

GAMBINI Product Brochure

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Gambini Meccanica is an Italian Company which is specialized in the production of transmission gears. It provides a wide range of Straight & Helical Tooth high-precision transmission gears, which find application in several industries like Textile, Material Handling, etc.

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1.1 Rack

Gambini Gear racks are utilized to convert rotating movement into linear motion. A gear rack has straight teeth cut into one surface of a square or round section of rod and operates with a pinion, which is a small cylindrical gear meshing with the gear rack. For Helical rack, the Straight tooth profile is available with a twist.

1.1.1 STRAIGHT TOOTH



Selection Parameters

Parameters	Min	Max
Module	1	12
Size (Width*Height)	15 mm *15 mm	120 mm *120 mm
Length	500 mm	2000 mm
Tooth Quality	5	10

Industries it caters to

Material Handling
Agriculture

Product application

Woodworking
Marble Working
Packaging
CNC
WaterJet

High-quality racks with a straight tooth system are manufactured using a variety of raw material types. The most popular materials are C45, SAE1141, 16MnCr5, 42CrMo4.. Depending on the quality and material of the rack, these straight tooth racks are ground and heated.

1.1.2 HELICAL TOOTH



Selection Parameters

Parameters	Min	Max
Module	1	12
Size (Width*Height)	19 mm * 19 mm	120 mm *120 mm
Length	500 mm	2000 mm
Tooth Quality	5	10

Product application

Robotics
Gantry Systems
Machine Tools
Bending systems
Welding Systems

Industries it caters to

Automotive
Machine Shops

High precision straight tooth pinions with milled or ground teeth, right or left hand, are manufactured using a variety of raw materials, including standard materials like C45 and 20MnCr5, all alloys like 18NiCrMo5 and 39NiCrMo3, or non-alloy materials, various types of nylon, cast irons, common bronze and bronze aluminium alloys, stainless steel, and various types of Bakelite.

1.1 Pinion

Gambini pinion gear connects to the steering shaft so that the gear will spin and move the rack when the steering wheel turns.

1.2.1 STRAIGHT TOOTH



Selection Parameters

Parameters	Min	Max
Module	1.5	10
OD	27 mm	220 mm
ID	20 mm	125 mm
PCD	24 mm	120 mm
Width	30 mm	165 mm
No of Teeth	16	40
Tooth Quality	5	10

Industries it caters to

Automobile

Material Handling

Power Plants

Product application

Gearbox

Automotive Machines

Pumps

Clock

High precision straight tooth pinions with milled or ground teeth, right or left hand, are produced using a variety of raw materials, including standard materials like C45 and 20MnCr5, all alloys like 18NiCrMo5 and 39NiCrMo3, or non-alloy materials, various types of nylon, cast irons, common bronze and bronze aluminium alloys, stainless steel, and various types of bakelite.

1.2.2 HELICAL TOOTH



Selection Parameters

Parameters	Min	Max
Module	1.5	10
OD	28 mm	232 mm
ID	11 mm	90 mm
PCD	25 mm	112 mm
Width	30 mm	165 mm
No of Teeth	16	40
Tooth Quality	5	10

Industries it caters to

Material Handling

Printing

Product application

Rolling Mills

Printing

Elevators

Conveyors

High precision helical tooth pinions with milled or ground teeth, right or left hand, and helix angle inclination are made from a variety of raw materials, including standard C45 and 20MnCr5, all alloys like 18NiCrMo5 and 39NiCrMo3, or non-alloy materials, various types of nylon, cast irons, common bronze and bronze aluminium alloys, stainless steel, and various types of bakelite.