

**HOFMANN
ENGINEERING**

MILL & KILN PINIONS

Since 1969 Hofmann Engineering has provided specialist engineering services to Australia's industry leaders.

Quality Assurance certification by Lloyds complements our total quality culture.

Our commitment to continuous quality-improvement touches every aspect of our products, services and customer support.

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PINIONS

1. Through-Hardened.
2. Induction-Hardened.
3. Case-Carburised.
4. HofCarb Carburised.
5. Self-Aligning.

CAPACITY

- Size - 1.6m face x 6m lg.
- Hardness - to 62 HRC.
- Quality - AGMA14 (DIN 4).



Pinion Rating Comparison

Same Size But Different Hardness And Quality

	SOFT QUENCH & TEMP		INDUCTION HARD & GROUND		CARBURISED & GROUND		HOFCARB & GROUND		CARBURISED & SELF ALIGNING	
		M a x		M a x		M a x		M a x		M a x
Material	AISI 4340		AISI 4340		Din 17CrNiMo6		Din 17CrNiMo6		Din 17CrNiMo6	
Heat Treatment	Quench & Temp		Induction Hardened		Gas Carburised		Gas Carburised		Gas Carburised	
Hardness	290 BHN	420 BHN	Core = 300 BHN Case = 56 RC Depth = 7 mm	400 BHN 60RC 10mm	Core = 400 BHN Case = 60 RC Depth = 5 mm	420 BHN 62RC 6mm	Core = 400 BHN Case = 60 RC Depth = 5 mm	420 BHN 62RC 6mm	Core = 400 BHN Case = 60 RC Depth = 5 mm	420 BHN 62RC 6mm
Quality	AGMA 10 (DIN 8)		AGMA 12 (DIN 6)		AGMA 12 (DIN 6)		AGMA 12 (DIN 6)		AGMA 12 (DIN 6)	
Machining	Hobbed		Ground		Ground		Ground		Ground	
Pictures depict typical pinion types being manufactured by Hofmann Engineering										
Example										
Power Details										
Power (kW)	3500									
Speed (RPM)	188									
Geometry										
Module Mn	25.4	Mn max = 100	Mn max = 32	Mn max = 32	Mn max = 32	Mn max = 32	Mn max = 32	Mn max = 32	Mn max = 32	Mn max = 32
Pressure Ang α	25°	α max = 45 °	α max = 45 °	α max = 45 °	α max = 45 °	α max = 45 °	α max = 45 °	α max = 45 °	α max = 45 °	α max = 45 °
Helix Angle β	0	β max = 45 °	β max = 45 °	β max = 45 °	β max = 45 °	β max = 45 °	β max = 45 °	β max = 45 °	β max = 45 °	β max = 45 °
Nos Teeth Z	25	Z max = 600	Z max = 600	Z max = 600	Z max = 600	Z max = 600	Z max = 600	Z max = 600	Z max = 600	Z max = 600
Face Width F	700	F max = 25 00 mm	F max = 1200 mm	F max = 1200 mm	F max = 1200 mm	F max = 1200 mm	F max = 1200 mm	F max = 1200 mm	F max = 1200 mm	F max = 1200 mm
Overall Length L	320 0	L max = 12000 mm	L max = 6000 mm	L max = 6000 mm	L max = 3700 mm	L max = 3700 mm	L max = 3700 mm	L max = 3700 mm	L max = 3700 mm	L max = 3700 mm
Outside Dia da	701	da max = 8000 mm	da max = 3000 mm	da max = 3000 mm	da max = 1900 mm	da max = 1900 mm	da max = 1900 mm	da max = 1900 mm	da max = 1900 mm	da max = 1900 mm
Weight (Kg) W	400 0	W max = 100 tonne	W max = 20 tonne	W max = 20 tonne	W max = 20 tonne	W max = 20 tonne	W max = 20 tonne	W max = 20 tonne	W max = 20 tonne	W max = 20 tonne
% Price	100%		120%		140%		140%		160%	
Delivery	18 weeks		21 Weeks		21 Weeks		21 Weeks		24 Weeks	
AGMA 6004										
Pitting Csf	1.21		2.77		3.53		4.27		4.72	
Strength KsF	2.05		2.48		2.76		2.9		3.2	

Large Pinion Rating Comparison

