



MILL & KILN GIRTH GEARS to 15m (50ft)







GIRTH GEARS

- 1. SG iron
- 2. Cast steel
- 3. Austempered SG iron
- 4. Forged fabricated
- 5. Forged fabricated, induction hardened

CAPACITY 15m (50ft)

Size: 2.5m face width x 15m dia. Hardness: to 52HRC (500BHN). Quality: AGMA 10 (DIN 7).

GIRTH GEAR RATING COMPARISON

The effect of different material and heat treatment on hardness and quality.

	SG IRON NORMALISED INDIVIDUAL RISER		CAST STEEL NORMALISED FULL RING RISER		AUSTUF AUSTEMPERED SG IRON		FORGED FABRICATED QUENCH AND TEMPERED		FORGED FABRICATED CONTOUR INDUCTION HARDENED	
MATERIAL	AS 1831-700-2	MAX	AISI 4140	MAX	AS 1831-700-2	MAX	HOFALLOY	MAX	HOFALLOY	MAX
HEAT TREATMENT Hardness	NORMALISED 280 BHN	330 BHN	NORMALISED 280 BHN	360 BHN	AUSTEMPERED 350 BHN	400 BHN	QUENCH & TEMP 330 BHN	380 BHN	INDUCTION HARDENED Core = 280 BHN Case = 50 HRC Depth = 5mm	300 BHN 58 HRC 10mm
QUALITY Machining	AGMA 10 (DIN 7) Hobbed	10	AGMA 10 (DIN 7) Hobbed	10	AGMA 10 (DIN 7) Hobbed	10	AGMA 10 (DIN 7) Hobbed	10	AGMA 10 (DIN 7) Hob/Hardcut	10











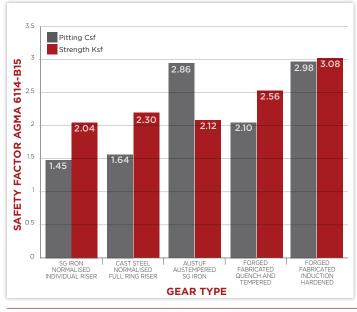


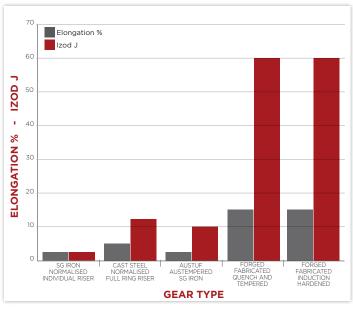
Hofmann Hob		oing (HSS) Skiving (Carbide Hob) Form Millir		ng (Carbide) Finger Millir		ng + Double Helical	
Maximum Cap	External	Internal Gear	External	Internal Gear	External	Internal Gear	External	Internal Gear	
Max Module	50 Mn	25 Mn	50 Mn	25 Mn	100 Mn	60 Mn	100 Mn	60 Mn	
Max Press Ang	45°	45°	45°	45°	45°	45°	45°	45°	
Max Helix Ang	45°	45°	45°	45°	45°	45°	45°	45°	
Max No Teeth	700mm	700mm	700mm	700mm	700mm	700mm	700mm	700mm	
Max Face Width	2500mm	500mm	2500mm	500mm	2500mm	600mm	2500mm	600mm	
Max Outside Dia	14000mm	14000mm	14000mm	14000mm	14000mm	14000mm	14000mm	14000mm	
Max Weight	130t	130t	130t	130t	130t	130t	130t	130t	
100%		115%		135%		120%		140%	
DELIVERY (Example) 36 weeks		36 weeks		34 weeks		16-39 weeks*		20-45 weeks*	
1.45		1.64		2.86		2.10		2.98	
2.04		2.30		2.12		2.56		3.08	
7				7		1,4		14	
5 7				10				14 35	
9		15		10		33		55	
1	Maximum Cap Max Module Max Press Ang Max Helix Ang Max Helix Ang Max No Teeth Max Face Width Max Outside Dia Max Weight Max Garage Max Weight Max Outside Dia Max Weight	Maximum Cap External Max Module 50 Mn Max Press Ang 45° Max Helix Ang 700mm Max No Teeth 2500mm Max Weight 130t 100% 36 weeks	Maximum Cap External Internal Gear Max Module Max Press Ang Max Helix Ang Max Helix Ang Max No Teeth Max Face Width Max Outside Dia Max Outside Dia Max Weight 50 Mn 45° 700mm 700mm 1000mm 1300mm 1300t 25 Mn 45° 700mm 500mm 14000mm 1300t 100% 115% 36 weeks 36 weeks 1.64 2.04 2.30	Maximum Cap External Internal Gear External Max Module Max Press Ang Max Helix Ang Max Helix Ang Max No Teeth Max Face Width Max Outside Dia Max Weight 45° 45° 45° 45° 700mm 700mm 700mm 2500mm 14000mm 130t 700mm 1500mm 130t Max Weight 115% 115% 36 weeks 36 weeks 35 6	Maximum Cap External Internal Gear External Internal Gear Max Module Max Press Ang Max Helix Ang Max Helix Ang Max No Teeth Max Face Width Max Outside Dia Max Weight 45° 45° 45° 45° 45° 45° 45° 45° 45° 45°	Maximum Cap External Internal Gear External Internal Gear External Max Module Max Press Ang Max Helix Ang Max Helix Ang Max Pace Width Max Outside Dia Max Weight 45° 45° 45° 45° 45° 45° 45° 45° 45° 45°	Maximum Cap External Internal Gear External Internal Gear External Internal Gear Max Module Max Press Ang Max Helix Ang Max Helix Ang Max Helix Ang Max O Teeth Max Face Width Max O Teeth Max Good State of Tool Max Good Max Good State of Tool Max Good Max	Maximum Cap External Internal Gear External Internal Gear <th< td=""></th<>	

^{*}Subject to forged steel in-stock availability

LARGE GEAR COMPARISON

MECHANICAL TEST RESULTS





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