



E
05

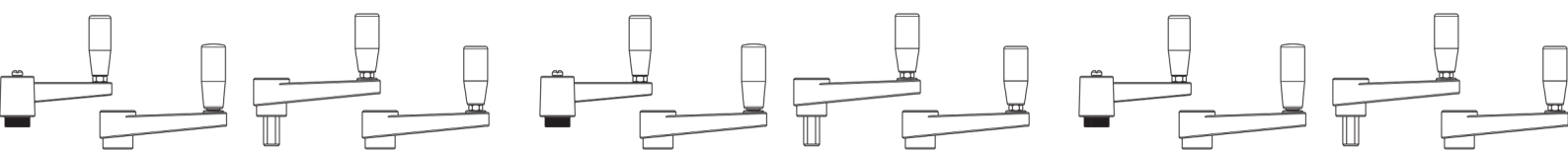


GROUP - 05

FIXED AND INDEXED CRANK HANDLES

BOTECO Fixed and Indexed Crank Handles

Boteco offers a wide variety of fixed and indexed crank handles: with revolving or folding handles, or threaded or smooth holes, all top quality products made from high grade materials. Most of the models can be easily customized by the addition of a coloured cap or a pad-printed logo or word. For detailed information on the specifications of each individual product please consult the technical sheet.



E215

CRANKHANDLE WITH THREADED INSERT AND REVOLVING HANDLE



Material:

Reinforced polyamide.

Resistant to oils and greases.

Surface finish:

Satin.

Colour:

Black (RAL9011).

Central cap:

Greypolyamide(RAL 7035). 13).

Alternative Cap colours:

Orange (RAL 2004 code 02).

Red (RAL 3000 code 16).

Blue (RAL 5015 code 07).

Green (RAL 6024 code 17).

Yellow (RAL 1021 code 10).

Black (RAL 9011 code 01).

Inserts:

Brassinsert with female threaded hole

(thread tolerance 6H). (*) Galvanised steel

insert with female threaded hole (thread tolerance 6H).

Lateral insert:

Brass insert with threaded through hole.

Lateral handle:

E215: Revolving handle art. M144 page (504).

E219: Revolving handle art. M129 page (505).

E220: Revolving handle art. M145 page (509).

Special requests:

• Upon request and for special quantities inserts can be supplied in different materials.

• Upon request and for special quantities available in the colours indicated in the chart [page 959].



Code	Art.	L	R	H	D	d	m	c	A	B	h	d3	h3	d1 _{6H}	Q	dl	L1	g
E215065.0002	E215065.TM0801	88,5	65	30	27,5	22	17	13	20	9,5	8	14,5	10	M8	13	19	54	67
E215065.0005	E 215 0 65 .T M10	88,5	65	30	27,5	22	17	13	20	9,5	8	14,5	10	M10	13	19	54	70
E215065.0007	01	88,5	65	30	27,5	22	17	13	20	9,5	8	14,5	10	M12	13	19	54	73
E215080.0003	E215065.TM1201	107	80	33,5	32	26	20,5	13	23	11	9	19,5	9,5	M8	13	19	54	83
E215080.0004	E215080.TM0801	107	80	33,5	32	26	20,5	13	23	11	9	19,5	9,5	M10	13	19	54	87
E215080.0008	E215080.TM1001	107	80	33,5	32	26	20,5	13	23	11	9	19,5	9,5	M12	13	19	54	90
E215110.0003	E215080.TM1201	140	110	39	35	29	25	14	24	12	11	19,5	11	M10	13	21	66	135
E215110.0005	E 21 5110 .T M10	140	110	39	35	29	25	14	24	12	11	19,5	11	M12	17	21	66	137
E215110.0007	0	1	140	110	39	35	29	14	24	12	11	19,5	11	M14	17	21	66	140
E215140.0002	E215110.TM1201	175	140	49	44	35,5	32	17	27	13	15,5	24	19	M12	17	23,5	76,5	238
E215140.0005	E 21 5110 .T M14	175	140	49	44	35,5	32	17	27	13	15,5	24	19	M14	17	23,5	76,5	223
E215140.0006	0	1	175	140	49	44	35,5	32	17	27	13	15,5	24	(*) M16	17	23,5	76,5	251
E215185.0001	E215140.TM1201	223	185	55	47,5	40	38,5	16,5	27	14	17	29,5	21	M12	17	25,5	87	312
E215185.0003	E215140.TM1401	223	185	55	47,5	40	38,5	16,5	27	14	17	29,5	21	M14	17	25,5	87	320
E215185.0004	E215140.TM1601	223	185	55	47,5	40	38,5	16,5	27	14	17	29,5	21	(*) M16	17	25,5	87	331
	E215185.TM1201																	
	E215185.TM1401																	
	E215185.TM1601																	

E216



PA6
+G.F.

UL94
HB

RoHS
COMPLIANT

CRANKHANDLE WITH SMOOTH BORE INSERT AND REVOLVING HANDLE

Material:

Reinforced polyamide.
Resistant to oils and greases.

Surface finish:

Satin.

Colour:

Black (RAL9011).

Central cap:

Greypolyamide(RAL 7035). 13).

Alternative Cap colours:

Orange (RAL 2004 code 02).
Red (RAL 3000 code 16).
Blue (RAL 5015 code 07).
Green (RAL 6024 code 17).
Yellow (RAL 1021 code 10).
Black (RAL 9011 code 01).

Inserts:

Galvanised steel insert with smooth through bore (tolerance H10).

Lateral insert:

Brass insert with threaded through hole.

Lateral handle:

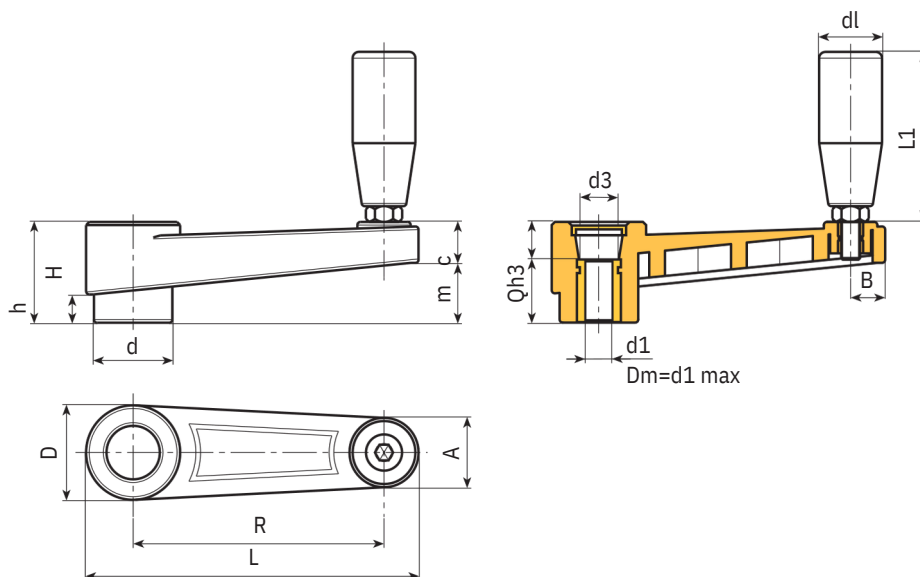
E216: Revolving handle art. M144 page (504).

E221: Revolving handle art. M145 page (509).

E222: Revolving handle art. M129 page (505).

Special requests:

- Upon request and for special quantities inserts can be supplied with custom hole diameter d1.
- Upon request and for special quantities inserts can be supplied in different materials/with different coatings.
- Upon request and for special quantities available in the colours indicated in the chart [page 959].



Code	Art.	L	R	H	D	d	m	c	A	B	h	d3	h3	dm	d1H10	Q	dl	L1	g
E216065.0015	E216065.TP0501	88,5	65	30	27,5	22	17	13	20	9,5	8	14,5	10	12	5	20	19	54	96
E216065.0004	E 216 0 65 .T D10 01	88,5	65	30	27,5	22	17	13	20	9,5	8	14,5	10	12	10	20	19	54	92
E216065.0009	E216065.TD1201	88,5	65	30	27,5	22	17	13	20	9,5	8	14,5	10	12	12	20	19	54	89
E216080.0020	E216080.TP0501	107	80	33,5	32	26	20,5	13	23	11	9	19,5	9,5	14	5	24	19	54	110
E216080.0007	E216080.TD1001	107	80	33,5	32	26	20,5	13	23	11	9	19,5	9,5	14	10	24	19	54	105
E216080.0009	E216080.TD1201	107	80	33,5	32	26	20,5	13	23	11	9	19,5	9,5	14	10	24	19	54	102
E216110.0003	E216110.TD0801	140	110	39	35	29	25	14	24	12	11	19,5	11	14	12	28	21	66	160
E216110.0005	E 216110 .T D10 0 1	140	110	39	35	29	25	14	24	12	11	19,5	11	14	8	28	21	66	152
E216110.0006	E 216110 .T D1 2 0 1	140	110	39	35	29	25	14	24	12	11	19,5	11	14	10	28	21	66	148
E216140.0002	E216140.TD0801	175	140	49	44	35,5	32	17	27	13	15,5	24	19	20	12	30	23,5	76,5	250
E216140.0007	E216140.TD1201	175	140	49	44	35,5	32	17	27	13	15,5	24	19	20	8	30	23,5	76,5	242
E216140.0011	E 21614 0 .T D14 0 1	175	140	49	44	35,5	32	17	27	13	15,5	24	19	20	12	30	23,5	76,5	238
E216140.0017	E 21614 0 .T D16 0 1	175	140	49	44	35,5	32	17	27	13	15,5	24	19	20	14	30	23,5	76,5	232
E 216185 . 0 0 0 1	E216185.TD0801	223	185	55	47,5	40	38,5	16,5	27	14	17	29,5	21	22	16	34	25,5	87	430
E216185.0004	E216185.TD1201	223	185	55	47,5	40	38,5	16,5	27	14	17	29,5	21	22	8	34	25,5	87	400

12

Attention: For a minimum of 50 pieces the diameter d1 can be customised (hole tolerance H10 galvanised and H7 black-oxide treated).
Dm = Maximum obtainable diameter for subsequent machining (widening).



E217

CRANKHANDLE WITH SMOOTH BORE INSERT AND FOLDING HANDLE



Material:

Reinforced polyamide.

Resistant to oils and greases.

Surface finish:

Satin.

Colour:

Black (RAL9011).

Central cap:

Greypolyamide(RAL 7035). 13).

Alternative Cap colours:

Orange (RAL 2004 code 02).

Red (RAL 3000 code 16).

Blue (RAL 5015 code 07).

Green (RAL 6024 code 17).

Yellow (RAL 1021 code 10).

Black (RAL 9011 code 01).

Inserts:

Galvanised steel insert with smooth through bore (tolerance H10).

Lateral insert:

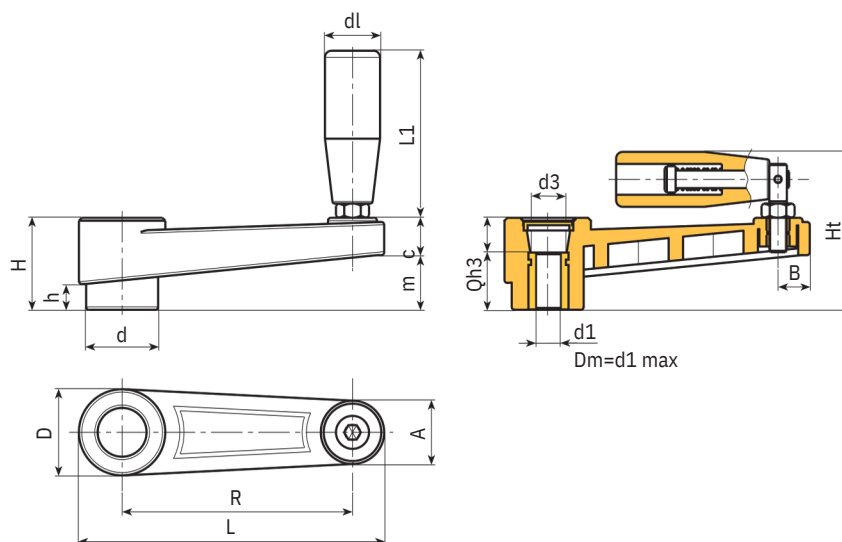
Brassinsert with threaded through hole.

Lateral handle:

Revolving folding handle art. M136 [page 510].

Special requests:

- Upon request and for special quantities inserts can be supplied with custom hole diameter d1.
- Upon request and for special quantities inserts can be supplied in different materials/with different coatings.
- Upon request and for special quantities available in the colours indicated in the chart [page 959].



Code	Art.	L	R	H	Ht	D	md	c	A	B	h	d3	h3	dmd1	H10	Q	dl	L1	g
E 2170 65 . 0 018	E217065.TP0501	88,5	65	30	55	27,5	22 17 13		20	9,5	8	14,5	10	12	5	20	20	54	105
E217065.0006	E217065.TD1001	88,5	65	30	55	27,5	22 17 13		20	9,5	8	14,5	10	12	5	20	20	54	100
E217065.0011	E217065.TD1201	88,5	65	30	55	27,5	22 17 13		20	9,5	8	14,5	10	12	12	20	20	54	97
E217080.0015	E217080.TP0501	107	80	33,5	58	32	26 20,5 13		23	11	9	19,5	9,5	14	5	24	20	54	115
E217080.0003	E 2170 8 0 . T D10 01	107	80	33,5	58	32	26 20,5 13		23	11	9	19,5	9,5	14	10	24	20	54	110
E217080.0007	E217080.TD1201	107	80	33,5	58	32	26 20,5 13		23	11	9	19,5	9,5	14	12	24	20	54	107
E 217110 . 0 0 01	E217110.TD0801	140	110	39	68	35	29 25 14		24	12	11	19,5	11	14	8	28	23,5	76	156
E217110.0008	E 217110 . T D10 0 1	140	110	39	68	35	29 25 14		24	12	11	19,5	11	14	10	28	23,5	76	153
E 217110 . 0 0 10	E 217110 . T D1 2 0 1	140	110	39	68	35	29 25 14		24	12	11	19,5	11	14	12	28	23,5	76	150
E217140.0004	E217140.TD0801	175	140	49	84	44	35,5 32 17		27	13	15,5	24	19	20	8	30	26	89	300
E217140.0007	E217140.TD1201	175	140	49	84	44	35,5 32 17		27	13	15,5	24	19	20	12	30	26	89	245
E217140.0009	E 21714 0 . T D14 0 1	175	140	49	84	44	35,5 32 17		27	13	15,5	24	19	20	14	30	26	89	242
E 21714 0 . 0 013	E 21714 0 . T D16 0 1	175	140	49	84	44	35,5 32 17		27	13	15,5	24	19	20	16	30	26	89	238
E 217185 . 0 0 01	E217185.TD0801	223	185	55	90	47,5			27	14	17	29,5	21	22	8	34	26	97	450
E217185.0004	E217185.TD1201	223	185	55	90	47,5	40 38,5 16,5 40		27	14	17	29,5	21	22	12	34	26	97	445

Attention: For a minimum of 50 pieces the diameter d1 can be customised (hole tolerance H10 galvanised and H7 black-oxide treated).
Dm = Maximum obtainable diameter for subsequent machining (widening).



E218



CRANKHANDLE WITH THREADED INSERT AND FOLDING HANDLE

Material:

Reinforced polyamide.
Resistant to oils and greases.

Surface finish:

Satin.

Colour:

Black (RAL9011).

Central cap:

Greypolyamide(RAL 7035). 13).

Alternative Cap colours:

Orange (RAL 2004 code 02).

Red (RAL 3000 code 16).

Blue (RAL 5015 code 07).

Green (RAL 6024 code 17).

Yellow (RAL 1021 code 10).

Black (RAL 9011 code 01).

Inserts:

Brassinsert with female threaded hole (thread tolerance 6H).

(*) Galvanised steel insert with female threaded hole (thread tolerance 6H).

Lateral insert:

Brassinsertwith threaded through hole.

Lateral handle:

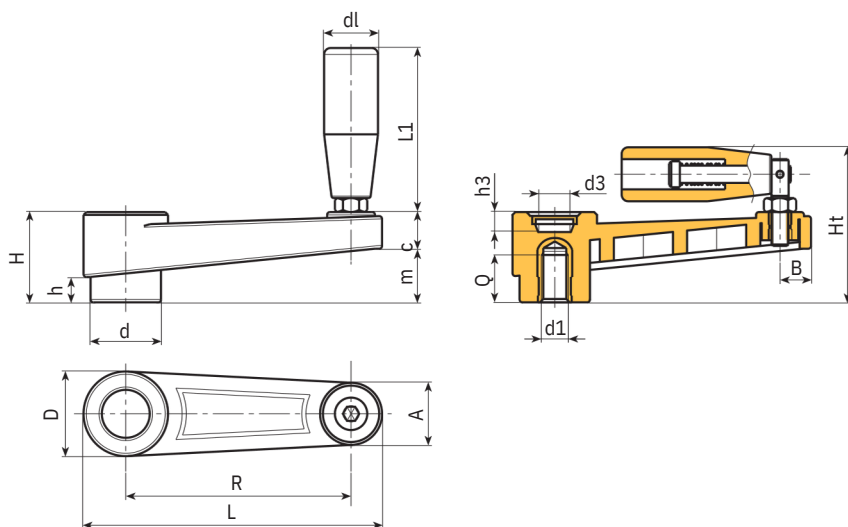
Revolving,folding handle art. M136 [page 510].

Special requests:

- Upon request and for special quantities inserts can be supplied in different materials.
- Upon request and for special quantities available in the colours indicated in the chart [page 959].



05



Code	Art.	L	R	H	Ht	D	d	m	c	A	B	h	d3	h3	d1 _{6H}	Q	dl	L1	g
E218065.0001	E218065.TM0801	88,5	65	30	55	27,5	22	17	13	20	9,5	8	14,5	10	M8	13	20	54	78
E218065.0002	E 218 0 65 .T M10 01	88,5	65	30	55	27,5	22	17	13	20	9,5	8	14,5	10	M10	13	20	54	78
E218065.0004	E218065.TM1201	88,5	65	30	55	27,5	22	17	13	20	9,5	8	14,5	10	M12	13	20	54	83
E218080.0001	E218080.TM0801	107	80	33,5	58	32	26	20,5	13	23	11	9	19,5	9,5	M8	13	20	54	94
E218080.0003	E218080.TM1001	107	80	33,5	58	32	26	20,5	13	23	11	9	19,5	9,5	M10	13	20	54	95
E218080.0004	E218080.TM1201	107	80	33,5	58	32	26	20,5	13	23	11	9	19,5	9,5	M12	13	20	54	100
E218110.0002	E 218110 .T M10 0 1	140	110	39	68	35	29	25	14	24	12	11	19,5	11	M10	13	23,5	76	156
E218110.0004	E 218110 .T M12 0 1	140	110	39	68	35	29	25	14	24	12	11	19,5	11	M12	17	23,5	76	156
E 218110 . 0 0 07	E 218110 .T M14 0 1	140	110	39	68	35	29	25	14	24	12	11	19,5	11	M14	17	23,5	76	156
E218140.0001	E218140.TM1201	175	140	49	84	44	35,5	32	17	27	13	15,5	24	19	M12	17	26	89	274
E218140.0003	E 21814 0 .T M14 0 1	175	140	49	84	44	35,5	32	17	27	13	15,5	24	19	M14	17	26	89	283
E218140.0004	E 21814 0 .T M16 0 1	175	140	49	84	44	35,5	32	17	27	13	15,5	24	19	M16 (*)	17	26	89	290
E218185.0001	E218185.TM1201	223	185	55	90	47,5	40	38,5	16,5	27	14	17	29,5	21	M12	17	26	97	340
E218185.0003	E 21818 5 .T M14 0 1	223	185	55	90	47,5	40	38,5	16,5	27	14	17	29,5	21	M14	17	26	97	345
E218185.0005	E 21818 5 .T M16 0 1	223	185	55	90	47,5	40	38,5	16,5	27	14	17	29,5	21	M16 (*)	17	26	97	360

E219

CRANKHANDLE WITH THREADED INSERT AND REVOLVING HANDLE M129



PA6
+G.F.

UL94
HB

RoHS
COMPLIANT

General features:

All unspecified features are identical to basic item E215.

Inserts:

Brass insert with female threaded hole (thread tolerance 6H).

(*) Galvanised steel insert with female threaded hole (thread tolerance 6H).

Lateral handle:

Revolving handle art. M129 page (505).



05

Code	Art.	L	R	H	D	d	m	c	A	B	h	d3	h3	d16H	Q	dI	L1	g
E219065.0001	E219065.TM0801	89	65	30	27,5	22	17	13	20	9,5	8	14,5	10	M8	13	20	52	79
E219065.0002	E219065.TM1001	89	65	30	27,5	22	17	13	20	9,5	8	14,5	10	M10	13	20	52	82
E219065.0003	E219065.TM1201	89	65	30	27,5	22	17	13	20	9,5	8	14,5	10	M12	13	20	52	85
E219080.0001	E219080.TM0801	107	80	33,5	32	26	20,5	13	23	11	9	19,5	9,5	M8	13	20	52	95
E219080.0002	E219080.TM1001	107	80	33,5	32	26	20,5	13	23	11	9	19,5	9,5	M10	13	20	52	99
E219080.0003	E219080.TM1201	107	80	33,5	32	26	20,5	13	23	11	9	19,5	9,5	M12	13	20	52	102
E219110.0001	E219110.TM1001	140	110	39	35	29	25	14	24	12	11	19,5	11	M10	13	23,5	63	150
E219110.0002	E219110.TM1201	140	110	39	35	29	25	14	24	12	11	19,5	11	M12	17	23,5	63	160
E219110.0003	E219110.TM1401	140	110	39	35	29	25	14	24	12	11	19,5	11	M14	17	23,5	63	165
E219140.0001	E219140.TM1201	175	140	49	44	35,5	32	17	27	13	15,5	24	19	M12	17	25	72	262
E219140.0002	E219140.TM1401	175	140	49	44	35,5	32	17	27	13	15,5	24	19	M14	17	25	72	249
E219140.0003	E219140.TM1601	175	140	49	44	35,5	32	17	27	13	15,5	24	19	(*) M16	17	25	72	275
E219185.0001	E219185.TM1201	223	185	55	47,5	40	38,5	16,5	27	14	17	29,5	21	M12	17	26	82	312
E219185.0002	E219185.TM1401	223	185	55	47,5	40	38,5	16,5	27	14	17	29,5	21	M14	17	26	82	320
E219185.0003	E219185.TM1601	223	185	55	47,5	40	38,5	16,5	27	14	17	29,5	21	(*) M16	17	26	82	331

E220

CRANKHANDLE WITH THREADED INSERT AND REVOLVING HANDLE M145



PA6
+G.F.

UL94
HB

RoHS
COMPLIANT

General features:

All unspecified features are identical to basic item E215.

Inserts:

Brass insert with female threaded hole (thread tolerance 6H).

(*) Galvanised steel insert with female threaded hole (thread tolerance 6H).

Lateral handle:

Revolving handle art. M145 page (509).



Code	Art.	L	R	H	D	d	m	c	A	B	h	d3	h3	d16H	Q	dI	L1	g
E220065.0001	E220065.TM0801	89	65	30	27,5	22	17	13	20	9,5	8	14,5	10	M8	13	20	56	69
E220065.0002	E220065.TM1001	89	65	30	27,5	22	17	13	20	9,5	8	14,5	10	M10	13	20	56	72
E220065.0003	E220065.TM1201	89	65	30	27,5	22	17	13	20	9,5	8	14,5	10	M12	13	20	56	75
E220080.0001	E220080.TM0801	107	80	33,5	32	26	20,5	13	23	11	9	19,5	9,5	M8	13	20	56	85
E220080.0002	E220080.TM1001	107	80	33,5	32	26	20,5	13	23	11	9	19,5	9,5	M10	13	20	56	89
E220080.0003	E220080.TM1201	107	80	33,5	32	26	20,5	13	23	11	9	19,5	9,5	M12	13	20	56	92
E220110.0001	E220110.TM1001	140	110	39	35	29	25	14	24	12	11	19,5	11	M10	13	23,5	68	149
E220110.0002	E220110.TM1201	140	110	39	35	29	25	14	24	12	11	19,5	11	M12	17	23,5	68	151
E220110.0003	E220110.TM1401	140	110	39	35	29	25	14	24	12	11	19,5	11	M14	17	23,5	68	154
E220140.0001	E220140.TM1201	175	140	49	44	35,5	32	17	27	13	15,5	24	19	M12	17	25	77	228
E220140.0002	E220140.TM1401	175	140	49	44	35,5	32	17	27	13	15,5	24	19	M14	17	25	77	213
E220140.0003	E220140.TM1601	175	140	49	44	35,5	32	17	27	13	15,5	24	19	(*) M16	17	25	77	241
E220185.0001	E220185.TM1201	223	185	55	47,5	40	38,5	16,5	27	14	17	29,5	21	M12	17	26	86	304
E220185.0002	E220185.TM1401	223	185	55	47,5	40	38,5	16,5	27	14	17	29,5	21	M14	17	26	86	310
E220185.0003	E220185.TM1601	223	185	55	47,5	40	38,5	16,5	27	14	17	29,5	21	(*) M16	17	26	86	321

E215

CRANKHANDLE WITH THREADED INSERT AND REVOLVING HANDLE



Material:

Reinforced polyamide.

Resistant to oils and greases.

Surface finish:

Satin.

Colour:

Black (RAL9011).

Central cap:

Greypolyamide(RAL 7035). 13).

Alternative Cap colours:

Orange (RAL 2004 code 02).

Red (RAL 3000 code 16).

Blue (RAL 5015 code 07).

Green (RAL 6024 code 17).

Yellow (RAL 1021 code 10).

Black (RAL 9011 code 01).

Inserts:

Brassinsert with female threaded hole

(thread tolerance 6H). (*) Galvanised steel

insert with female threaded hole (thread tolerance 6H).

Lateral insert:

Brass insert with threaded through hole.

Lateral handle:

E215: Revolving handle art. M144 page (504).

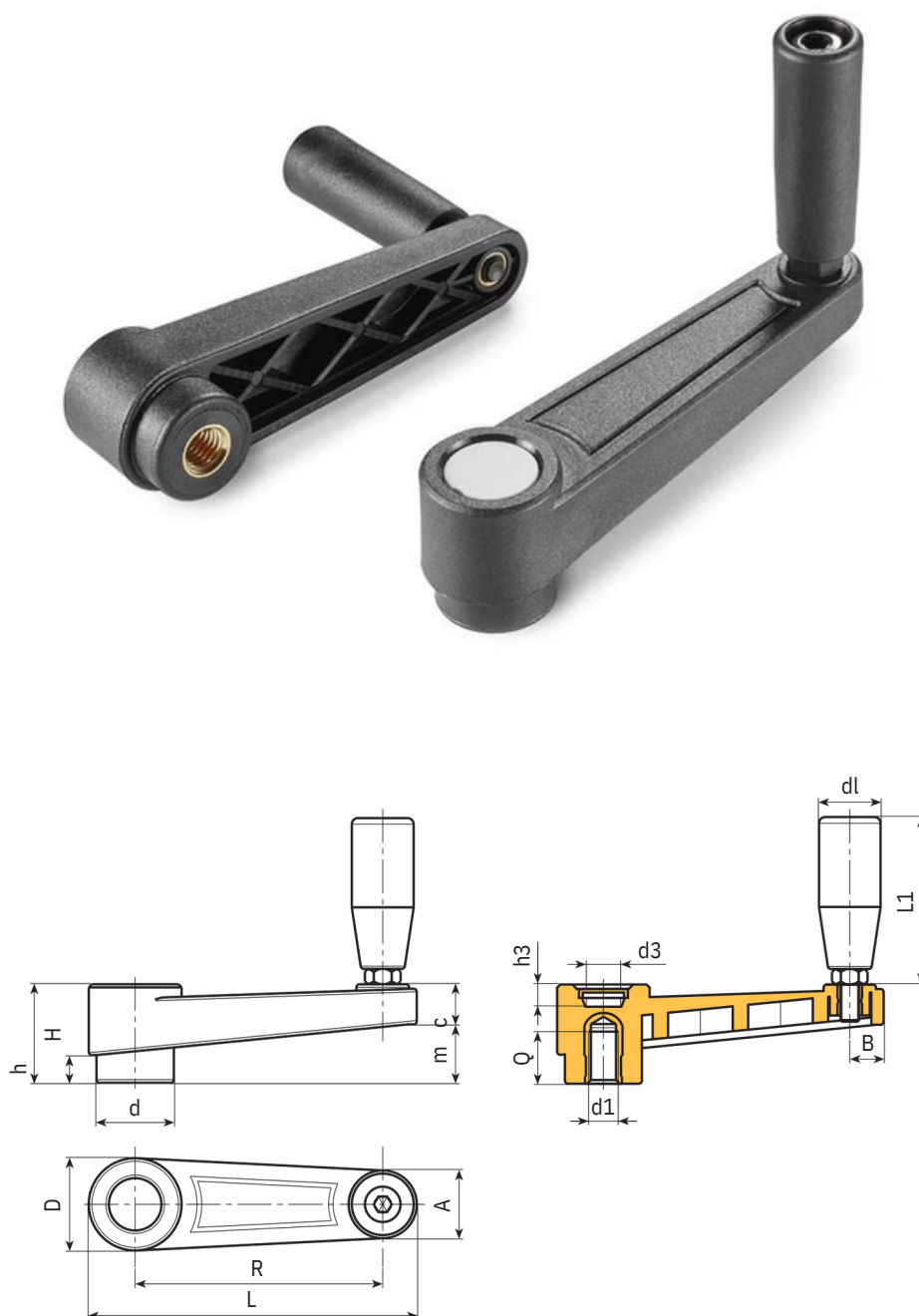
E219: Revolving handle art. M129 page (505).

E220: Revolving handle art. M145 page (509).

Special requests:

- Upon request and for special quantities inserts can be supplied in different materials.

- Upon request and for special quantities available in the colours indicated in the chart [page 959].



Code	Art.	L	R	H	D	d	m	c	A	B	h	d3	h3	d1 _{6H}	Q	dl	L1	g
E215065.0002	E215065.TM0801	88,5	65	30	27,5	22	17	13	20	9,5	8	14,5	10	M8	13	19	54	67
E215065.0005	E 215 0 65 .T M10	88,5	65	30	27,5	22	17	13	20	9,5	8	14,5	10	M10	13	19	54	70
E215065.0007	01	88,5	65	30	27,5	22	17	13	20	9,5	8	14,5	10	M12	13	19	54	73
E215080.0003	E215065.TM1201	107	80	33,5	32	26	20,5	13	23	11	9	19,5	9,5	M8	13	19	54	83
E215080.0004	E215080.TM0801	107	80	33,5	32	26	20,5	13	23	11	9	19,5	9,5	M10	13	19	54	87
E215080.0008	E215080.TM1001	107	80	33,5	32	26	20,5	13	23	11	9	19,5	9,5	M12	13	19	54	90
E215110.0003	E215080.TM1201	140	110	39	35	29	25	14	24	12	11	19,5	11	M10	13	21	66	135
E215110.0005	E 21 5110 .T M10	140	110	39	35	29	25	14	24	12	11	19,5	11	M12	17	21	66	137
E215110.0007	0	1	140	110	39	35	29	14	24	12	11	19,5	11	M14	17	21	66	140
E215140.0002	E215110.TM1201	175	140	49	44	35,5	32	17	27	13	15,5	24	19	M12	17	23,5	76,5	238
E215140.0005	E 21 5110 .T M14	175	140	49	44	35,5	32	17	27	13	15,5	24	19	M14	17	23,5	76,5	223
E215140.0006	0	1	175	140	49	44	35,5	32	17	13	15,5	24	19	(*) M16	17	23,5	76,5	251
E215185.0001	E215140.TM1201	223	185	55	47,5	40	38,5	16,5	27	14	17	29,5	21	M12	17	25,5	87	312
E215185.0003	E215140.TM1401	223	185	55	47,5	40	38,5	16,5	27	14	17	29,5	21	M14	17	25,5	87	320
E215185.0004	E215140.TM1601	223	185	55	47,5	40	38,5	16,5	27	14	17	29,5	21	(*) M16	17	25,5	87	331
	E215185.TM1201																	
	E215185.TM1401																	
	E215185.TM1601																	

E219

CRANKHANDLE WITH THREADED INSERT AND REVOLVING HANDLE M129



PA6
+G.F.

UL94
HB

RoHS
COMPLIANT

General features:

All unspecified features are identical to basic item E215.

Inserts:

Brass insert with female threaded hole (thread tolerance 6H).

(*) Galvanised steel insert with female threaded hole (thread tolerance 6H).

Lateral handle:

Revolving handle art. M129 page (505).



05

Code	Art.	L	R	H	D	d	m	c	A	B	h	d3	h3	d16H	Q	dl	L1	g
E219065.0001	E219065.TM0801	89	65	30	27,5	22	17	13	20	9,5	8	14,5	10	M8	13	20	52	79
E219065.0002	E219065.TM1001	89	65	30	27,5	22	17	13	20	9,5	8	14,5	10	M10	13	20	52	82
E219065.0003	E219065.TM1201	89	65	30	27,5	22	17	13	20	9,5	8	14,5	10	M12	13	20	52	85
E219080.0001	E219080.TM0801	107	80	33,5	32	26	20,5	13	23	11	9	19,5	9,5	M8	13	20	52	95
E219080.0002	E219080.TM1001	107	80	33,5	32	26	20,5	13	23	11	9	19,5	9,5	M10	13	20	52	99
E219080.0003	E219080.TM1201	107	80	33,5	32	26	20,5	13	23	11	9	19,5	9,5	M12	13	20	52	102
E219110.0001	E219110.T.M10 0 1	140	110	39	35	29	25	14	24	12	11	19,5	11	M10	13	23,5	63	150
E219110.0002	E219110.TM1201	140	110	39	35	29	25	14	24	12	11	19,5	11	M12	17	23,5	63	160
E219110.0003	E219110.T.M14 0 1	140	110	39	35	29	25	14	24	12	11	19,5	11	M14	17	23,5	63	165
E219140.0001	E219140.TM1201	175	140	49	44	35,5	32	17	27	13	15,5	24	19	M12	17	25	72	262
E219140.0002	E219140.TM1401	175	140	49	44	35,5	32	17	27	13	15,5	24	19	M14	17	25	72	249
E219140.0003	E219140.TM1601	175	140	49	44	35,5	32	17	27	13	15,5	24	19	(*) M16	17	25	72	275
E219185.0001	E219185.TM1201	223	185	55	47,5	40	38,5	16,5	27	14	17	29,5	21	M12	17	26	82	312
E219185.0002	E219185.T.M14 0 1	223	185	55	47,5	40	38,5	16,5	27	14	17	29,5	21	M14	17	26	82	320
E219185.0003	E219185.T.M16 0 1	223	185	55	47,5	40	38,5	16,5	27	14	17	29,5	21	(*) M16	17	26	82	331

E220

CRANKHANDLE WITH THREADED INSERT AND REVOLVING HANDLE M145



PA6
+G.F.

UL94
HB

RoHS
COMPLIANT

General features:

All unspecified features are identical to basic item E215.

Inserts:

Brass insert with female threaded hole (thread tolerance 6H).

(*) Galvanised steel insert with female threaded hole (thread tolerance 6H).

Lateral handle:

Revolving handle art. M145 page (509).



Code	Art.	L	R	H	D	d	m	c	A	B	h	d3	h3	d16H	Q	dl	L1	g
E220065.0001	E220065.TM0801	89	65	30	27,5	22	17	13	20	9,5	8	14,5	10	M8	13	20	56	69
E220065.0002	E220065.TM1001	89	65	30	27,5	22	17	13	20	9,5	8	14,5	10	M10	13	20	56	72
E220065.0003	E220065.TM1201	89	65	30	27,5	22	17	13	20	9,5	8	14,5	10	M12	13	20	56	75
E220080.0001	E220080.TM0801	107	80	33,5	32	26	20,5	13	23	11	9	19,5	9,5	M8	13	20	56	85
E220080.0002	E220080.TM1001	107	80	33,5	32	26	20,5	13	23	11	9	19,5	9,5	M10	13	20	56	89
E220080.0003	E220080.TM1201	107	80	33,5	32	26	20,5	13	23	11	9	19,5	9,5	M12	13	20	56	92
E220110.0001	E220110.TM1001	140	110	39	35	29	25	14	24	12	11	19,5	11	M10	13	23,5	68	149
E220110.0002	E220110.TM1201	140	110	39	35	29	25	14	24	12	11	19,5	11	M12	17	23,5	68	151
E220110.0003	E220110.TM1401	140	110	39	35	29	25	14	24	12	11	19,5	11	M14	17	23,5	68	154
E220140.0001	E220140.TM1201	175	140	49	44	35,5	33	17	27	13	15,5	24	19	M12	17	25	77	228
E220140.0002	E220140.TM1401	175	140	49	44	35,5	32	17	27	13	15,5	24	19	M14	17	25	77	213
E220140.0003	E220140.TM1601	175	140	49	44	35,5	32	17	27	13	15,5	24	19	(*) M16	17	25	77	241
E220185.0001	E220185.TM1201	223	185	55	47,5	40	38,5	16,5	27	14	17	29,5	21	M12	17	26	86	304
E220185.0002	E220185.TM1401	223	185	55	47,5	40	38,5	16,5	27	14	17	29,5	21	M14	17	26	86	310
E220185.0003	E220185.TM1601	223	185	55	47,5	40	38,5	16,5	27	14	17	29,5	21	(*) M16	17	26	86	321

E215

CRANKHANDLE WITH THREADED INSERT AND REVOLVING HANDLE



Material:

Reinforced polyamide.

Resistant to oils and greases.

Surface finish:

Satin.

Colour:

Black (RAL9011).

Central cap:

Greypolyamide(RAL 7035). 13).

Alternative Cap colours:

Orange (RAL 2004 code 02).

Red (RAL 3000 code 16).

Blue (RAL 5015 code 07).

Green (RAL 6024 code 17).

Yellow (RAL 1021 code 10).

Black (RAL 9011 code 01).

Inserts:

Brassinsert with female threaded hole

(thread tolerance 6H). (*) Galvanised steel

insert with female threaded hole (thread tolerance 6H).

Lateral insert:

Brass insert with threaded through hole.

Lateral handle:

E215: Revolving handle art. M144 page (504).

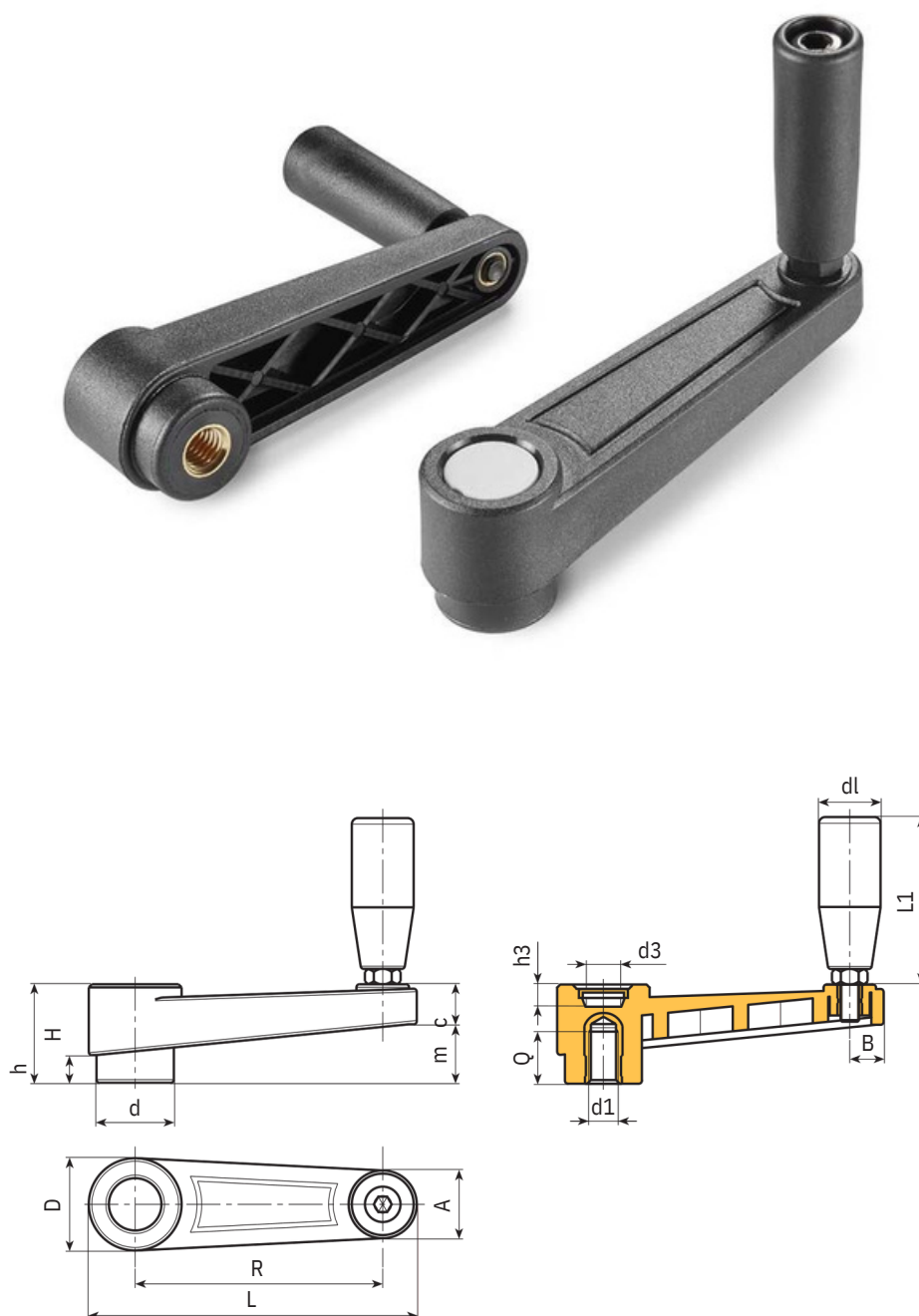
E219: Revolving handle art. M129 page (505).

E220: Revolving handle art. M145 page (509).

Special requests:

- Upon request and for special quantities inserts can be supplied in different materials.

- Upon request and for special quantities available in the colours indicated in the chart [page 959].



Code	Art.	L	R	H	D	d	m	c	A	B	h	d3	h3	d1 _{6H}	Q	dl	L1	g
E215065.0002	E215065.TM0801	88,5	65	30	27,5	22	17	13	20	9,5	8	14,5	10	M8	13	19	54	67
E215065.0005	E 215 0 65 .T M10	88,5	65	30	27,5	22	17	13	20	9,5	8	14,5	10	M10	13	19	54	70
E215065.0007	01	88,5	65	30	27,5	22	17	13	20	9,5	8	14,5	10	M12	13	19	54	73
E215080.0003	E215065.TM1201	107	80	33,5	32	26	20,5	13	23	11	9	19,5	9,5	M8	13	19	54	83
E215080.0004	E215080.TM0801	107	80	33,5	32	26	20,5	13	23	11	9	19,5	9,5	M10	13	19	54	87
E215080.0008	E215080.TM1001	107	80	33,5	32	26	20,5	13	23	11	9	19,5	9,5	M12	13	19	54	90
E215110.0003	E215080.TM1201	140	110	39	35	29	25	14	24	12	11	19,5	11	M10	13	21	66	135
E215110.0005	E 21 5110 .T M10	140	110	39	35	29	25	14	24	12	11	19,5	11	M12	17	21	66	137
E215110.0007	0	1	140	110	39	35	29	14	24	12	11	19,5	11	M14	17	21	66	140
E215140.0002	E215110.TM1201	175	140	49	44	35,5	32	17	27	13	15,5	24	19	M12	17	23,5	76,5	238
E215140.0005	E 21 5110 .T M14	175	140	49	44	35,5	32	17	27	13	15,5	24	19	M14	17	23,5	76,5	223
E215140.0006	0	1	175	140	49	44	35,5	32	17	13	15,5	24	19	(*) M16	17	23,5	76,5	251
E215185.0001	E215140.TM1201	223	185	55	47,5	40	38,5	16,5	27	14	17	29,5	21	M12	17	25,5	87	312
E215185.0003	E215140.TM1401	223	185	55	47,5	40	38,5	16,5	27	14	17	29,5	21	M14	17	25,5	87	320
E215185.0004	E215140.TM1601	223	185	55	47,5	40	38,5	16,5	27	14	17	29,5	21	(*) M16	17	25,5	87	331
	E215185.TM1201																	
	E215185.TM1401																	
	E215185.TM1601																	

E221



CRANK HANDLE WITH SMOOTH BORE INSERT AND REVOLVING HANDLE M145

General features:

All unspecified features are identical to basic item E216.

Inserts:

Galvanised steel insert with smooth through bore (tolerance H10).

Lateral handle:

Revolving handle art. M145 [page 509].



Code	Art.	L	R	H	D	d	m	c	A	B	h	d3	h3	dm	d1H10	Q	dl	L1	g
E221065.0003	E221065.TP0501	89	65	30	27,5	22	17	13	20	9,5	8	14,5	10	12	5	20	20	56	101
E221065.0001	E221065.TD1001	89	65	30	27,5	22	17	13	20	9,5	8	14,5	10	12	10	20	20	56	107
E221065.0002	E221065.TD1201	89	65	30	27,5	22	17	13	20	9,5	8	14,5	10	12	12	20	20	56	104
E221080.0003	E221080.TP0501	107	80	33,5	32	26	20,5	13	23	11	9	19,5	9,5	14	5	24	20	56	125
E221080.0001	E221080.TD1001	107	80	33,5	32	26	20,5	13	23	11	9	19,5	9,5	14	10	24	20	56	130
E221080.0002	E221080.TD1201	107	80	33,5	32	26	20,5	13	23	11	9	19,5	9,5	14	12	24	20	56	127
E221110.0001	E221110.TD0801	140	110	39	35	29	25	14	24	12	11	19,5	11	14	8	28	23,5	68	175
E221110.0002	E 2 21110 .T D10 0 1	140	110	39	35	29	25	14	24	12	11	19,5	11	14	8	28	23,5	68	172
E221110.0003	E221110.TD1201	140	110	39	35	29	25	14	24	12	11	19,5	11	14	10	28	23,5	68	169
E221140.0001	E221140.TD0801	175	140	49	44	35,5	32	17	27	13	15,5	24	19	20	12	30	25	77	263
E221140.0002	E221140.TD1201	175	140	49	44	35,5	32	17	27	13	15,5	24	19	20	8	30	25	77	257
E221140.0003	E221140.TD1401	175	140	49	44	35,5	32	17	27	13	15,5	24	19	20	12	30	25	77	253
E221140.0004	E221140.TD1601	175	140	49	44	35,5	32	17	27	13	15,5	24	19	20	14	30	25	77	249
E221185.0001	E221185.TD0801	223	185	55	47,5	40	38,5	16,5	27	14	17	29,5	21	22	16	34	26	86	440
E221185.0002	E221185.TD1201	223	185	55	47,5	40	38,5	16,5	27	14	17	29,5	21	22	8	34	26	86	433

12

Attention: For a minimum of 50 pieces the diameter d1 can be customised (hole tolerance H10 galvanised and H7 black-oxide treated).
Dm = Maximum obtainable diameter for subsequent machining (widening).

E222



CRANK HANDLE WITH SMOOTH BORE INSERT AND REVOLVING HANDLE M129

General features:

All unspecified features are identical to basic item E216.

Inserts:

Galvanised steel insert with smooth through bore (tolerance H10).

Lateral handle:

Revolving handle art. M129 [page 505].



Code	Art.	L	R	H	D	d	m	c	A	B	h	d3	h3	dm	d1H10	Q	dl	L1	g
E222065.0008	E222065.TP0501	89	65	30	27,5	22	17	13	20	9,5	8	14,5	10	12	5	20	20	52	111
E222065.0003	E222065.TD1001	89	65	30	27,5	22	17	13	20	9,5	8	14,5	10	12	10	20	20	52	117
E222065.0004	E222065.TD1201	89	65	30	27,5	22	17	13	20	9,5	8	14,5	10	12	12	20	20	52	114
E222080.0013	E222080.TP0501	107	80	33,5	32	26	20,5	13	23	11	9	19,5	9,5	14	5	24	20	52	135
E222080.0003	E222080.TD1001	107	80	33,5	32	26	20,5	13	23	11	9	19,5	9,5	14	10	24	20	52	140
E222080.0005	E222080.TD1201	107	80	33,5	32	26	20,5	13	23	11	9	19,5	9,5	14	12	24	20	52	136
E222110.0001	E222110.TD0801	140	110	39	35	29	25	14	24	12	11	19,5	11	14	8	28	23,5	63	182
E222110.0007	E222110.TD1001	140	110	39	35	29	25	14	24	12	11	19,5	11	14	8	28	23,5	63	179
E222110.0004	E222110.TD1201	140	110	39	35	29	25	14	24	12	11	19,5	11	14	10	28	23,5	63	175
E222140.0001	E222140.TD0801	175	140	49	44	35,5	32	17	27	13	15,5	24	19	20	12	30	25	72	271
E222140.0003	E222140.TD1201	175	140	49	44	35,5	32	17	27	13	15,5	24	19	20	8	30	25	72	265
E222140.0004	E222140.TD1401	175	140	49	44	35,5	32	17	27	13	15,5	24	19	20	12	30	25	72	261
E222140.0005	E222140.TD1601	175	140	49	44	35,5	32	17	27	13	15,5	24	19	20	14	30	25	72	255
E222185.0001	E222185.TD0801	223	185	55	47,5	40	38,5	16,5	27	14	17	29,5	21	22	16	34	26	82	450
E222185.0004	E222185.TD1201	223	185	55	47,5	40	38,5	16,5	27	14	17	29,5	21	22	08	34	26	82	442

12

Attention: For a minimum of 50 pieces the diameter d1 can be customised (hole tolerance H10 galvanised and H7 black-oxide treated).
Dm = Maximum obtainable diameter for subsequent machining (widening).



E216



PA6
+G.F.

UL94
HB

RoHS
COMPLIANT

CRANKHANDLE WITH SMOOTH BORE INSERT AND REVOLVING HANDLE

Material:

Reinforced polyamide.
Resistant to oils and greases.

Surface finish:

Satin.

Colour:

Black (RAL9011).

Central cap:

Greypolyamide(RAL 7035). 13).

Alternative Cap colours:

Orange (RAL 2004 code 02).
Red (RAL 3000 code 16).
Blue (RAL 5015 code 07).
Green (RAL 6024 code 17).
Yellow (RAL 1021 code 10).
Black (RAL 9011 code 01).

Inserts:

Galvanised steel insert with smooth through bore (tolerance H10).

Lateral insert:

Brass insert with threaded through hole.

Lateral handle:

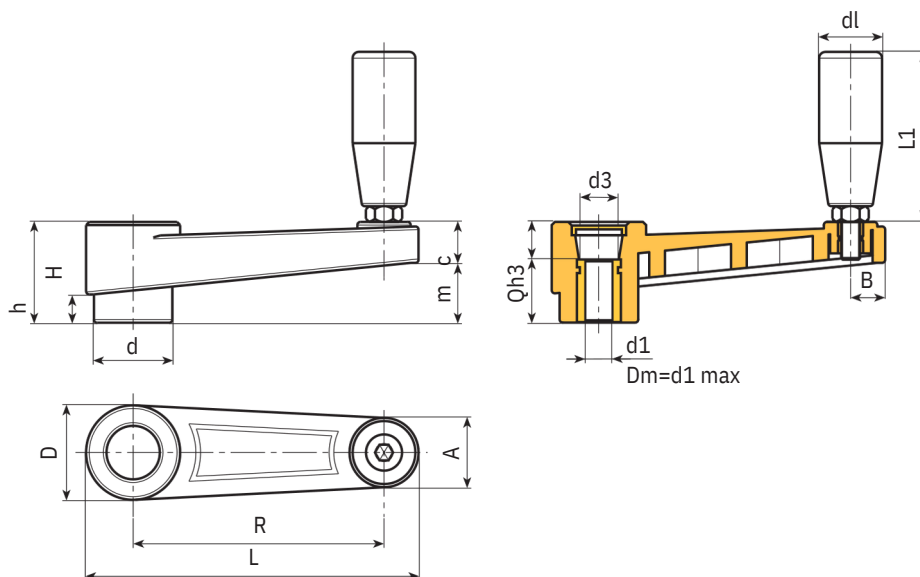
E216: Revolving handle art. M144 page (504).

E221: Revolving handle art. M145 page (509).

E222: Revolving handle art. M129 page (505).

Special requests:

- Upon request and for special quantities inserts can be supplied with custom hole diameter d1.
- Upon request and for special quantities inserts can be supplied in different materials/with different coatings.
- Upon request and for special quantities available in the colours indicated in the chart [page 959].



Code	Art.	L	R	H	D	d	m	c	A	B	h	d3	h3	dm	d1H10	Q	dl	L1	g
E216065.0015	E216065.TP0501	88,5	65	30	27,5	22	17	13	20	9,5	8	14,5	10	12	5	20	19	54	96
E216065.0004	E 216 0 65 .T D10 01	88,5	65	30	27,5	22	17	13	20	9,5	8	14,5	10	12	10	20	19	54	92
E216065.0009	E216065.TD1201	88,5	65	30	27,5	22	17	13	20	9,5	8	14,5	10	12	12	20	19	54	89
E216080.0020	E216080.TP0501	107	80	33,5	32	26	20,5	13	23	11	9	19,5	9,5	14	5	24	19	54	110
E216080.0007	E216080.TD1001	107	80	33,5	32	26	20,5	13	23	11	9	19,5	9,5	14	10	24	19	54	105
E216080.0009	E216080.TD1201	107	80	33,5	32	26	20,5	13	23	11	9	19,5	9,5	14	10	24	19	54	102
E216110.0003	E216110.TD0801	140	110	39	35	29	25	14	24	12	11	19,5	11	14	12	28	21	66	160
E216110.0005	E 216110 .T D10 0 1	140	110	39	35	29	25	14	24	12	11	19,5	11	14	8	28	21	66	152
E216110.0006	E 216110 .T D1 2 0 1	140	110	39	35	29	25	14	24	12	11	19,5	11	14	10	28	21	66	148
E216140.0002	E216140.TD0801	175	140	49	44	35,5	32	17	27	13	15,5	24	19	20	12	30	23,5	76,5	250
E216140.0007	E216140.TD1201	175	140	49	44	35,5	32	17	27	13	15,5	24	19	20	8	30	23,5	76,5	242
E216140.0011	E 21614 0 .T D14 0 1	175	140	49	44	35,5	32	17	27	13	15,5	24	19	20	12	30	23,5	76,5	238
E216140.0017	E 21614 0 .T D16 0 1	175	140	49	44	35,5	32	17	27	13	15,5	24	19	20	14	30	23,5	76,5	232
E 216185 . 0 0 0 1	E216185.TD0801	223	185	55	47,5	40	38,5	16,5	27	14	17	29,5	21	22	16	34	25,5	87	430
E216185.0004	E216185.TD1201	223	185	55	47,5	40	38,5	16,5	27	14	17	29,5	21	22	8	34	25,5	87	400

12

Attention: For a minimum of 50 pieces the diameter d1 can be customised (hole tolerance H10 galvanised and H7 black-oxide treated).
Dm = Maximum obtainable diameter for subsequent machining (widening).



E221



CRANK HANDLE WITH SMOOTH BORE INSERT AND REVOLVING HANDLE M145

General features:

All unspecified features are identical to basic item E216.

Inserts:

Galvanised steel insert with smooth through bore (tolerance H10).

Lateral handle:

Revolving handle art. M145 [page 509].



Code	Art.	L	R	H	D	d	m	c	A	B	h	d3	h3	dm	d1H10	Q	dl	L1	g
E221065.0003	E221065.TP0501	89	65	30	27,5	22	17	13	20	9,5	8	14,5	10	12	5	20	20	56	101
E221065.0001	E221065.TD1001	89	65	30	27,5	22	17	13	20	9,5	8	14,5	10	12	10	20	20	56	107
E221065.0002	E221065.TD1201	89	65	30	27,5	22	17	13	20	9,5	8	14,5	10	12	12	20	20	56	104
E221080.0003	E221080.TP0501	107	80	33,5	32	26	20,5	13	23	11	9	19,5	9,5	14	5	24	20	56	125
E221080.0001	E221080.TD1001	107	80	33,5	32	26	20,5	13	23	11	9	19,5	9,5	14	10	24	20	56	130
E221080.0002	E221080.TD1201	107	80	33,5	32	26	20,5	13	23	11	9	19,5	9,5	14	12	24	20	56	127
E221110.0001	E221110.TD0801	140	110	39	35	29	25	14	24	12	11	19,5	11	14	8	28	23,5	68	175
E221110.0002	E 2 21110 .T D10 0 1	140	110	39	35	29	25	14	24	12	11	19,5	11	14	8	28	23,5	68	172
E221110.0003	E221110.TD1201	140	110	39	35	29	25	14	24	12	11	19,5	11	14	10	28	23,5	68	169
E221140.0001	E221140.TD0801	175	140	49	44	35,5	32	17	27	13	15,5	24	19	20	12	30	25	77	263
E221140.0002	E221140.TD1201	175	140	49	44	35,5	32	17	27	13	15,5	24	19	20	8	30	25	77	257
E221140.0003	E221140.TD1401	175	140	49	44	35,5	32	17	27	13	15,5	24	19	20	12	30	25	77	253
E221140.0004	E221140.TD1601	175	140	49	44	35,5	32	17	27	13	15,5	24	19	20	14	30	25	77	249
E221185.0001	E221185.TD0801	223	185	55	47,5	40	38,5	16,5	27	14	17	29,5	21	22	16	34	26	86	440
E221185.0002	E221185.TD1201	223	185	55	47,5	40	38,5	16,5	27	14	17	29,5	21	22	8	34	26	86	433

12

Attention: For a minimum of 50 pieces the diameter d1 can be customised (hole tolerance H10 galvanised and H7 black-oxide treated).
Dm = Maximum obtainable diameter for subsequent machining (widening).

E222



CRANK HANDLE WITH SMOOTH BORE INSERT AND REVOLVING HANDLE M129

General features:

All unspecified features are identical to basic item E216.

Inserts:

Galvanised steel insert with smooth through bore (tolerance H10).

Lateral handle:

Revolving handle art. M129 [page 505].



Code	Art.	L	R	H	D	d	m	c	A	B	h	d3	h3	dm	d1H10	Q	dl	L1	g
E222065.0008	E222065.TP0501	89	65	30	27,5	22	17	13	20	9,5	8	14,5	10	12	5	20	20	52	111
E222065.0003	E222065.TD1001	89	65	30	27,5	22	17	13	20	9,5	8	14,5	10	12	10	20	20	52	117
E222065.0004	E222065.TD1201	89	65	30	27,5	22	17	13	20	9,5	8	14,5	10	12	12	20	20	52	114
E222080.0013	E222080.TP0501	107	80	33,5	32	26	20,5	13	23	11	9	19,5	9,5	14	5	24	20	52	135
E222080.0003	E222080.TD1001	107	80	33,5	32	26	20,5	13	23	11	9	19,5	9,5	14	10	24	20	52	140
E222080.0005	E222080.TD1201	107	80	33,5	32	26	20,5	13	23	11	9	19,5	9,5	14	12	24	20	52	136
E222110.0001	E222110.TD0801	140	110	39	35	29	25	14	24	12	11	19,5	11	14	8	28	23,5	63	182
E222110.0007	E222110.TD1001	140	110	39	35	29	25	14	24	12	11	19,5	11	14	8	28	23,5	63	179
E222110.0004	E222110.TD1201	140	110	39	35	29	25	14	24	12	11	19,5	11	14	10	28	23,5	63	175
E222140.0001	E222140.TD0801	175	140	49	44	35,5	32	17	27	13	15,5	24	19	20	12	30	25	72	271
E222140.0003	E222140.TD1201	175	140	49	44	35,5	32	17	27	13	15,5	24	19	20	8	30	25	72	265
E222140.0004	E222140.TD1401	175	140	49	44	35,5	32	17	27	13	15,5	24	19	20	12	30	25	72	261
E222140.0005	E222140.TD1601	175	140	49	44	35,5	32	17	27	13	15,5	24	19	20	14	30	25	72	255
E222185.0001	E222185.TD0801	223	185	55	47,5	40	38,5	16,5	27	14	17	29,5	21	22	16	34	26	82	450
E222185.0004	E222185.TD1201	223	185	55	47,5	40	38,5	16,5	27	14	17	29,5	21	22	08	34	26	82	442

12

Attention: For a minimum of 50 pieces the diameter d1 can be customised (hole tolerance H10 galvanised and H7 black-oxide treated).
Dm = Maximum obtainable diameter for subsequent machining (widening).



E216



PA6
+G.F.

UL94
HB

RoHS
COMPLIANT

CRANKHANDLE WITH SMOOTH BORE INSERT AND REVOLVING HANDLE

Material:

Reinforced polyamide.
Resistant to oils and greases.

Surface finish:

Satin.

Colour:

Black (RAL9011).

Central cap:

Greypolyamide(RAL 7035). 13).

Alternative Cap colours:

Orange (RAL 2004 code 02).
Red (RAL 3000 code 16).
Blue (RAL 5015 code 07).
Green (RAL 6024 code 17).
Yellow (RAL 1021 code 10).
Black (RAL 9011 code 01).

Inserts:

Galvanised steel insert with smooth through bore (tolerance H10).

Lateral insert:

Brass insert with threaded through hole.

Lateral handle:

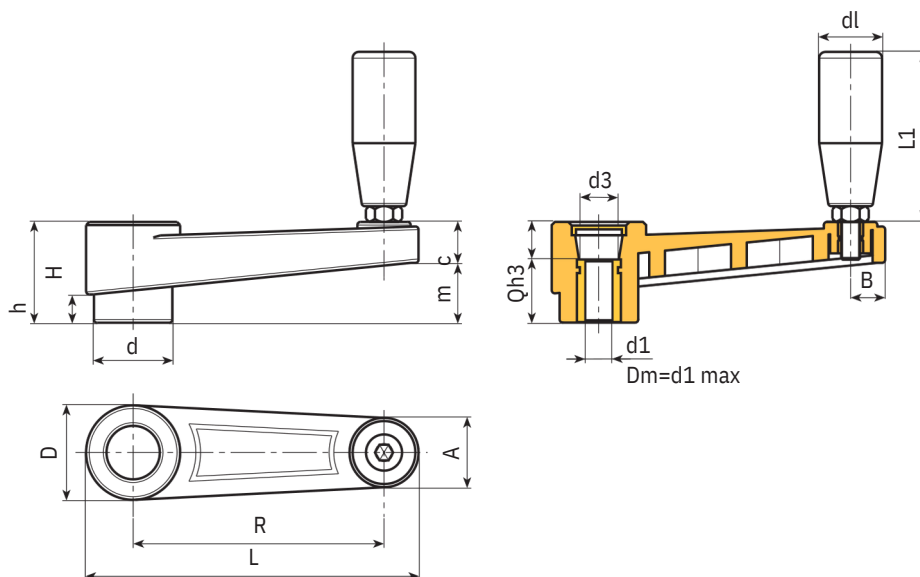
E216: Revolving handle art. M144 page (504).

E221: Revolving handle art. M145 page (509).

E222: Revolving handle art. M129 page (505).

Special requests:

- Upon request and for special quantities inserts can be supplied with custom hole diameter d1.
- Upon request and for special quantities inserts can be supplied in different materials/with different coatings.
- Upon request and for special quantities available in the colours indicated in the chart [page 959].



Code	Art.	L	R	H	D	d	m	c	A	B	h	d3	h3	dm	d1H10	Q	dl	L1	g
E216065.0015	E216065.TP0501	88,5	65	30	27,5	22	17	13	20	9,5	8	14,5	10	12	5	20	19	54	96
E216065.0004	E 216 0 65 .T D10 01	88,5	65	30	27,5	22	17	13	20	9,5	8	14,5	10	12	10	20	19	54	92
E216065.0009	E216065.TD1201	88,5	65	30	27,5	22	17	13	20	9,5	8	14,5	10	12	12	20	19	54	89
E216080.0020	E216080.TP0501	107	80	33,5	32	26	20,5	13	23	11	9	19,5	9,5	14	5	24	19	54	110
E216080.0007	E216080.TD1001	107	80	33,5	32	26	20,5	13	23	11	9	19,5	9,5	14	10	24	19	54	105
E216080.0009	E216080.TD1201	107	80	33,5	32	26	20,5	13	23	11	9	19,5	9,5	14	10	24	19	54	102
E216110.0003	E216110.TD0801	140	110	39	35	29	25	14	24	12	11	19,5	11	14	12	28	21	66	160
E216110.0005	E 216110 .T D10 0 1	140	110	39	35	29	25	14	24	12	11	19,5	11	14	8	28	21	66	152
E216110.0006	E 216110 .T D1 2 0 1	140	110	39	35	29	25	14	24	12	11	19,5	11	14	10	28	21	66	148
E216140.0002	E216140.TD0801	175	140	49	44	35,5	32	17	27	13	15,5	24	19	20	12	30	23,5	76,5	250
E216140.0007	E216140.TD1201	175	140	49	44	35,5	32	17	27	13	15,5	24	19	20	8	30	23,5	76,5	242
E216140.0011	E 21614 0 .T D14 0 1	175	140	49	44	35,5	32	17	27	13	15,5	24	19	20	12	30	23,5	76,5	238
E216140.0017	E 21614 0 .T D16 0 1	175	140	49	44	35,5	32	17	27	13	15,5	24	19	20	14	30	23,5	76,5	232
E 216185 . 0 0 0 1	E216185.TD0801	223	185	55	47,5	40	38,5	16,5	27	14	17	29,5	21	22	16	34	25,5	87	430
E216185.0004	E216185.TD1201	223	185	55	47,5	40	38,5	16,5	27	14	17	29,5	21	22	8	34	25,5	87	400

12

Attention: For a minimum of 50 pieces the diameter d1 can be customised (hole tolerance H10 galvanised and H7 black-oxide treated).
Dm = Maximum obtainable diameter for subsequent machining (widening).



E224

CRANKHANDLE WITH HEXAGONAL STUD AND REVOLVING HANDLE

+135°
-30°

PA6
+G.F.

RoHS
COMPLIANT

Material:
Reinforced polyamide.
Resistant to oils and greases.
Surface finish:
Satin.

Colour:
Black (RAL9011).

Central cap:
Greypolyamide(RAL 7035). 13).

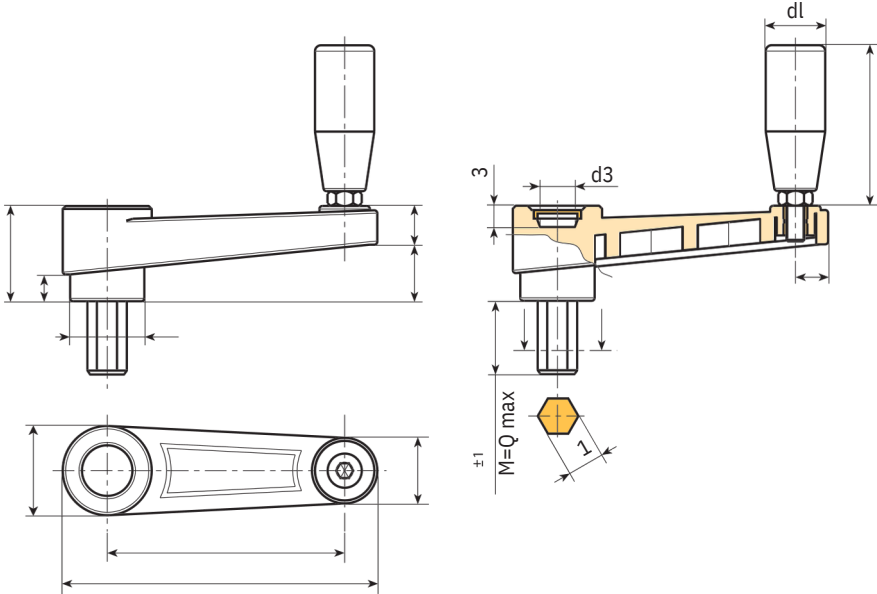
Alternative Cap colours:
Orange (RAL 2004 code 02).
Red (RAL 3000 code 16).
Blue (RAL 5015 code 07).
Green (RAL 6024 code 17).
Yellow (RAL 1021 code 10).
Black (RAL 9011 code 01).

Inserts:
Hexagonal stud in galvanised steel (hexagon tolerance H11).

Lateral insert:
Brass insert with threaded through hole.

Lateral handle:
E224: Revolving handle art. M144 page ().
E226: Revolving handle art. M145 page ().
E227: Revolving handle art. M129 page ().

- Special requests:**
- Upon request and for special quantities inserts can be supplied with customised lengths.
 - Upon request and for special quantities inserts can be supplied in different materials.
 - Upon request and for special quantities available in the colours indicated in the chart [page].



Code	Art.	L	R	H	D	d	m	c	A	B	h	d3	h3	d1H11	Q	LM	dl	L1	g
E224065.0004	E224065.TE06X4001	88,5	65	30	27	22	17	13	20	9.5	8	14,5	10	6	40	75	19	54	90

Customised stud length available for a minimum of 100 pieces.
LM = Maximum mouldable length.

E226



CRANKHANDLE WITH HEXAGONAL STUD AND REVOLVING HANDLE M145

General features:

All unspecified features are identical to basic item E224.

Inserts:

Hexagonal stud in galvanised steel (hexagon tolerance H11).

Lateral handle:

Revolving handle art. M145 [page].



05

Code	Art.	L	R	H	D	d	m	c	A	B	h	d3	h3	d1H11	Q	LM	dl	L1	g
-	E226065.TE06X4001	89	65	30	27,5	22	17	13	20	9.5	8	14,5	10	6	40	75	20	56	95

Customised stud length available for a minimum of 100 pieces.

LM = Maximum mouldable length.

E227



CRANKHANDLE WITH HEXAGONAL STUD AND REVOLVING HANDLE M129

General features:

All unspecified features are identical to basic item E224.

Inserts:

Hexagonal stud in galvanised steel (hexagon tolerance H11).

Lateral handle:

Revolving handle art. M129 [page].



Code	Art.	L	R	H	D	d	m	c	A	B	h	d3	h3	d1H11	Q	LM	dl	L1	g
E227065.0001	E 2 270 65 .T E0 6X4 0 0189	89	65	30	27,5	22	17	13	20	9.5	8	14,5	10	6	40	75	20	52	-

Customised stud length available for a minimum of 100 pieces.

LM = Maximum mouldable length.

E224

CRANKHANDLE WITH HEXAGONAL STUD AND REVOLVING HANDLE

+135°
-30°

PA6
+G.F.

RoHS
COMPLIANT

Material:
Reinforced polyamide.
Resistant to oils and greases.
Surface finish:
Satin.

Colour:
Black (RAL9011).

Central cap:
Greypolyamide(RAL 7035). 13).

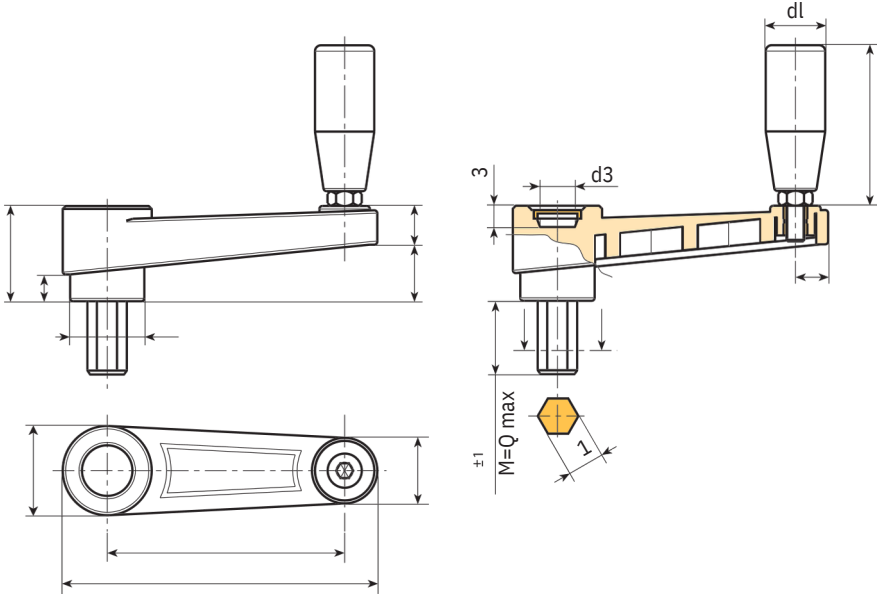
Alternative Cap colours:
Orange (RAL 2004 code 02).
Red (RAL 3000 code 16).
Blue (RAL 5015 code 07).
Green (RAL 6024 code 17).
Yellow (RAL 1021 code 10).
Black (RAL 9011 code 01).

Inserts:
Hexagonal stud in galvanised steel (hexagon tolerance H11).

Lateral insert:
Brass insert with threaded through hole.

Lateral handle:
E224: Revolving handle art. M144 page ().
E226: Revolving handle art. M145 page ().
E227: Revolving handle art. M129 page ().

- Special requests:**
- Upon request and for special quantities inserts can be supplied with customised lengths.
 - Upon request and for special quantities inserts can be supplied in different materials.
 - Upon request and for special quantities available in the colours indicated in the chart [page].



Code	Art.	L	R	H	D	d	m	c	A	B	h	d3	h3	d1H11	Q	LM	dl	L1	g
E224065.0004	E224065.TE06X4001	88,5	65	30	27	22	17	13	20	9.5	8	14,5	10	6	40	75	19	54	90

Customised stud length available for a minimum of 100 pieces.
LM = Maximum mouldable length.

E226

CRANKHANDLE WITH HEXAGONAL STUD AND REVOLVING HANDLE M145

General features:

All unspecified features are identical to basic item E224.

Inserts:

Hexagonal stud in galvanised steel (hexagon tolerance H9).

Lateral handle:

Revolving handle art. M145 [page 509].



05

Code	Art.	L	R	H	D	d	m	c	A	B	h	d3	h3	d1H10	Q	LM	dl	L1	g
-	E226065.TE06X4001	89	65	30	27,5	22	17	13	20	9.5	8	14,5	10	6	40	60	20	56	95

Customised stud length available for a minimum of 100 pieces.

LM = Maximum mouldable length.

E227

CRANKHANDLE WITH HEXAGONAL STUD AND REVOLVING HANDLE M129

General features:

All unspecified features are identical to basic item E224.

Inserts:

Hexagonal stud in galvanised steel (hexagon tolerance H9).

Lateral handle:

Revolving handle art. M129 [page 505].



Code	Art.	L	R	H	D	d	m	c	A	B	h	d3	h3	d1H10	Q	LM	dl	L1	g
E227065.0001	E 2 270 65 .T E0 6X4 0 0189	65	30	27,5	22	17	13	20	9.5	8	14,5	10	6	40	60	20	52	-	-

Customised stud length available for a minimum of 100 pieces.

LM = Maximum mouldable length.

E224



CRANKHANDLE WITH HEXAGONAL STUD AND REVOLVING HANDLE

Material:
Reinforced polyamide.
Resistant to oils and greases.
Surface finish:
Satin.

Colour:
Black (RAL9011).

Central cap:
Greypolyamide(RAL 7035). 13).

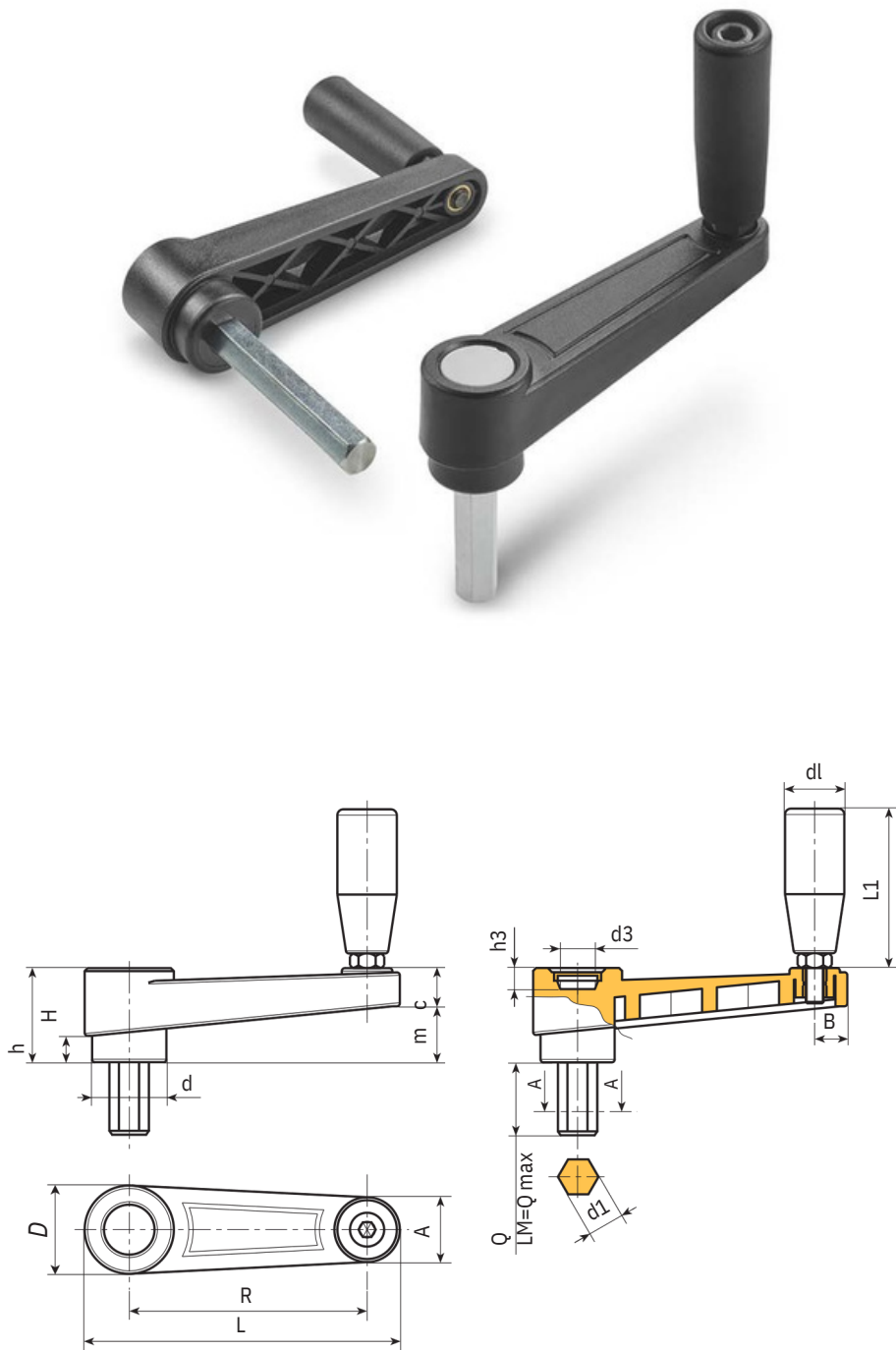
Alternative Cap colours:
Orange (RAL 2004 code 02).
Red (RAL 3000 code 16).
Blue (RAL 5015 code 07).
Green (RAL 6024 code 17).
Yellow (RAL 1021 code 10).
Black (RAL 9011 code 01).

Inserts:
Hexagonal stud in galvanised steel (hexagon tolerance H9).

Lateral insert:
Brass insert with threaded through hole.

Lateral handle:
E224: Revolving handle art. M144 page (504).
E226: Revolving handle art. M145 page (509).
E227: Revolving handle art. M129 page (505).

- Special requests:**
- Upon request and for special quantities inserts can be supplied with customised lengths.
 - Upon request and for special quantities inserts can be supplied in different materials.
 - Upon request and for special quantities available in the colours indicated in the chart [page 959].



Code	Art.	L	R	H	D	d	m	c	A	B	h	d3	h3	d1H10	Q	LM	d1	L1	g
E224065.0004	E224065.TE06X4001	88,5	65	30	27	22	17	13	20	9.5	8	14,5	10	6	40	60	19	54	90

Customised stud length available for a minimum of 100 pieces.
LM = Maximum mouldable length.



E230

CRANKHANDLE WITH HEXAGONAL HOLE AND REVOLVING HANDLE



Material:

Reinforced polyamide.

Resistant to oils and greases.

Surface finish:

Satin.

Colour:

Black (RAL9011).

Central cap:

Greypolyamide(RAL 7035). 13).

Alternative Cap colours:

Orange (RAL 2004 code 02).

Red (RAL 3000 code 16).

Blue (RAL 5015 code 07).

Green (RAL 6024 code 17).

Yellow (RAL 1021 code 10).

Black (RAL 9011 code 01).

Inserts:

Bushwith hexagonal through hole in black oxide treated steel (hole tolerance H10).

Lateral insert:

Brass insert with threaded through hole.

Lateral handle:

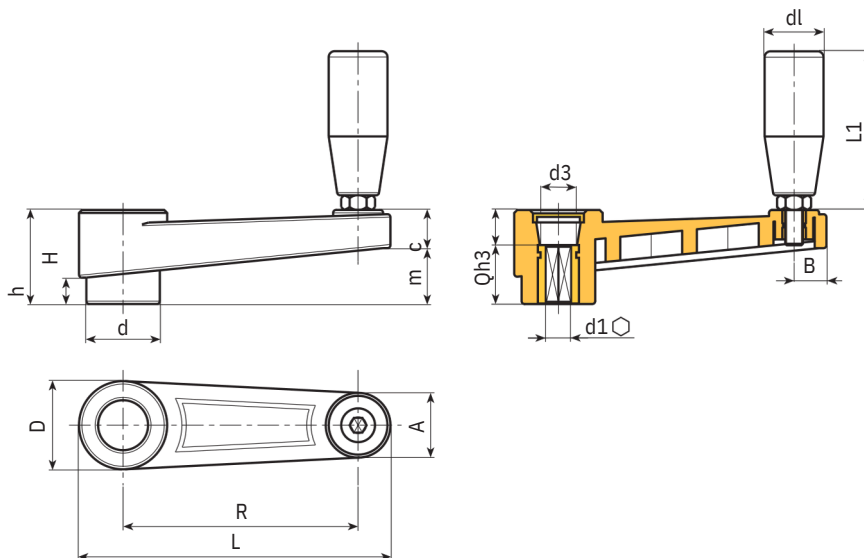
E230: Revolving handle art. M144 page (504).

E231: Revolving handle art. M145 page (509).

E232: Revolving handle art. M129 page (505).

Special requests:

- Upon request and for special quantities inserts can be supplied in different materials/with different coatings.
- Upon request and for special quantities available in the colours indicated in the chart [page 959].



Code	Art.	L	R	H	D	d	m	c	A	B	h	d3	h3	d1 _{H10}	Q	dl	L1	g
E230065.0002	E230065.TE0601P	88,5	65	30	27,5	22	17	13	20	9,5	8	14,5	10	6	20	19	54	96
E230065.0001	E230065.TE0801P	88,5	65	30	27,5	22	17	13	20	9,5	8	14,5	10	8	20	19	54	93
E230080.0001	E230080.TE1001P	107	80	33,5	32	26	20,5	13	23	11	9	19,5	9,5	10	24	19	54	105
E230080.0002	E230080.TE1201P	107	80	33,5	32	26	20,5	13	23	11	9	19,5	9,5	12	24	19	54	103
E230110.0001	E230110.TE1201P	140	110	39	35	29	22	14	24	12	11	19,5	11	12	28	21	66	152
E230110.0002	E 23 0110 .T E14 01P	140	110	39	35	29	22	14	24	12	11	19,5	11	14	28	21	66	149
E230140.0001	E230140.TE1401P	175	140	49	44	35,5	32	17	27	13	15,5	24	19	14	30	23,5	76	242
E230140.0002	E230140.TE1601P	175	140	49	44	35,5	32	17	27	13	15,5	24	19	16	30	23,5	76	238
E230185.0001	E 23 0185 .T E16 01P	223	185	55	47,5	40	38,5	16,5	27	14	17	29,5	19	16	34	25,5	87	385
E230185.0002	E 23 0185 .T E1701P	223	185	55	47,5	40	38,5	16,5	27	14	17	29,5	19	17	34	25,5	87	385

E231

CRANKHANDLE WITH HEXAGONAL HOLE AND REVOLVING HANDLE M145



General features:

All unspecified features are identical to basic item E230.

Inserts:

Insert with hexagonal through hole in black oxide treated steel (hole tolerance H10).

Lateral handle:

Revolving handle art. M145 [page 509].



05

Code	Art.	L	R	H	D	d	m	c	A	B	h	d3	h3	d1H10	Q	dl	L1	g
E231065.0001	E 2310 65 .T E0 6 01P	89	65	30	27,5	22	17	13	20	9,5	8	14,5	10	6	20	20	56	111
E231065.0002	E 2310 65 .T E0 8 01P	89	65	30	27,5	22	17	13	20	9,5	8	14,5	10	8	20	20	56	108
E231080.0002	E 2310 8 0 .T E10 01P	107	80	33,5	32	26	20,5	13	23	11	9	19,5	9,5	10	24	20	56	130
E231080.0001	E231080.TE1201P	107	80	33,5	32	26	20,5	13	23	11	9	19,5	9,5	12	24	20	56	128
E231110.0001	E231110.TE1201P	140	110	39	35	29	22	14	24	12	11	19,5	11	12	28	23,5	68	177
E231110.0002	E 2 31110 .T E14 0 1P	140	110	39	35	29	22	14	24	12	11	19,5	11	14	28	23,5	68	173
E231140.0001	E 23114 0 .T E14 01P	175	140	49	44	35,5	32	17	27	13	15,5	24	19	14	30	25	77	267
E231140.0002	E 2 3114 0 .T E16 0 1P	175	140	49	44	35,5	32	17	27	13	15,5	24	19	16	30	25	77	262
E231185.0001	E 2 3118 5 .T E16 0 1P	223	185	55	47,5	40	38,5	16,5	27	14	17	29,5	19	16	34	26	86	400
E231185.0002	E231185.TE1701P	223	185	55	47,5	40	38,5	16,5	27	14	17	29,5	19	17	34	26	86	398

E232

CRANKHANDLE WITH HEXAGONAL HOLE AND REVOLVING HANDLE M129



General features:

All unspecified features are identical to basic item E230.

Inserts:

Insert with hexagonal through hole in black oxide treated steel (hole tolerance H10).

Lateral handle:

Revolving handle art. M129 [page 505].



Code	Art.	L	R	H	D	d	m	c	A	B	h	d3	h3	d1H10	Q	dl	L1	g
E232065.0001	E 232 0 65 .T E0 6 01P	89	65	30	27,5	22	17	13	20	9,5	8	14,5	10	6	20	20	52	101
E232065.0002	E 232 0 65 .T E0 8 01P	89	65	30	27,5	22	17	13	20	9,5	8	14,5	10	8	20	20	52	98
E232080.0001	E 232 0 8 0 .T E10 01P	107	80	33,5	32	26	20,5	13	23	11	9	19,5	9,5	10	24	20	52	120
E232080.0002	E232080.TE1201P	107	80	33,5	32	26	20,5	13	23	11	9	19,5	9,5	12	24	20	52	118
E232110.0001	E232110.TE1201P	140	110	39	35	29	22	14	24	12	11	19,5	11	12	28	23,5	63	167
E232110.0002	E 232110 .T E14 01P	140	110	39	35	29	22	14	24	12	11	19,5	11	14	28	23,5	63	163
E232140.0001	E 23214 0 .T E14 01P	175	140	49	44	35,5	32	17	27	13	15,5	24	19	14	30	25	72	257
E232140.0002	E 23214 0 .T E16 01P	175	140	49	44	35,5	32	17	27	13	15,5	24	19	16	30	25	72	252
E232185.0001	E 232185 .T E16 01P	223	185	55	47,5	40	38,5	16,5	27	14	17	29,5	21	16	34	26	82	390
E232185.0002	E232185.TE1701P	223	185	55	47,5	40	38,5	16,5	27	14	17	29,5	21	17	34	26	82	390

E230

CRANKHANDLE WITH HEXAGONAL HOLE AND REVOLVING HANDLE



PA6
+G.F.

UL94
HB

RoHS
COMPLIANT

Material:

Reinforced polyamide.

Resistant to oils and greases.

Surface finish:

Satin.

Colour:

Black (RAL9011).

Central cap:

Greypolyamide(RAL 7035). 13).

Alternative Cap colours:

Orange (RAL 2004 code 02).

Red (RAL 3000 code 16).

Blue (RAL 5015 code 07).

Green (RAL 6024 code 17).

Yellow (RAL 1021 code 10).

Black (RAL 9011 code 01).

Inserts:

Bushwith hexagonal through hole in black oxide treated steel (hole tolerance H10).

Lateral insert:

Brass insert with threaded through hole.

Lateral handle:

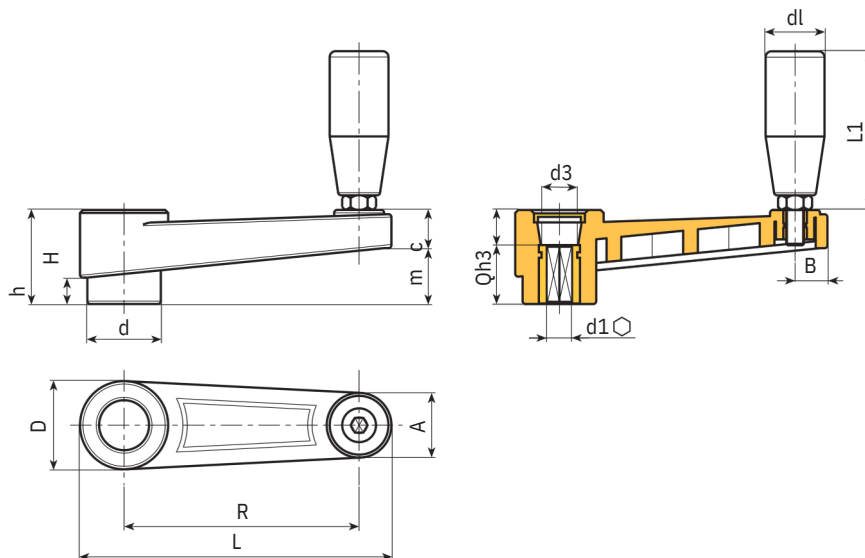
E230: Revolving handle art. M144 page (504).

E231: Revolving handle art. M145 page (509).

E232: Revolving handle art. M129 page (505).

Special requests:

- Upon request and for special quantities inserts can be supplied in different materials/with different coatings.
- Upon request and for special quantities available in the colours indicated in the chart [page 959].



Code	Art.	L	R	H	D	d	m	c	A	B	h	d3	h3	d1 _{H10}	Q	dl	L1	g
E230065.0002	E230065.TE0601P	88,5	65	30	27,5	22	17	13	20	9,5	8	14,5	10	6	20	19	54	96
E230065.0001	E230065.TE0801P	88,5	65	30	27,5	22	17	13	20	9,5	8	14,5	10	8	20	19	54	93
E230080.0001	E230080.TE1001P	107	80	33,5	32	26	20,5	13	23	11	9	19,5	9,5	10	24	19	54	105
E230080.0002	E230080.TE1201P	107	80	33,5	32	26	20,5	13	23	11	9	19,5	9,5	12	24	19	54	103
E230110.0001	E230110.TE1201P	140	110	39	35	29	22	14	24	12	11	19,5	11	12	28	21	66	152
E230110.0002	E 23 0110 .T E14 01P	140	110	39	35	29	22	14	24	12	11	19,5	11	14	28	21	66	149
E230140.0001	E230140.TE1401P	175	140	49	44	35,5	32	17	27	13	15,5	24	19	14	30	23,5	76	242
E230140.0002	E230140.TE1601P	175	140	49	44	35,5	32	17	27	13	15,5	24	19	16	30	23,5	76	238
E230185.0001	E 23 0185 .T E16 01P	223	185	55	47,5	40	38,5	16,5	27	14	17	29,5	19	16	34	25,5	87	385
E230185.0002	E 23 0185 .T E1701P	223	185	55	47,5	40	38,5	16,5	27	14	17	29,5	19	17	34	25,5	87	385

E231

CRANKHANDLE WITH HEXAGONAL HOLE AND REVOLVING HANDLE M145



General features:

All unspecified features are identical to basic item E230.

Inserts:

Insert with hexagonal through hole in black oxide treated steel (hole tolerance H10).

Lateral handle:

Revolving handle art. M145 [page 509].



05

Code	Art.	L	R	H	D	d	m	c	A	B	h	d3	h3	d1H10	Q	dl	L1	g
E231065.0001	E 2310 65 .T E0 6 01P	89	65	30	27,5	22	17	13	20	9,5	8	14,5	10	6	20	20	56	111
E231065.0002	E 2310 65 .T E0 8 01P	89	65	30	27,5	22	17	13	20	9,5	8	14,5	10	8	20	20	56	108
E231080.0002	E 2310 8 0 .T E10 01P	107	80	33,5	32	26	20,5	13	23	11	9	19,5	9,5	10	24	20	56	130
E231080.0001	E231080.TE1201P	107	80	33,5	32	26	20,5	13	23	11	9	19,5	9,5	12	24	20	56	128
E231110.0001	E231110.TE1201P	140	110	39	35	29	22	14	24	12	11	19,5	11	12	28	23,5	68	177
E231110.0002	E 2 31110 .T E14 0 1P	140	110	39	35	29	22	14	24	12	11	19,5	11	14	28	23,5	68	173
E231140.0001	E 23114 0 .T E14 01P	175	140	49	44	35,5	32	17	27	13	15,5	24	19	14	30	25	77	267
E231140.0002	E 2 3114 0 .T E16 0 1P	175	140	49	44	35,5	32	17	27	13	15,5	24	19	16	30	25	77	262
E231185.0001	E 2 3118 5 .T E16 0 1P	223	185	55	47,5	40	38,5	16,5	27	14	17	29,5	19	16	34	26	86	400
E231185.0002	E231185.TE1701P	223	185	55	47,5	40	38,5	16,5	27	14	17	29,5	19	17	34	26	86	398

E232

CRANKHANDLE WITH HEXAGONAL HOLE AND REVOLVING HANDLE M129



General features:

All unspecified features are identical to basic item E230.

Inserts:

Insert with hexagonal through hole in black oxide treated steel (hole tolerance H10).

Lateral handle:

Revolving handle art. M129 [page 505].



Code	Art.	L	R	H	D	d	m	c	A	B	h	d3	h3	d1H10	Q	dl	L1	g
E232065.0001	E 232 0 65 .T E0 6 01P	89	65	30	27,5	22	17	13	20	9,5	8	14,5	10	6	20	20	52	101
E232065.0002	E 232 0 65 .T E0 8 01P	89	65	30	27,5	22	17	13	20	9,5	8	14,5	10	8	20	20	52	98
E232080.0001	E 232 0 8 0 .T E10 01P	107	80	33,5	32	26	20,5	13	23	11	9	19,5	9,5	10	24	20	52	120
E232080.0002	E232080.TE1201P	107	80	33,5	32	26	20,5	13	23	11	9	19,5	9,5	12	24	20	52	118
E232110.0001	E232110.TE1201P	140	110	39	35	29	22	14	24	12	11	19,5	11	12	28	23,5	63	167
E232110.0002	E 232110 .T E14 01P	140	110	39	35	29	22	14	24	12	11	19,5	11	14	28	23,5	63	163
E232140.0001	E 23214 0 .T E14 01P	175	140	49	44	35,5	32	17	27	13	15,5	24	19	14	30	25	72	257
E232140.0002	E 23214 0 .T E16 01P	175	140	49	44	35,5	32	17	27	13	15,5	24	19	16	30	25	72	252
E232185.0001	E 232185 .T E16 01P	223	185	55	47,5	40	38,5	16,5	27	14	17	29,5	21	16	34	26	82	390
E232185.0002	E232185.TE1701P	223	185	55	47,5	40	38,5	16,5	27	14	17	29,5	21	17	34	26	82	390

E230

CRANKHANDLE WITH HEXAGONAL HOLE AND REVOLVING HANDLE



Material:

Reinforced polyamide.

Resistant to oils and greases.

Surface finish:

Satin.

Colour:

Black (RAL9011).

Central cap:

Greypolyamide(RAL 7035). 13).

Alternative Cap colours:

Orange (RAL 2004 code 02).

Red (RAL 3000 code 16).

Blue (RAL 5015 code 07).

Green (RAL 6024 code 17).

Yellow (RAL 1021 code 10).

Black (RAL 9011 code 01).

Inserts:

Bushwith hexagonal through hole in black oxide treated steel (hole tolerance H10).

Lateral insert:

Brass insert with threaded through hole.

Lateral handle:

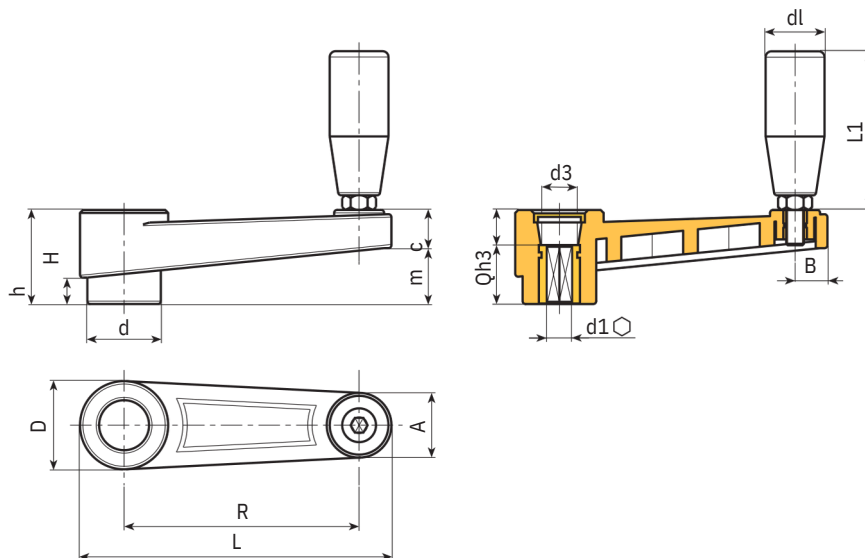
E230: Revolving handle art. M144 page (504).

E231: Revolving handle art. M145 page (509).

E232: Revolving handle art. M129 page (505).

Special requests:

- Upon request and for special quantities inserts can be supplied in different materials/with different coatings.
- Upon request and for special quantities available in the colours indicated in the chart [page 959].



Code	Art.	L	R	H	D	d	m	c	A	B	h	d3	h3	d1 _{H10}	Q	dl	L1	g
E230065.0002	E230065.TE0601P	88,5	65	30	27,5	22	17	13	20	9,5	8	14,5	10	6	20	19	54	96
E230065.0001	E230065.TE0801P	88,5	65	30	27,5	22	17	13	20	9,5	8	14,5	10	8	20	19	54	93
E230080.0001	E230080.TE1001P	107	80	33,5	32	26	20,5	13	23	11	9	19,5	9,5	10	24	19	54	105
E230080.0002	E230080.TE1201P	107	80	33,5	32	26	20,5	13	23	11	9	19,5	9,5	12	24	19	54	103
E230110.0001	E230110.TE1201P	140	110	39	35	29	22	14	24	12	11	19,5	11	12	28	21	66	152
E230110.0002	E 23 0110 .T E14 01P	140	110	39	35	29	22	14	24	12	11	19,5	11	14	28	21	66	149
E230140.0001	E230140.TE1401P	175	140	49	44	35,5	32	17	27	13	15,5	24	19	14	30	23,5	76	242
E230140.0002	E230140.TE1601P	175	140	49	44	35,5	32	17	27	13	15,5	24	19	16	30	23,5	76	238
E230185.0001	E 23 0185 .T E16 01P	223	185	55	47,5	40	38,5	16,5	27	14	17	29,5	19	16	34	25,5	87	385
E230185.0002	E 23 0185 .T E1701P	223	185	55	47,5	40	38,5	16,5	27	14	17	29,5	19	17	34	25,5	87	385

E240



CRANKHANDLE WITH HEXAGONAL HOLE INSERT AND FOLDING HANDLE

Material:
Reinforced polyamide.
Resistant to oils and greases.
Surface finish:
Satin.

Colour:

Black (RAL9011).

Central cap:
Grepolyamide(RAL 7035). 13).

Alternative Cap colours:
Orange (RAL 2004 code 02).
Red (RAL 3000 code 16).
Blue (RAL 5015 code 07).
Green (RAL 6024 code 17).
Yellow (RAL 1021 code 10).
Black (RAL 9011 code 01).

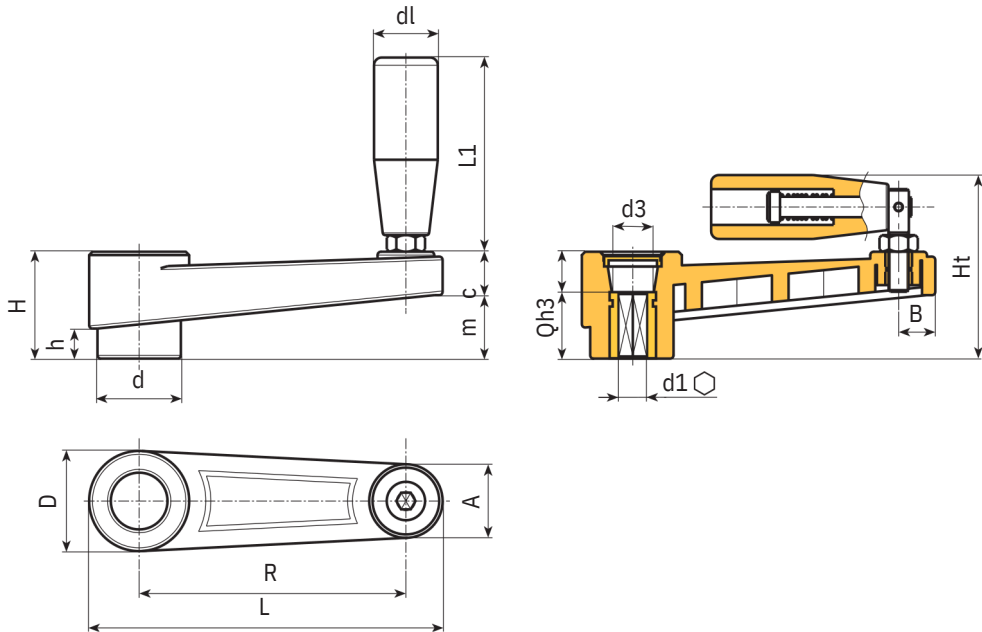
Inserts:
Bushwith hexagonal through hole in black oxide treated steel (hole tolerance H10).

Lateral insert:
Brassinsertwiththreaded through hole.

Lateral handle:
Revolving,foldinghandle art. M136 [page 510].

Special requests:

- Upon request and for special quantities inserts can be supplied in different materials/with different coatings.
- Upon request and for special quantities available in the colours indicated in the chart [page 959].



Code	Art.	L	R	H	Ht	D	d	m	c	A	B	h	d3	h3	d1H10	Q	dl	L1	g
E240065.0001	E240065.TE0601P	88,5	65	30	55	27,5	22	17	13	20	9,5	8	14,5	10	6	20	20	54	78
E240065.0002	E240065.TE0801P	88,5	65	30	55	27,5	22	17	13	20	9,5	8	14,5	10	8	20	20	54	78
E240080.0001	E240080.TE1001P	107	80	33,5	58	32	26	20,5	13	23	11	9	19,5	9,5	10	24	20	54	94
E240080.0002	E240080.TE1201P	107	80	33,5	58	32	26	20,5	13	23	11	9	19,5	9,5	12	24	20	54	95
E240110.0001	E240110.TE1201P	140	110	39	68	35	29	25	14	24	12	11	19,5	11	12	28	23,5	76	156
E240110.0002	E 24 0110 .T E14 01P	140	110	39	68	35	29	25	14	24	12	11	19,5	11	14	28	23,5	76	156
E240140.0001	E 24 014 0 .T E14 01P	175	140	49	84	44	35,5	32	17	27	13	15,5	24	19	14	30	26	89	274
E240140.0002	E 24 014 0 .T E16 01P	175	140	49	84	44	35,5	32	17	27	13	15,5	24	19	16	30	26	89	283
E240185.0001	E240185.TE1601P	223	185	55	90	47,5	40	38,5	16,5	27	14	17	29,5	21	16	34	26	97	340
E240185.0002	E240185.TE1701P	223	185	55	90	47,5	40	38,5	16,5	27	14	17	29,5	21	17	34	26	97	345

Material:

Reinforced polyamide.
Resistant to oils and greases.

Surface finish:

Satin.

Colour:

Black (RAL9011).

Central cap:

Greypolyamide(RAL 7035). 13).

Alternative Cap colours:

Orange (RAL 2004 code 02).

Red (RAL 3000 code 16).

Blue (RAL 5015 code 07).

Green (RAL 6024 code 17).

Yellow (RAL 1021 code 10).

Black (RAL 9011 code 01).

Inserts:

Bushwith square through hole in black oxide treated steel (hole tolerance H10).

Lateral insert:

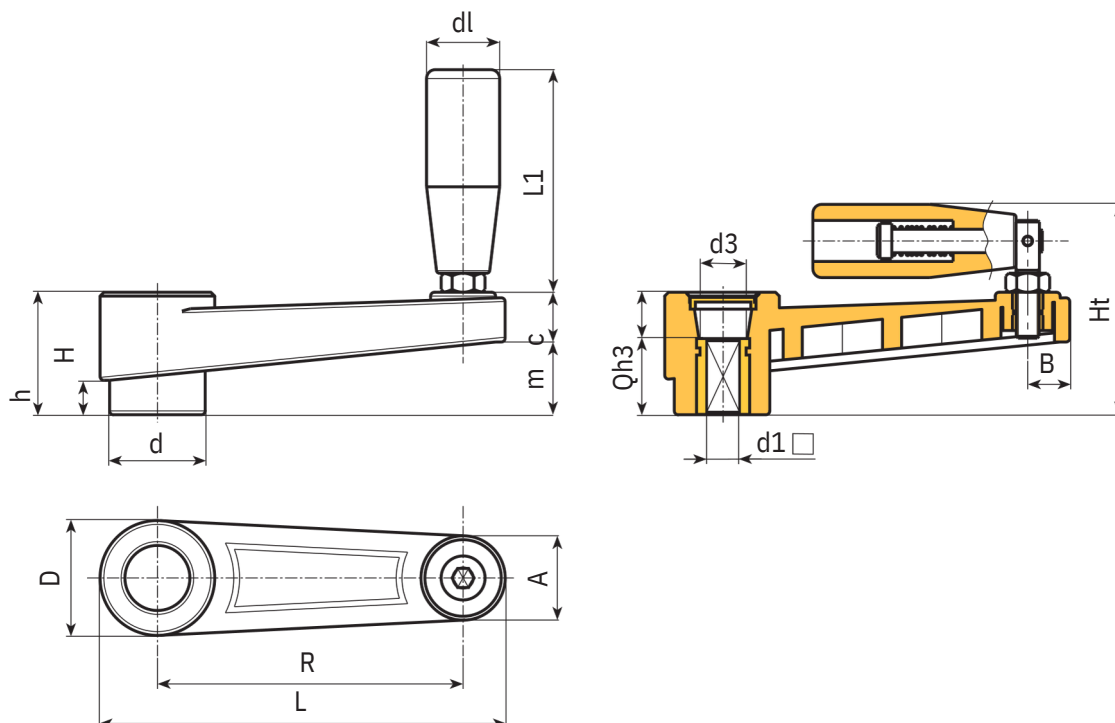
Brassinsertwiththreaded through hole.

Lateral handle:

Revolving,foldinghandle art. M136 [page 510].

Special requests:

- Upon request and for special quantities inserts can be supplied in different materials/with different coatings.
- Upon request and for special quantities available in the colours indicated in the chart [page 959].



Code	Art.	L	R	H	Ht	D	d	m	c	A	B	h	d3	h3	d1H10	Q	dl	L1	g
E242065.0001	E 242 0 65 .TQ 0 8 0 1 P	88,5	65	30	55	27,5	22	17	13	20	9,5	8	14,5	10	8	20	20	54	100
E242080.0001	E 242 0 8 0 .TQ 10 0 1 P	107	80	33,5	58	32	26	20,5	13	23	11	9	19,5	9,5	10	24	20	54	110
E 242110 . 0 0 0 1	E 242110 .TQ 1 2 0 1 P	140	110	39	68	35	29	25	14	24	12	11	19,5	11	12	28	23,5	76	156
E242140.0001	E 24214 0 .TQ 14 0 1 P	175	140	49	84	44	35,5	32	17	27	13	15,5	24	19	14	30	26	89	240
E242185.0001	E242185.TQ 170 1 P	223	185	55	90	47,5	40	38,5	16,5	27	14	17	29,5	21	17	34	26	97	430

E330

CRANKHANDLE WITH SQUARE HOLE AND REVOLVING HANDLE



Material:

Reinforced polyamide.

Resistant to oils and greases.

Surface finish:

Satin.

Colour:

Black (RAL9011).

Central cap:

Greypolyamide(RAL 7035). 13).

Alternative Cap colours:

Orange (RAL 2004 code 02).

Red (RAL 3000 code 16).

Blue (RAL 5015 code 07).

Green (RAL 6024 code 17).

Yellow (RAL 1021 code 10).

Black (RAL 9011 code 01).

Inserts:

Bushwith square through hole in black oxide treated steel (hole tolerance H10).

Lateral insert:

Brass insert with threaded through hole.

Lateral handle:

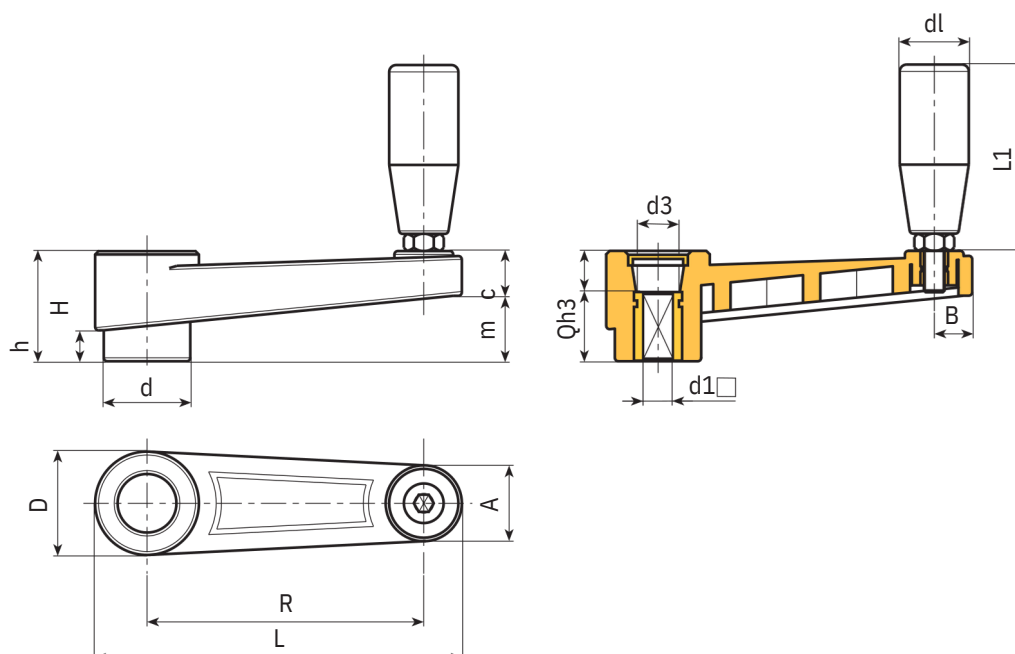
E330: Revolving handle art. M144 page (504).

E331: Revolving handle art. M145 page (509).

E332: Revolving handle art. M129 page (505).

Special requests:

- Upon request and for special quantities inserts can be supplied in different materials/with different coatings.
- Upon request and for special quantities available in the colours indicated in the chart [page 959].



Code	Art.	L	R	H	D	d	m	c	A	B	h	d3	h3	d1 _{H10}	Q	dL	L1	g
E330065.0001	E330065.TQ0601P	88,5	65	30	27,5	22	17	13	18	9,5	8	14,5	10	6	20	19	54	96
E330065.0002	E330065.TQ0801P	88,5	65	30	27,5	22	17	13	18	9,5	8	14,5	10	8	20	19	54	92
E330080.0002	E3 3 0 0 8 0 .TQ10 01P	107	80	33,5	32	26	20,5	13	23	11	9	19,5	9,5	10	24	19	54	105
E330110.0003	E330110.TQ1201P	140	110	39	35	29	25	14	24	12	11	19,5	11	12	28	21	66	152
E330140.0001	E330140.TQ1401P	175	140	49	44	35,5	32	17	27	13	15,5	24	19	14	30	23,5	76	242
E330185.0001	E3 3 0185 .TQ1701P	223	185	55	47,5	40	38,5	16,5	27	14	17	29,5	21	17	34	25,5	87	385

E331



PA6
+G.F.

UL94
HB

RoHS
COMPLIANT

CRANKHANDLE WITH SQUARE HOLE AND REVOLVING HANDLE M145

General features:

All unspecified features are identical to basic item E330.

Inserts:

Bush with square through hole in black oxide treated steel (hole tolerance H10).

Lateral handle:

Revolving handle art. M145 [page 509].



05

Code	Art.	L	R	H	D	d	m	c	A	B	h	d3	h3	d1H10	Q	dl	L1	g
E331065.0002	E3 310 65 .TQ 0 6 01P	89	65	30	27,5	22	17	13	20	9,5	8	14,5	10	6	20	20	56	111
E331065.0001	E3 310 65 .TQ 0 8 01P	89	65	30	27,5	22	17	13	20	9,5	8	14,5	10	8	20	20	56	117
E331080.0001	E3 310 8 0 .TQ10 01P	107	80	33,5	32	26	20,5	13	23	11	9	19,5	9,5	10	24	20	56	140
E331110.0001	E3 31110 .TQ1 2 0 1P	140	110	39	35	29	25	14	24	12	11	19,5	11	12	28	23,5	68	177
E331140.0001	E3 3114 0 .TQ14 0 1P	175	140	49	44	35,5	32	17	27	13	15,5	24	19	14	30	25	77	267
E331185.0001	E331185.TQ1701P	223	185	55	47,5	40	38,5	16,5	27	14	17	29,5	21	17	34	26	86	400

E332



PA6
+G.F.

UL94
HB

RoHS
COMPLIANT

CRANKHANDLE WITH SQUARE HOLE AND REVOLVING HANDLE M129

General features:

All unspecified features are identical to basic item E330.

Inserts:

Bush with square through hole in black oxide treated steel (hole tolerance H10).

Lateral handle:

Revolving handle art. M129 [page 505].



Code	Art.	L	R	H	D	d	m	c	A	B	h	d3	h3	d1H10	Q	dl	L1	g
E332065.0003	E3 32 0 65 .TQ 0 6 01P	89	65	30	27,5	22	17	13	20	9,5	8	14,5	10	6	20	20	52	101
E332065.0001	E3 32 0 65 .TQ 0 8 01P	89	65	30	27,5	22	17	13	20	9,5	8	14,5	10	8	20	20	52	107
E332080.0001	E3 32 0 8 0 .TQ10 01P	107	80	33,5	32	26	20,5	13	23	11	9	19,5	9,5	10	24	20	52	130
E332110.0001	E332110.TQ1201P	140	110	39	35	29	22	14	24	12	11	19,5	11	12	28	23,5	63	167
E332140.0003	E3 3214 0 .TQ14 01P	175	140	49	44	35,5	32	17	27	13	15,5	24	19	14	30	25	72	257
E332185.0001	E332185.TQ1701P	223	185	55	47,5	40	38,5	16,5	27	14	17	29,5	21	17	34	26	82	390

E330

CRANKHANDLE WITH SQUARE HOLE AND REVOLVING HANDLE



Material:

Reinforced polyamide.

Resistant to oils and greases.

Surface finish:

Satin.

Colour:

Black (RAL9011).

Central cap:

Greypolyamide(RAL 7035). 13).

Alternative Cap colours:

Orange (RAL 2004 code 02).

Red (RAL 3000 code 16).

Blue (RAL 5015 code 07).

Green (RAL 6024 code 17).

Yellow (RAL 1021 code 10).

Black (RAL 9011 code 01).

Inserts:

Bushwith square through hole in black oxide treated steel (hole tolerance H10).

Lateral insert:

Brass insert with threaded through hole.

Lateral handle:

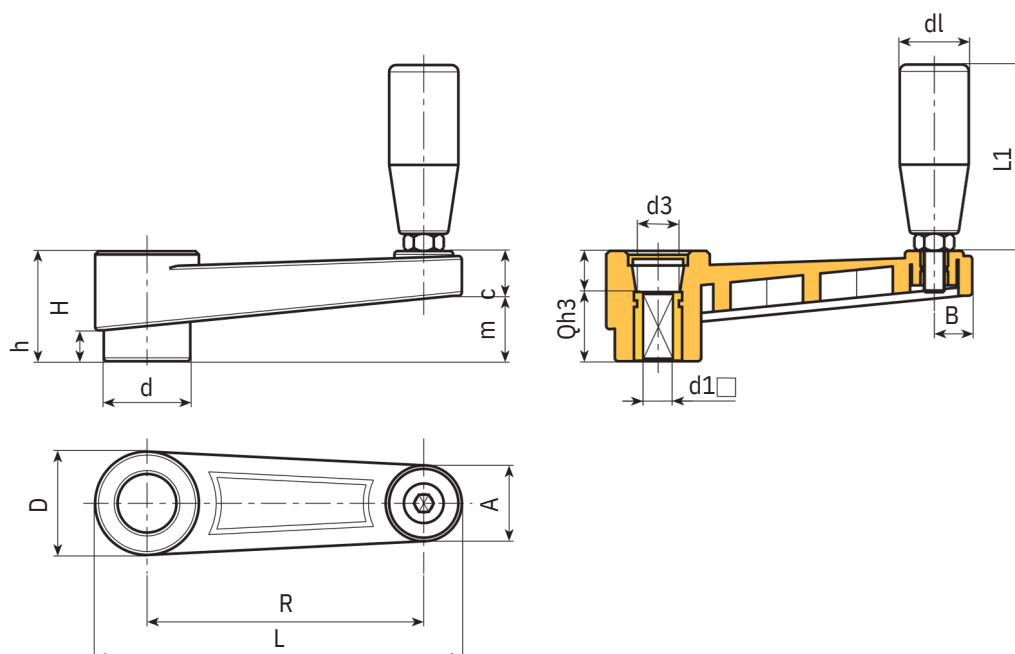
E330: Revolving handle art. M144 page (504).

E331: Revolving handle art. M145 page (509).

E332: Revolving handle art. M129 page (505).

Special requests:

- Upon request and for special quantities inserts can be supplied in different materials/with different coatings.
- Upon request and for special quantities available in the colours indicated in the chart [page 959].



Code	Art.	L	R	H	D	d	m	c	A	B	h	d3	h3	d1 _{H10}	Q	dl	L1	g
E330065.0001	E330065.TQ0601P	88,5	65	30	27,5	22	17	13	18	9,5	8	14,5	10	6	20	19	54	96
E330065.0002	E330065.TQ0801P	88,5	65	30	27,5	22	17	13	18	9,5	8	14,5	10	8	20	19	54	92
E330080.0002	E3 3 0 0 8 0 .TQ10 01P	107	80	33,5	32	26	20,5	13	23	11	9	19,5	9,5	10	24	19	54	105
E330110.0003	E330110.TQ1201P	140	110	39	35	29	25	14	24	12	11	19,5	11	12	28	21	66	152
E330140.0001	E330140.TQ1401P	175	140	49	44	35,5	32	17	27	13	15,5	24	19	14	30	23,5	76	242
E330185.0001	E3 3 0185 .TQ1701P	223	185	55	47,5	40	38,5	16,5	27	14	17	29,5	21	17	34	25,5	87	385

E331



PA6
+G.F.

UL94
HB

RoHS
COMPLIANT

CRANKHANDLE WITH SQUARE HOLE AND REVOLVING HANDLE M145

General features:

All unspecified features are identical to basic item E330.

Inserts:

Bush with square through hole in black oxide treated steel (hole tolerance H10).

Lateral handle:

Revolving handle art. M145 [page 509].



05

Code	Art.	L	R	H	D	d	m	c	A	B	h	d3	h3	d1H10	Q	dl	L1	g
E331065.0002	E3 310 65 .TQ 0 6 01P	89	65	30	27,5	22	17	13	20	9,5	8	14,5	10	6	20	20	56	111
E331065.0001	E3 310 65 .TQ 0 8 01P	89	65	30	27,5	22	17	13	20	9,5	8	14,5	10	8	20	20	56	117
E331080.0001	E3 310 8 0 .TQ10 01P	107	80	33,5	32	26	20,5	13	23	11	9	19,5	9,5	10	24	20	56	140
E331110.0001	E3 31110 .TQ1 2 0 1P	140	110	39	35	29	25	14	24	12	11	19,5	11	12	28	23,5	68	177
E331140.0001	E3 3114 0 .TQ14 0 1P	175	140	49	44	35,5	32	17	27	13	15,5	24	19	14	30	25	77	267
E331185.0001	E331185.TQ1701P	223	185	55	47,5	40	38,5	16,5	27	14	17	29,5	21	17	34	26	86	400

E332



PA6
+G.F.

UL94
HB

RoHS
COMPLIANT

CRANKHANDLE WITH SQUARE HOLE AND REVOLVING HANDLE M129

General features:

All unspecified features are identical to basic item E330.

Inserts:

Bush with square through hole in black oxide treated steel (hole tolerance H10).

Lateral handle:

Revolving handle art. M129 [page 505].



Code	Art.	L	R	H	D	d	m	c	A	B	h	d3	h3	d1H10	Q	dl	L1	g
E332065.0003	E3 32 0 65 .TQ 0 6 01P	89	65	30	27,5	22	17	13	20	9,5	8	14,5	10	6	20	20	52	101
E332065.0001	E3 32 0 65 .TQ 0 8 01P	89	65	30	27,5	22	17	13	20	9,5	8	14,5	10	8	20	20	52	107
E332080.0001	E3 32 0 8 0 .TQ10 01P	107	80	33,5	32	26	20,5	13	23	11	9	19,5	9,5	10	24	20	52	130
E332110.0001	E332110.TQ1201P	140	110	39	35	29	22	14	24	12	11	19,5	11	12	28	23,5	63	167
E332140.0003	E3 3214 0 .TQ14 01P	175	140	49	44	35,5	32	17	27	13	15,5	24	19	14	30	25	72	257
E332185.0001	E332185.TQ1701P	223	185	55	47,5	40	38,5	16,5	27	14	17	29,5	21	17	34	26	82	390

E330

CRANKHANDLE WITH SQUARE HOLE AND REVOLVING HANDLE



Material:

Reinforced polyamide.

Resistant to oils and greases.

Surface finish:

Satin.

Colour:

Black (RAL9011).

Central cap:

Greypolyamide(RAL 7035). 13).

Alternative Cap colours:

Orange (RAL 2004 code 02).

Red (RAL 3000 code 16).

Blue (RAL 5015 code 07).

Green (RAL 6024 code 17).

Yellow (RAL 1021 code 10).

Black (RAL 9011 code 01).

Inserts:

Bushwith square through hole in black oxide treated steel (hole tolerance H10).

Lateral insert:

Brass insert with threaded through hole.

Lateral handle:

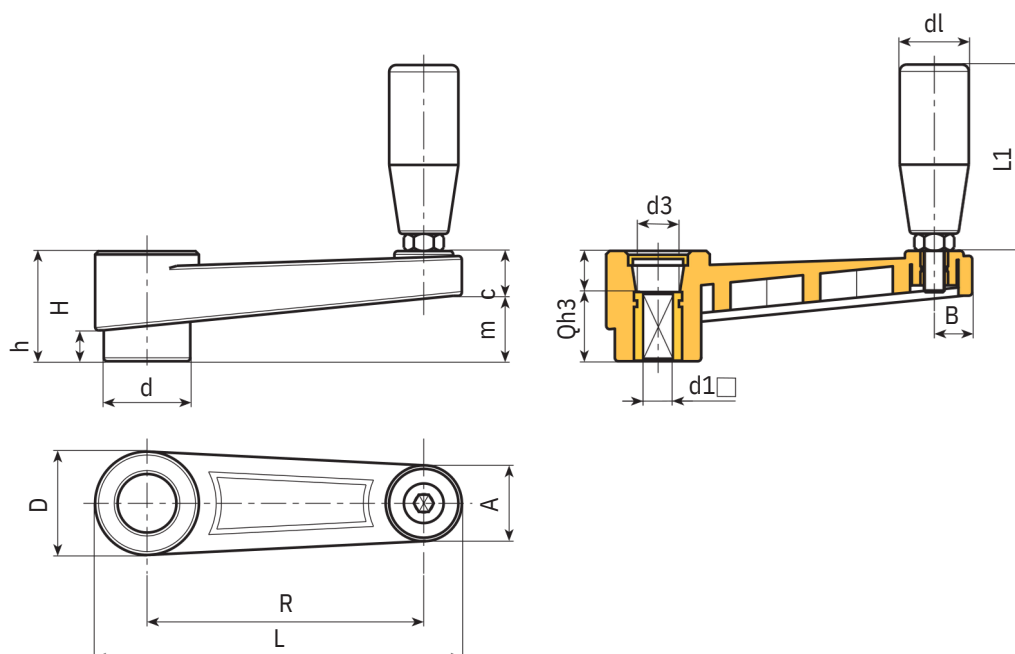
E330: Revolving handle art. M144 page (504).

E331: Revolving handle art. M145 page (509).

E332: Revolving handle art. M129 page (505).

Special requests:

- Upon request and for special quantities inserts can be supplied in different materials/with different coatings.
- Upon request and for special quantities available in the colours indicated in the chart [page 959].



Code	Art.	L	R	H	D	d	m	c	A	B	h	d3	h3	d1 _{H10}	Q	dl	L1	g
E330065.0001	E330065.TQ0601P	88,5	65	30	27,5	22	17	13	18	9,5	8	14,5	10	6	20	19	54	96
E330065.0002	E330065.TQ0801P	88,5	65	30	27,5	22	17	13	18	9,5	8	14,5	10	8	20	19	54	92
E330080.0002	E3 3 0 0 8 0 .TQ10 01P	107	80	33,5	32	26	20,5	13	23	11	9	19,5	9,5	10	24	19	54	105
E330110.0003	E330110.TQ1201P	140	110	39	35	29	25	14	24	12	11	19,5	11	12	28	21	66	152
E330140.0001	E330140.TQ1401P	175	140	49	44	35,5	32	17	27	13	15,5	24	19	14	30	23,5	76	242
E330185.0001	E3 3 0185 .TQ1701P	223	185	55	47,5	40	38,5	16,5	27	14	17	29,5	21	17	34	25,5	87	385

E511

INDEXED CRANK HANDLE WITH SMOOTH BORE INSERT AND REVOLVING HANDLE M145



General features:

All unspecified features are identical to basic item E520.

Inserts:

Galvanised steel insert with blind smooth bore (bore tolerance H10).

Lateral handle:

Revolving handle art. M145 page (509).



05

Code	Art.	L	R	H	D	d	m	c	A	B	h	H1	d1 _{H10}	Q	dl	L1	g
E511065.0001	E511065.TP0501	88,5	65	46	27	19	3	13	17	9	10	-	5	22	20	56	92
E511080.0001	E511080.TP0501	109	80	50	34	24,5	0	13	22	12	11	54	5	28	23,5	68	187
E511110.0001	E511110.TP0501	139	110	50	34	24,5	3	13	22	12	11	54	5	28	23,5	68	205
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							3										
							3										

E516

INDEXED CRANK HANDLE WITH SMOOTH BORE INSERT AND REVOLVING HANDLE M129



General features:

All unspecified features are identical to basic item E520.

Inserts:

Galvanised steel insert with blind smooth bore (bore tolerance H10).

Lateral handle:

Revolving handle art. M129 page (505).



Code	Art.	L	R	H	D	d	m	c	A	B	h	H1	d1 _{H10}	Q	dl	L1	g
E516065.0002	E516065.TP0501	88,5	65	46	27	19	3	13	17	9	10	-	5	22	20	52	95
E516080.0002	E516080.TP0501	109	80	50	34	24,5	0	13	22	12	11	54	5	28	23,5	63	197
E516110.0002	E516110.TP0501	139	110	50	34	24,5	3	13	22	12	11	54	5	28	23,5	63	207
							3										
							3										
							3										



E520

INDEXED CRANK HANDLE WITH SMOOTH BORE INSERT AND REVOLVING HANDLE

Material:

Reinforced polyamide. Resistant to oils and greases.

Surface finish:

Satin.

Colour:

Black (RAL9011).

Inserts:

Galvanised steel insert with blind smooth bore (bore tolerance H10).

Lateral insert:

Brass insert with threaded through hole.

Spring:

Stainless steel spring (Aisi 302).

Lateral handle:

E520: Revolving handle art. M144 page (504).

E511: Revolving handle art. M145 page (509).

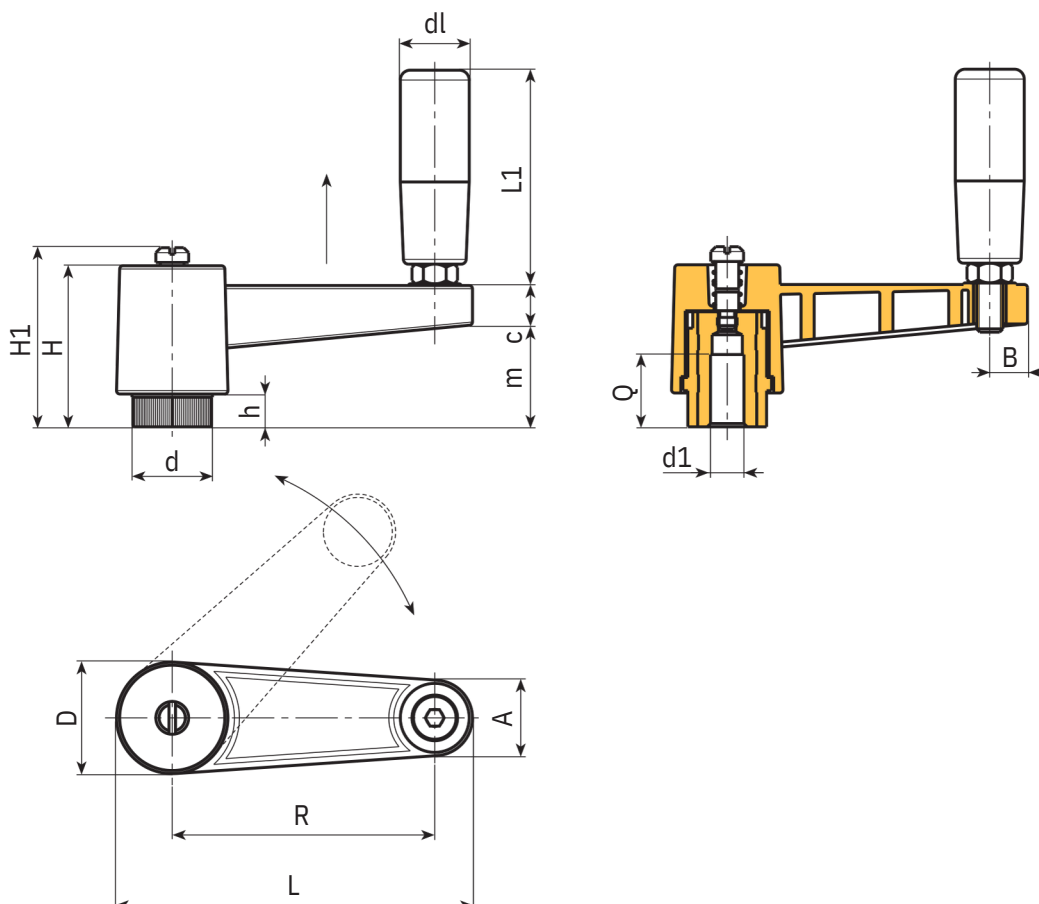
E516: Revolving handle art. M129 page (505).

Fixing screw:

Black oxide treated steel screw with slotted head.

Special requests:

- Upon request and for special quantities inserts can be supplied in different materials.
- Upon request and for special quantities lever body available in the colours indicated in the chart [page 959].



Code	Art.	L	R	H	D	d	m	c	A	B	h	H1	d1 _{H10}	Q	dl	L1	g
E520065.0003	E520065.TP0501	88,5	65	46	27	19	29	13	17	9	10	-	5	22	19	54	83
E520080.0006	E520080.TP0501	109	80	50	34	24,5	33	13	22	12	11	54	5	28	21	66	177
E520110.0004	E520110.TP0501	139	110	50	34	24,5	33	13	22	12	11	54	5	28	21	66	200

E513



INDEXED CRANK HANDLE WITH THREADED INSERT AND REVOLVING HANDLE M145

General features:

All unspecified features are identical to basic item E518.

Inserts:

Galvanised steel insert with female threaded hole (thread tolerance 6H).

Lateral handle:

Revolving handle art. M145 page (509).



05

Code	Art.	L	R	H	D	d	m	c	A	B	h	H1	d1 _{6H}	Q	dl	L1	g
E513065.0001	E513065.TM0801	88,5	65	46	27	19	3	13	17	9	10	-	M8	18	20	56	96
E513065.0002	E513065.TM1001	88,5	65	46	27	19	0	13	17	9	10	-	M10	18	20	56	92
E513065.0003	E513065.TM1201	88,5	65	46	27	19	3	13	17	9	10	-	M12	18	20	56	91
E513080.0001	E513080.TM1201	109	80	50	34	24,5	0	13	22	12	11	54	M12	22	23,5	68	177
E513080.0002	E513080.TM1401	109	80	50	34	24,5	3	13	22	12	11	54	M14	22	23,5	68	179
E513080.0003	E513080.TM1601	109	80	50	34	24,5	0	13	22	12	11	54	M16	22	23,5	68	169
E513110.0001	E 513110 .T.M1 2 0 1	139	110	50	34	24,5	3	13	22	12	11	54	M12	22	23,5	68	196
E513110.0002	E 513110 .T.M14 0 1	139	110	50	34	24,5	3	13	22	12	11	54	M14	22	23,5	68	200
E513110.0003	E 513110 .T.M16 0 1	139	110	50	34	24,5	3	13	22	12	11	54	M16	22	23,5	68	205

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E517



INDEXED CRANK HANDLE WITH THREADED INSERT AND REVOLVING HANDLE M129

General features:

All unspecified features are identical to basic item E518.

Inserts:

Galvanised steel insert with female threaded hole (thread tolerance 6H).

Lateral handle:

Revolving handle art. M129 page (505).



Code	Art.	L	R	H	D	d	m	c	A	B	h	H1	d1 _{6H}	Q	dl	L1	g
E517065.0001	E517065.TM0801	88,5	65	46	27	19	3	13	20	9	10	-	M8	18	20	52	106
E517065.0002	E517065.TM1001	88,5	65	46	27	19	0	13	20	9	10	-	M10	18	20	52	102
E517065.0003	E517065.TM1201	88,5	65	46	27	19	3	13	20	9	10	-	M12	18	20	52	102
E517080.0001	E517080.TM1201	109	80	50	34	24,5	0	13	23,5	12	11	54	M12	22	23,5	63	187
E517080.0002	E517080.TM1401	109	80	50	34	24,5	3	13	23,5	12	11	54	M14	22	23,5	63	189
E517080.0003	E517080.TM1601	109	80	50	34	24,5	0	13	23,5	12	11	54	M16	22	23,5	63	179
E517110.0001	E 517110 .T.M1 2 0 1	139	110	50	34	24,5	3	13	23,5	12	11	54	M12	22	23,5	63	206
E517110.0002	E 517110 .T.M14 0 1	139	110	50	34	24,5	3	13	23,5	12	11	54	M14	22	23,5	63	198
E517110.0003	E 517110 .T.M16 0 1	139	110	50	34	24,5	3	13	23,5	12	11	54	M16	22	23,5	63	196

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E518



INDEXED CRANK HANDLE WITH THREADED INSERT AND REVOLVING HANDLE

Material:
Reinforced polyamide. Resistant to oils and greases.

Surface finish:

Satin.

Colour:

Black (RAL9011).

Inserts:

Galvanised steel insert with female threaded hole (thread tolerance 6H).

Lateral insert:

Brass insert with threaded through hole.

Lateral handle:

E518: Revolving handle art. M144 page (504).

E513: Revolving handle art. M145 page (509).

E517: Revolving handle art. M129 page (505).

Spring:

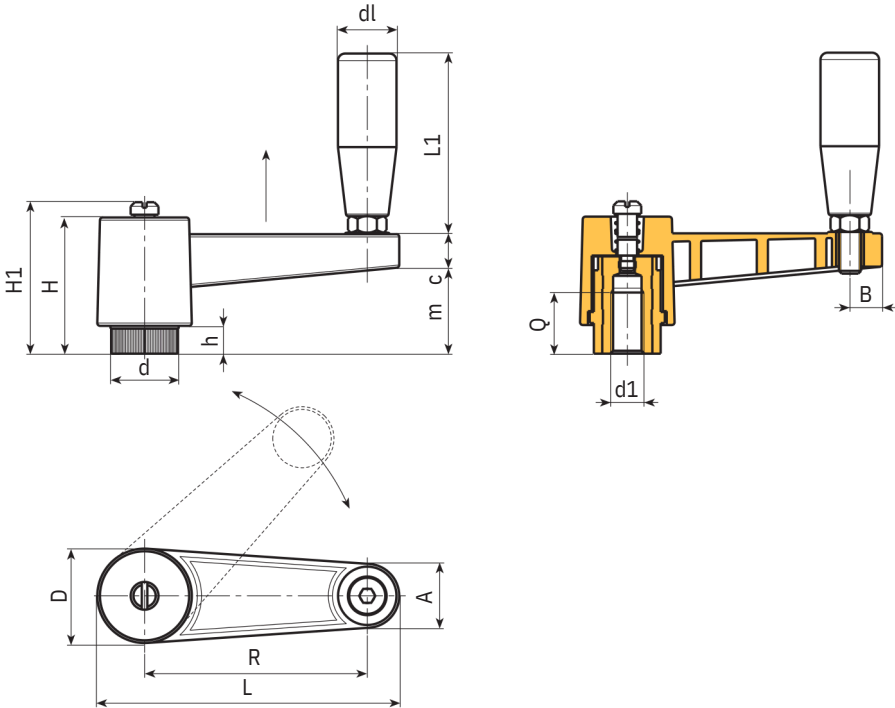
Stainless steel spring (Aisi 302).

Fixing screw:

Black oxide treated steel screw with slotted head.

Special requests:

- Upon request and for special quantities insert handle body available in the colours indicated in the chart [page 959].



Code	Art.	L	R	H	D	d	m	c	A	B	h	H1	d1 _{6H}	Q	dl	L1	g
E518065.0001	E518065.TM0801	88,5	65	46	27	19	3	13	17	9	10	-	M8	18	19	54	94
E518065.0002	E518065.TM1001	88,5	65	46	27	19	0	13	17	9	10	-	M10	18	19	54	90
E518065.0003	E518065.TM1201	88,5	65	46	27	19	3	13	17	9	10	-	M12	18	19	54	90
E518080.0001	E518080.TM1201	109	80	50	34	24,5	0	13	22	12	11	54	M12	22	21	66	172
E518080.0002	E518080.TM1401	109	80	50	34	24,5	3	13	22	12	11	54	M14	22	21	66	164
E518080.0003	E518080.TM1601	109	80	50	34	24,5	0	13	22	12	11	54	M16	22	21	66	154
E518110.0001	E 518110 .T M1 2 0 1	139	110	50	34	24,5	3	13	22	12	11	54	M12	22	21	66	181
E518110.0002	E 518110 .T M14 0 1	139	110	50	34	24,5	3	13	22	12	11	54	M14	22	21	66	195
E518110.0003	E 518110 .T M16 0 1	139	110	50	34	24,5	3	13	22	12	11	54	M16	22	21	66	198



E511

INDEXED CRANK HANDLE WITH SMOOTH BORE INSERT AND REVOLVING HANDLE M145



General features:

All unspecified features are identical to basic item E520.

Inserts:

Galvanised steel insert with blind smooth bore (bore tolerance H10).

Lateral handle:

Revolving handle art. M145 page (509).



05

Code	Art.	L	R	H	D	d	m	c	A	B	h	H1	d1 _{H10}	Q	dl	L1	g
E511065.0001	E511065.TP0501	88,5	65	46	27	19	3	13	17	9	10	-	5	22	20	56	92
E511080.0001	E511080.TP0501	109	80	50	34	24,5	0	13	22	12	11	54	5	28	23,5	68	187
E511110.0001	E511110.TP0501	139	110	50	34	24,5	3	13	22	12	11	54	5	28	23,5	68	205
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							3										
							3										

E516

INDEXED CRANK HANDLE WITH SMOOTH BORE INSERT AND REVOLVING HANDLE M129



General features:

All unspecified features are identical to basic item E520.

Inserts:

Galvanised steel insert with blind smooth bore (bore tolerance H10).

Lateral handle:

Revolving handle art. M129 page (505).



Code	Art.	L	R	H	D	d	m	c	A	B	h	H1	d1 _{H10}	Q	dl	L1	g
E516065.0002	E516065.TP0501	88,5	65	46	27	19	3	13	17	9	10	-	5	22	20	52	95
E516080.0002	E516080.TP0501	109	80	50	34	24,5	0	13	22	12	11	54	5	28	23,5	63	197
E516110.0002	E516110.TP0501	139	110	50	34	24,5	3	13	22	12	11	54	5	28	23,5	63	207
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							3										



E520

INDEXED CRANK HANDLE WITH SMOOTH BORE INSERT AND REVOLVING HANDLE

Material:

Reinforced polyamide. Resistant to oils and greases.

Surface finish:

Satin.

Colour:

Black (RAL9011).

Inserts:

Galvanised steel insert with blind smooth bore (bore tolerance H10).

Lateral insert:

Brass insert with threaded through hole.

Spring:

Stainless steel spring (Aisi 302).

Lateral handle:

E520: Revolving handle art. M144 page (504).

E511: Revolving handle art. M145 page (509).

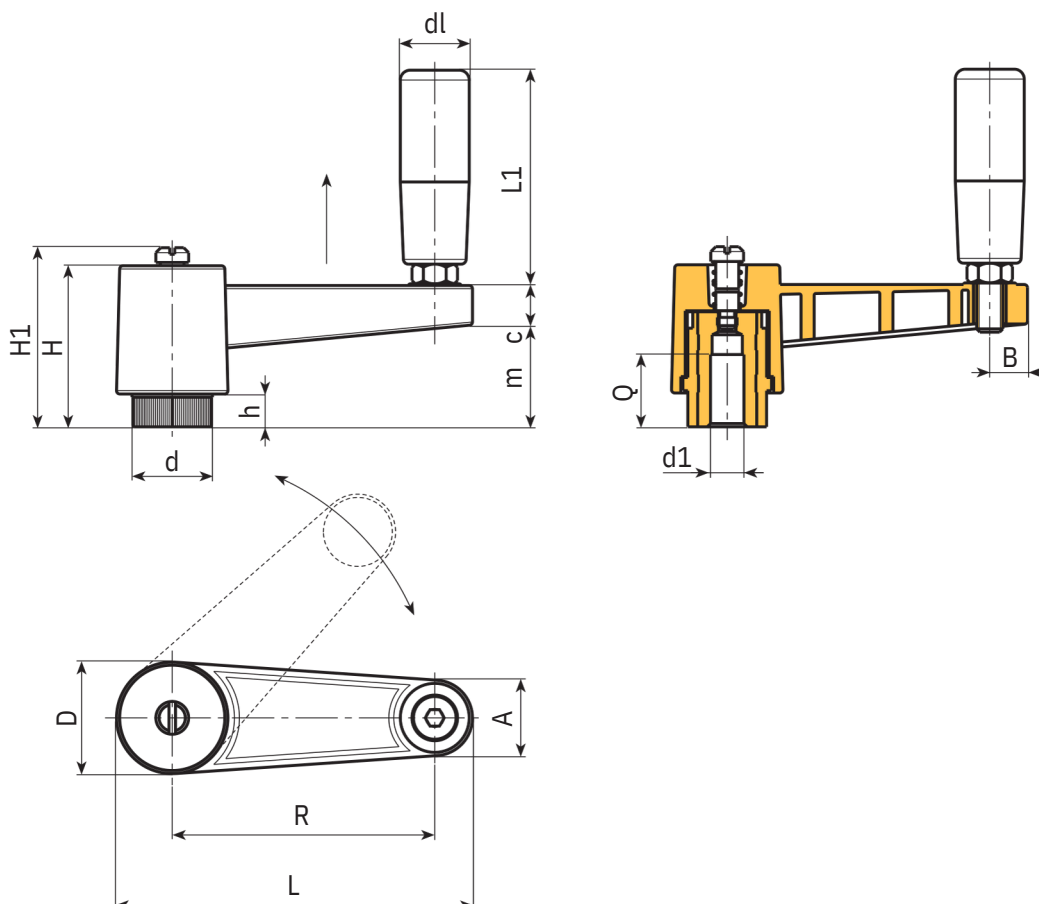
E516: Revolving handle art. M129 page (505).

Fixing screw:

Black oxide treated steel screw with slotted head.

Special requests:

- Upon request and for special quantities inserts can be supplied in different materials.
- Upon request and for special quantities lever body available in the colours indicated in the chart [page 959].



Code	Art.	L	R	H	D	d	m	c	A	B	h	H1	d1 _{H10}	Q	dl	L1	g
E520065.0003	E520065.TP0501	88,5	65	46	27	19	29	13	17	9	10	-	5	22	19	54	83
E520080.0006	E520080.TP0501	109	80	50	34	24,5	33	13	22	12	11	54	5	28	21	66	177
E520110.0004	E520110.TP0501	139	110	50	34	24,5	33	13	22	12	11	54	5	28	21	66	200

E513



INDEXED CRANK HANDLE WITH THREADED INSERT AND REVOLVING HANDLE M145

General features:

All unspecified features are identical to basic item E518.

Inserts:

Galvanised steel insert with female threaded hole (thread tolerance 6H).

Lateral handle:

Revolving handle art. M145 page (509).



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Code	Art.	L	R	H	D	d	m	c	A	B	h	H1	d1 _{6H}	Q	dl	L1	g
E513065.0001	E513065.TM0801	88,5	65	46	27	19	3	13	17	9	10	-	M8	18	20	56	96
E513065.0002	E513065.TM1001	88,5	65	46	27	19	0	13	17	9	10	-	M10	18	20	56	92
E513065.0003	E513065.TM1201	88,5	65	46	27	19	3	13	17	9	10	-	M12	18	20	56	91
E513080.0001	E513080.TM1201	109	80	50	34	24,5	0	13	22	12	11	54	M12	22	23,5	68	177
E513080.0002	E513080.TM1401	109	80	50	34	24,5	3	13	22	12	11	54	M14	22	23,5	68	179
E513080.0003	E513080.TM1601	109	80	50	34	24,5	0	13	22	12	11	54	M16	22	23,5	68	169
E513110.0001	E 513110 .T.M1 2 0 1	139	110	50	34	24,5	3	13	22	12	11	54	M12	22	23,5	68	196
E513110.0002	E 513110 .T.M14 0 1	139	110	50	34	24,5	3	13	22	12	11	54	M14	22	23,5	68	200
E513110.0003	E 513110 .T.M16 0 1	139	110	50	34	24,5	3	13	22	12	11	54	M16	22	23,5	68	205

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E517



INDEXED CRANK HANDLE WITH THREADED INSERT AND REVOLVING HANDLE M129

General features:

All unspecified features are identical to basic item E518.

Inserts:

Galvanised steel insert with female threaded hole (thread tolerance 6H).

Lateral handle:

Revolving handle art. M129 page (505).



Code	Art.	L	R	H	D	d	m	c	A	B	h	H1	d1 _{6H}	Q	dl	L1	g
E517065.0001	E517065.TM0801	88,5	65	46	27	19	3	13	20	9	10	-	M8	18	20	52	106
E517065.0002	E517065.TM1001	88,5	65	46	27	19	0	13	20	9	10	-	M10	18	20	52	102
E517065.0003	E517065.TM1201	88,5	65	46	27	19	3	13	20	9	10	-	M12	18	20	52	102
E517080.0001	E517080.TM1201	109	80	50	34	24,5	0	13	23,5	12	11	54	M12	22	23,5	63	187
E517080.0002	E517080.TM1401	109	80	50	34	24,5	3	13	23,5	12	11	54	M14	22	23,5	63	189
E517080.0003	E517080.TM1601	109	80	50	34	24,5	0	13	23,5	12	11	54	M16	22	23,5	63	179
E517110.0001	E 517110 .T.M1 2 0 1	139	110	50	34	24,5	3	13	23,5	12	11	54	M12	22	23,5	63	206
E517110.0002	E 517110 .T.M14 0 1	139	110	50	34	24,5	3	13	23,5	12	11	54	M14	22	23,5	63	198
E517110.0003	E 517110 .T.M16 0 1	139	110	50	34	24,5	3	13	23,5	12	11	54	M16	22	23,5	63	196

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E518



INDEXED CRANK HANDLE WITH THREADED INSERT AND REVOLVING HANDLE

Material:
Reinforced polyamide. Resistant to oils and greases.

Surface finish:

Satin.

Colour:

Black (RAL9011).

Inserts:

Galvanised steel insert with female threaded hole (thread tolerance 6H).

Lateral insert:

Brass insert with threaded through hole.

Lateral handle:

E518: Revolving handle art. M144 page (504).

E513: Revolving handle art. M145 page (509).

E517: Revolving handle art. M129 page (505).

Spring:

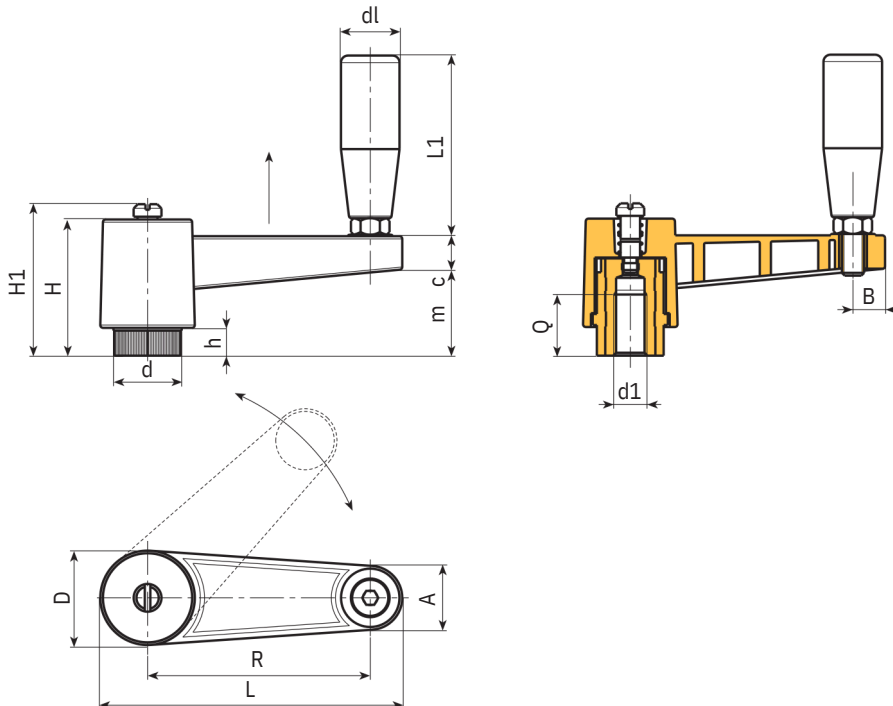
Stainless steel spring (Aisi 302).

Fixing screw:

Black oxide treated steel screw with slotted head.

Special requests:

- Upon request and for special quantities insert handle body available in the colours indicated in the chart [page 959].



Code	Art.	L	R	H	D	d	m	c	A	B	h	H1	d1 _{6H}	Q	dl	L1	g
E518065.0001	E518065.TM0801	88,5	65	46	27	19	3	13	17	9	10	-	M8	18	19	54	94
E518065.0002	E518065.TM1001	88,5	65	46	27	19	0	13	17	9	10	-	M10	18	19	54	90
E518065.0003	E518065.TM1201	88,5	65	46	27	19	3	13	17	9	10	-	M12	18	19	54	90
E518080.0001	E518080.TM1201	109	80	50	34	24,5	0	13	22	12	11	54	M12	22	21	66	172
E518080.0002	E518080.TM1401	109	80	50	34	24,5	3	13	22	12	11	54	M14	22	21	66	164
E518080.0003	E518080.TM1601	109	80	50	34	24,5	0	13	22	12	11	54	M16	22	21	66	154
E518110.0001	E 518110 .T M1 2 0 1	139	110	50	34	24,5	3	13	22	12	11	54	M12	22	21	66	181
E518110.0002	E 518110 .T M14 0 1	139	110	50	34	24,5	3	13	22	12	11	54	M14	22	21	66	195
E518110.0003	E 518110 .T M16 0 1	139	110	50	34	24,5	3	13	22	12	11	54	M16	22	21	66	198



E518



INDEXED CRANK HANDLE WITH THREADED INSERT AND REVOLVING HANDLE

Material:
Reinforced polyamide. Resistant to oils and greases.

Surface finish:

Satin.

Colour:

Black (RAL9011).

Inserts:

Galvanised steel insert with female threaded hole (thread tolerance 6H).

Lateral insert:

Brass insert with threaded through hole.

Lateral handle:

E518: Revolving handle art. M144 page (504).

E513: Revolving handle art. M145 page (509).

E517: Revolving handle art. M129 page (505).

Spring:

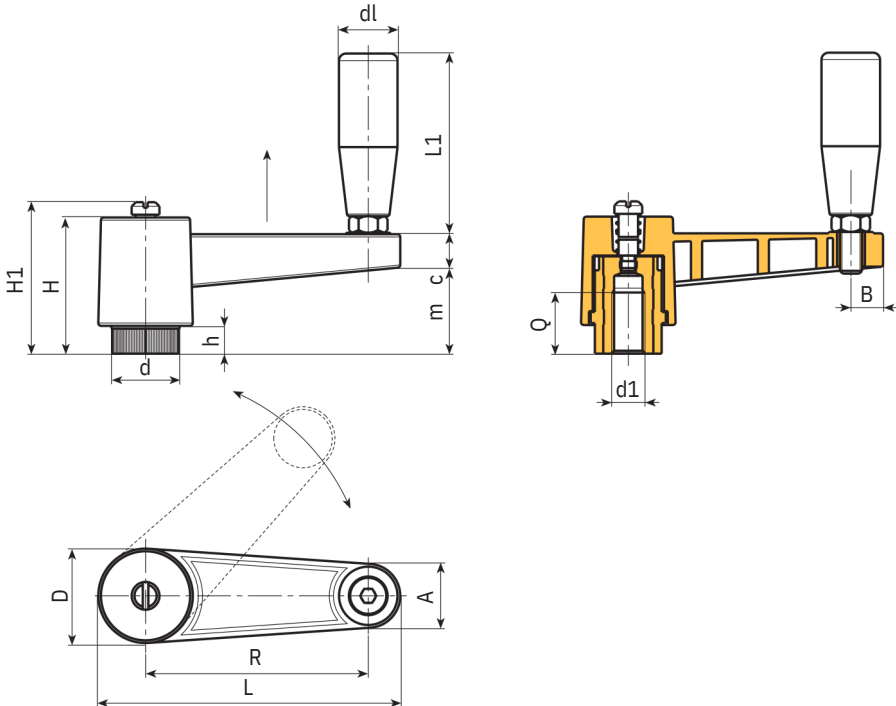
Stainless steel spring (Aisi 302).

Fixing screw:

Black oxide treated steel screw with slotted head.

Special requests:

- Upon request and for special quantities insert handle body available in the colours indicated in the chart [page 959].



Code	Art.	L	R	H	D	d	m	c	A	B	h	H1	d1 _{6H}	Q	dl	L1	g
E518065.0001	E518065.TM0801	88,5	65	46	27	19	3	13	17	9	10	-	M8	18	19	54	94
E518065.0002	E518065.TM1001	88,5	65	46	27	19	0	13	17	9	10	-	M10	18	19	54	90
E518065.0003	E518065.TM1201	88,5	65	46	27	19	3	13	17	9	10	-	M12	18	19	54	90
E518080.0001	E518080.TM1201	109	80	50	34	24,5	0	13	22	12	11	54	M12	22	21	66	172
E518080.0002	E518080.TM1401	109	80	50	34	24,5	3	13	22	12	11	54	M14	22	21	66	164
E518080.0003	E518080.TM1601	109	80	50	34	24,5	0	13	22	12	11	54	M16	22	21	66	154
E518110.0001	E 518110 .T M1 2 0 1	139	110	50	34	24,5	3	13	22	12	11	54	M12	22	21	66	181
E518110.0002	E 518110 .T M14 0 1	139	110	50	34	24,5	3	13	22	12	11	54	M14	22	21	66	195
E518110.0003	E 518110 .T M16 0 1	139	110	50	34	24,5	3	13	22	12	11	54	M16	22	21	66	198



E519



INDEXED CRANK HANDLE WITH THREADED INSERT AND FOLDING HANDLE

Material:

Reinforced polyamide. Resistant to oils and greases.

Surface finish:

Satin.

Colour:

Black (RAL9011).

Inserts:

Galvanised steel insert with female threaded hole (thread tolerance 6H).

Lateral insert:

Brass insert with threaded through hole.

Spring:

Stainless steel spring (Aisi 302).

Fixing screw:

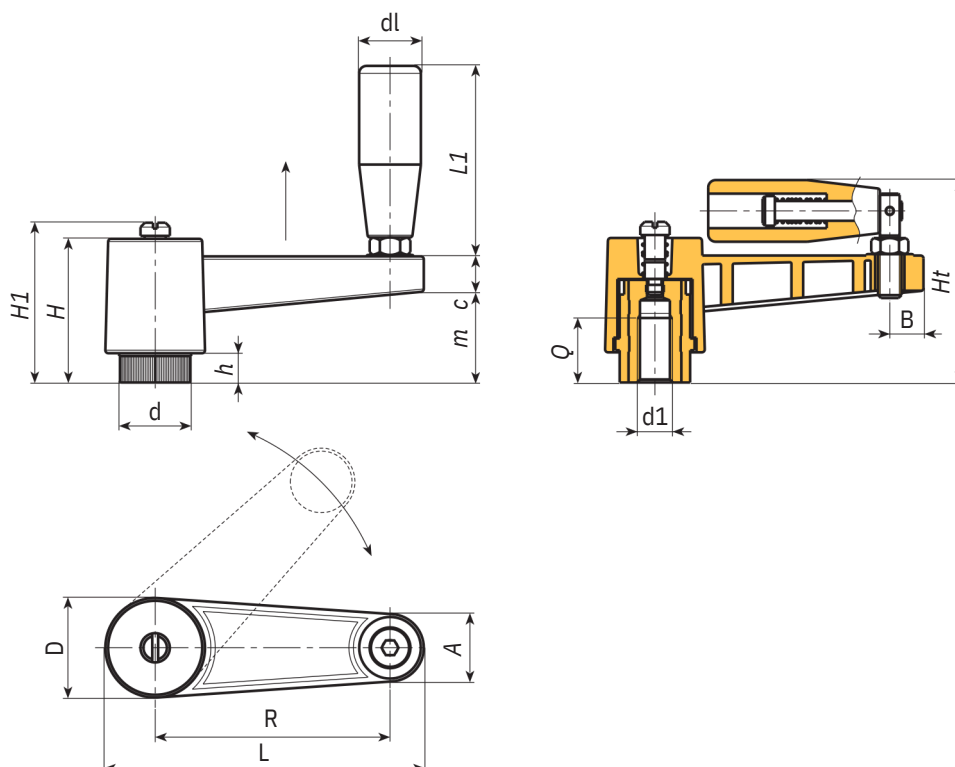
Black oxidized steel screw with slotted head.

Lateral handle:

Revolving, folding handle art. M136 [page ()].

Special requests:

- Different materials for special quantities inserts can be supplied in
- Upon request and for special quantities crank handle body available in the colours indicated in the chart [page 959].



Code	Art.	L	R	H	D	d	m	c	A	B	h	H1	Ht	d1 _{6H}	Q	dl	L1	g
E519065.0001	E519065.TM0801	87,5	65	46	27	19	3	13	17	9	10	-	67,5	M8	18	20	54	104
E519065.0002	E519065.TM1001	87,5	65	46	27	19	0	13	17	9	10	-	67,5	M10	18	20	54	102
E519065.0003	E519065.TM1201	87,5	65	46	27	19	3	13	17	9	10	-	67,5	M12	18	20	54	100
E519080.0002	E519080.TM1201	109	80	50	34	24,5	0	13	22	12	11	54	75	M12	22	23,5	76	185
E519080.0003	E519080.TM1401	109	80	50	34	24,5	3	13	22	12	11	54	75	M14	22	23,5	76	180
E519080.0004	E519080.TM1601	109	80	50	34	24,5	0	13	22	12	11	54	75	M16	22	23,5	76	174
E519110.0002	E519110.TM1201	139	110	50	34	24,5	3	13	22	12	11	54	75	M12	22	23,5	76	199
E519110.0003	E 519 110 .T M14 0 1	139	110	50	34	24,5	3	13	22	12	11	54	75	M14	22	23,5	76	220
E519110.0004	E 519 110 .T M16 0 1	139	110	50	34	24,5	3	13	22	12	11	54	75	M16	22	23,5	76	225



E520

INDEXED CRANK HANDLE WITH SMOOTH BORE INSERT AND REVOLVING HANDLE

Material:

Reinforced polyamide. Resistant to oils and greases.

Surface finish:

Satin.

Colour:

Black (RAL9011).

Inserts:

Galvanised steel insert with blind smooth bore (bore tolerance H10).

Lateral insert:

Brass insert with threaded through hole.

Spring:

Stainless steel spring (Aisi 302).

Lateral handle:

E520: Revolving handle art. M144 page (504).

E511: Revolving handle art. M145 page (509).

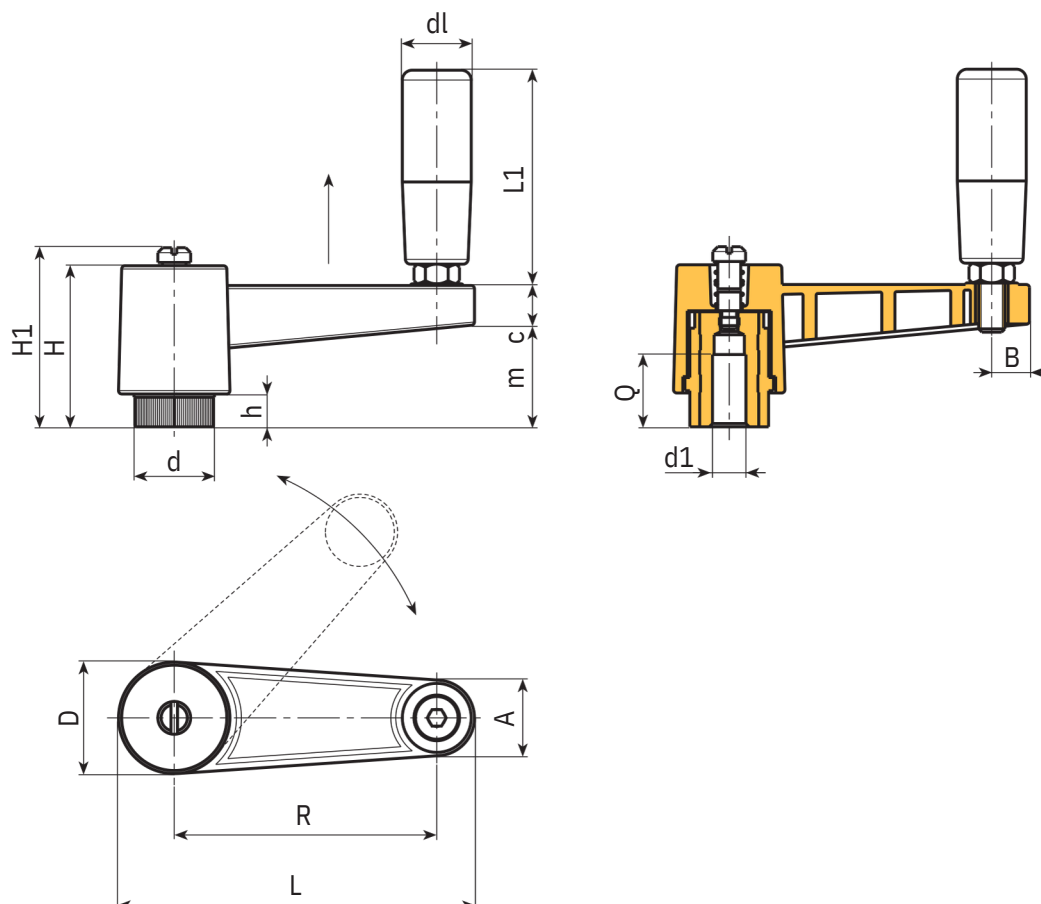
E516: Revolving handle art. M129 page (505).

Fixing screw:

Black oxide treated steel screw with slotted head.

Special requests:

- Upon request and for special quantities inserts can be supplied in different materials.
- Upon request and for special quantities lever body available in the colours indicated in the chart [page 959].



Code	Art.	L	R	H	D	d	m	c	A	B	h	H1	d1 _{H10}	Q	dl	L1	g
E520065.0003	E520065.TP0501	88,5	65	46	27	19	29	13	17	9	10	-	5	22	19	54	83
E520080.0006	E520080.TP0501	109	80	50	34	24,5	33	13	22	12	11	54	5	28	21	66	177
E520110.0004	E520110.TP0501	139	110	50	34	24,5	33	13	22	12	11	54	5	28	21	66	200

E521



INDEXED CRANK HANDLE WITH SMOOTH BORE INSERT AND FOLDING HANDLE

Material:

Reinforced polyamide. Resistant to oils and greases.

Surface finish:

Satin.

Colour:

Black (RAL9011).

Inserts:

Galvanised steel insert with blind smooth bore (bore tolerance H10).

Lateral insert:

Brass insert with threaded through hole.

Spring:

Stainless steel spring (Aisi 302).

Fixing screw:

Black oxidetreated steel screw with slotted head.

Lateral handle:

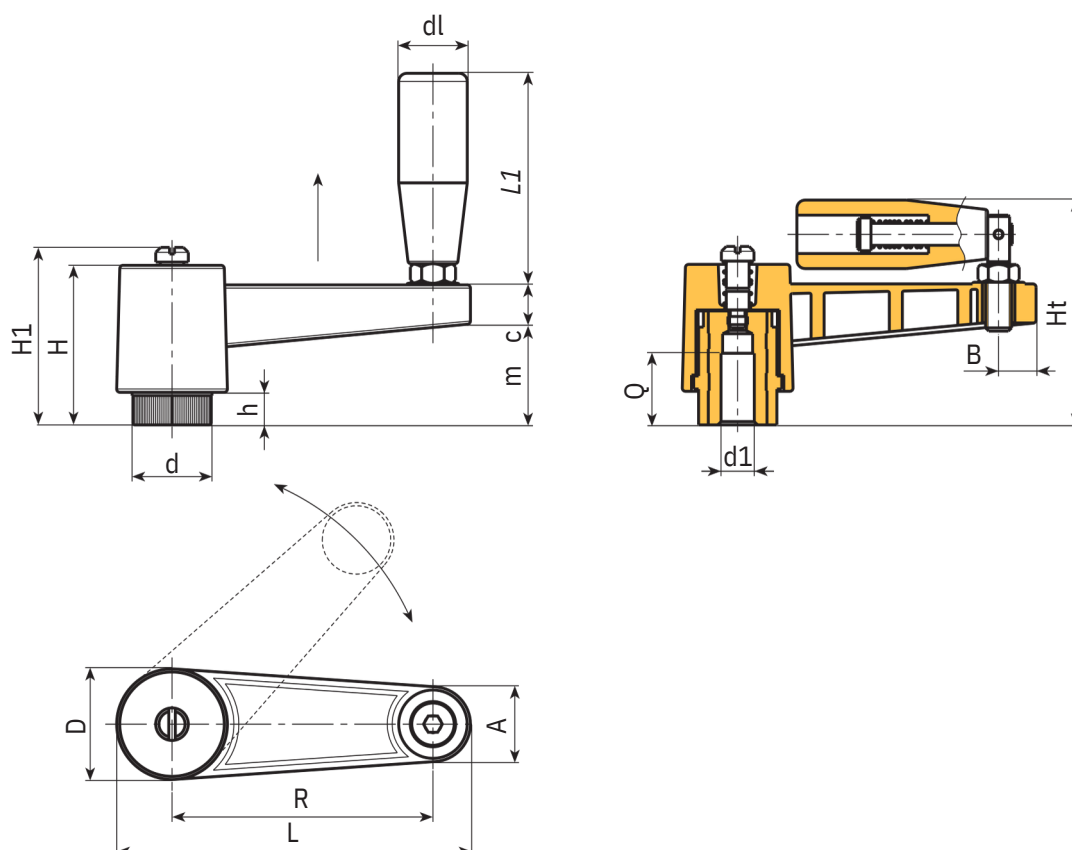
Revolving, folding handle art. M136 [page ()].

Special requests:

- Upon request and for special quantities inserts can be supplied in different materials.
- Upon request and for special quantities crank handle body available in the colours indicated in the chart [page 959].



05



Code	Art.	L	R	H	D	d	m	c	A	B	h	H1	Ht	d1 _{H10}	Q	dl	L1	g
E521065.0003	E521065.TP0501	87,5	65	4	27	19	29	13	17	9	10	-	67,5	5	22	20	54	105
E521080.0005	E521080.TP0501	109	80	6	34	24,5	33	13	22	12	11	54	75	5	28	23,5	76	190
E521110.0006	E521110.TP0501	139	110	5	34	24,5	33	13	22	12	11	54	75	5	28	23,5	76	220

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