

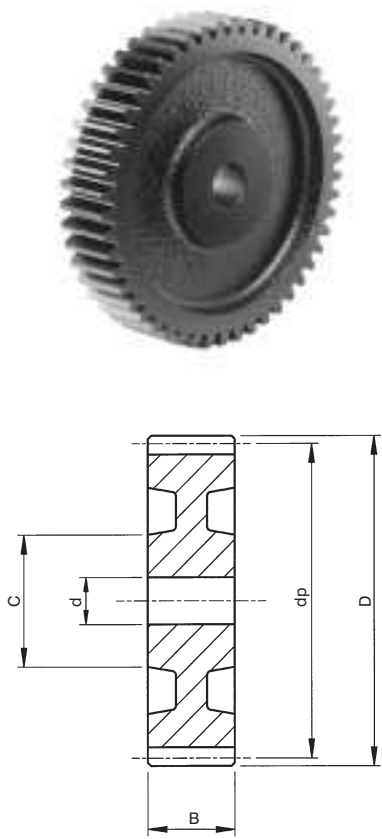
Cast Iron Spur Gears and Steel Racks



Cast Iron Spur Gears

Cross+Morse standard cast iron gears are manufactured in 7 pitch sizes from 2.0 Mod to 5.0 Mod. They are machined from Grade 200 iron casting with gears finished to DIN Class 7 standard. All spur gears are with 20 degree pressure angle and same face widths as the standard steel gears of the same pitch, enabling correct operation with these steel pinions. Cast iron gears are an ideal choice for lower torque, slow speed (max. pitch line speed 2.5 m/s) drives, offering lower cost and weight to equivalent machined steel gear. Their reduced weight makes them popular on mobile plant.

Cat. No.	Mod.	No. Teeth	Pitch Dia. dp	Min. Bore d	Max. Bore	Width B	Hub C	O.D. D	Weight kg
S2050C	2.0 Mod	50	100	15	25	20	40	104	0.85
S2545C	2.5 Mod	45	112.5	18	30	25	50	117.5	1.45
S2550C	2.5 Mod	50	125	18	30	25	50	130	1.70
S3045C	3.0 Mod	45	135	20	30	30	50	141	2.30
S3060C	3.0 Mod	60	180	20	30	30	50	186	3.60
S3535C	3.5 Mod	35	122.5	20	36	35	60	129.5	2.45
S3540C	3.5 Mod	40	140	20	36	35	60	147	3.15
S3545C	3.5 Mod	45	157.5	20	36	35	60	163.5	4.10
S3550C	3.5 Mod	50	175	20	36	35	60	182	4.70
S4030C	4.0 Mod	30	120	25	42	40	70	128	2.80
S4035C	4.0 Mod	35	140	25	42	40	70	148	3.60
S4040C	4.0 Mod	40	160	25	42	40	70	168	4.70
S4045C	4.0 Mod	45	180	25	42	40	70	188	5.40
S4050C	4.0 Mod	50	200	25	42	40	70	208	7.10
S4530C	4.5 Mod	30	135	25	42	45	70	144	4.00
S4535C	4.5 Mod	35	157.5	25	42	45	70	166.5	5.10
S4540C	4.5 Mod	40	180	25	42	45	70	189	6.45
S4545C	4.5 Mod	45	202.5	25	42	45	70	211.5	7.95
S4550C	4.5 Mod	50	225	25	42	45	70	234	9.70
S5030C	5.0 Mod	30	150	30	48	50	80	160	5.10
S5035C	5.0 Mod	35	175	30	48	50	80	185	6.85
S5040C	5.0 Mod	40	200	30	48	50	80	210	8.60
S5050C	5.0 Mod	50	250	30	48	50	80	260	12.45



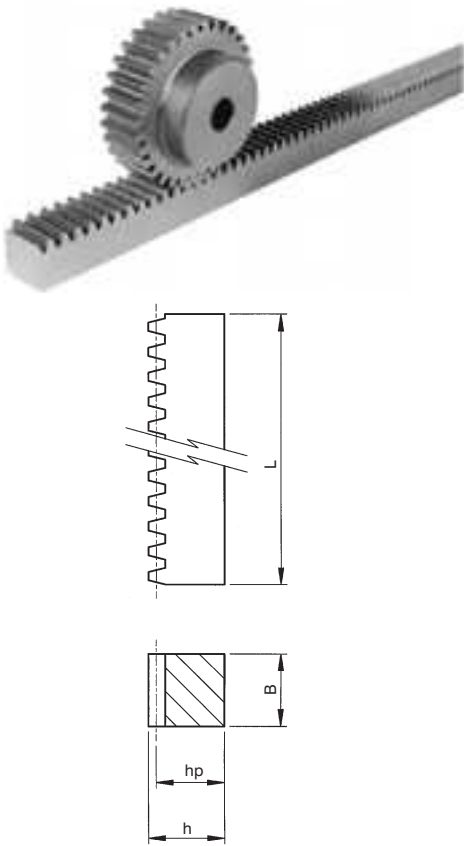
Gears stocked pilot bored can be supplied finish bored and keywayed.

All dimensions in mm.

Steel Racks

Cross+Morse standard gear racks are manufactured in medium carbon steel suitable for induction or flame hardening if required. The spur racks are precision machined with 20 degree pressure angle, and to be completely compatible with standard range of spur gears have identical face width. The designer is free to select any combination of standard spur gear and rack of same pitch to obtain "off the shelf" rack and pinion sets. These provide the ideal method to convert rotary into linear motion for table drives etc. or linear to rotary motion as in feeds. In addition to the standard range of racks special constructions can be provided with pitch size up to 16 mod.

Cat. No.	Pitch Module	Width B	Overall Height h	Height to Pitch Line hp	Length L	Approx. Weight Kg.
R1005	1	15	15	14	500	0.82
R1010		15	15	14	1000	1.65
R1020		15	15	14	2000	3.05
R1505	1.5	17	17	15.5	500	1.08
R1510		17	17	15.5	1000	2.07
R1520		17	17	15.5	2000	4.30
R2005	2	20	20	18	500	1.40
R2010		20	20	18	1000	2.82
R2020		20	20	18	2000	5.10
R2505	2.5	25	25	22.5	500	2.00
R2510		25	25	22.5	1000	4.00
R2520		25	25	22.5	2000	7.40
R3005	3	30	30	27	500	3.10
R3010		30	30	27	1000	6.20
R3020		30	30	27	2000	11.50
R4005	4	40	40	36	500	5.50
R4010		40	40	36	1000	11.00
R4020		40	40	36	2000	20.40
R5005	5	50	50	45	500	7.92
R5010		50	50	45	1000	15.90
R5020		50	50	45	2000	29.40
R6005	6	60	60	54	500	12.15
R6010		60	60	54	1000	24.30
R6020		60	60	54	2000	50.20



Racks can be supplied modified to enable easy mounting by addition of plain or tapped holes.