



CMH Tools Limited

(An ISO 9001 : 2008 Company)

PRECISION GEARING SOLUTIONS





CMH Tools Limited is a professionally managed public limited company located in Hyderabad, Andhra Pradesh. It started production in the year 1977. The Company is manufacturing all types of Gear Cutting Tools like Hobs, Shaving Cutters, Shaper Cutters, Spline / Rack Milling Cutters, Serration Cutters, Worm Wheel hobs, Taper Hobs and Master Gears used on Gear Roll Testers.

The Tools manufactured by the company are supplied to many leading Automobile manufacturers of Commercial Vehicles, Cars, Tractors, Two Wheelers etc., The company is fully equipped to design and manufacture all types of quality Gear Cutting Tools and got all the facilities for in-house manufacturing, quality control and Heat Treatment.

Since October 2012, CMH Tools is a joint venture company of Gebr. Saacke GmbH & Co. Germany. Saacke is headquartered in Pforzheim near Stuttgart and was established in 1892 and has been producing Precision Tools and Tool & Cutter grinding machines for over 100 years. Saacke tools are renowned for their excellent quality and precision and have set new benchmarks in the industry.

CMH have also commissioned state of the art Saacke CNC hob profile grinding machine and can now offer customers full range of Hobs in HSS and PM material upto AAA class accuracy and in addition also supply the following tools from Saacke portfolio.

Gear Hobs	- Module 0.5 to 42
Heavy duty Roughing Hobs - Module 5 to 30	
Worm wheel Hobs	- Module 0.3 to 30 (Tangential/Radial or high performance radial types) and worm cutters
Shaper cutters	- Module 0.7 to 12
Deburring tools, Form milling cutters etc.	

Our Product Range ...

Hob Cutters



Our Hob Cutters range includes Gear Hobs, Spline Hobs, Serration Hobs, Sprocket Hobs, Timing Belt Pulley Hobs, Ratchet Hobs and Worm Wheel Hobs of all profiles. We supply both bore and shank type Hobs in single & multi starts with straight and helical flute with or without coating.

Our Range

Module	0.2M to 20M
Diameter	24mm to 260mm
Quality Class	AAA, AA, A & B
Standard	DIN, AGMA, BS, GOST etc
Material	ASP-2030, ASP-2052 S-590, S-390 & S-290 M-35 etc.

Shank Type Hobs



Our Range

Module	1M to 8M
Diameter	80mm to 150mm
Length	80mm to 400mm
Quality	Class "AA", & "A"
Standard	DIN, AGMA, BS, GOST etc
Material	ASP-2052, ASP-2030 & M-35



Rack Milling Cutters



We manufacture various types of Rack Milling Cutters to cut Racks for various applications.

Our Range

Module	1M to 8M
Diameter	80mm to 200mm
Length	80mm to 250mm
Quality	Class A & AA
Material	M-35, ASP-2030, ASP-2052, S-590 & S-390

Fine Module Hobs



Our Range

Module	0.2M to 0.9M
Diameter	24mm to 40mm
Bore	8mm, 13mm & 16mm
Quality	Class "AA", & "A"
Standards	DIN, AGMA, BS, GOST etc
Material	ASP-2052, ASP-2030, S-590, S-390 & M-35

Shaving Cutters



We manufacture all type of Shaving Cutters - Conventional, Diagonal, Underpass & Plunge cut with profile modification such as lead and involute crowning. The Shaving Cutters can be supplied with or without coating as per client's requirements.

Our Range

Module	1.25M to 8M
PCD	Up to 275mm
Standard	BS2007-1975
Material	M2 (F) M3-II & ASP-2023

Master Gears



We Supply Spur & Helical Master Gears. The Master Gears can be supplied with profile modifications and Tin coating.

Our Range

Module	1M to 8M
PCD	Up to 150mm
Width	Face width up to 60mm
Quality	DIN - 3 & DIN - 4 as per DIN 3962
Material	M2, M-35, ASP-2030

Gear Shaping Cutters



Gear Shaping Cutters both Disc type, Hub type can be made to qualify all standards. We can supply Shaper Cutters with coating.

Our Range

Module	1M to 8M
PCD	Up to 150mm
Width	Face width as per requirement
Quality	Class "A", & "B"
Standard	DIN 1829 - 1973 / 1977
Material	M-35, ASP-2030

Spline Milling Cutter

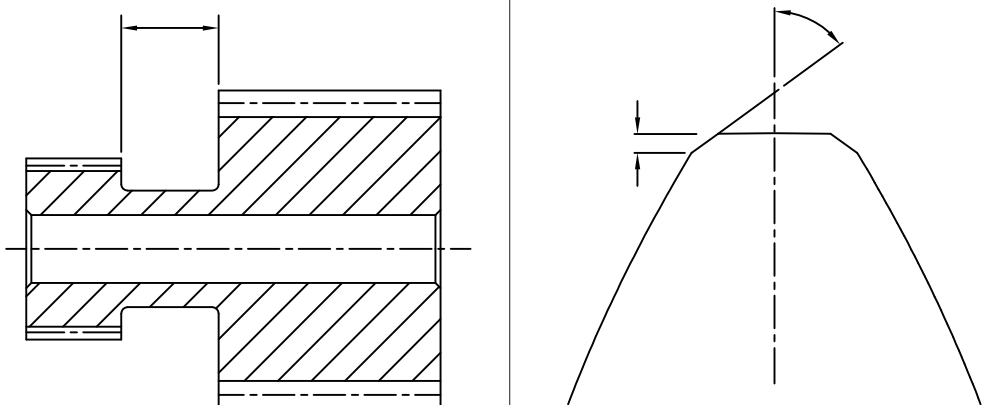
Single lip and Double lip spline milling cutters are Manufactured to be used on Milling Machine.

Our Range

Involute Spline
Parallel Spline



Ordering Information

Component Drg. No.		Customer Tool No.			
No. of teeth				Shoulder details	
Module/DP/CP				Semitopping details	
Normal Pressure angle					
Helix angle/Hand					
Outside dia with tolerance					
Root dia with tolerance					
Fillet radius					
At hobbing/ Shaping	Span value /No. of teeeth				
	Over pin value/ pin dia				
At shaving/ grinding	Span value /No. of teeeth				
	Over pin value/ pin dia				
Start of active profile dia (SAP/TIF)(FINISH)(*)					
Width of Gear					
Material					
At hobbing/Shaping stage Hardness (Bhn)					
Hob		Shaving Cutter		Master Gear	
Outside dia		Conventional/Under pass/Diagonal/Plunge		Outside dia	Pitch circle dia
Length				Width	Width
Bore Dia		Outside dia		Bore	Bore
Keyway size		Face width		Quality	Quality as per DIN 1829
No.of flues(straight/helical)		Bore		Mating gear OD	Semi-topping
Hand of thread		Keyway size		Mating gear S.T. value	Protuberance
No. of starts		No. of teeth		Centre distance	Preshaving
Accuracy as per DIN 3968		Helix angle at PCD		Material	Pregrinding
Semi topping	Yes/No	Quality	BS : 2007	Surface coating	Finishing
Protuberance	Yes/No	Material			Material
Preshaving	Yes/No	Surface coating			Surface coating
Pregrinding	Yes/No				Type
Finishing	Yes/No				
Material					
Surface coating					

Special requirements, if any

(*) If not known give mating gear OD, chamfer & centre distance



CMH Tools Limited

(A Joint Venture Company of M/s Saacke - Germany)

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