Linear & Rotary
Axis Drive

DRP | KRPX | KRP | SRP

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DRP | KRPX | KRP | SRP

Monobloc housing for Universal mounting

› Preloaded system for zero backlash with direct integration

Delivered as a complete machine sub-assembly, DRP is a multifunction patented system offering direct integration into the machine (geometry, lubrication, installation).
It's the favorite choice of key OEMs worldwide

Rigid machine frame extension

› Side mounting for use with electrical preload for zero backlash

Offering accessible side mounting, KRPX generates cost saving in design and enables easy set up during its installation onto the machine frame.
Ideal for both linear and rotary axis drive, KRPX provides high stiffness with electrical preload for zero-backlash

Flange mounting and integral output pinion

› Electrical or mechanical preload for zero backlash

KRP's original design provides the highest output bearing capacity and stiffness.
Its massive integral output pinion is at the core of this unique design.

The versatile and Multi-use solution

› Hig-tech planetary reducer + universal output flange

SRP comes as an integrated concept drive offering designers a ready to use complete machine sub-assembly.
With extremely high tilting moment, SRP allows highly dynamic motion control for heavily loaded applications

DRP *SIZE 1*

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General data

DRP1				M	R
Weight	**m**	kg	1 Stage		
			2 Stages	109	115
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	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	48904	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				13613	10646	15009	9424	13089	9424
Peak acceleration feed force	**F2B**	N				23839	18639	26283	16510	22897	16510
Max. acceleration feed force	**F2B_max**	N				47679	37277	52565	33019	45794	33019
E-stop force	**F2NOT**	N				29075	29075	29075	29075	29075	29075
Max. linear speed	**V2B**	m/min				64	51	35	23	18	12
Nominal linear speed	**V2N**	m/min				28	22	15	10	8	5
Linear stiffness on the rack	**K2T +M**	N/µm				190	190	178	170	173	185
	K2T +R	N/µm					169	176	169	173	185
Inertia	**I +M**	kg.mm²				287	269	259	254	246	245
	I +R	kg.mm²					458	448	443	435	433

DRP ratings

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

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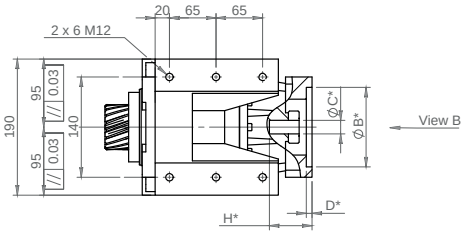
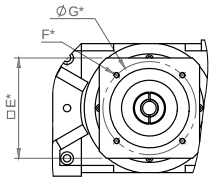
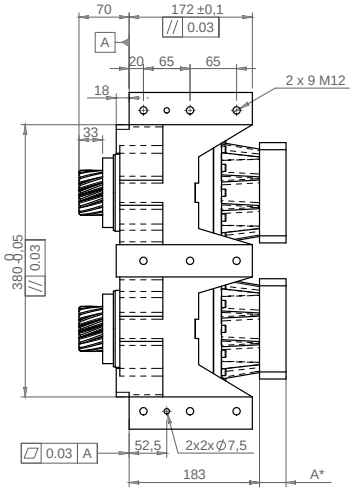
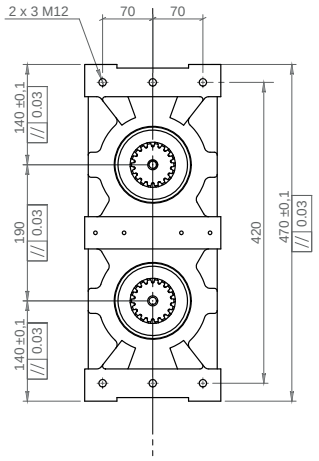
DIMENSIONS - TYPE **M**





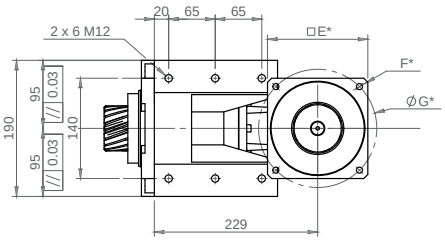


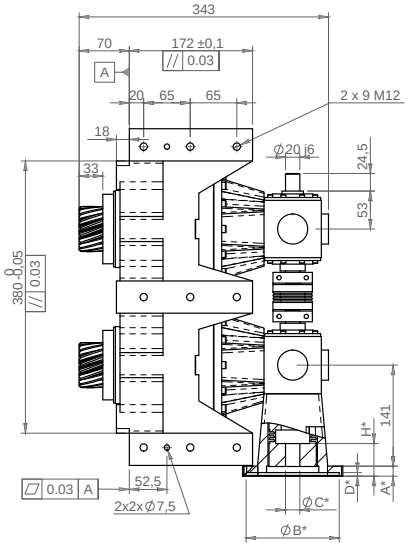


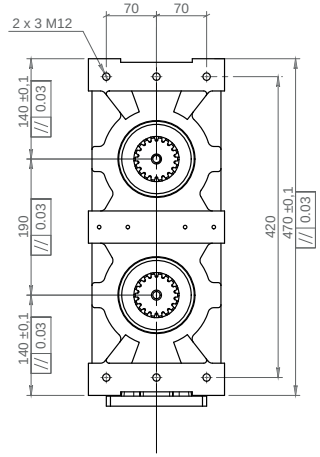
	IFA 100 11/19	IFA 140 11/19	IFA 140 22/32	IFA200 22/32
A	27	27	37	42
E	100	140	140	200
H	49	49	59	64

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

DIMENSIONS - TYPE **R**







	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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DRP *SIZE 2*

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General data

DRP2				M	R
Weight	**m**	kg	1 Stage		
			2 Stages	202	207
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	4	4
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	76,39	76
Addendum modification factor	**x0**	-	0,638	0,688
Pinion quality grade	**Q**	(ISO 1328)	6	6
Surface hardness	**HRC**	HRC	61-63	61-63

Rack features

Version			Helical	Straight
Standard	**F2B**	N	28552	24705
	F2NOT	N	57103	42966
	Material		C45E	DIN 1.1191
Reinforced	**F2B**	N	35138	N/A
	F2NOT	N	76388	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				27491	20945	31418	20945	30109	20945
Peak acceleration feed force	**F2B**	N				48121	36654	54981	36654	52703	36654
Max. acceleration feed force	**F2B_max**	N				96243	73308	109962	73308	73308	73308
E-stop force	**F2NOT**	N				71999	71999	71999	71999	71999	71999
Max. linear speed	**V2B**	m/min				85	69	46	31	24	16
Nominal linear speed	**V2N**	m/min				30	24	16	11	8	6
Linear stiffness on the rack	**K2T +M**	N/µm				291	276	291	278	288	275
	K2T +R	N/µm					251	273	273	265	275
Inertia	**I +M**	kg.mm²				816	722	663	634	596	588
	I +R	kg.mm²					1313	1254	1226	1188	1160

DRP ratings

Ratio			5	7	10	17	21	31	46	61	91
Nominal ouput torque	**T2N**	Nm				1050	800	1200	800	1150	800
Max. ouput torque	**T2B**	Nm				1838	1400	2100	1400	2013	1400
No load torque	**T01 +R**	Nm					2,3	2,3	2,3	2,3	2,3
No load torque	**T01 +M**	Nm				2	2	2	2	2	2
E-stop torque	**T2NOT**	Nm				2750	2750	2750	2750	2750	2750
Max. input speed	**n1B**	rpm				6000	6000	6000	6000	6000	6000
Nominal input speed	**n1N**	rpm				2100	2100	2100	2100	2100	2100
Radial stiffness	**K2R**	N/µm				650	650	650	650	650	650
Axial stiffness	**K2A**	N/µm				2162	2162	2162	2162	2162	2162
Torsional stiffness	**C2t +R**	Nm/ rad				-	677236	794120	794120	866312	804433
		Nm/arcmin					197	231	231	252	234
	C2t +M	Nm/ rad				904127	814746	904127	825059	883501	807870
		Nm/arcmin				263	237	263	240	257	235

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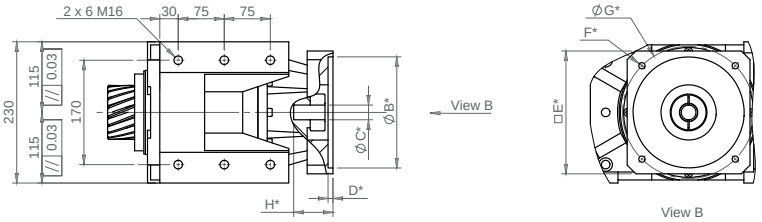
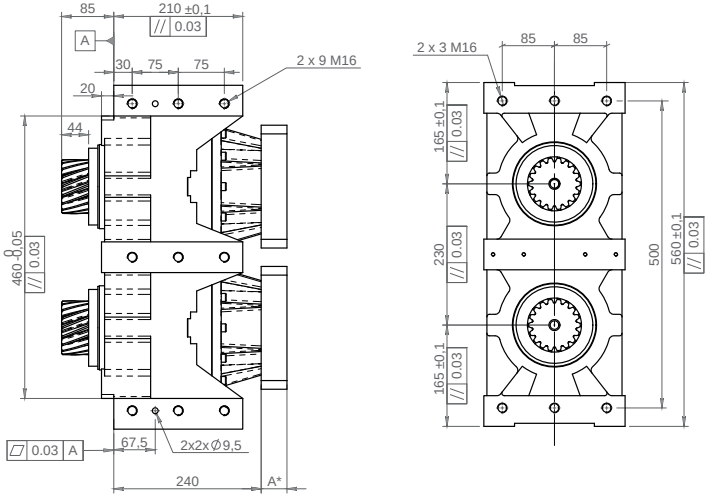
DIMENSIONS - TYPE **M**

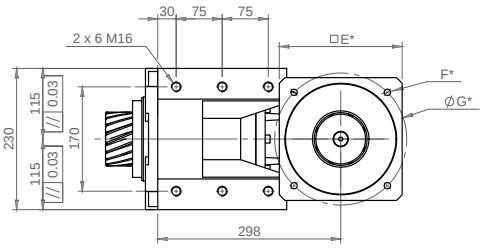


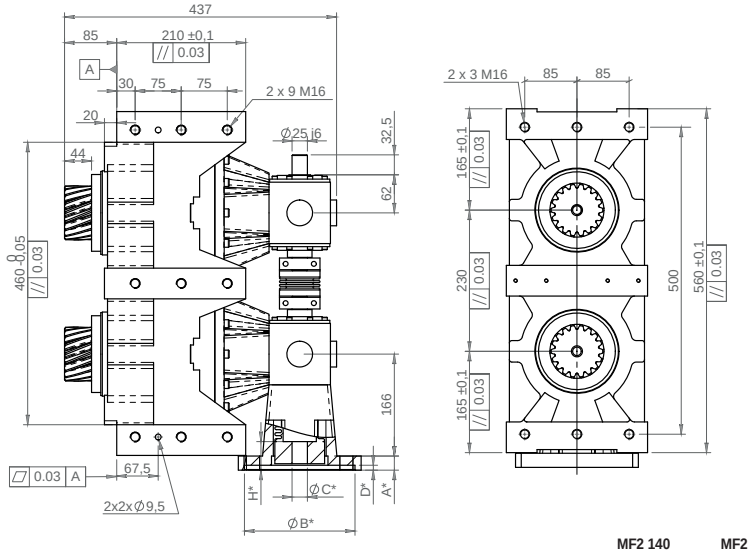


	IFB 140 14/24	IFB 140 28/38	IFB 200 28/38	IFB 260 28/38
A	37	42	57	64
E	140	140	200	260
H	59	65	80	87

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

DIMENSIONS - TYPE **R**





	MF2 140	MF2 200
A	23	23
E	140	200
H	80	80

*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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DRP *SIZE 3*

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General data

DRP3				M	R
Weight	**m**	kg	1 Stage		
			2 Stages	294	300
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				67861	54980	80637	51691	56446	56446
Max. acceleration feed force	**F2B_max**	N				135721	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				437	426	409	399	387	421
	K2T	**+R** N/µm					363	368	374	385	382
Inertia	**I**	**+M** kg.mm²				1242	994	846	773	666	647
	I	**+R** kg.mm²					2527	2378	2305	2199	2180

DRP 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				3240	2625	3850	2468	2695	2695
No load torque	**T01 +R**	Nm					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				1873572	1787628	1663869	1588239	1512609	1753251
		Nm/arcmin				545	520	484	462	440	510

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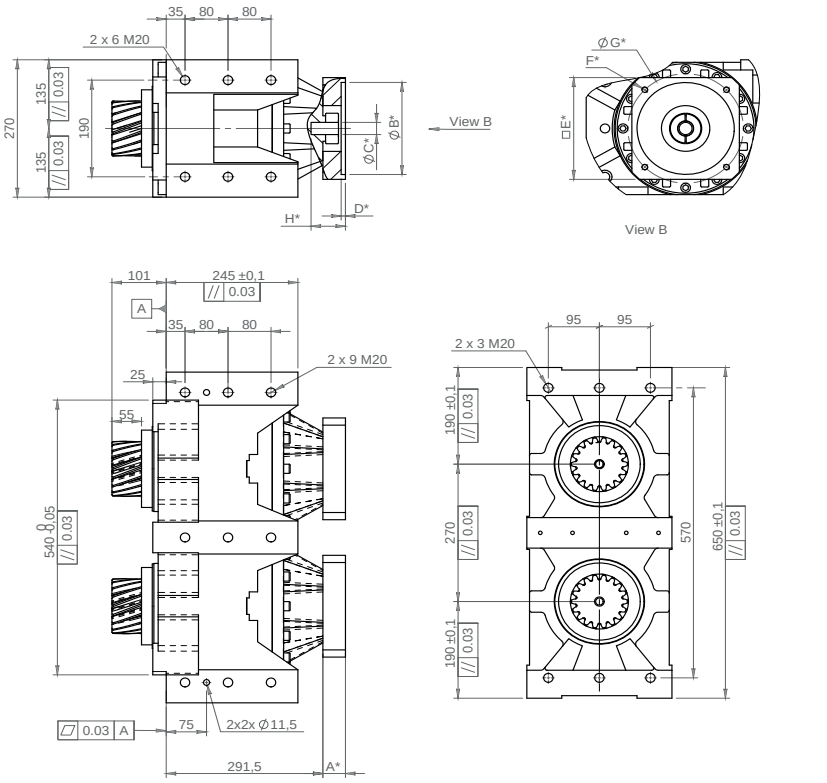
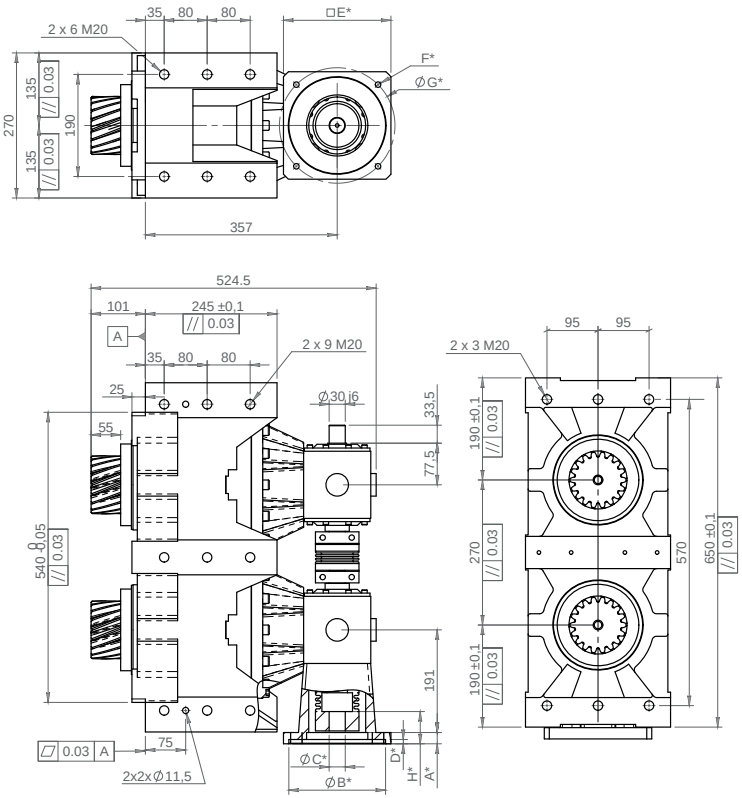
DIMENSIONS - TYPE **M**



	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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DRP *SIZE 4*

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General data

DRP4				M	R
Weight	**m**	kg	1 Stage		
			2 Stages	506	520
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	6	6
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	114,59	114
Addendum modification factor	**x0**	-	0,201	0,250
Pinion quality grade	**Q**	(ISO 1328)	6	6
Surface hardness	**HRC**	HRC	61-63	61-63

Rack features

Version			Helical	Straight
Standard	**F2B**	N	64103	55424
	F2NOT	N	128205	96390
	Material		C45E	DIN 1.1191
Reinforced	**F2B**	N	78753	N/A
	F2NOT	N	171203	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				61087	61087	62833	44681	49568	49568
Peak acceleration feed force	**F2B**	N				106903	106903	109957	78192	86744	86744
Max. acceleration feed force	**F2B_max**	N				213806	213806	219914	156384	173488	173488
E-stop force	**F2NOT**	N				132647	132647	132647	132647	132647	132647
Max. linear speed	**V2B**	m/min				85	69	46	31	24	16
Nominal linear speed	**V2N**	m/min				28	22	15	10	8	5
Linear stiffness on the rack	**K2T**	**+M** N/µm				461	461	461	440	493	440
	K2T	**+R** N/µm					440	440	420	437	431
Inertia	**I**	**+M** kg.mm²				3439	2246	1886	1702	1146	1095
	I	**+R** kg.mm²					10765	7955	7770	7242	7191

DRP ratings

Ratio			5	7	10	17	21	31	46	61	91
Nominal ouput torque	**T2N**	Nm				3500	3500	3600	2560	2840	2840
Max. ouput torque	**T2B**	Nm				6125	6125	6300	4480	4970	4970
No load torque	**T01 +R**	Nm					3,6	3,6	3,6	3,6	3,6
No load torque	**T01 +M**	Nm				3	3	3	3	3	3
E-stop torque	**T2NOT**	Nm				7600	7600	7600	7600	7600	7600
Max. input speed	**n1B**	rpm				4000	4000	4000	4000	4000	4000
Nominal input speed	**n1N**	rpm				1300	1300	1300	1300	1300	1300
Radial stiffness	**K2R**	N/µm				1250	1250	1250	1250	1250	1250
Axial stiffness	**K2A**	N/µm				5000	5000	5000	5000	5000	5000
Torsional stiffness	**C2t +R**	Nm/ rad					2475178	2471740	2289539	2444238	2382359
		Nm/arcmin					720	719	666	711	693
	C2t +M	Nm/ rad				2681442	2681442	2681442	2468302	3025217	2471740
		Nm/arcmin				780	780	780	718	880	719

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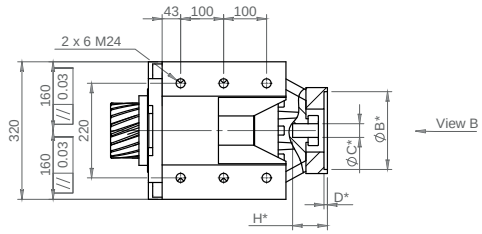
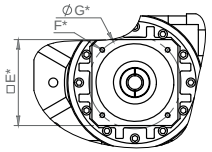
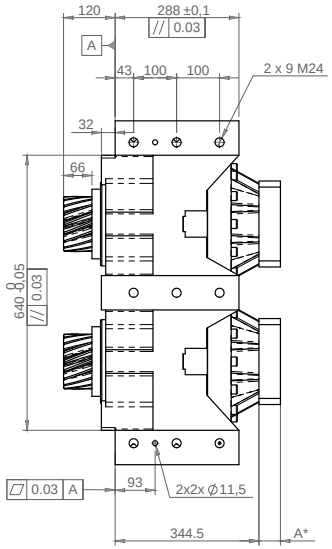
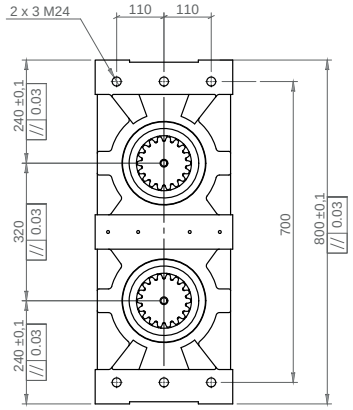
DIMENSIONS - TYPE **M**





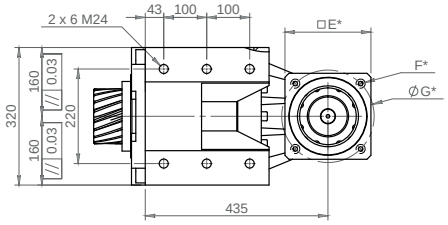


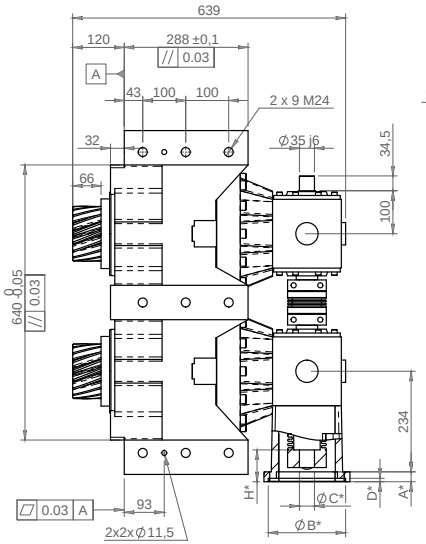


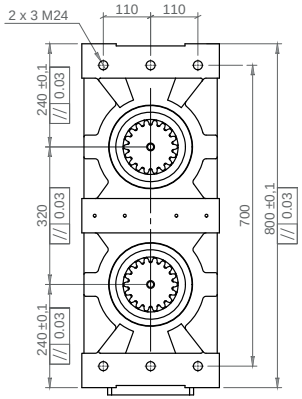
	IFC 140 22/32	IFC 200 22/48	IFC 260 35/48
A	42	50	51
E	140	200	260
H	73	81	82

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

DIMENSIONS - TYPE **R**







	MF4 200	MF4 260
A	23	23
E	200	260
H	110	110

*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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DRP *SIZE 5*

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General data

DRP5				M	R
Weight	**m**	kg	1 Stage		
			2 Stages	1091	1116
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	8	8
Helix angle (left)	**β**	deg	19°31'42"	0
Number of teeth	**Z2**	-	15	16
Pressure angle	**α**	deg	20°	20°
Theoretical pitch diameter	**D02**	mm	127,32	128
Addendum modification factor	**x0**	-	0,355	0,313
Pinion quality grade	**Q**	(ISO 1328)	6	6
Surface hardness	**HRC**	HRC	61-63	61-63

Rack features

Version			Helical	Straight
Standard	**F2B**	N	114380	91220
	F2NOT	N	174205	148960
	Material		C45E	DIN 1.1191
Reinforced	**F2B**	N	N/A	N/A
	F2NOT	N	N/A	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					73830	105247	86396	86396	86396
Peak acceleration feed force	**F2B**	N					118128	157870	138234	138234	138234
Max. acceleration feed force	**F2B_max**	N					236255	315740	276469	276469	276469
E-stop force	**F2NOT**	N					180647	180647	180647	180647	180647
Max. linear speed	**V2B**	m/min					76	52	35	26	18
Nominal linear speed	**V2N**	m/min					19	13	9	7	4
Linear stiffness on the rack	**K2T +M**	N/µm					623	623	545	598	500
	K2T +R	N/µm					623	622	545	595	483
Inertia	**I +M**	kg.mm²					2916	2204	1851	1228	1133
	I +R	kg.mm²					17436	16724	16371	15760	15666

DRP ratings

Ratio			5	7	10	17	21	31	46	61	91
Nominal ouput torque	**T2N**	Nm					4700	6700	5500	5500	5500
Max. ouput torque	**T2B**	Nm					7520	10050	8800	8800	8800
No load torque	**T01 +R**	Nm					5,2	5,2	5,2	5,2	5,2
No load torque	**T01 +M**	Nm					4	4	4	4	4
E-stop torque	**T2NOT**	Nm					11500	11500	11500	11500	11500
Max. input speed	**n1B**	rpm					4000	4000	4000	4000	4000
Nominal input speed	**n1N**	rpm					1000	1000	1000	1000	1000
Radial stiffness	**K2R**	N/µm					1550	1550	1550	1550	1550
Axial stiffness	**K2A**	N/µm					5484	5484	5484	5484	5484
Torsional stiffness	**C2t +R**	Nm/ rad					4812845	4802532	3781521	4427818	3107723
		Nm/arcmin					1400	1397	1100	1288	904
	C2t +M	Nm/ rad					4812845	4812845	3781521	4469071	3279610
		Nm/arcmin					1400	1400	1100	1300	954

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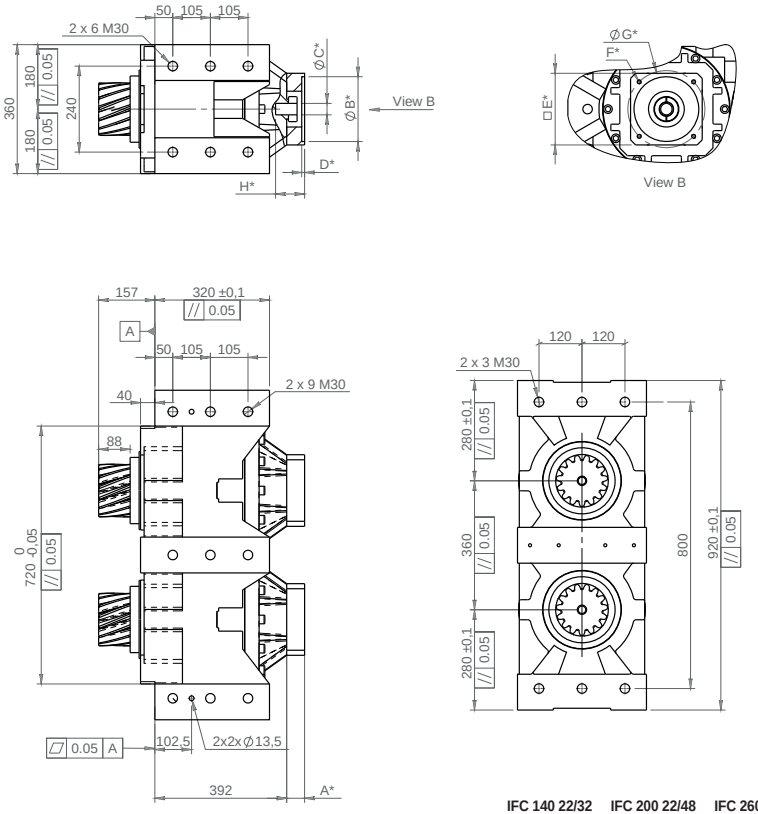
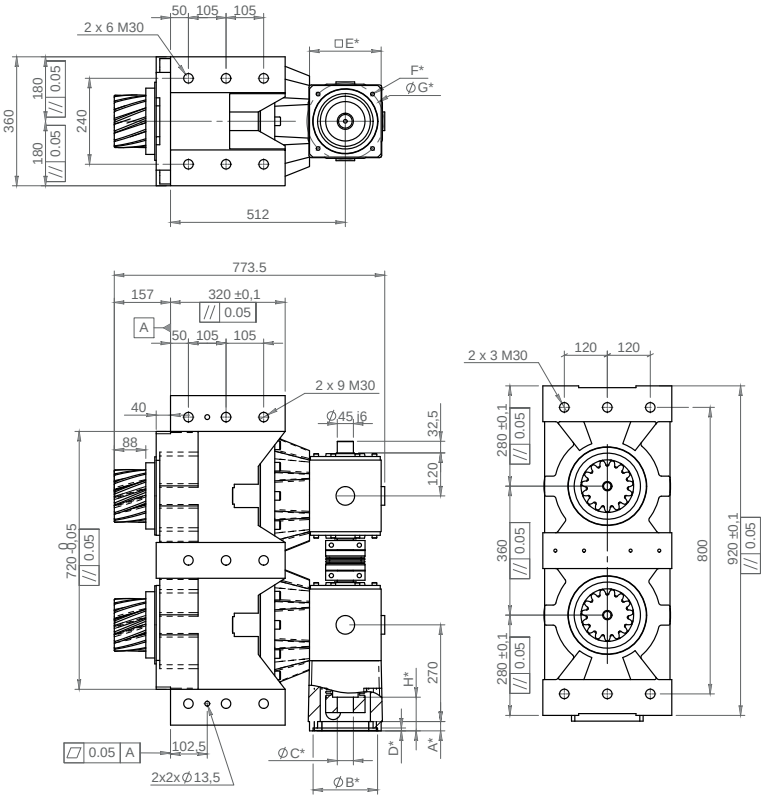
DIMENSIONS - TYPE **M**



	IFC 140 22/32	IFC 200 22/48	IFC 260 35/48
A	42	50	51
E	140	200	260
H	73	81	82

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

DIMENSIONS - TYPE **R**



	MF5 200	MF5 260
A	26	26
E	200	260
H	110	110

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

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