

MotionTek Drive Systems

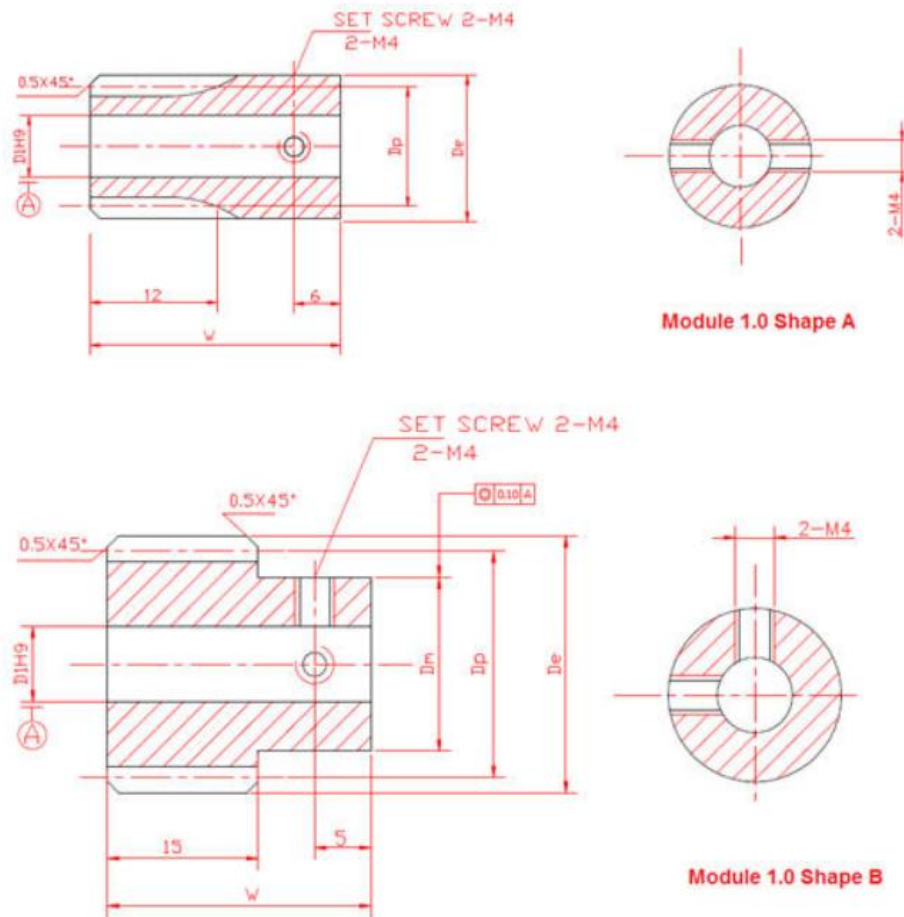
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Rack & Pinion Straight Teeth Technical Specifications & Catalogue

- Straight-tooth rack and pinion drive systems for CNC machines, precision garage doors, and sliding doors, machined from C45 steel with a 20-degree pressure angle.
- Pinions are available in module 1.0 (sold with module 1.0 rack only) and module 1.5 (sold with module 1.5 rack only); each pinion includes 2 set screw holes (5.4mm) as standard.
- Rack is predrilled and end-machined on both sides for continuous end-to-end mounting; available in 6 standard lengths from 500mm to 3000mm for each module.

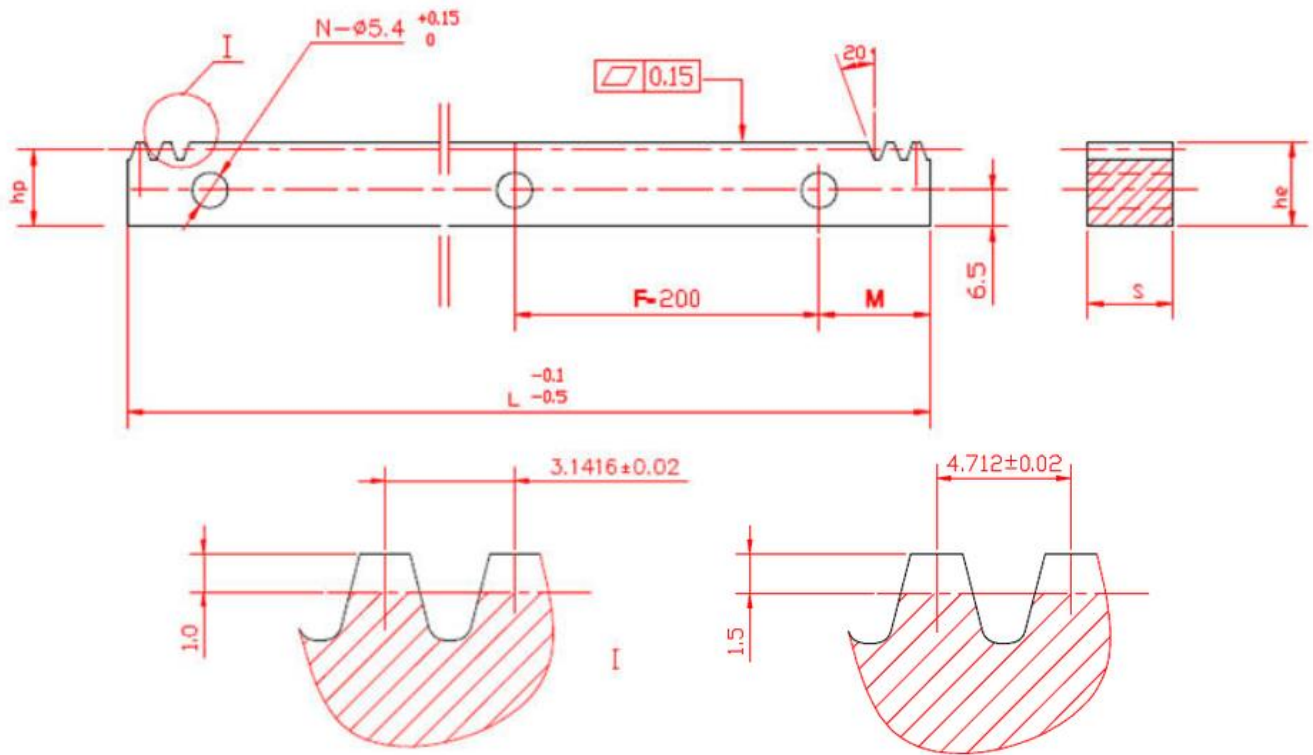


PINION GEAR Straight Teeth MODULE 1.0



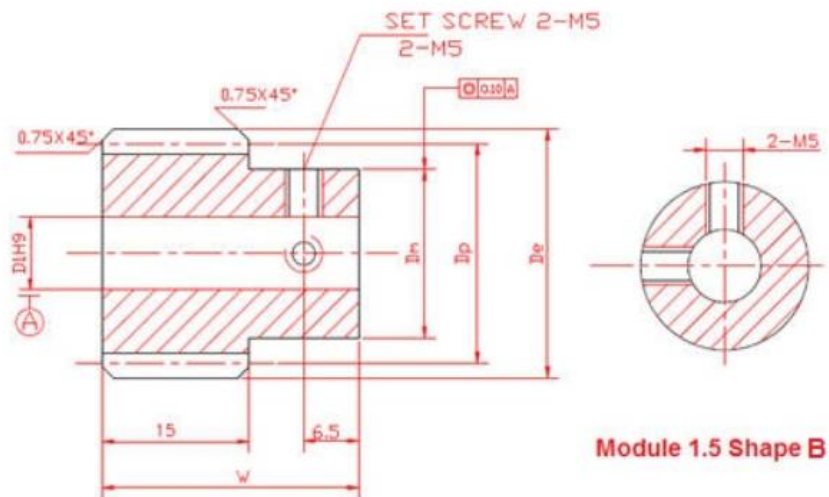
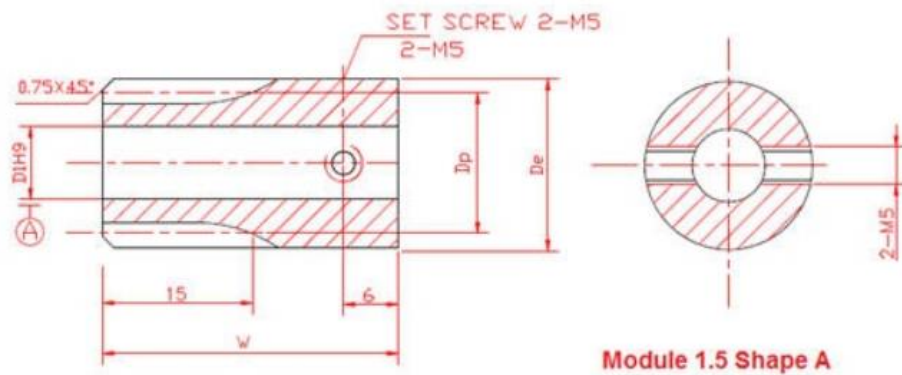
Part No.	Module	Teeth	De	Dp	DH9	W	Dm	Set Screw	Shape	Max Bore
PSC1012A	1.0	12	14.0	12.0	6.35	25	—	2-M4	A	6.35
PSC1014A	1.0	14	16.0	14.0	6.35	25	—	2-M4	A	8
PSC1016A	1.0	16	18.0	16.0	6.35	25	—	2-M4	A	8
PSC1018A	1.0	18	20.0	18.0	6.35	25	—	2-M4	A	10
PSC1020A	1.0	20	22.0	20.0	6.35	25	—	2-M4	A	10
PSC1022A	1.0	22	24.0	22.0	6.35	25	—	2-M4	A	12.7
PSC1024A	1.0	24	26.0	24.0	6.35	25	—	2-M4	A	15
PSC1020B	1.0	20	22.0	20.0	6.35	25	16	2-M4	B	6.35
PSC1022B	1.0	22	24.0	22.0	6.35	25	16	2-M4	B	6.35
PSC1024B	1.0	24	26.0	24.0	6.35	25	20	2-M4	B	12.7
PSC1026B	1.0	26	28.0	26.0	6.35	25	20	2-M4	B	12.7
PSC1030B	1.0	30	32.0	30.0	6.35	25	20	2-M4	B	12.7

RACK STRAIGHT Teeth MODULE 1.0



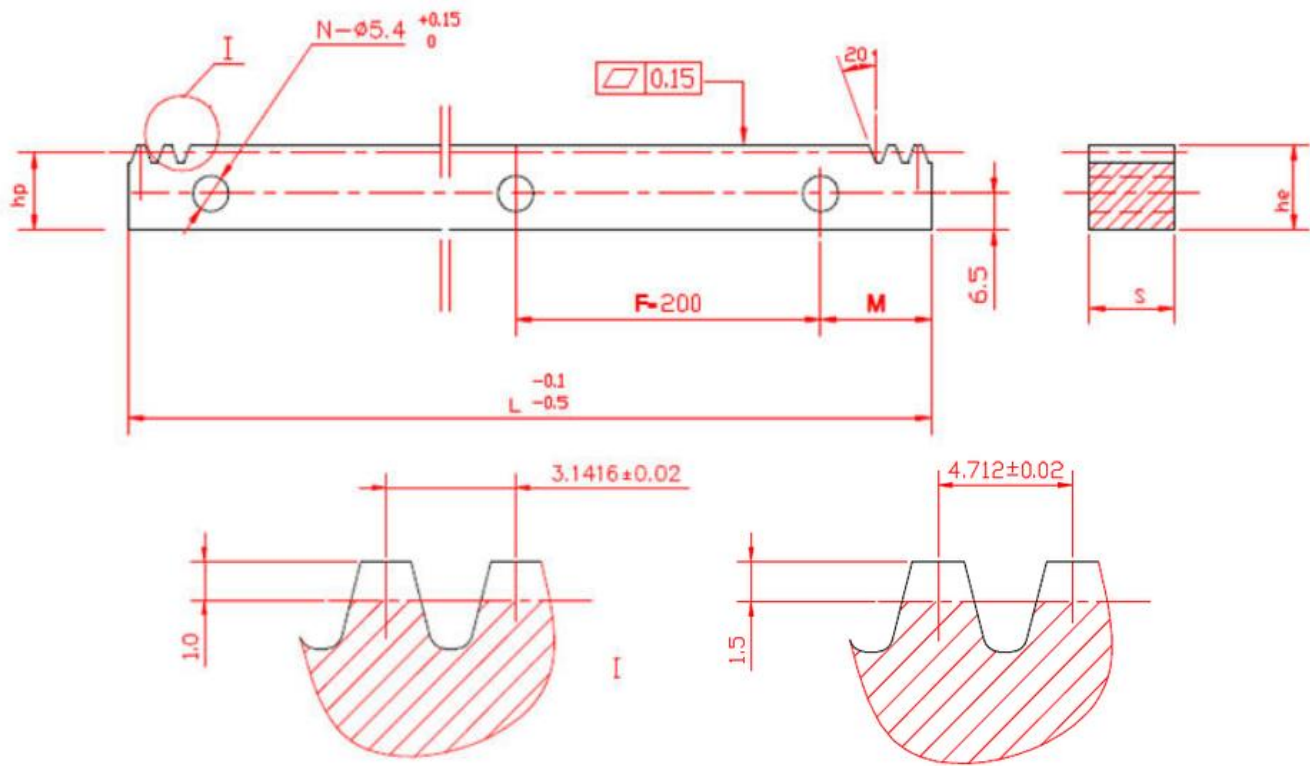
Part No.	Module	Length (mm)	h_e	h_p	S	L Actual	F-200	No. of Holes	M
RSHC100500	1.0	500	15	14	15	500	2	3	55
RSHC101000	1.0	1000	15	14	15	999.03	4	5	99.52
RSHC101500	1.0	1500	15	14	15	1498.50	7	8	49.25
RSHC102000	1.0	2000	15	14	15	1998.05	9	10	99.03
RSHC102500	1.0	2500	15	14	15	2498.05	12	13	49.25
RSHC103000	1.0	3000	15	14	15	2998.05	14	15	99.03

PINION GEAR Straight Teeth MODULE 1.5



Part No.	Module	Teeth	De	Dp	DH9	W	Dm	Set Screw	Shape	Max Bore
PSC1516A	1.5	16	27.0	24.0	6.35	30	—	2-M5	A	15
PSC1518A	1.5	18	30.0	27.0	6.35	30	—	2-M5	A	18
PSC1520A	1.5	20	33.0	30.0	6.35	30	—	2-M5	A	20
PSC1518B	1.5	18	30.0	27.0	6.35	30	20	2-M5	B	12.7
PSC1520B	1.5	20	33.0	30.0	6.35	30	25	2-M5	B	15
PSC1522B	1.5	22	36.0	33.0	6.35	30	25	2-M5	B	15
PSC1524B	1.5	24	39.0	36.0	6.35	30	25	2-M5	B	15
PSC1526B	1.5	26	42.0	39.0	6.35	30	30	2-M5	B	20
PSC1530B	1.5	30	48.0	45.0	6.35	30	30	2-M5	B	20
PSC1534B	1.5	34	54.0	51.0	6.35	30	35	2-M5	B	25
PSC1536B	1.5	36	57.0	54.0	6.35	30	35	2-M5	B	25
PSC1540B	1.5	40	63.0	60.0	6.35	30	40	2-M5	B	30

RACK STRAIGHT Teeth MODULE 1.5



Part No.	Module	Length (mm)	he	hp	S	L Actual	F-200	No. of Holes	M
RSHC150500	1.5	500	15	13.5	15	499.50	2	3	49.75
RSHC151000	1.5	1000	15	13.5	15	999.03	4	5	99.52
RSHC151500	1.5	1500	15	13.5	15	1498.50	7	8	49.25
RSHC152000	1.5	2000	15	13.5	15	1998.05	9	10	99.03
RSHC152500	1.5	2500	15	13.5	15	2498.05	12	13	49.25
RSHC153000	1.5	3000	15	13.5	15	2998.05	14	15	99.03