

—— HG -

Helical gear stack mold systems





Helical Gear Components		
	Helical Gear Shaft	
AND B	Nut Housing Blank	
	Nylon Nut	
	Tapered Roller Bearing	
	Roller Bearing Housing	
	Nut Housing End Cap	
	Alignment Rod	
	Shipping Strap	

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Decades of design and engineering expertise at your service

DME has decades of design and engineering expertise to assist you in design and development of stack molds.

Our Helical Gears are the industry standard with decades of proven applications in a wide variety of applications and plastic resins. Our Helical Gear housings and assemblies greatly simplify the design and development of stack molds, leaving you more time to concentrate on the core and cavity details. Off-the-shelf components are available when you need them.

DME quality ensures reliability and interchangeability of all components.

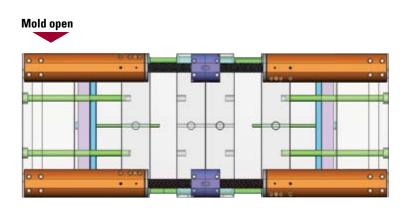
DME engineers and designers are available to assist you with your questions whether you are building your first stack mold or challenging multilevel stack molds with complex mold actions.

DME even offers complete design services (up to the cores and cavities) for those needing to off-load design and engineering during peak workloads.

With **DME**, you can order individual components, complete assemblies ready for installation, or complete systems including design and engineering.

DME Helical Gear housings and assemblies greatly simplify the design and development of stack molds - leaving you more time to concentrate on core and cavity details.

Mold closed

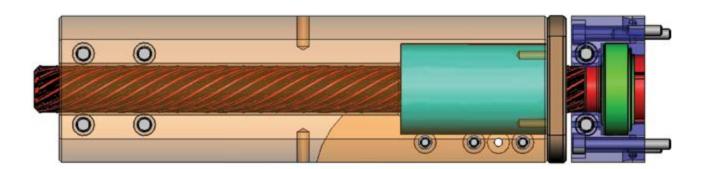


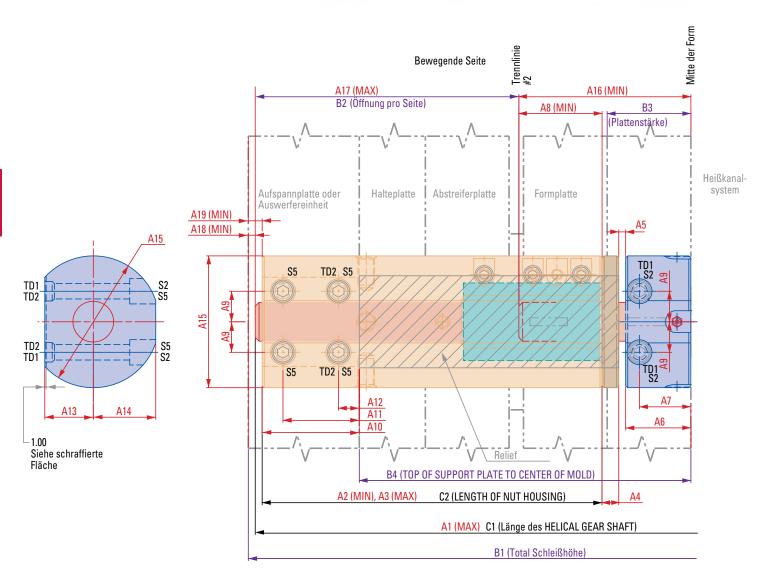
Helical Gear Stack Mold Centering Devices ensure that both parting lines open the same distance simultaneously.

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Mounting Screws and Dowels

	HG28	HG38
S2 Socket head cap screw	M10 x 75mm	M12 x 110mm
S5 Socket Head Cap Screw	M10 x 75mm	M12 x 110mm
TD1 Tubular Dowel	Ø14mm x 10mm	Ø18mm x 12mm
TD2 Tubular Dowel	Ø14mm x 10mm	Ø18mm x 12mm

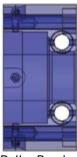
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HELICAL GEAR SHAFT (uncut and special)

TAPERED ROLLER Roller Bearing BEARING Housing

Formplatte Abstreiferplatte Halteplatte Aufspannplatte oder Auswerfereinheit RELIEF RELIEF

| RELIEF | | RELIEF | | RELIEF | | RELIEF | RELI

Restrictions

IF: B4 ≥ 1/2 x B1

THEN: Impossible configuration.

Decrease B4 or increase
B1.

IF: B3 < A6

THEN: Impossible configuration. Increase B3.

IF: B2 ≥ 1/2 x B1

THEN: Impossible configuration.

Decrease B2.

Constant Dimensions

	HG28-1000	HG38-1200	HG38-1500
a1	1000	1200	1500
A2	245	296	296
A3	436	520	670
A4	12	15	15
A5	5	5	5
A6	47	60	60
A7	37	48	48
A8	60	75	75
A9	22	29	29
A10	70	90	90
A11	55	70	70
A12	15	20	20
A13	35	45	45
A14	45	57	57
A15	95	120	120
A16	124	155	155
A17	376	445	595
A18	5	5	5
A19	5	5	5

Calculated Dimensions

	HG28	HG38
C1		
C2		

 $C1 = 2 \times (A16 + B2)$

IF: C1 > (B1 - 10)

THEN: Gear Shaft is too long.
Increase B1 (total shut height).

C2 = (B4 + A10) - (A4 + A5 + A6)

IF: C2 < A2

THEN: Nut Housing is too short.
Increase B1 (total shut height).

IF: C2 > A3

THEN: Need special Nut Housing, longer than A3.

IF: $C2 > 1/2 \times B1 - (A4 + A5 + A6 + A19)$

THEN: Nut Housing is too long.
Increase B1 (total shut height).

Configuration Calculation Sheet available from **DME** Applications Engineering to help determine the lengths of the Helical Gear Shaft and Nut Housing based on mold size, and required parting line openings per side.

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