General data

KRP1				M	R
Weight	**m**	kg	1 Stage	18	22
			2 Stages	20	24
Efficiency	**η**	%	1 Stage	96	94
			2 Stages	93	91
Backlash	**J**	arcmin	Standard	3	4
			Reduced	1	2
Color				RAL2012	

Pinion features

Tooth type			Helical	Straight
Module	**Mo**	mm	3	3
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	57,3	57
Addendum modification factor	**x0**	-	0,118	0,167
Pinion quality grade	**Q**	(ISO 1328)	6	6
Surface hardness	**HRC**	HRC	61-63	61-63

Rack features

Version			Helical	Straight
Standard	**F2B**	N	15939	13766
	F2NOT	N	31878	23940
	Material		C45E	DIN 1.1191
Reinforced	**F2B**	N	19562	N/A
	F2NOT	N	42525	N/A
	Material		16MnCr5	
Available length	**L**	mm	500, 1000, 2000	
Dimensions			see details p113-115	

Drive linear features

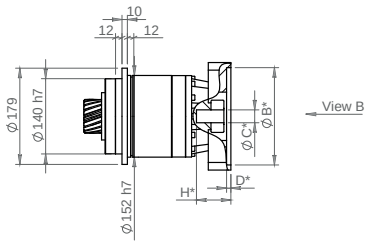
Ratio			5	7	10	17	21	31	46	61	91
Nominal feed force	**F2N**	N	12914	13264	9424	13613	10646	15009	9424	13089	9424
Peak acceleration feed force	**F2B**	N	22618	23211	16510	23839	18639	26283	16510	22897	16510
Max. acceleration feed force	**F2B_max**	N	45236	46422	33019	47679	37277	52565	33019	45794	33019
E-stop force	**F2NOT**	N	29075	29075	29075	29075	29075	29075	29075	29075	29075
Max. linear speed	**V2B**	m/min	180	129	90	64	51	35	23	18	12
Nominal linear speed	**V2N**	m/min	58	41	29	28	22	15	10	8	5
Linear stiffness on the rack	**K2T +M**	N/µm	224	208	195	190	190	178	170	173	185
	K2T +R	N/µm	191	174	158		169	176	169	173	185
Inertia	**I +M**	kg.mm²	883	746	674	287	269	259	254	246	245
	I +R	kg.mm²	2240	2304	2231		458	448	443	435	433

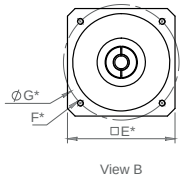
KRP ratings

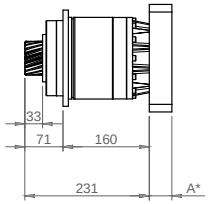
Ratio			5	7	10	17	21	31	46	61	91
Nominal ouput torque	**T2N**	Nm	370	380	270	390	305	430	270	375	270
Max. ouput torque	**T2B**	Nm	648	665	473	683	534	753	473	656	473
No load torque	**T01 +R**	Nm	5	5	5		1,5	1,5	1,5	1,5	1,5
No load torque	**T01 +M**	Nm	4,5	4,5	4,5	1	1	1	1	1	1
E-stop torque	**T2NOT**	Nm	833	833	833	833	833	833	833	833	833
Max. input speed	**n1B**	rpm	5000	5000	5000	6000	6000	6000	6000	6000	6000
Nominal input speed	**n1N**	rpm	1600	1600	1600	2600	2600	2600	2600	2600	2600
Radial stiffness	**K2R**	N/µm	480	480	480	480	480	480	480	480	480
Axial stiffness	**K2A**	N/µm	1710	1710	1710	1710	1710	1710	1710	1710	1710
Torsional stiffness	**C2t +R**	Nm/ rad	295646	250956	213140		237205	254393	237205	247518	278457
		Nm/arcmin	86	73	62		69	74	69	72	81
	C2t +M	Nm/ rad	412530	350650	309397	292208	292208	261269	240642	247518	278457
		Nm/arcmin	120	102	90	85	85	76	70	72	81

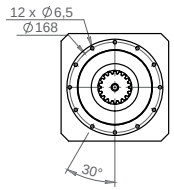
Dimensions and main data for information only - Please consult us and / or refer to Products Datasheets
For accurate selection, contact your local supplier

DIMENSIONS - TYPE **M 1 stage**





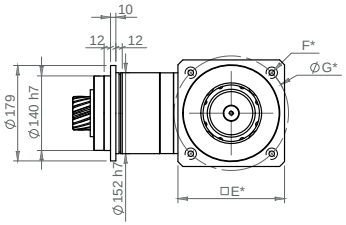


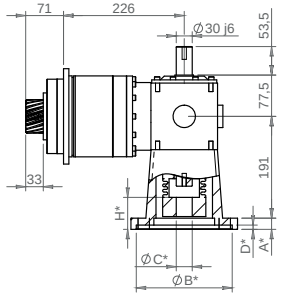


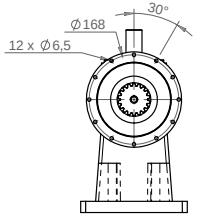
	IFB 140 14/24	IFB 140 28/38	IFB 200 28/38	IFB 260 28/38
A	37	42	57	64
E	140	140	200	260
H	59	65	80	87

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

DIMENSIONS - TYPE **R 1 stage**







	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

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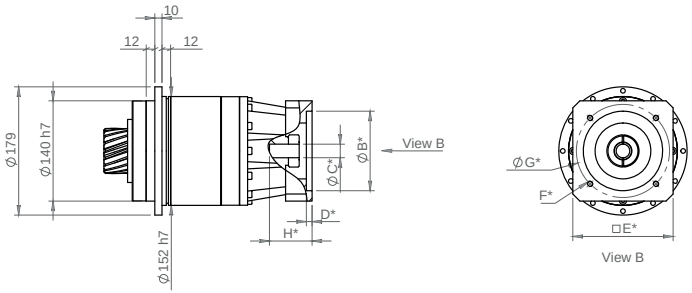
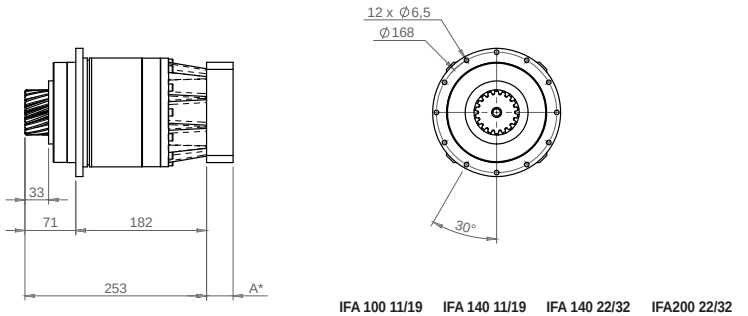
DIMENSIONS - TYPE **M 2 stages**

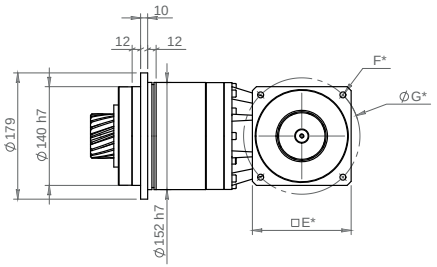


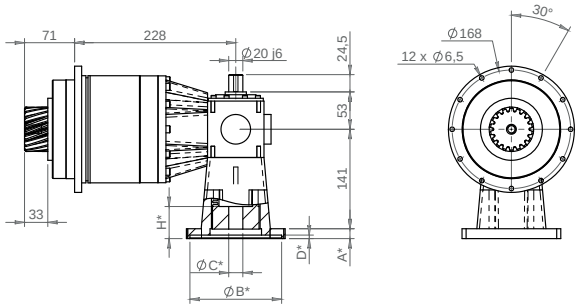


	IFA 100 11/19	IFA 140 11/19	IFA 140 22/32	IFA200 22/32
A	27	27	37	42
E	100	140	140	200
H	49	49	59	64

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

DIMENSIONS - TYPE **R 2 stages**





	MF1 100	MF1 140	MF1 200
A	14	14	18
E	100	140	200
H	62	62	66

*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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