – Bakelite, Black • THREADED HOLE WITHOUT INSERT

Catalog Number	D	D ₁	H	L _f	h	R	M	Weight g
MHAX4FM4401	16	10	50	16	45	2	M6	10
MHAX4FM4402	20	13	60	20	52	2.5	M8	20
MHAX4FM4403	25	19	75	26	67	3	M10	40
MHAX4FM4404	30	20	90	30	80	3.5	M12	67
MHAX4FM4405	35	24	100	35	90	4	M14	97

Stationary Grips



Revolving Grips

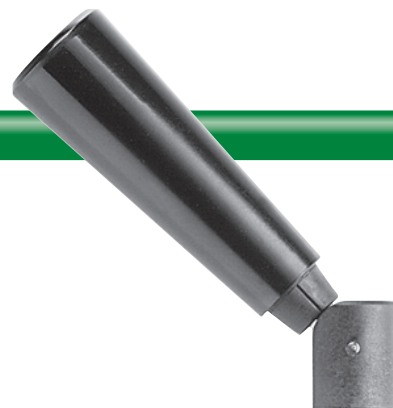


• **STATIONARY GRIP** – Steel or Aluminum, Polished • **SCREW** – Steel, Black Oxide Finish • DIN 39 Style E

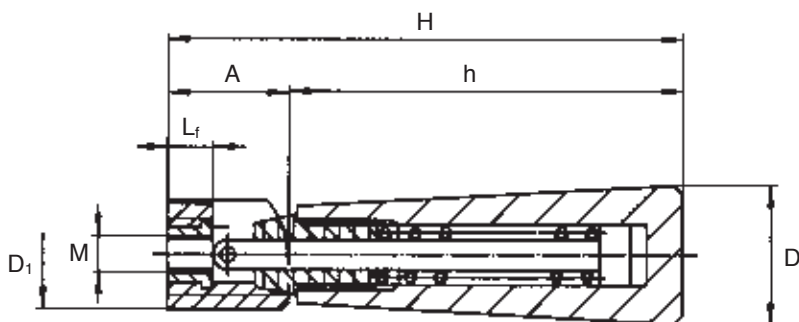
Catalog Number		D	D ₁	H	L _m	A	S _w	M	Approx. Weight g	
Steel	Aluminum								Steel	Alum.
MHAL62M910616050	MHAL62M920616050	16	10	50	11	7	3	M6	45	20
MHAL62M910820064	MHAL62M920820064	20	13	64	13	8	4	M8	90	35
MHAL62M911025080	MHAL62M921025080	25	16	80	14	10	5	M10	180	75
MHAL62M911232100	MHAL62M921232100	32	20	100	21	13	6	M12	360	130
MHAL62M911636112	MHAL62M921636112	36	22	112	26	14	8	M16	525	210

• **REVOLVING GRIP** – Steel or Aluminum, Polished • **SCREW** – Galvanized Steel, Blue Chromated • DIN 98 Style E

Catalog Number		D	D ₁	D ₂	H	L _m	h	A	S _w	M	Approx. Weight g	
Steel	Aluminum										Steel	Alum.
MHAL63M080616055	MHAL63M080616055	16	10	14	49	11	5	5.5	3	M6	55	35
MHAL63M080820067	MHAL63M080820067	20	13	18	61	13	6	6	4	M8	105	55
MHAL63M081025083	MHAL63M081025083	25	16	21	75	14	6.5	8	5	M10	190	95
MHAL63M081232105	MHAL63M081232105	32	20	26	95	21	8	10.5	6	M12	390	195
MHAL63M081636117	MHAL63M081636117	36	22	29	106	26	9	11	8	M16	550	280



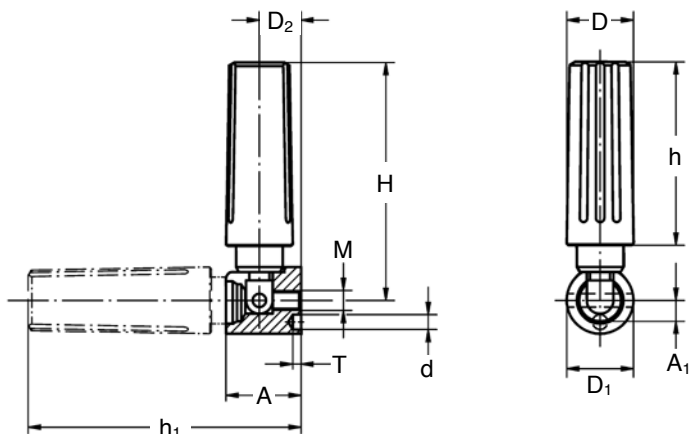
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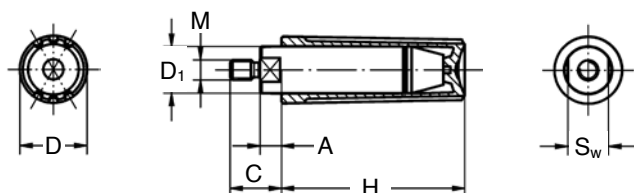
• **REVOLVING GRIP** – Bakelite, Black • **THREADED INSERT** – Brass

Catalog Number	D	D ₁	H	L _r	h	A	M	Weight g
MHAX5FM1423	23	18	85	7	65	20	M6	52

Foldaway Grips



Revolving Grips



• CHARACTERISTICS

These grips are ergonomically designed with great versatility. Engineered for strength, durability and precision performance.

• NOTE

Revolving grips are supplied assembled and can be fitted to handwheels, cranks or any other operating element. Hole d in Foldaway Grips is used for positioning.

• REVOLVING GRIP – Thermoplastic, Anthracite Gray • SCREW – Steel, Black Oxide Finish

Catalog Number	D	D ₁	H	C	A	S _w	M	Approx. Weight g
MHAL63M25104	13	9	35	11	5	8	M4	13.3
MHAL63M25205	16	11	44	13	5.5	10	M5	25
MHAL63M25306	20	14	55	14	5	12	M6	50
MHAL63M25408	25	18	70.5	25	13	15	M8	102.8

• FOLDAWAY GRIP – Thermoplastic, Anthracite Gray • THREADED INSERT – Steel, Black Oxide Finish

Catalog Number	D	D ₁	D ₂	H	d	h	h ₁	A	A ₁	T	M	Approx. Weight g
MHAL63M26104	13	13	8	47	2.5	35	54.5	14.5	4.3	4.5	M4	28
MHAL63M26205	16	16	10	58	3.5	44	67	18	5.3	4.5	M5	51
MHAL63M26306	20	20	12.5	71.5	4.5	55	82	22.5	6.5	6	M6	101
MHAL63M26408	25	26	16	98.5	5.5	70.5	112.5	29	9	6.5	M8	225