Mold Dating Insert Family

Features and Benefits of Mold Dating Inserts

Dual-Ring Mold Dating Insert

- Double indexable: both arrows independently "click into position"
- All inserts remain flush when rotated

Dual-Ring Mold Dating Insert

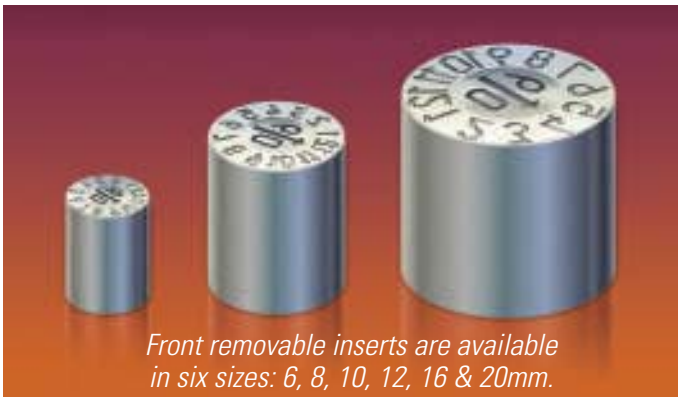
Indexable Mold Dating Inserts

- Provides indexable snap-in-place alignment of arrow
- Unique design keeps inner insert flush for three full turns
- 4mm diameter available in Indexable Insert only

Indexable inserts are available in seven sizes: 4, 6, 8, 10, 12, 16 & 20mm.

Indexable Inserts and Front Removable Inserts

- Provides product traceability required in part quality programs
- Allows placement of year, month, day, shift or numerals (0-9) on part for batch identification or product quality control
- Easily adjustable inner insert is removable using a screwdriver
- Date-sensitive inner inserts can be changed at the parting line without removing outer insert from the mold
- Offers a broad variety of insert dating combinations
- Available in 6mm, 8mm, 10mm, 12mm, 16mm and 20mm diameters
- Choose from two styles to suit your application: indexable and front removable



Front removable inserts are available in six sizes: 6, 8, 10, 12, 16 & 20mm.

D-M-E family of mold dating inserts.

Dual-Ring Mold Dating Insert

Dual-Ring Mold Dating Insert Offers the Ultimate in Date Insert Flexibility

Patented Indexable Mold Date Insert Technology

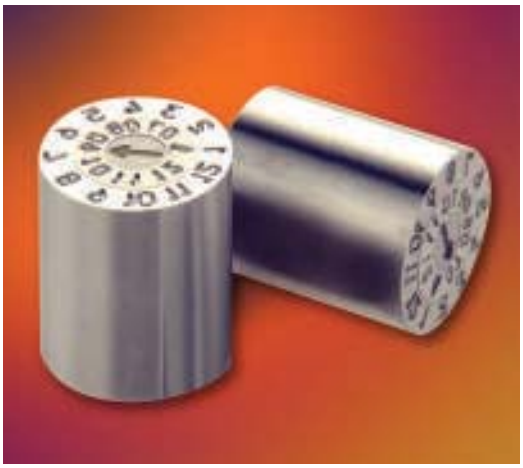
The new Dual-Ring Mold Dating Insert from D-M-E features a date insert valid for six years and is based on Indexable Mold Date Insert technology.

The Dual-Ring Insert eliminates the need to install two date inserts or change the inner insert each year. This easy-to-use indexable insert provides the flexibility you need to keep your mold dating current, especially as the lifetime of molds becomes shorter.

- Outer ring: 12 months, months 1 through 12
- Inner ring: 6 years + arrow (arrow points to month)
- Center insert: arrow (points to year & adjusts position of both arrows)

Features and Benefits

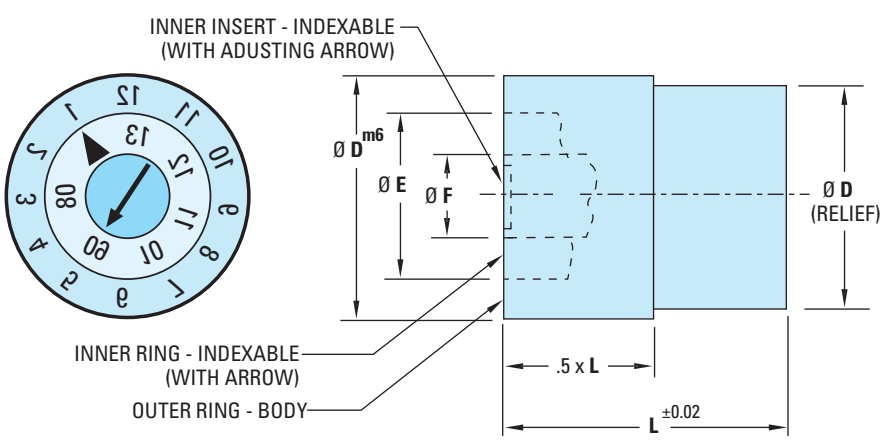
- Double indexable: both arrows independently "click into position"
- Change positions easily with only a screwdriver using arrow in inner insert
  - Turn clockwise to change "year" arrow (6 years)
  - Turn counter-clockwise to change "month" arrow (12 months)
- All inserts remain flush when rotated
- Dual-Ring Insert may be interchanged for the 10mm, 8mm to 6mm diameter Indexable and Front Removable inserts



Patent Pending

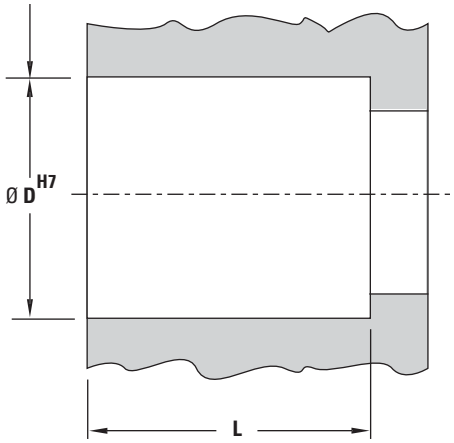
Installation and Machining

- Press-fit installation required
- Maintain a close tolerance press fit. Too loose a fit could allow the insert to move out of position, while too tight a press fit might prevent the inner insert and inner ring from rotating when required
- Accurately measure the Ø **D** for each part and machine hole to provide about 0.005mm (.0002") press fit



Ø D	TOLERANCE	
	m6	H7
10	+0.015 TO +0.006	0.000 TO -0.015
8	+0.006 TO +0.015	0.000 TO +0.015
6	+0.004 TO +0.012	0.000 TO +0.012

NOTE: Inner Insert & Inner Ring are not replaceable.



Pocket for installation
(hold pocket depth as required by the application)

INFORMATION KEY:

D = Outside Diameter
E = Outside Diameter of Inner Ring
F = Outside Diameter of Inner Insert
G = Hole Diameter
L = Length

Material: Corrosion-resistant Stainless Steel
Hardness: 53 ± 3 HRC
Max. Temp: 150°C (300°F)
Dimensions: All dimensions are in mm, except as noted

Dual-Ring Mold Dating Insert – MD Dimensions and Assembly

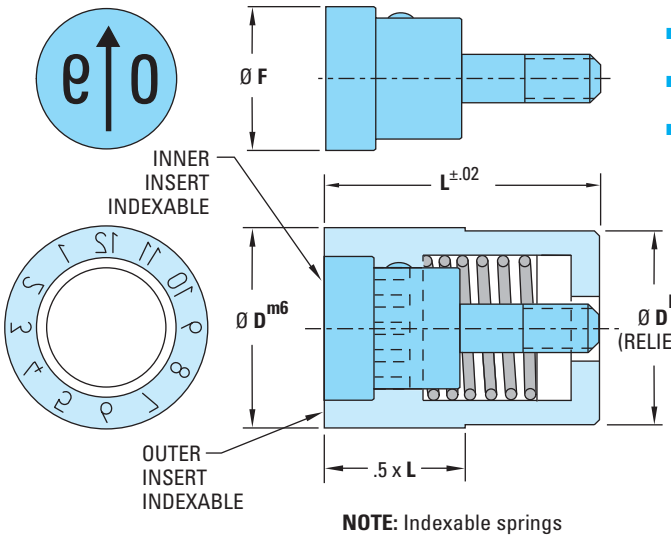
ITEM NUMBER	Ø D	Ø E	Ø F	L LENGTH
MD 10 20_*_	10	6.4	3.2	12
MD 08 20_*_	8	5.3	2.5	10
MD 06 20_*_	6	3.8	1.8	10

* When ordering, add digits of engraved year required where asterisks (_*_) are shown in item number (e.g., MD 10 20_*_: MD 10 2007; MD 10 20_*_: MD 10 2012).

Indexable and Front Removable Mold Dating Inserts

Indexable Inserts

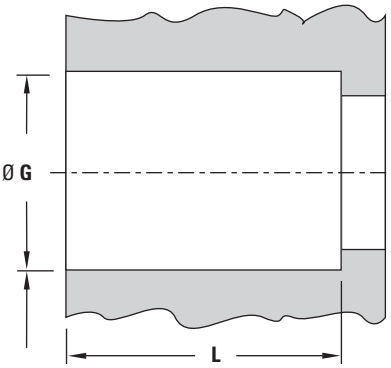
U.S. Patent No. 5,788,872



NOTE: Indexable springs are built in.

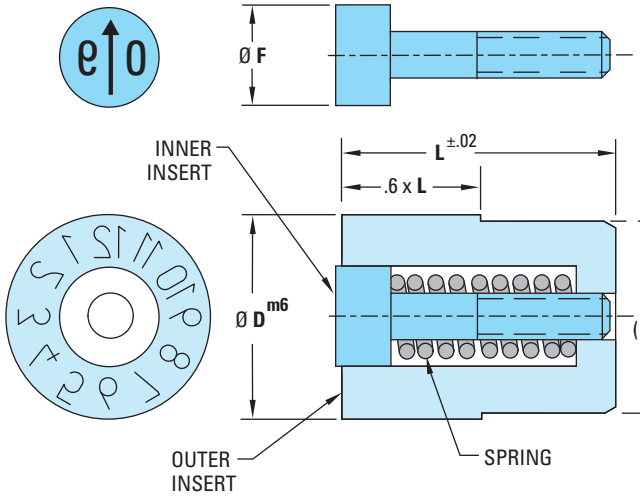
Features of Indexable and Front Removable Inserts

- Designed for plastics injection molds
- Maximum operating temperature is 150°C (300°F)
- Numerals are 0.2mm deep and arrow is 0.4mm deep
- Arrow is adjustment slot



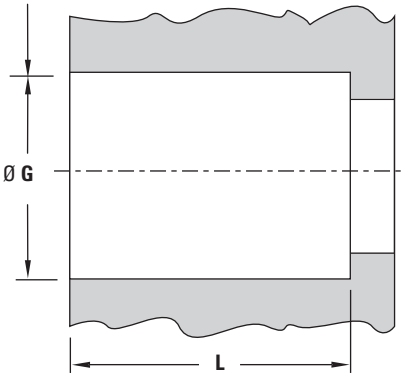
- Relief on bottom of insert will align insert into hole.
- An aluminum rod should be placed against the face of the insert with the rod larger in diameter than the Outer Insert. The aluminum rod should be tapped with a hammer to move the insert to its flush position.
- Inner insert must be flush or below flush during installation.

Front Removable Inserts



Installation and Machining for Both Insert Styles

- Press-fit installation required
- Maintain a close tolerance press fit. Too loose a fit could allow the insert to move out of position, while too tight a press fit might prevent the inner insert from rotating when required
- Accurately measure the Ø **D** for each part and machine Ø **G** hole to provide about 0.005mm (.0002") press fit



- Relief on bottom of insert will align insert into hole.
- An aluminum rod should be placed against the face of the insert with the rod larger in diameter than the Outer Insert. The aluminum rod should be tapped with a hammer to move the insert to its flush position.
- Inner insert must be flush or below flush during installation.

Dimensions and Tolerances of Indexable and Front Removable Inserts

INFORMATION KEY:
D = Outside Diameter of Outer Insert
F = Outside Diameter of Inner Insert
G = Hole Diameter
L = Length
Material: Stainless Steel
Hardness: 50-55 HRC
Max. Temp: 150°C (300°F)
Dimensions: All dimensions are in mm, except as noted

Ø D	TOLERANCE		L	Ø F INDEXABLE INDEX	Ø F FRONT REMOVABLE
	m6	h7			
4	+0.012 TO +0.004	0 TO -0.012	8	2.4	—
6	+0.012 TO +0.004	0 TO -0.012	8	3.7	3.1
8	+0.015 TO +0.006	0 TO -0.015	10	5.0	4.4
10	+0.015 TO +0.006	0 TO -0.015	12	6.3	5.2
12	+0.018 TO +0.007	0 TO -0.018	14	7.5	6.2
16	+0.018 TO +0.007	0 TO -0.018	14	11.0	8.2
20	+0.021 TO +0.008	0 TO -0.021	16	13.2	11

All dimensions and tolerances are in mm.

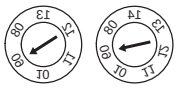
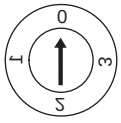
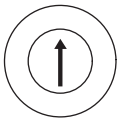
Front Removable Springs

ITEM NUMBER (PACKAGE OF 5)	Ø D
DFQ9006	6
DFQ9008	8
DFQ9010	10
DFQ9012	12
DFQ9016	16
DFQ9020	20

NOTE: Springs are for Front Removable Inserts only.

Mold Dating Inserts – Ordering Information

Complete Assemblies

DESCRIPTION	Ø D (MM)	ITEM NUMBER INDEXABLE	ITEM NUMBER FRONT REMOVABLE
 Month (outer), Year and Arrow (inner)	4	UYM_*_04	—
	6	UYM_*_06	FYM_*_06
	8	UYM_*_08	FYM_*_08
	10	UYM_*_10	FYM_*_10
	12	UYM_*_12	FYM_*_12
	16	UYM_*_16	FYM_*_16
	20	UYM_*_20	FYM_*_20
 Month (outer), Arrow (inner)	4	UOM0004	—
	6	UOM0006	FOM0006
	8	UOM0008	FOM0008
	10	UOM0010	FOM0010
	12	UOM0012	FOM0012
	16	UOM0016	FOM0016
	20	UOM0020	FOM0020
Indexable Front Removable  (6) Years (7) Years (outer), Arrows (inner)	4	UOY_*_04	—
	6	UOY_*_06	FOY_*_06
	8	UOY_*_08	FOY_*_08
	10	UOY_*_10	FOY_*_10
	12	UOY_*_12	FOY_*_12
	16	UOY_*_16	FOY_*_16
	20	UOY_*_20	FOY_*_20
 Day (outer), Arrow (inner)	12	—	FOD0012
	16	UOD0016	FOD0016
	20	UOD0020	FOD0020
 "Numerals" 0 thru 9 (outer) Arrow (inner)	4	UOR0004	—
	6	UOR0006	FOR0006
	8	UOR0008	FOR0008
	10	UOR0010	FOR0010
	12	UOR0012	FOR0012
	16	UOR0016	FOR0016
	20	UOR0020	FOR0020
 "Shift" (outer), Arrow (inner)	4	UOS0004	—
	6	UOS0006	FOS0006
	8	UOS0008	FOS0008
	10	UOS0010	FOS0010
	12	UOS0012	FOS0012
	16	UOS0016	FOS0016
	20	UOS0020	FOS0020
 Blank (outer), Arrow (inner)	4	UOB0004	—
	6	UOB0006	FOB0006
	8	UOB0008	FOB0008
	10	UOB0010	FOB0010
	12	UOB0012	FOB0012
	16	UOB0016	FOB0016
	20	UOB0020	FOB0020

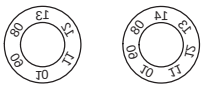
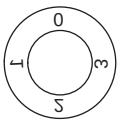
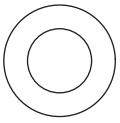
NOTES:

1. When ordering date-sensitive assemblies, add digits of engraved year requested where asterisks (*) are shown in item number (e.g., UUY0916).
2. Availability of year-sensitive items will vary during last quarter of each calendar year. Order next year's Mold Dating Inserts during October to beat the rush.

Inner Inserts

DESCRIPTION	Ø D (MM)	ITEM NUMBER INDEXABLE	ITEM NUMBER FRONT REMOVABLE
 Year and Arrow	4	YUU_*_04	—
	6	YUU_*_06	YON_*_06
	8	YUU_*_08	YON_*_08
	10	YUU_*_10	YON_*_10
	12	YUU_*_12	YON_*_12
	16	YUU_*_16	YON_*_16
	20	YUU_*_20	YON_*_20
 Arrow	4	OUU0004	—
	6	OUU0006	OON0006
	8	OUU0008	OON0008
	10	OUU0010	OON0010
	12	OUU0012	OON0012
	16	OUU0016	OON0016
	20	OUU0020	OON0020

Outer Inserts

DESCRIPTION	Ø D (MM)	ITEM NUMBER INDEXABLE	ITEM NUMBER FRONT REMOVABLE
 Month (1 thru 12)	4	UUM0004	—
	6	UUM0006	OOM0006
	8	UUM0008	OOM0008
	10	UUM0010	OOM0010
	12	UUM0012	OOM0012
	16	UUM0016	OOM0016
	20	UUM0020	OOM0020
Indexable Front Removable  (6) Years (7)	4	UUY_*_04	—
	6	UUY_*_06	OOY_*_06
	8	UUY_*_08	OOY_*_08
	10	UUY_*_10	OOY_*_10
	12	UUY_*_12	OOY_*_12
	16	UUY_*_16	OOY_*_16
	20	UUY_*_20	OOY_*_20
 Day (1 thru 31)	12	—	OOD0012
	16	UUD0016	OOD0016
	20	UUD0020	OOD0020
 "Numerals" (0 thru 9)	4	UUR0004	—
	6	UUR0006	OOR0006
	8	UUR0008	OOR0008
	10	UUR0010	OOR0010
	12	UUR0012	OOR0012
	16	UUR0016	OOR0016
	20	UUR0020	OOR0020
 "Shift" (0 thru 3)	4	UUS0004	—
	6	UUS0006	OOS0006
	8	UUS0008	OOS0008
	10	UUS0010	OOS0010
	12	UUS0012	OOS0012
	16	UUS0016	OOS0016
	20	UUS0020	OOS0020
 Blank	4	UUB0004	—
	6	UUB0006	OOB0006
	8	UUB0008	OOB0008
	10	UUB0010	OOB0010
	12	UUB0012	OOB0012
	16	UUB0016	OOB0016
	20	UUB0020	OOB0020