General data

KRP3				M	R
Weight	**m**	kg	1 Stage		
			2 Stages	103	116
Efficiency	**η**	%	1 Stage		
			2 Stages	93	91
Backlash	**J**	arcmin	Standard	3	4
			Reduced	1	2
Color				RAL2012	

Pinion features

Tooth type			Helical	Straight
Module	**Mo**	mm	5	5
Helix angle (left)	**β**	deg	19°31'42"	0°
Number of teeth	**Z2**	-	18	19
Pressure angle	**α**	deg	20°	20°
Theoretical pitch diameter	**D02**	mm	95,49	95
Addendum modification factor	**x0**	-	0,251	0,300
Pinion quality grade	**Q**	(ISO 1328)	6	6
Surface hardness	**HRC**	HRC	61-63	61-63

Rack features

Version			Helical	Straight
Standard	**F2B**	N	44837	38761
	F2NOT	N	89674	67410
	Material		C45E	DIN 1.1191
Reinforced	**F2B**	N	55062	N/A
	F2NOT	N	119700	N/A
	Material		16MnCr5	
Available length	**L**	mm	500, 1000, 2000	
Dimensions			see details p113-115	

Drive linear features

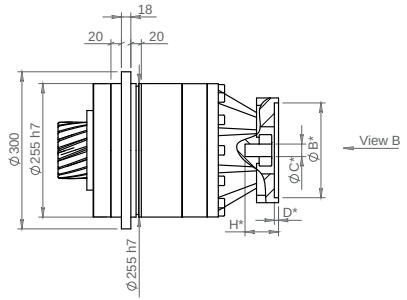
Ratio			5	7	10	17	21	31	46	61	91
Nominal feed force	**F2N**	N				38748	31417	46078	29532	32255	32255
Peak acceleration feed force	**F2B**	N				67819	54980	80637	51691	56446	56446
Max. acceleration feed force	**F2B_max**	N				135637	109959	161273	103383	112891	112891
E-stop force	**F2NOT**	N				103676	103676	103676	103676	103676	103676
Max. linear speed	**V2B**	m/min				88	71	48	33	25	16
Nominal linear speed	**V2N**	m/min				28	23	15	10	8	5
Linear stiffness on the rack	**K2T +M**	N/µm				426	426	409	399	387	421
	K2T +R	N/µm				-	363	386	374	385	382
Inertia	**I +M**	kg.mm²				1242	994	8465	773	666	647
	I +R	kg.mm²				-	2552	2403	2330	2224	2204

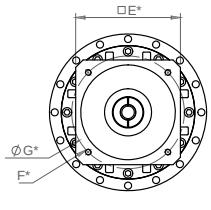
KRP ratings

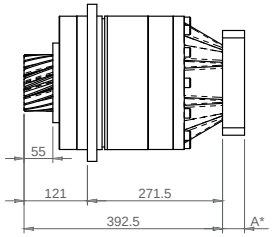
Ratio			5	7	10	17	21	31	46	61	91
Nominal ouput torque	**T2N**	Nm				1850	1500	2200	1410	1540	1540
Max. ouput torque	**T2B**	Nm				3238	2625	3850	2468	2695	2695
No load torque	**T01 +R**	Nm				2,8	2,8	2,8	2,8	2,8	2,8
No load torque	**T01 +M**	Nm				2,5	2,5	2,5	2,5	2,5	2,5
E-stop torque	**T2NOT**	Nm				4950	4950	4950	4950	4950	4950
Max. input speed	**n1B**	rpm				5000	5000	5000	5000	5000	5000
Nominal input speed	**n1N**	rpm				1600	1600	1600	1600	1600	1600
Radial stiffness	**K2R**	N/µm				1100	1100	1100	1100	1100	1100
Axial stiffness	**K2A**	N/µm				4355	4355	4355	4355	4355	4355
Torsional stiffness	**C2t +R**	Nm/ rad					1354472	1505733	1423227	1498858	1478231
		Nm/arcmin					394	438	414	436	430
	C2t +M	Nm/ rad				1787628	1787628	1663869	1588239	1512609	1753251
		Nm/arcmin				520	520	484	462	440	510

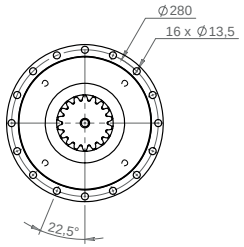
Dimensions and main data for information only - Please consult us and / or refer to Products Datasheets
For accurate selection, contact your local supplier

DIMENSIONS - TYPE M





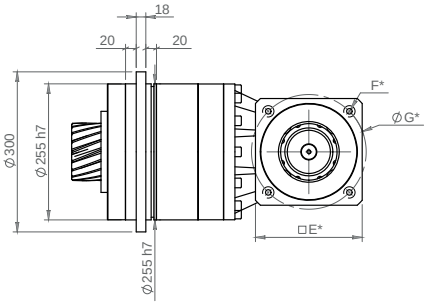


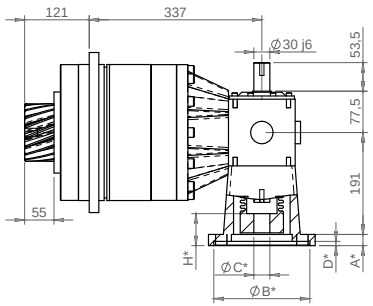


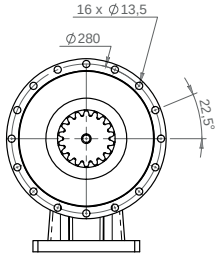
	IFB 140 14/24	IFB 140 28/38	IFB 200 28/38	IFB 260 28/38
A	37	42	57	64
E	140	140	200	260
H	59	65	80	87

*B C D F G According to motor dimensions
Tapping depth =1.5x0 thread

DIMENSIONS - TYPE R







	MF3 140	MF3 200	MF3 260
A	21	21	24
E	140	200	260
H	80	80	83

*B C D F G According to motor dimensions
Tapping depth =1.5x0 thread

Dimensions and main data for information only - Please consult us and / or refer to Products Datasheets
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