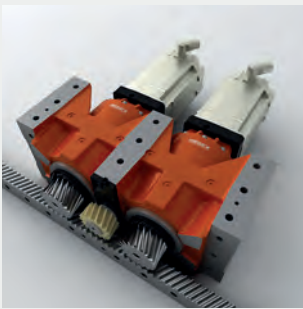


Linear & Rotary Axis Drive

DRP | KRPX | KRP | SRP

Linear & Rotary Axis Drive

DRP | KRPX | KRP | SRP



CUBIconcept

DRP



CUBIconcept

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

Linear & Rotary Axis Drives

Direct Drive solution

No
Pinion

Front fixing

1 pinion

Modular
Pinion

Front fixing

Low
backlash

1 pinion

Integral
Output Pinion

Side fixing

Front fixing

Rack & Pinion solution

100 %
backlash
free

1 motor

2 pinions close
to each other

Integral
Output Pinion

Top & Side fixing

Integral
Output Pinion

Front fixing

Modular
Pinion

Front fixing

2 motors

2 pinions close
to each other

Integral
Output Pinion

Top & Side fixing

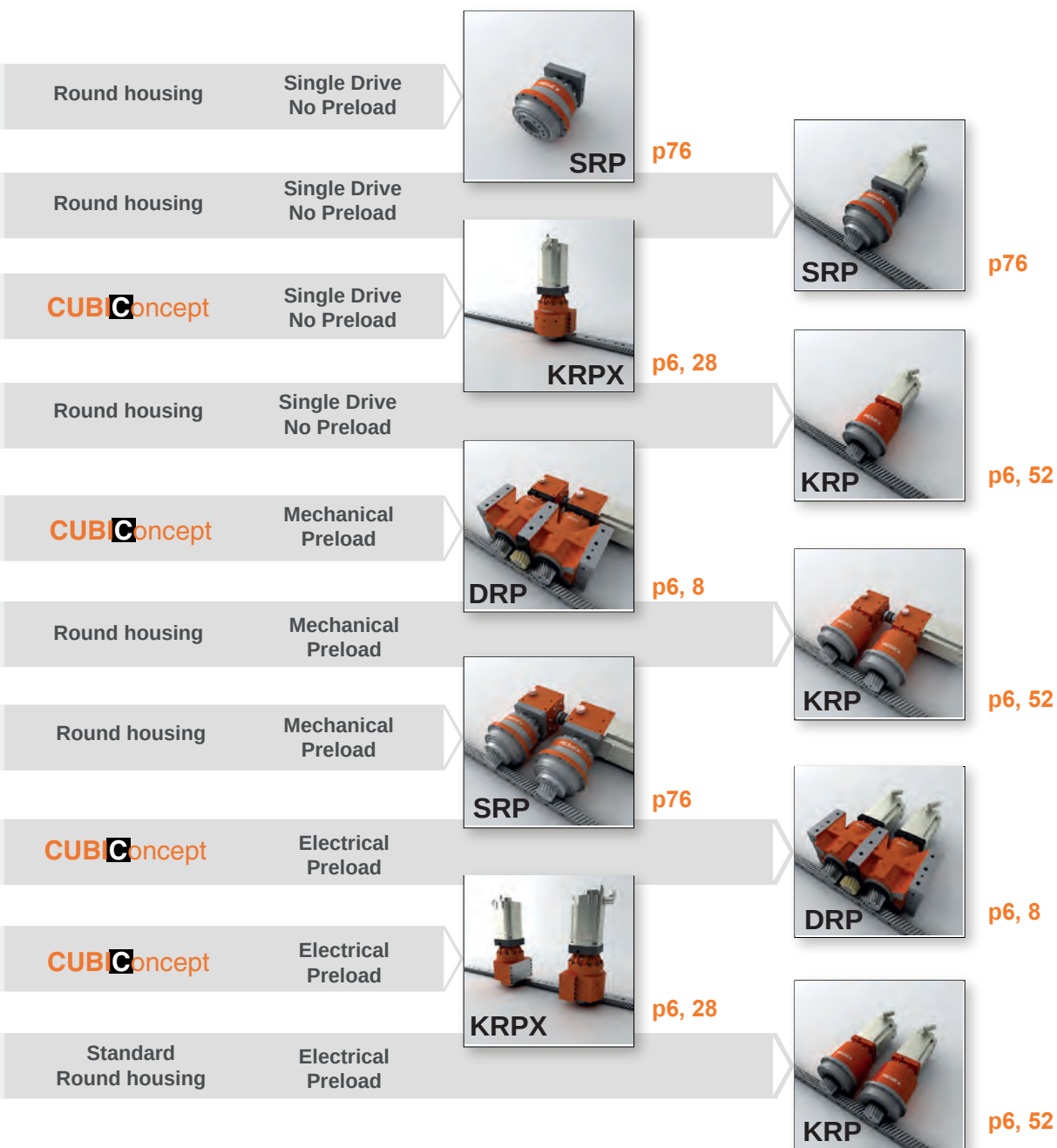
2 pinions
at distance

Integral
Output Pinion

Side fixing

Front fixing

4 main designs,
up to 7 different sizes,
a large number of mounting arrangements
more than 3000 available references.



REDEX provides solutions through close partnerships with
European leaders in **high precision racks** and
high-speed lube systems (p110).

■ DRP ■ KRFX ■ KRP

REDEX offers the **most comprehensive range in machine-tool drives**.

The integrated output pinion exclusive design is at the core of the largest range of servo-reducers fully dedicated to Linear & Rotary Axis Drives.

DRP

KRFX

KRP

Linear & Rotary Axis Drive

Flange mounting, Side mounting, or Universal housing, REDEX provides the optimized axis drive solution.

- Original design
- Zero backlash electrical or mechanical preload available
- Stiffness optimized design, ideal for highly dynamic linear or rotary servo-axes
- 100% compliant with machine-tool quality

Further **information & calculation tools** available on request.

 my REDEX

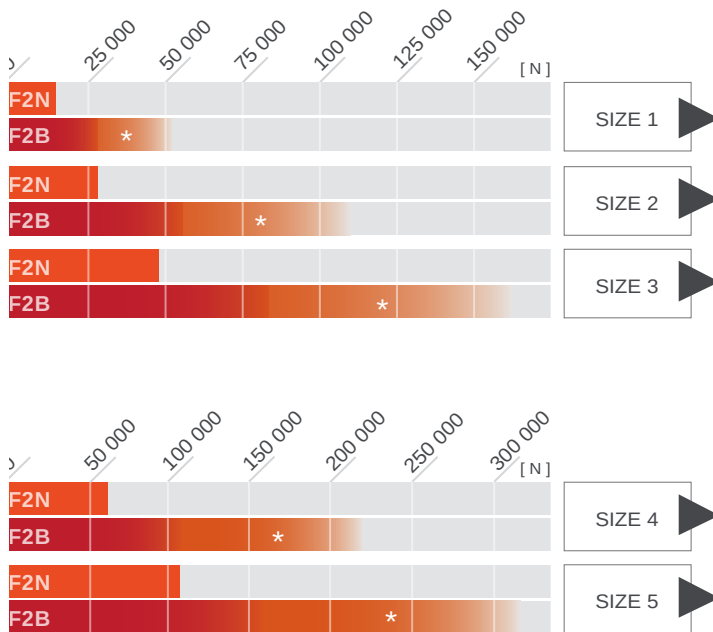
DriveSizer®

www.my-redex.com

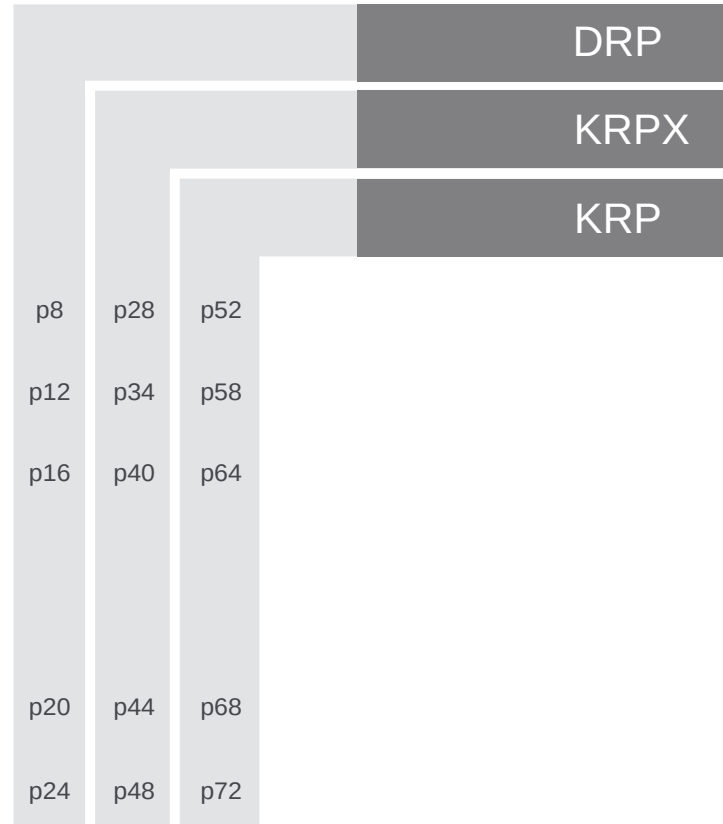


Range Summary

through Application Force



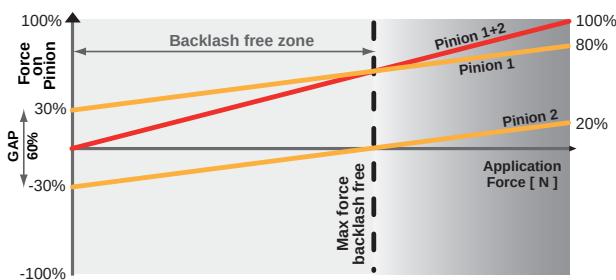
* F2B extension zone for 2 drives sharing the load
Actual value depends on the preload parameters



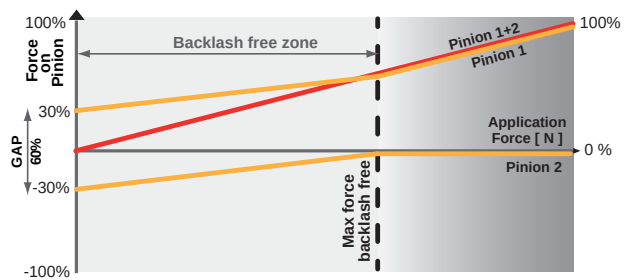
All above data related to Ratio 31

Optimization of the Application Force [N]

through Electrical or Mechanical Preload



Electrical Drive solution
Example with 60% preload



Mechanical Drive solution
Example with 60% preload

DRP *SIZE 1*

DRP1

Weight

Efficiency

Backlash

Color

Tooth type

Module

Helix angle (left)

Number of teeth

Pressure angle

Theoretical pitch diameter

Addendum modification factor

Pinion quality grade

Surface hardness

Ratio

Nominal feed force

Peak acceleration feed force

Max. acceleration feed force

E-stop force

Max. linear speed

Nominal linear speed

Linear stiffness on the rack

Inertia

Ratio

Nominal output torque

Max. output torque

No load torque

No load torque

E-stop torque

Max. input speed

Nominal input speed

Radial stiffness

Axial stiffness

Torsional stiffness

General data

			M	R
m	kg	1 Stage		
		2 Stages	109	115
η	%	1 Stage		
		2 Stages	93	91
J	arcmin	Standard	3	4
		Reduced	1	2
			RAL2012	

Pinion features

		Helical	Straight
Mo	mm	3	3
β	deg	19°31'42"	0°
Z2	-	18	19
α	deg	20	20
D02	mm	57,3	57
x0	-	0,118	0,167
Q	(ISO 1328)	6	6
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

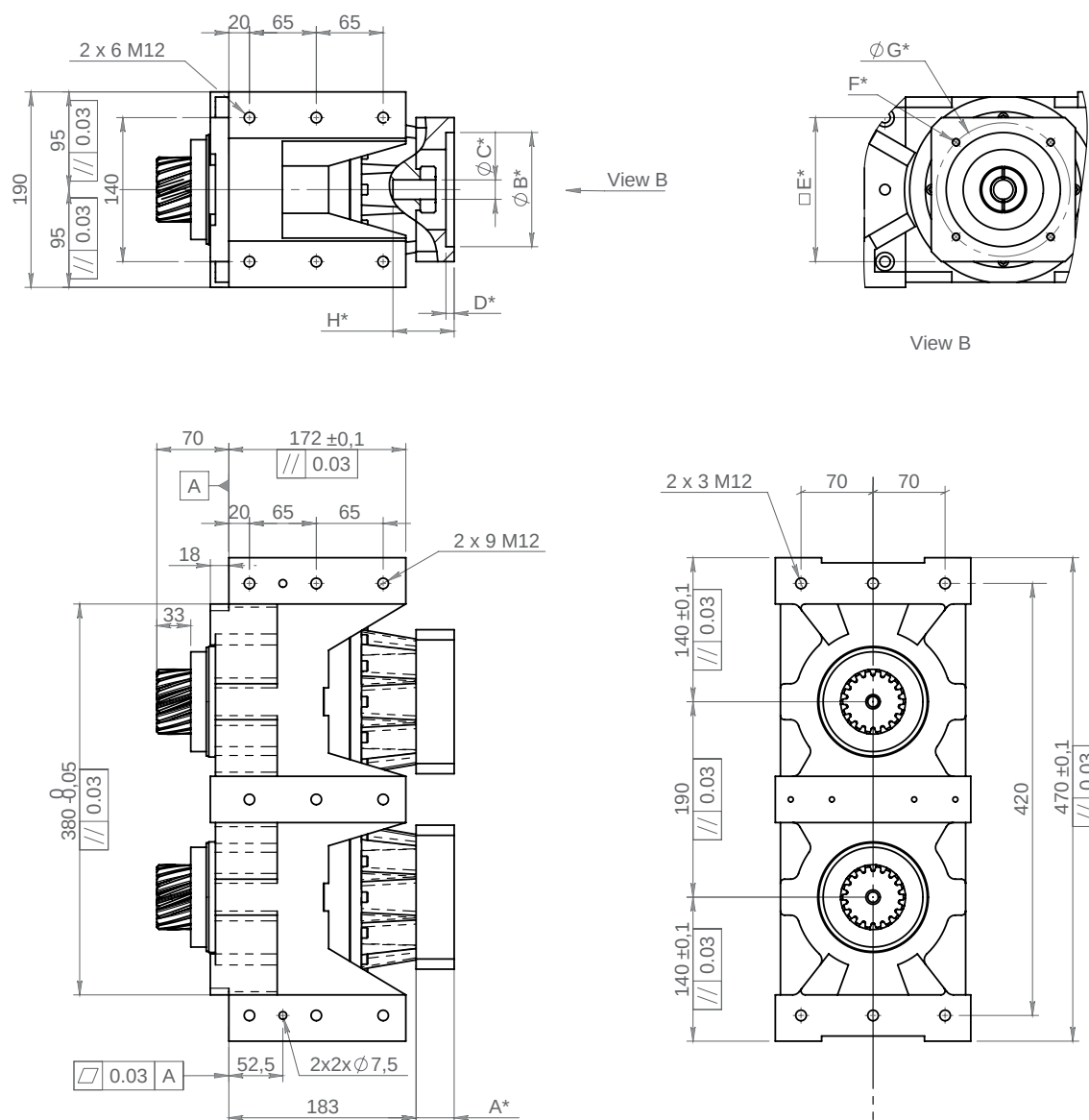
		5	7	10	17	21	31	46	61	91
F2N	N				13613	10646	15009	9424	13089	9424
F2B	N				23839	18639	26283	16510	22897	16510
F2B_max	N				47679	37277	52565	33019	45794	33019
F2NOT	N				29075	29075	29075	29075	29075	29075
V2B	m/min				64	51	35	23	18	12
V2N	m/min				28	22	15	10	8	5
K2T +M	N/μm				190	190	178	170	173	185
K2T +R	N/μm					169	176	169	173	185
I +M	kg.mm ²				287	269	259	254	246	245
I +R	kg.mm ²					458	448	443	435	433

DRP ratings

		5	7	10	17	21	31	46	61	91
T2N	Nm				390	305	430	270	375	270
T2B	Nm				683	534	753	473	656	473
T01 +R	Nm					1,5	1,5	1,5	1,5	1,5
T01 +M	Nm				1	1	1	1	1	1
T2NOT	Nm				833	833	833	833	833	833
n1B	rpm				6000	6000	6000	6000	6000	6000
n1N	rpm				2600	2600	2600	2600	2600	2600
K2R	N/μm				480	480	480	480	480	480
K2A	N/μm				1710	1710	1710	1710	1710	1710
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

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

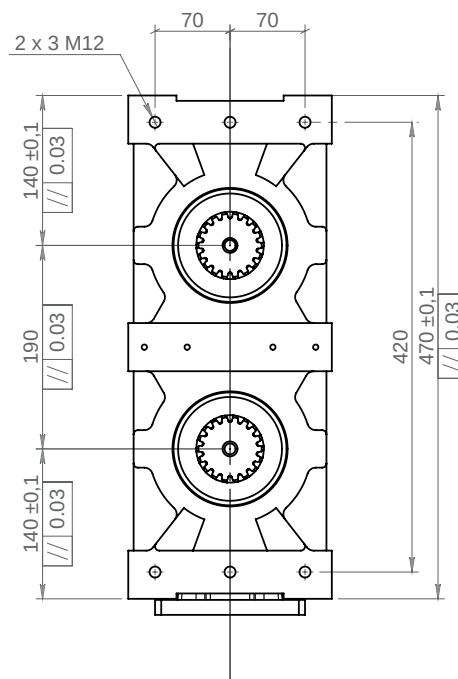
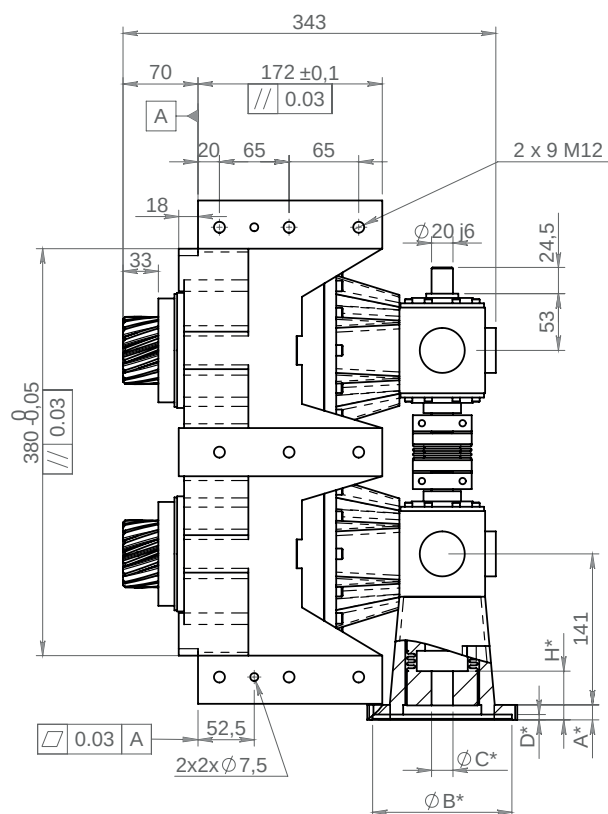
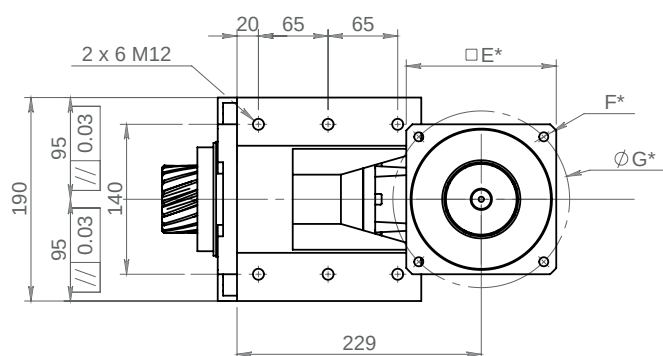
DIMENSIONS - TYPE M



	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
For accurate selection, contact your local supplier

DRP *SIZE 2*

DRP2

Weight

Efficiency

Backlash

Color

Tooth type

Module

Helix angle (left)

Number of teeth

Pressure angle

Theoretical pitch diameter

Addendum modification factor

Pinion quality grade

Surface hardness

Ratio

Nominal feed force

Peak acceleration feed force

Max. acceleration feed force

E-stop force

Max. linear speed

Nominal linear speed

Linear stiffness on the rack

Inertia

Ratio

Nominal output torque

Max. output torque

No load torque

No load torque

E-stop torque

Max. input speed

Nominal input speed

Radial stiffness

Axial stiffness

Torsional stiffness

General data

			M	R
m	kg	1 Stage		
		2 Stages	202	207
η	%	1 Stage		
		2 Stages	93	91
J	arcmin	Standard	3	4
		Reduced	1	2
			RAL2012	

Pinion features

		Helical	Straight
Mo	mm	4	4
β	deg	19°31'42"	0°
Z2	-	18	19
α	deg	20°	20°
D02	mm	76,39	76
x0	-	0,638	0,688
Q	(ISO 1328)	6	6
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

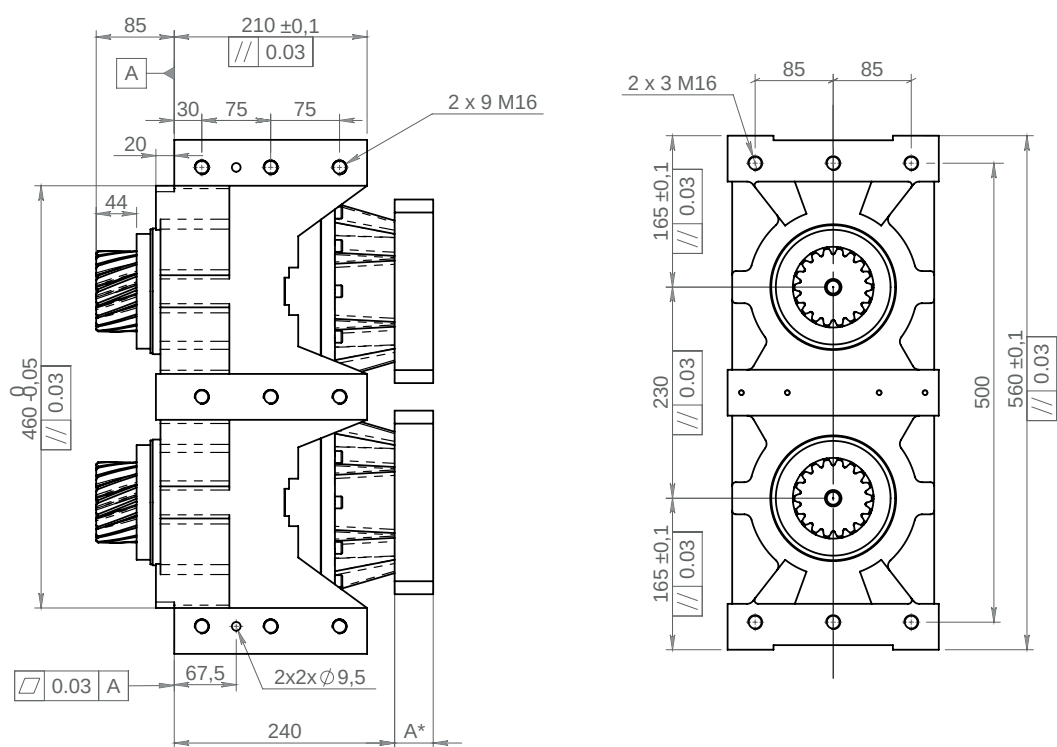
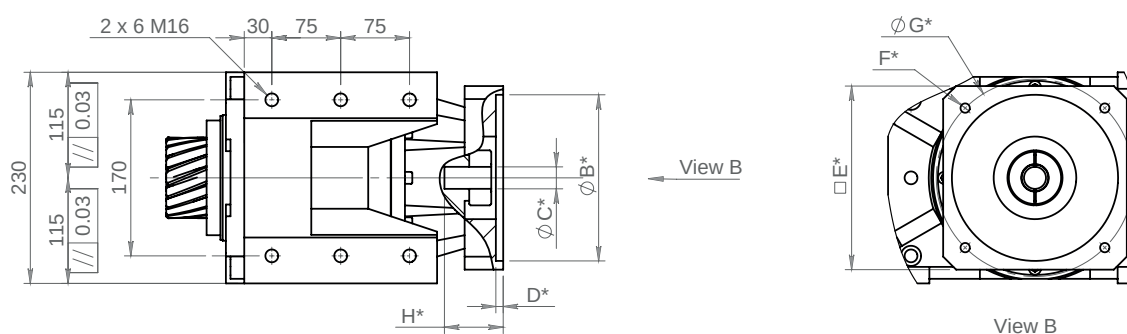
		5	7	10	17	21	31	46	61	91
F2N	N				27491	20945	31418	20945	30109	20945
F2B	N				48121	36654	54981	36654	52703	36654
F2B_max	N				96243	73308	109962	73308	73308	73308
F2NOT	N				71999	71999	71999	71999	71999	71999
V2B	m/min				85	69	46	31	24	16
V2N	m/min				30	24	16	11	8	6
K2T +M	N/μm				291	276	291	278	288	275
K2T +R	N/μm					251	273	273	265	275
I +M	kg.mm²				816	722	663	634	596	588
I +R	kg.mm²					1313	1254	1226	1188	1160

DRP ratings

		5	7	10	17	21	31	46	61	91
T2N	Nm				1050	800	1200	800	1150	800
T2B	Nm				1838	1400	2100	1400	2013	1400
T01 +R	Nm					2,3	2,3	2,3	2,3	2,3
T01 +M	Nm				2	2	2	2	2	2
T2NOT	Nm				2750	2750	2750	2750	2750	2750
n1B	rpm				6000	6000	6000	6000	6000	6000
n1N	rpm				2100	2100	2100	2100	2100	2100
K2R	N/μm				650	650	650	650	650	650
K2A	N/μm				2162	2162	2162	2162	2162	2162
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

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

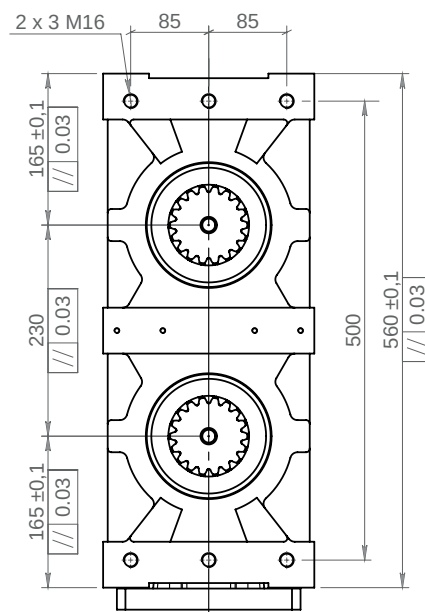
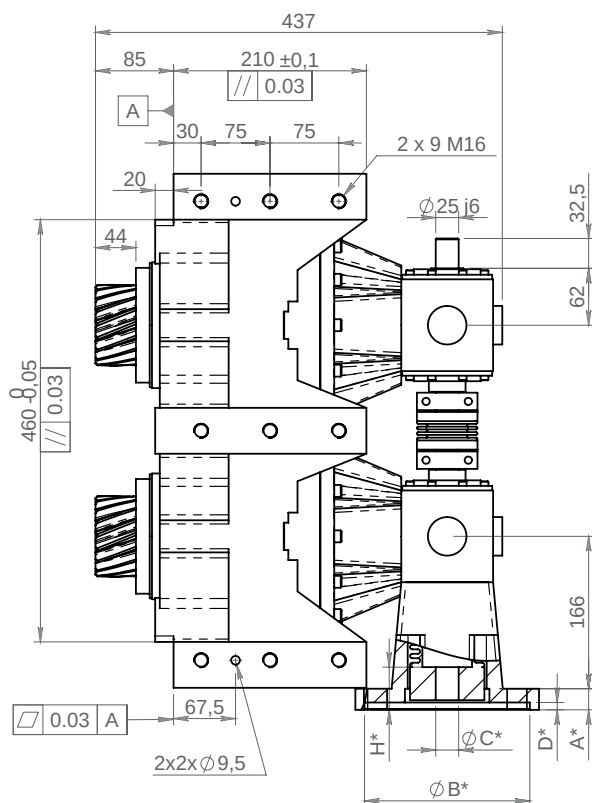
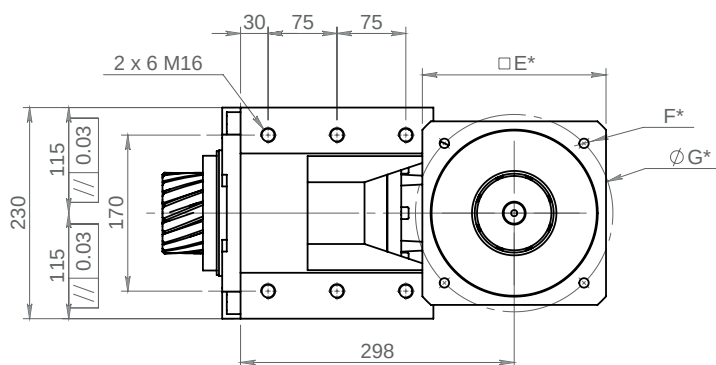
DIMENSIONS - TYPE *M*



	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**



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

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

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

DRP *SIZE 3*

DRP3

Weight

Efficiency

Backlash

Color

Tooth type

Module

Helix angle (left)

Number of teeth

Pressure angle

Theoretical pitch diameter

Addendum modification factor

Pinion quality grade

Surface hardness

Ratio

Nominal feed force

Peak acceleration feed force

Max. acceleration feed force

E-stop force

Max. linear speed

Nominal linear speed

Linear stiffness on the rack

Inertia

Ratio

Nominal output torque

Max. output torque

No load torque

No load torque

E-stop torque

Max. input speed

Nominal input speed

Radial stiffness

Axial stiffness

Torsional stiffness

General data

			M	R
m	kg	1 Stage		
		2 Stages	294	300
η	%	1 Stage		
		2 Stages	93	91
J	arcmin	Standard	3	4
		Reduced	1	2
RAL2012				

Pinion features

		Helical	Straight
Mo	mm	5	5
β	deg	19°31'42"	0°
Z2	-	18	19
α	deg	20°	20°
D02	mm	95,49	95
x0	-	0,251	0,300
Q	(ISO 1328)	6	6
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

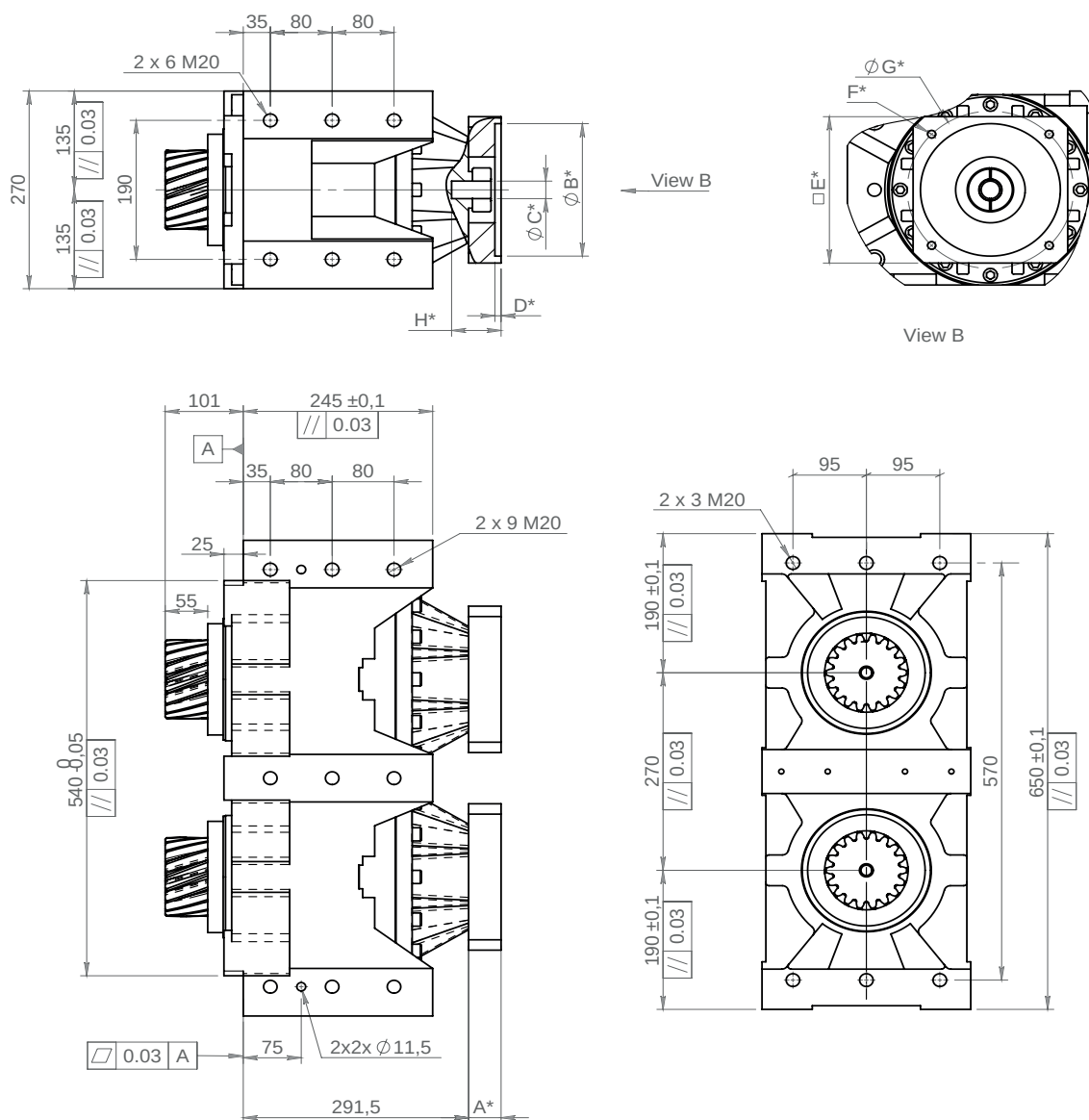
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F2N	N				38748	31417	46078	29532	32255	32255
F2B	N				67861	54980	80637	51691	56446	56446
F2B_max	N				135721	109959	161273	103383	112891	112891
F2NOT	N				103676	103676	103676	103676	103676	103676
V2B	m/min				88	71	48	33	25	16
V2N	m/min				28	23	15	10	8	5
K2T +M	N/μm				437	426	409	399	387	421
K2T +R	N/μm					363	368	374	385	382
I +M	kg.mm²				1242	994	846	773	666	647
I +R	kg.mm²					2527	2378	2305	2199	2180

DRP ratings

		5	7	10	17	21	31	46	61	91
T2N	Nm				1850	1500	2200	1410	1540	1540
T2B	Nm				3240	2625	3850	2468	2695	2695
T01 +R	Nm					2,8	2,8	2,8	2,8	2,8
T01 +M	Nm				2.5	2,5	2,5	2,5	2,5	2,5
T2NOT	Nm				4950	4950	4950	4950	4950	4950
n1B	rpm				5000	5000	5000	5000	5000	5000
n1N	rpm				1600	1600	1600	1600	1600	1600
K2R	N/μm				1100	1100	1100	1100	1100	1100
K2A	N/μm				4355	4355	4355	4355	4355	4355
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

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

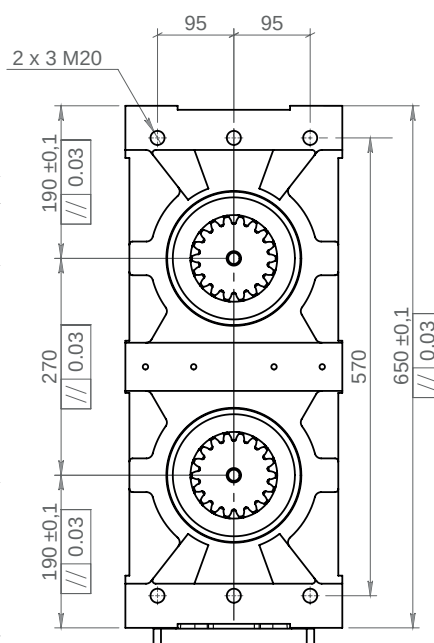
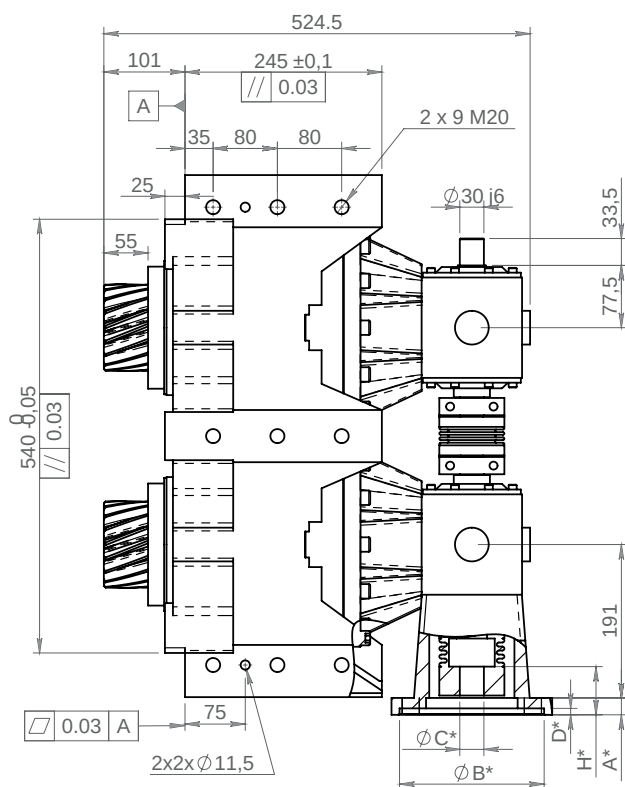
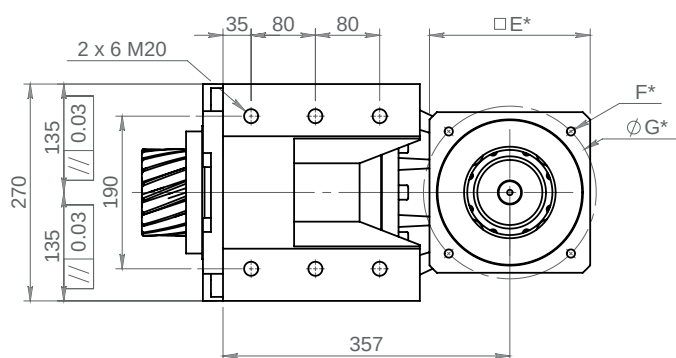
DIMENSIONS - TYPE M



	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 =1.5xØ thread

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

DRP SIZE 4



DRP4

Weight

Efficiency

Backlash

Color

Tooth type

Module

Helix angle (left)

Number of teeth

Pressure angle

Theoretical pitch diameter

Addendum modification factor

Pinion quality grade

Surface hardness

Ratio

Nominal feed force

Peak acceleration feed force

Max. acceleration feed force

E-stop force

Max. linear speed

Nominal linear speed

Linear stiffness on the rack

Inertia

Ratio

Nominal output torque

Max. output torque

No load torque

No load torque

E-stop torque

Max. input speed

Nominal input speed

Radial stiffness

Axial stiffness

Torsional stiffness

General data

			M	R
m	kg	1 Stage		
		2 Stages	506	520
η	%	1 Stage		
		2 Stages	93	91
J	arcmin	Standard	3	4
		Reduced	1	2
			RAL2012	

Pinion features

		Helical	Straight
Mo	mm	6	6
β	deg	19°31'42"	0°
Z2	-	18	19
α	deg	20°	20°
D02	mm	114,59	114
x0	-	0,201	0,250
Q	(ISO 1328)	6	6
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

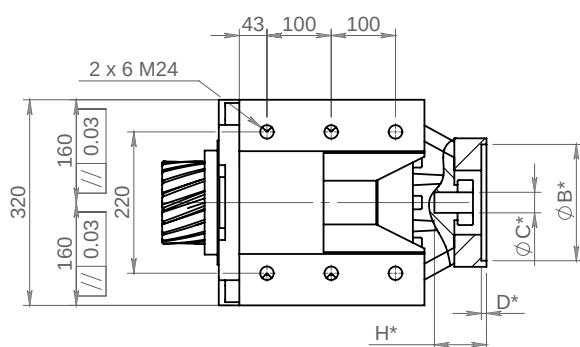
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F2N	N				61087	61087	62833	44681	49568	49568
F2B	N				106903	106903	109957	78192	86744	86744
F2B_max	N				213806	213806	219914	156384	173488	173488
F2NOT	N				132647	132647	132647	132647	132647	132647
V2B	m/min				85	69	46	31	24	16
V2N	m/min				28	22	15	10	8	5
K2T +M	N/μm				461	461	461	440	493	440
K2T +R	N/μm					440	440	420	437	431
I +M	kg.mm²				3439	2246	1886	1702	1146	1095
I +R	kg.mm²					10765	7955	7770	7242	7191

DRP ratings

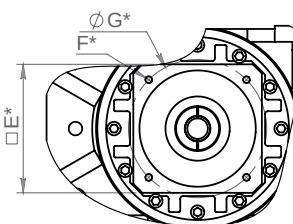
		5	7	10	17	21	31	46	61	91
T2N	Nm				3500	3500	3600	2560	2840	2840
T2B	Nm				6125	6125	6300	4480	4970	4970
T01 +R	Nm					3,6	3,6	3,6	3,6	3,6
T01 +M	Nm				3	3	3	3	3	3
T2NOT	Nm				7600	7600	7600	7600	7600	7600
n1B	rpm				4000	4000	4000	4000	4000	4000
n1N	rpm				1300	1300	1300	1300	1300	1300
K2R	N/μm				1250	1250	1250	1250	1250	1250
K2A	N/μm				5000	5000	5000	5000	5000	5000
C2t +R	Nm/ rad				2475178	2471740	2289539	2444238	2382359	
	Nm/arcmin				720	719	666	711	693	
C2t +M	Nm/ rad				2681442	2681442	2468302	3025217	2471740	
	Nm/arcmin				780	780	780	718	880	719

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

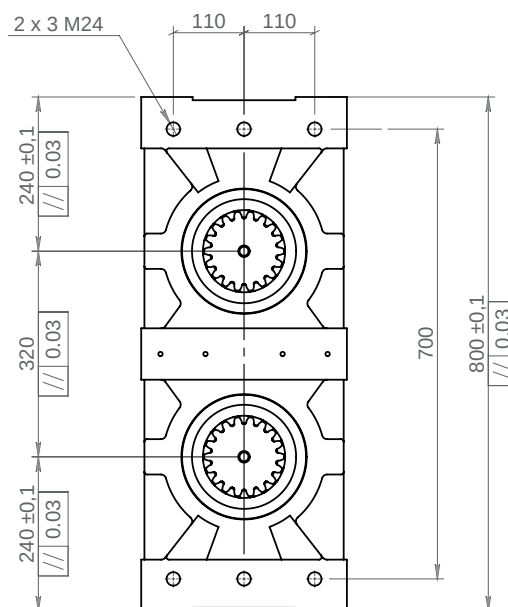
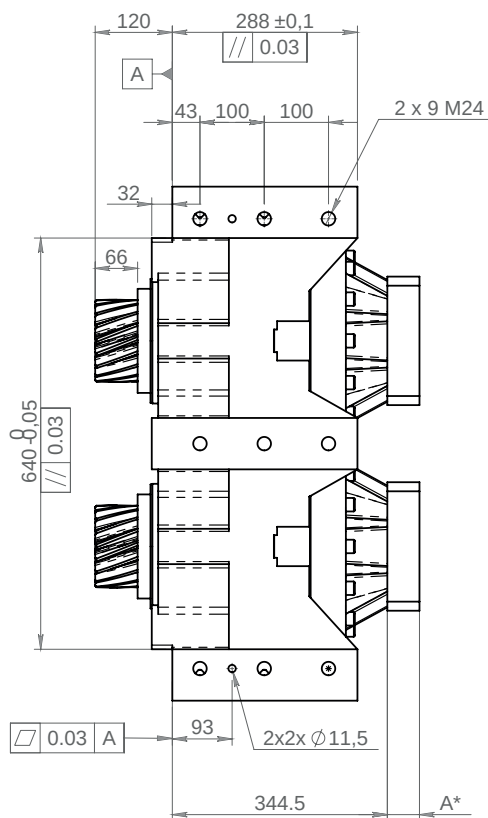
DIMENSIONS - TYPE M



View B



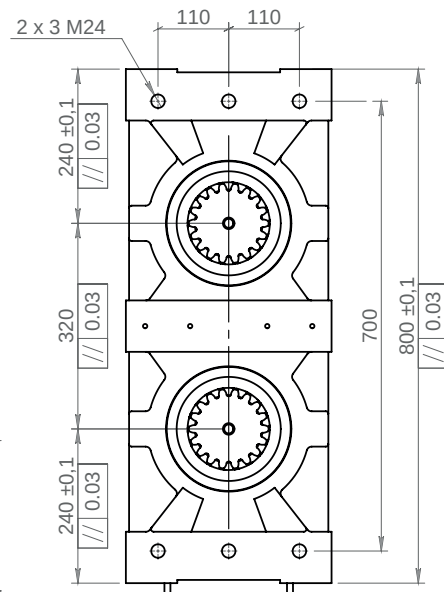
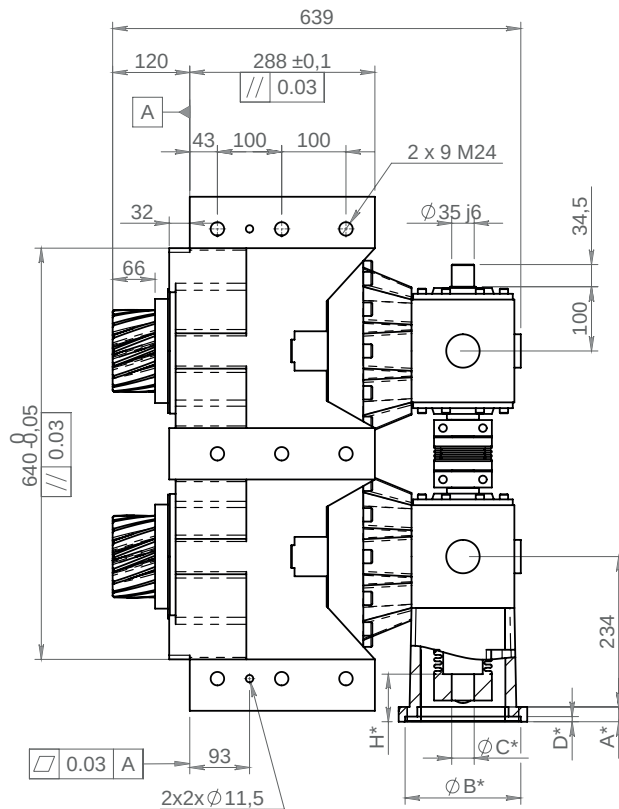
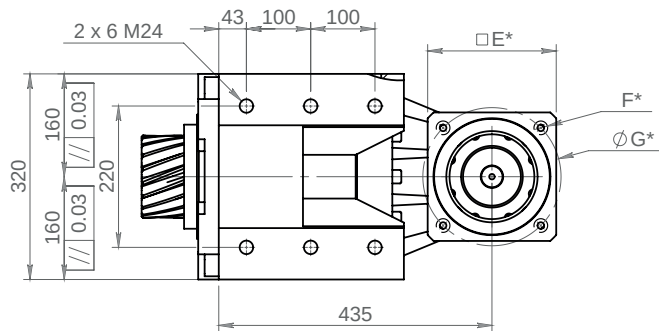
View B



	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 = 1.5xØ 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 = 1.5xØ thread

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

DRP *SIZE 5*

DRP5

Weight

Efficiency

Backlash

Color

Tooth type

Module

Helix angle (left)

Number of teeth

Pressure angle

Theoretical pitch diameter

Addendum modification factor

Pinion quality grade

Surface hardness

Ratio

Nominal feed force

Peak acceleration feed force

Max. acceleration feed force

E-stop force

Max. linear speed

Nominal linear speed

Linear stiffness on the rack

Inertia

Ratio

Nominal output torque

Max. output torque

No load torque

No load torque

E-stop torque

Max. input speed

Nominal input speed

Radial stiffness

Axial stiffness

Torsional stiffness

General data

			M	R
m	kg	1 Stage		
		2 Stages	1091	1116
η	%	1 Stage		
		2 Stages	93	91
J	arcmin	Standard	3	4
		Reduced	1	2
RAL2012				

Pinion features

		Helical	Straight
Mo	mm	8	8
β	deg	19°31'42"	0
Z2	-	15	16
α	deg	20°	20°
D02	mm	127,32	128
x0	-	0,355	0,313
Q	(ISO 1328)	6	6
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

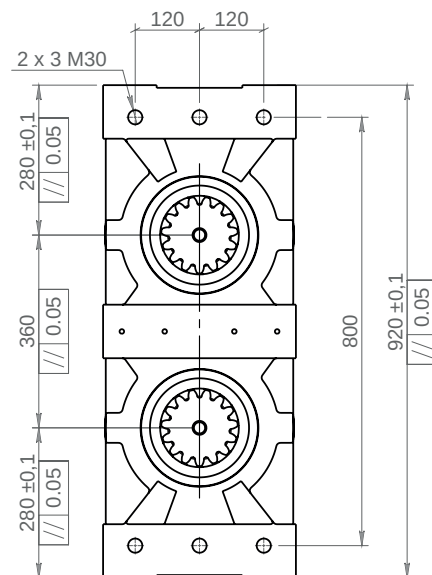
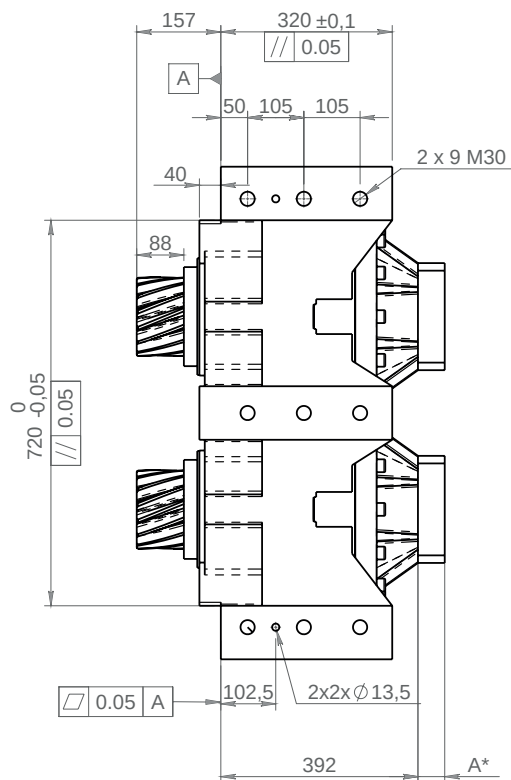
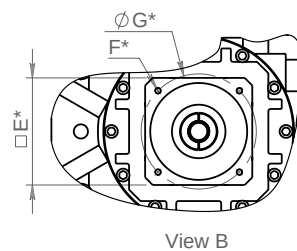
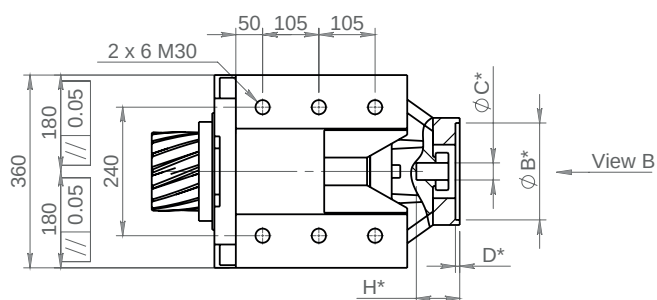
		5	7	10	17	21	31	46	61	91
F2N	N					73830	105247	86396	86396	86396
F2B	N					118128	157870	138234	138234	138234
F2B_max	N					236255	315740	276469	276469	276469
F2NOT	N					180647	180647	180647	180647	180647
V2B	m/min					76	52	35	26	18
V2N	m/min					19	13	9	7	4
K2T +M	N/μm					623	623	545	598	500
K2T +R	N/μm					623	622	545	595	483
I +M	kg.mm ²					2916	2204	1851	1228	1133
I +R	kg.mm ²					17436	16724	16371	15760	15666

DRP ratings

		5	7	10	17	21	31	46	61	91
T2N	Nm					4700	6700	5500	5500	5500
T2B	Nm					7520	10050	8800	8800	8800
T01 +R	Nm					5,2	5,2	5,2	5,2	5,2
T01 +M	Nm					4	4	4	4	4
T2NOT	Nm					11500	11500	11500	11500	11500
n1B	rpm					4000	4000	4000	4000	4000
n1N	rpm					1000	1000	1000	1000	1000
K2R	N/μm					1550	1550	1550	1550	1550
K2A	N/μm					5484	5484	5484	5484	5484
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

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

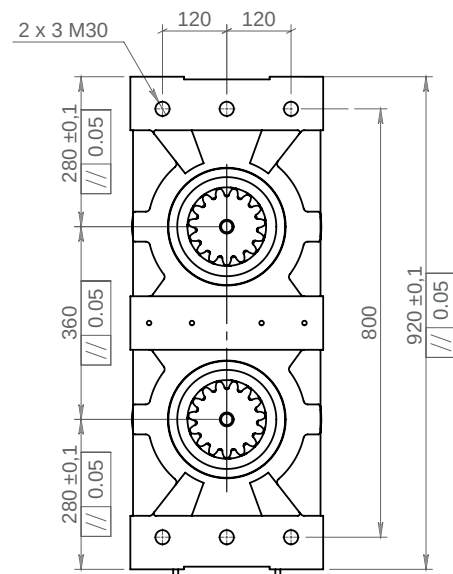
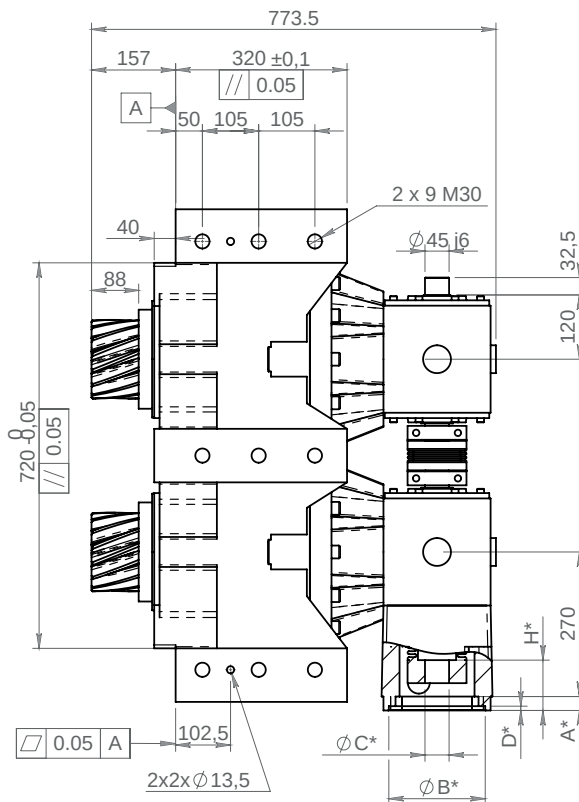
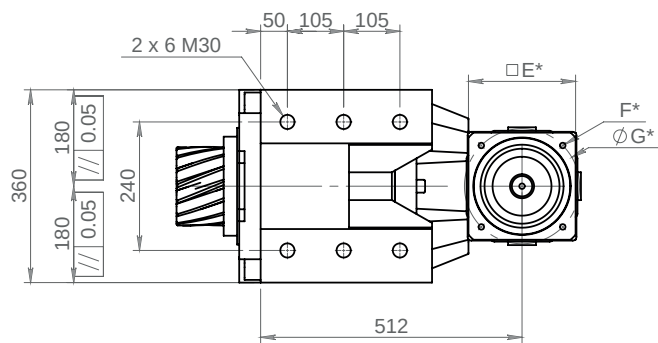
DIMENSIONS - TYPE M



	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

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

KRPX SIZE 1



KRPX1

Weight

Efficiency

Backlash

Color

Tooth type

Module

Helix angle (left)

Number of teeth

Pressure angle

Theoretical pitch diameter

Addendum modification factor

Pinion quality grade

Surface hardness

Ratio

Nominal feed force

Peak acceleration feed force

Max. acceleration feed force

E-stop force

Max. linear speed

Nominal linear speed

Linear stiffness on the rack

Inertia

Ratio

Nominal output torque

Max. output torque

No load torque

No load torque

E-stop torque

Max. input speed

Nominal input speed

Radial stiffness

Axial stiffness

Torsional stiffness

General data

			M	R
m	kg	1 Stage	28	30
		2 Stages	30	32
η	%	1 Stage	96	94
		2 Stages	93	91
J	arcmin	Standard	3	4
		Reduced	1	2
RAL2012				

Pinion features

		Helical	Straight
Mo	mm	3	3
β	deg	19°31'42"	0°
Z2	-	18	19
α	deg	20	20
D02	mm	57,3	57
x0	-	0,118	0,167
Q	(ISO 1328)	6	6
HRC	HRC	61-63	61-63

Rack features

Version			Helical	Straight
Standard	F2B	N	15939	13967
	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

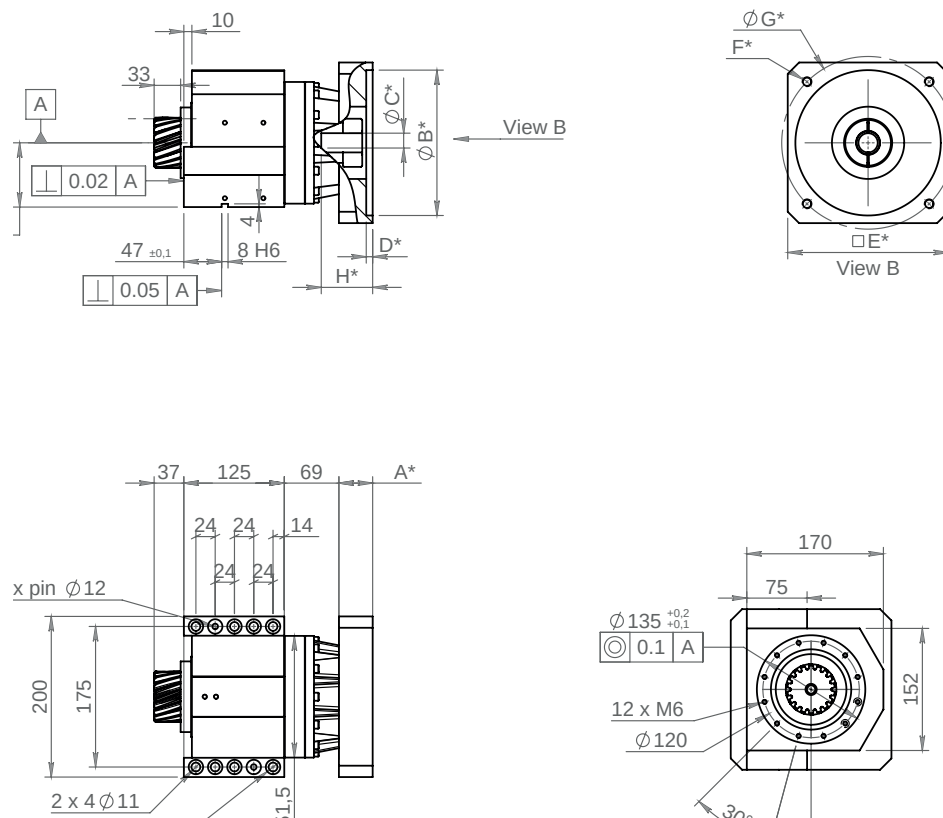
		5	7	10	17	21	31	46	61	91
F2N	N	12914	13264	9424	13613	10646	15009	9424	13089	9424
F2B	N	22618	23211	16510	23839	18639	26283	16510	22897	16510
F2B_max	N	45236	46422	33019	47679	37277	52565	33019	45794	33019
F2NOT	N	29075	29075	29075	29075	29075	29075	29075	29075	29075
V2B	m/min	180	129	90	64	51	35	23	18	12
V2N	m/min	58	41	29	28	22	15	10	8	5
K2T +M	N/ μ m	224	208	195	190	190	178	170	173	185
K2T +R	N/ μ m	191	174	158		169	176	169	173	185
I +M	kg.mm ²	883	746	674	287	269	259	254	246	245
I +R	kg.mm ²	2240	2304	2231		458	448	443	435	433

KRPX ratings

		5	7	10	17	21	31	46	61	91
T2N	Nm	370	380	270	390	305	430	270	375	270
T2B	Nm	648	665	473	683	534	753	473	656	473
T01 +R	Nm	5	5	5		1,5	1,5	1,5	1,5	1,5
T01 +M	Nm	4,5	4,5	4,5	1	1	1	1	1	1
T2NOT	Nm	833	833	833	833	833	833	833	833	833
n1B	rpm	5000	5000	5000	6000	6000	6000	6000	6000	6000
n1N	rpm	1600	1600	1600	2600	2600	2600	2600	2600	2600
K2R	N/ μ m	480	480	480	480	480	480	480	480	480
K2A	N/ μ m	1710	1710	1710	1710	1710	1710	1710	1710	1710
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

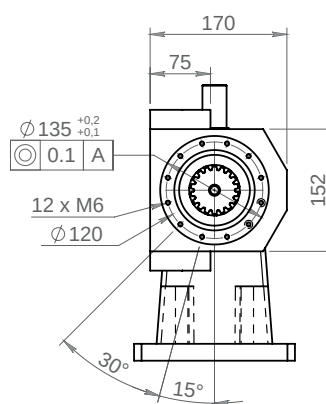
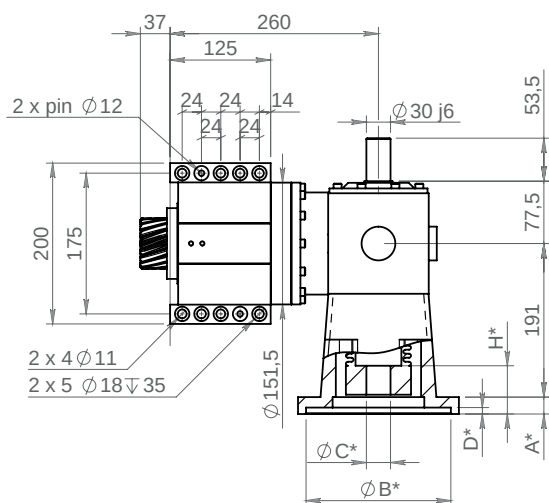
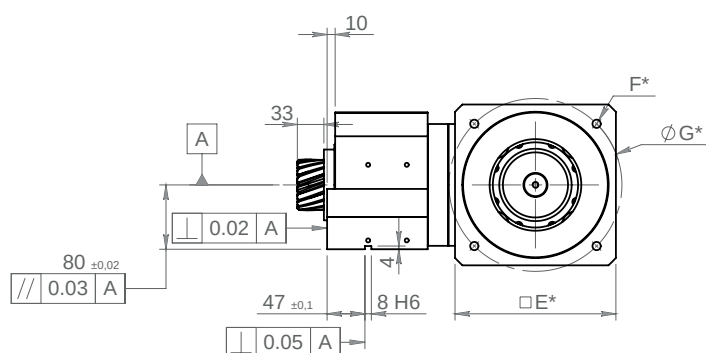
DIMENSIONS - TYPE M 1 stage



	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**

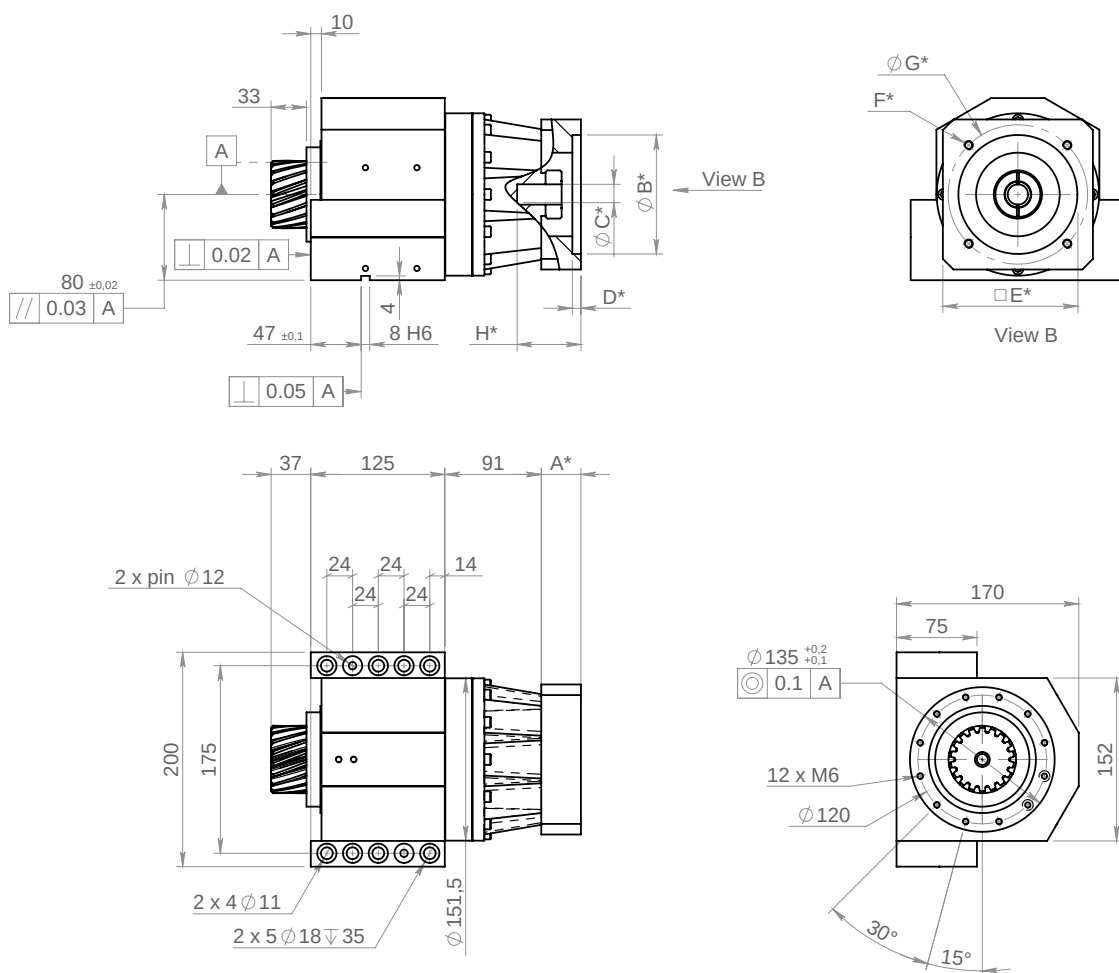


	MF3 140	MF3 200	MF3 260
A	21	21	24
E	140	200	260
H	80	80	83

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

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

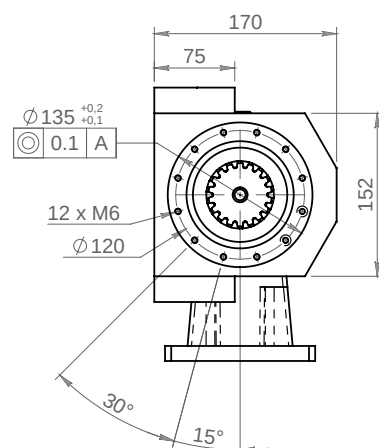
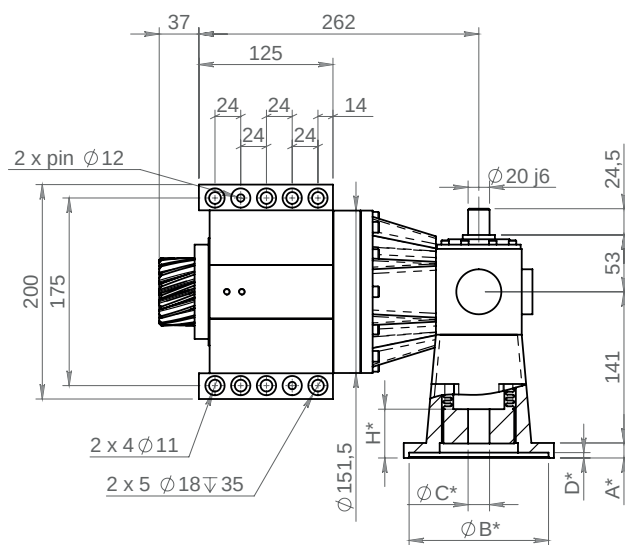
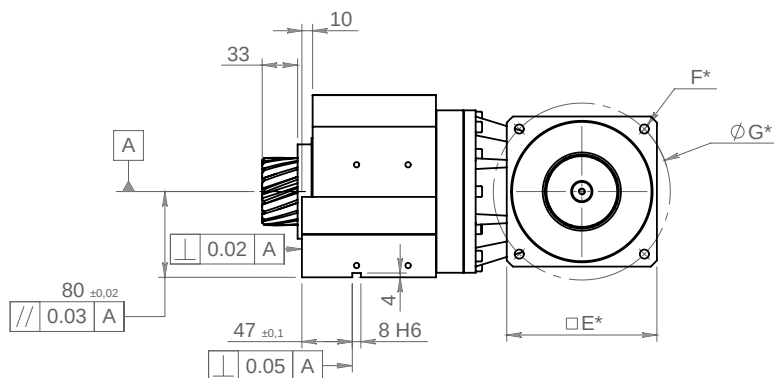
DIMENSIONS - TYPE **M 2** stages



	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 = 1.5xØ 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
For accurate selection, contact your local supplier

KRPX SIZE 2



KRPX2

Weight

Efficiency

Backlash

Color

Tooth type

Module

Helix angle (left)

Number of teeth

Pressure angle

Theoretical pitch diameter

Addendum modification factor

Pinion quality grade

Surface hardness

Ratio

Nominal feed force

Peak acceleration feed force

Max. acceleration feed force

E-stop force

Max. linear speed

Nominal linear speed

Linear stiffness on the rack

Inertia

Ratio

Nominal output torque

Max. output torque

No load torque

No load torque

E-stop torque

Max. input speed

Nominal input speed

Radial stiffness

Axial stiffness

Torsional stiffness

General data

			M	R
m	kg	1 Stage	61	68
		2 Stages	64	71
η	%	1 Stage	96	94
		2 Stages	93	91
J	arcmin	Standard	3	4
		Reduced	1	2
RAL2012				

Pinion features

		Helical	Straight
Mo	mm	4	4
β	deg	19°31'42"	0°
Z2	-	18	19
α	deg	20°	20°
D02	mm	76,39	76
x0	-	0,638	0,688
Q	(ISO 1328)	6	6
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

		5	7	10	17	21	31	46	61	91
F2N	N	26181	26181	20945	27491	20945	31418	20945	30109	20945
F2B	N	45818	45818	36654	48121	36654	54981	36654	52703	36654
F2B_max	N	91635	91635	73308	96243	73308	109962	73308	105406	73308
F2NOT	N	71999	71999	71999	71999	71999	71999	71999	71999	71999
V2B	m/min	192	137	96	85	69	46	31	24	16
V2N	m/min	53	38	26	30	24	16	11	8	6
K2T +M	N/μm	313	317	288	276	276	291	278	288	275
K2T +R	N/μm	309	294	2965		251	273	273	285	275
I +M	kg.mm²	2559	1741	1308	816	722	663	634	596	588
I +R	kg.mm²	11101	10310	7427		1321	1263	1234	1196	1188

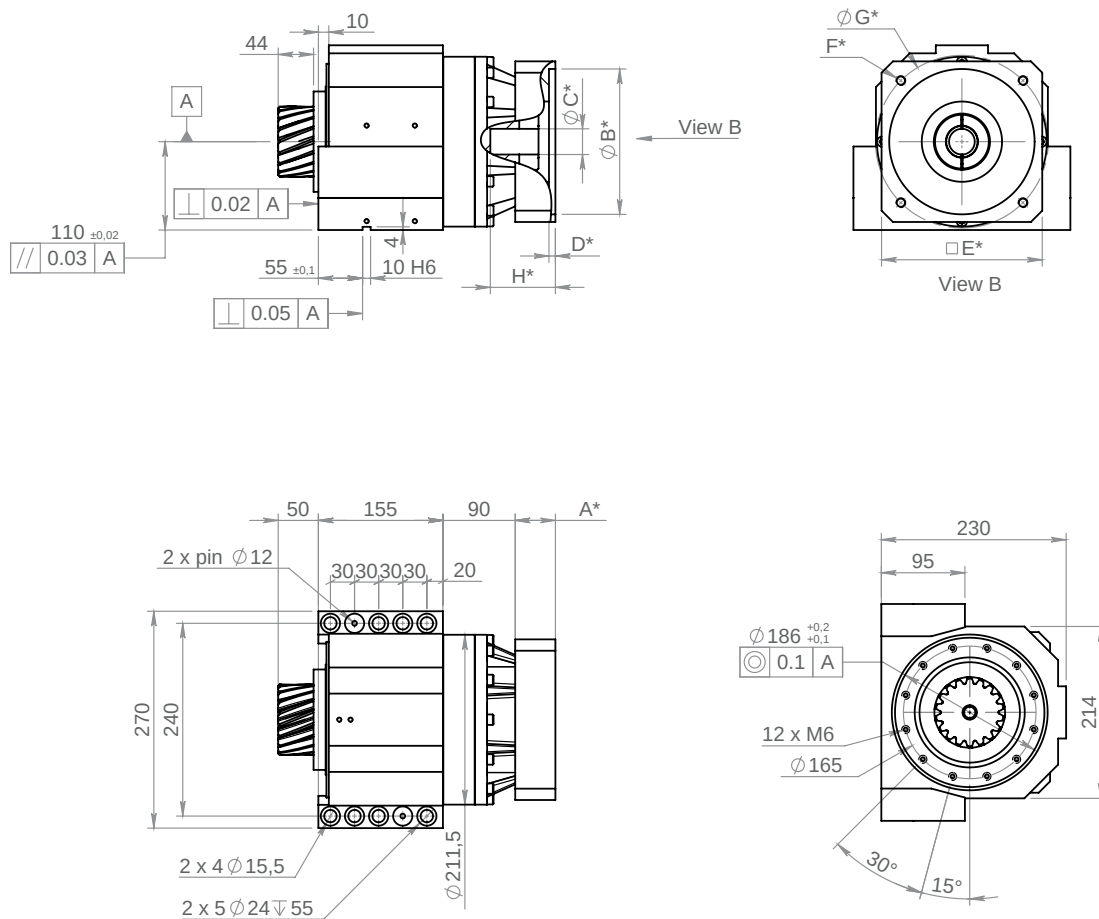
KRPX ratings

		5	7	10	17	21	31	46	61	91
T2N	Nm	1000	1000	800	1050	800	1200	800	1150	800
T2B	Nm	1750	1750	1400	1838	1400	2100	1400	2013	1400
T01 +R	Nm	8,8	8,8	8,8	2,3	2,3	2,3	2,3	2,3	2,3
T01 +M	Nm	8	8	8	2	2	2	2	2	2
T2NOT	Nm	2750	2750	2750	2750	2750	2750	2750	2750	2750
n1B	rpm	4000	4000	4000	6000	6000	6000	6000	6000	6000
n1N	rpm	1100	1100	1100	2100	2100	2100	2100	2100	2100
K2R	N/μm	650	650	650	650	650	650	650	650	650
K2A	N/μm	2162	2162	2162	2162	2162	2162	2162	2162	2162
C2t +R	Nm/ rad	1038200	928192	749429		677236	794120	794120	866312	804433
	Nm/arcmin	302	270	218		197	231	231	252	234
C2t +M	Nm/ rad	1220400	1100079	886939	814746	814746	904127	825059	883501	807870
	Nm/arcmin	355	320	258	237	237	263	240	257	235

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

KRPX SIZE 2

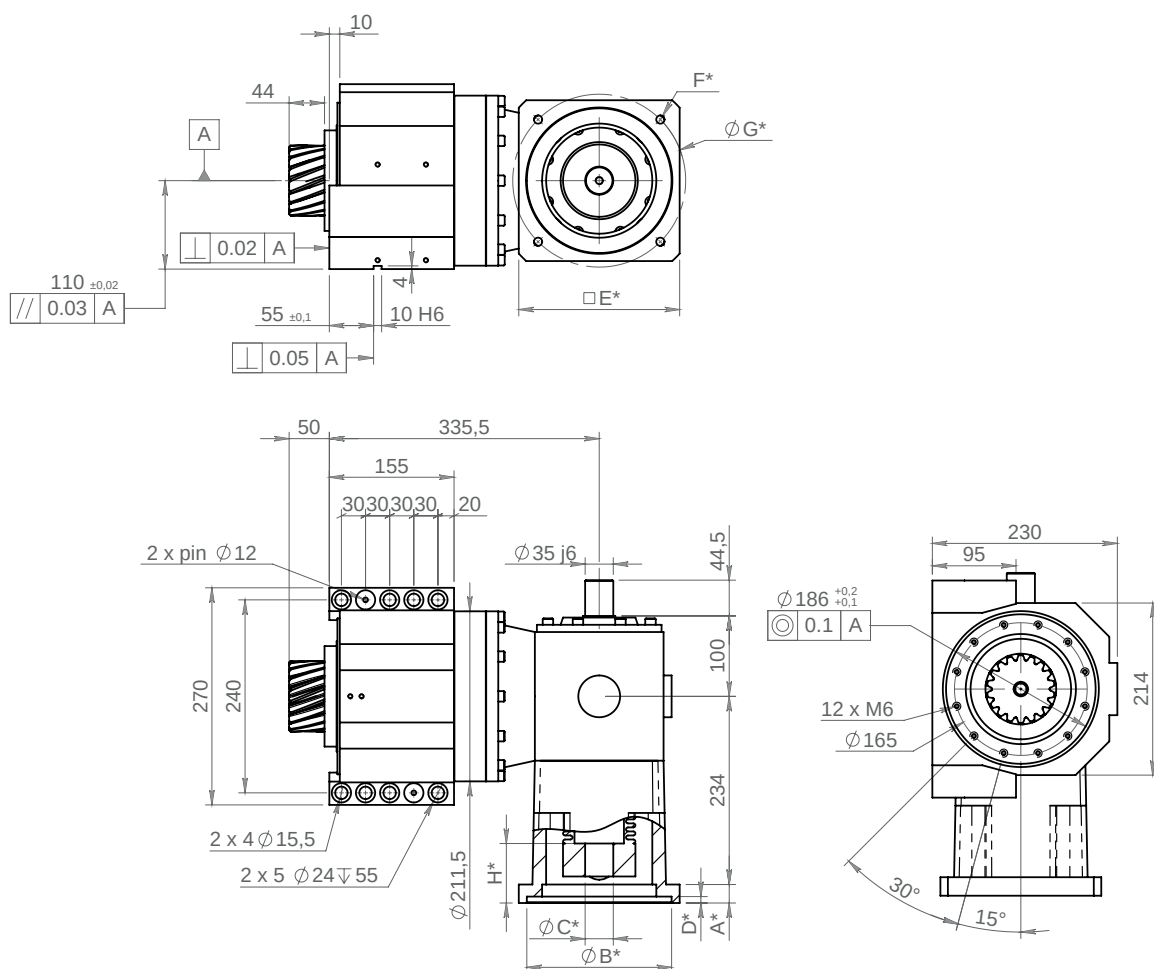
DIMENSIONS - TYPE M 1 stage



	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 1 stage

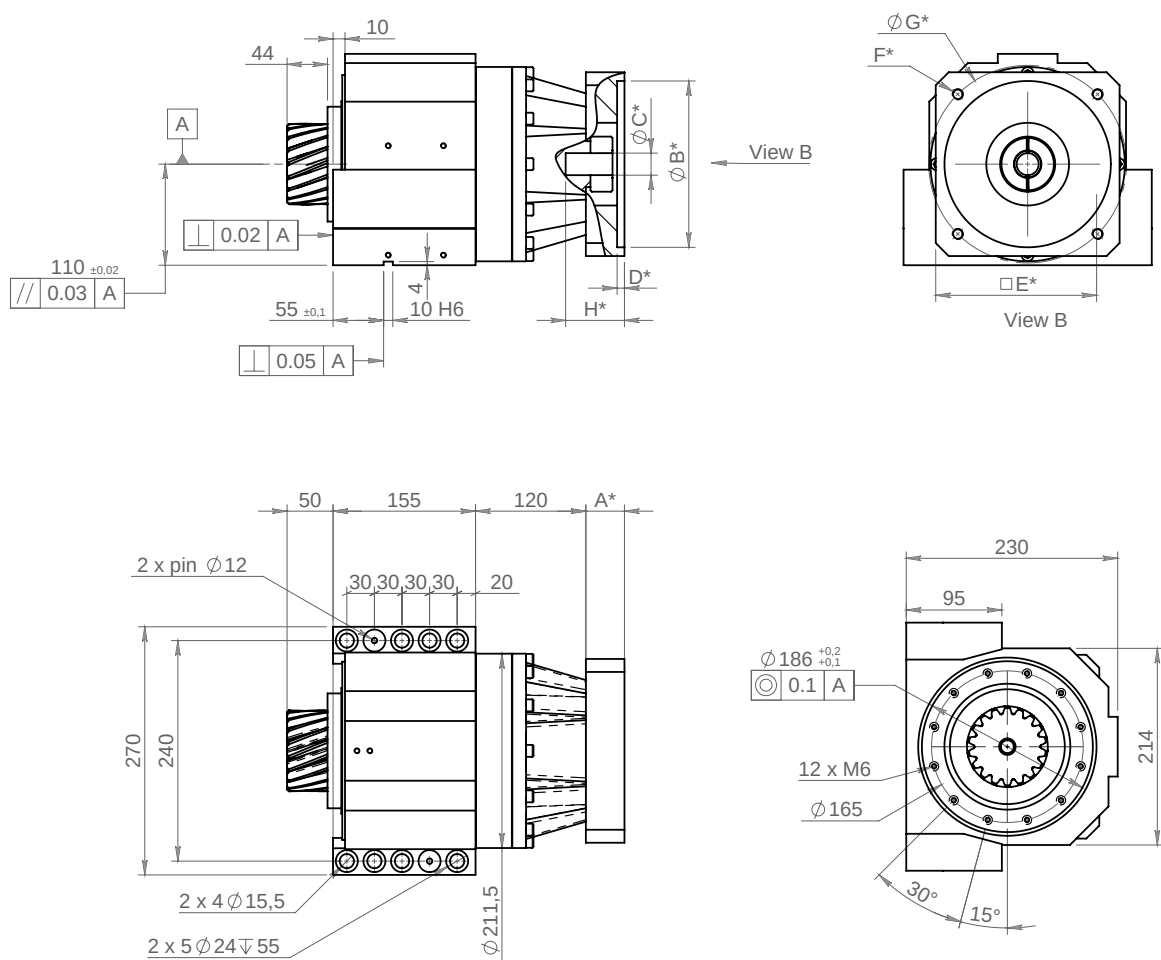


	MF4 200	MF4 260
A	23	23
E	200	260
H	110	110

*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
For accurate selection, contact your local supplier

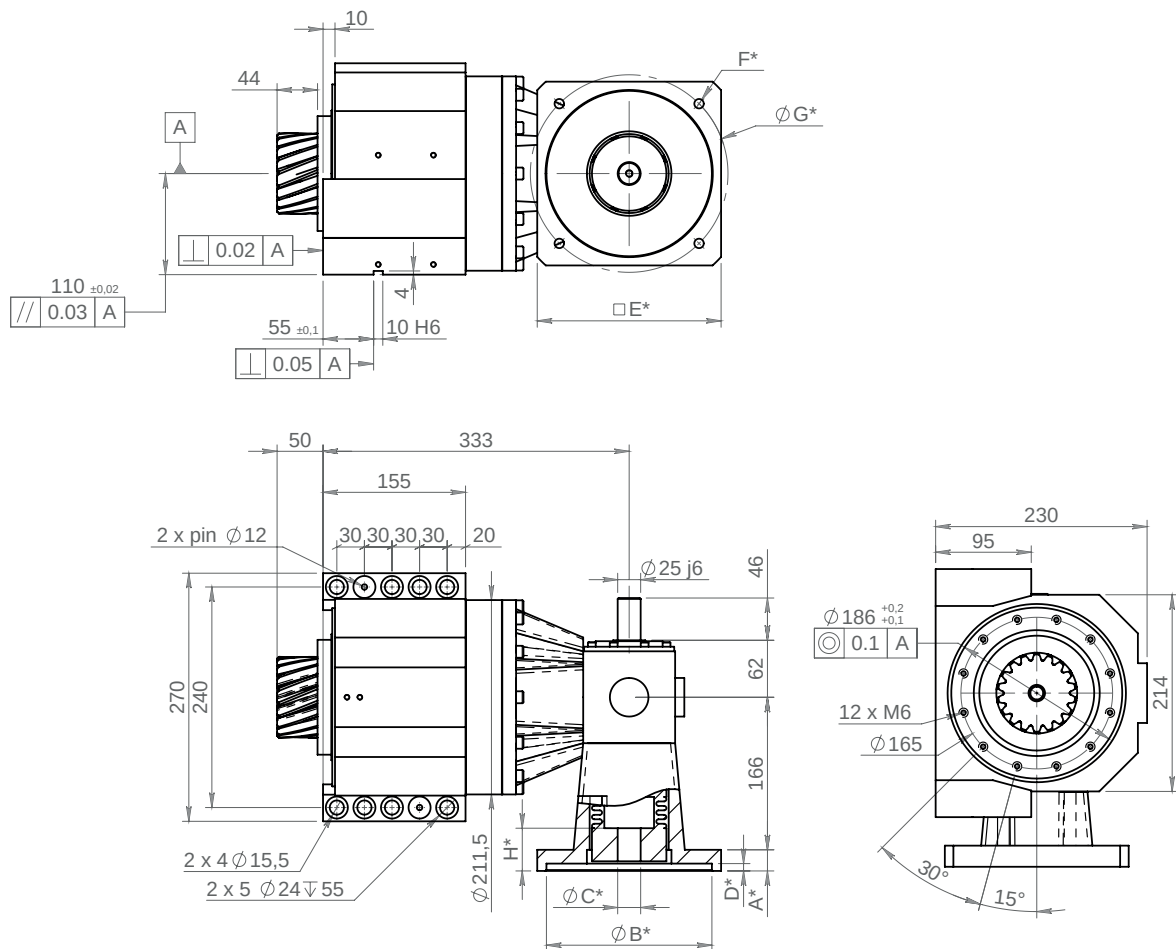
DIMENSIONS - TYPE M 2 stages



	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 2 stages**



	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
For accurate selection, contact your local supplier

KRPX SIZE 3



KRPX3

Weight

Efficiency

Backlash

Color

Tooth type

Module

Helix angle (left)

Number of teeth

Pressure angle

Theoretical pitch diameter

Addendum modification factor

Pinion quality grade

Surface hardness

Ratio

Nominal feed force

Peak acceleration feed force

Max. acceleration feed force

E-stop force

Max. linear speed

Nominal linear speed

Linear stiffness on the rack

Inertia

Ratio

Nominal output torque

Max. output torque

No load torque

No load torque

E-stop torque

Max. input speed

Nominal input speed

Radial stiffness

Axial stiffness

Torsional stiffness

General data

			M	R
m	kg	1 Stage		
		2 Stages	130	143
η	%	1 Stage		
		2 Stages	93	91
J	arcmin	Standard	3	4
		Reduced	1	2
RAL2012				

Pinion features

		Helical	Straight
Mo	mm	5	5
β	deg	19°31'42"	0°
Z2	-	18	19
α	deg	20°	20°
D02	mm	95,49	95
x0	-	0,251	0,300
Q	(ISO 1328)	6	6
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

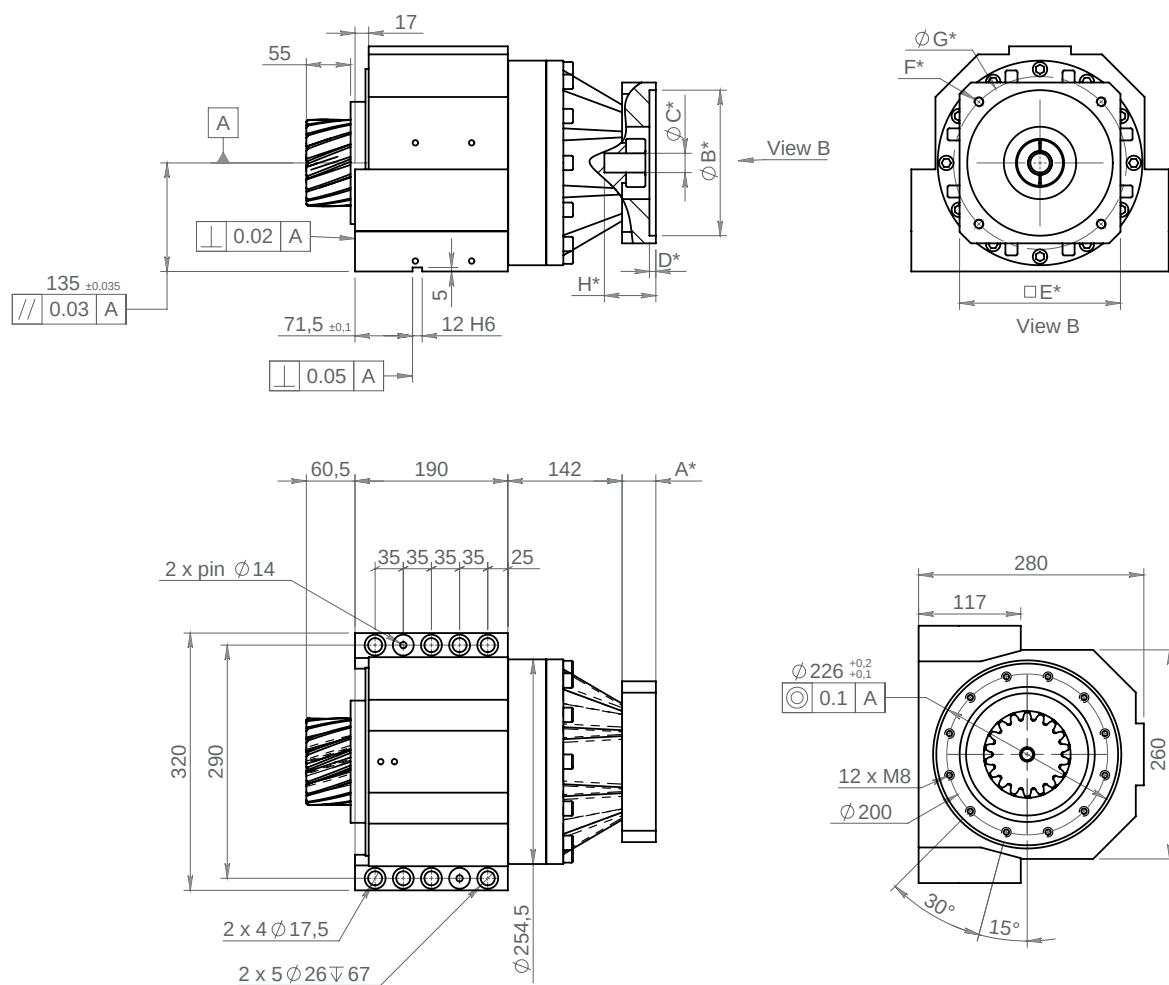
		5	7	10	17	21	31	46	61	91
F2N	N				38748	31417	46078	29532	32255	32255
F2B	N				67819	54980	80637	51691	56446	56446
F2B_max	N				135637	109959	161273	103383	112891	112891
F2NOT	N				103676	103676	103676	103676	103676	103676
V2B	m/min				88	71	48	33	25	16
V2N	m/min				28	23	15	10	8	5
K2T +M	N/μm				426	426	409	399	387	421
K2T +R	N/μm				-	363	386	374	385	382
I +M	kg.mm²				1242	994	846	773	666	647
I +R	kg.mm²				-	2552	2403	2330	2224	2204

KRPX ratings

		5	7	10	17	21	31	46	61	91
T2N	Nm				1850	1500	2200	1410	1540	1540
T2B	Nm				3238	2625	3850	2468	2695	2695
T01 +R	Nm				2,8	2,8	2,8	2,8	2,8	2,8
T01 +M	Nm				2,5	2,5	2,5	2,5	2,5	2,5
T2NOT	Nm				4950	4950	4950	4950	4950	4950
n1B	rpm				5000	5000	5000	5000	5000	5000
n1N	rpm				1600	1600	1600	1600	1600	1600
K2R	N/μm				1100	1100	1100	1100	1100	1100
K2A	N/μm				4355	4355	4355	4355	4355	4355
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

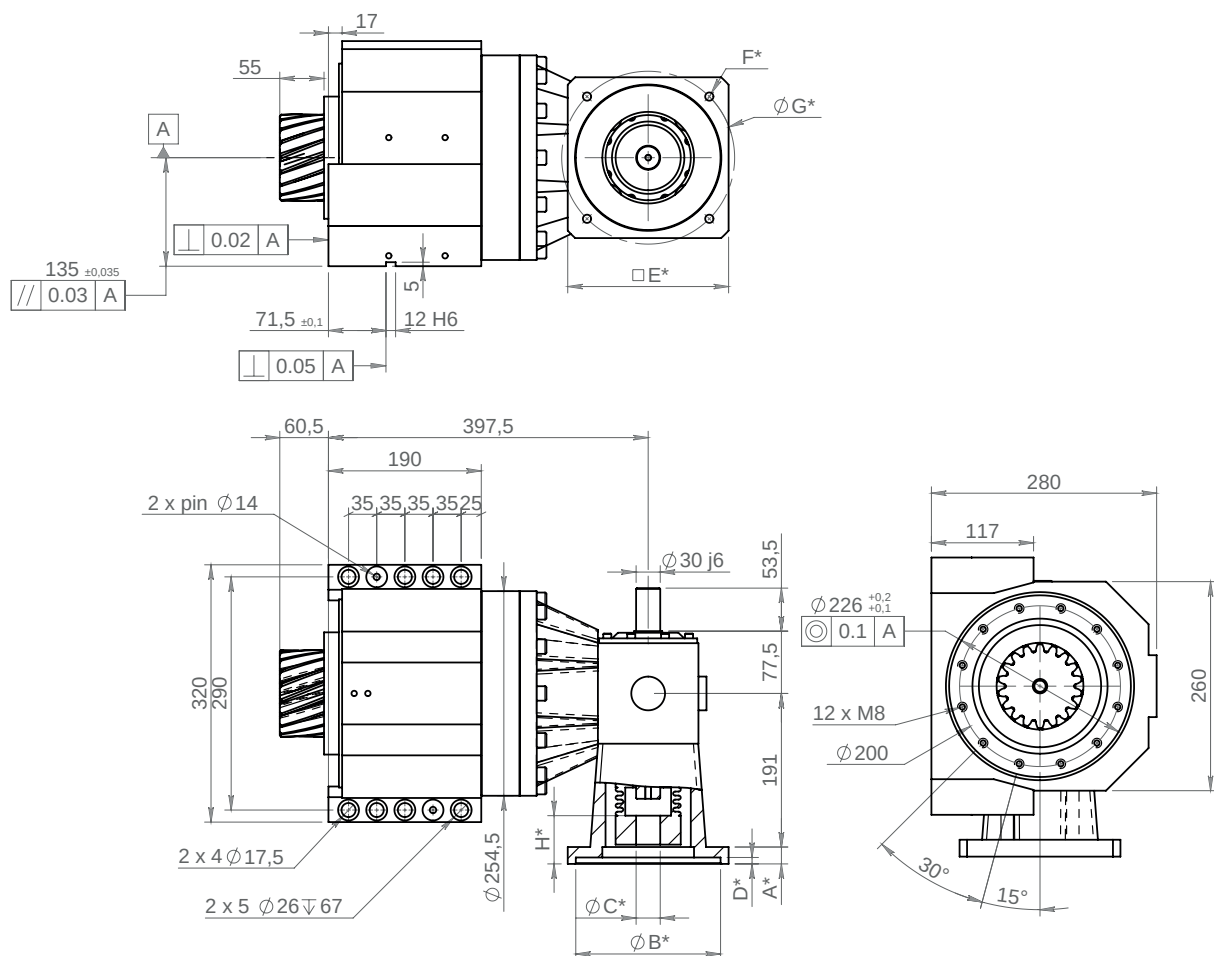
DIMENSIONS - TYPE *M*



	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
For accurate selection, contact your local supplier

KRPX SIZE 4



KRPX4

Weight

Efficiency

Backlash

Color

Tooth type

Module

Helix angle (left)

Number of teeth

Pressure angle

Theoretical pitch diameter

Addendum modification factor

Pinion quality grade

Surface hardness

Ratio

Nominal feed force

Peak acceleration feed force

Max. acceleration feed force

E-stop force

Max. linear speed

Nominal linear speed

Linear stiffness on the rack

Inertia

Ratio

Nominal output torque

Max. output torque

No load torque

No load torque

E-stop torque

Max. input speed

Nominal input speed

Radial stiffness

Axial stiffness

Torsional stiffness

General data

			M	R
m	kg	1 Stage		
		2 Stages	202	233
η	%	1 Stage		
		2 Stages	93	91
J	arcmin	Standard	3	4
		Reduced	1	2
			RAL2012	

Pinion features

		Helical	Straight
Mo	mm	6	6
β	deg	19°31'42"	0°
Z2	-	18	19
α	deg	20°	20°
D02	mm	114,59	114
x0	-	0,201	0,250
Q	(ISO 1328)	6	6
HRC	HRC	61-63	61-63

Rack features

Version			Helical	Straight
Standard	F2B	N	64013	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

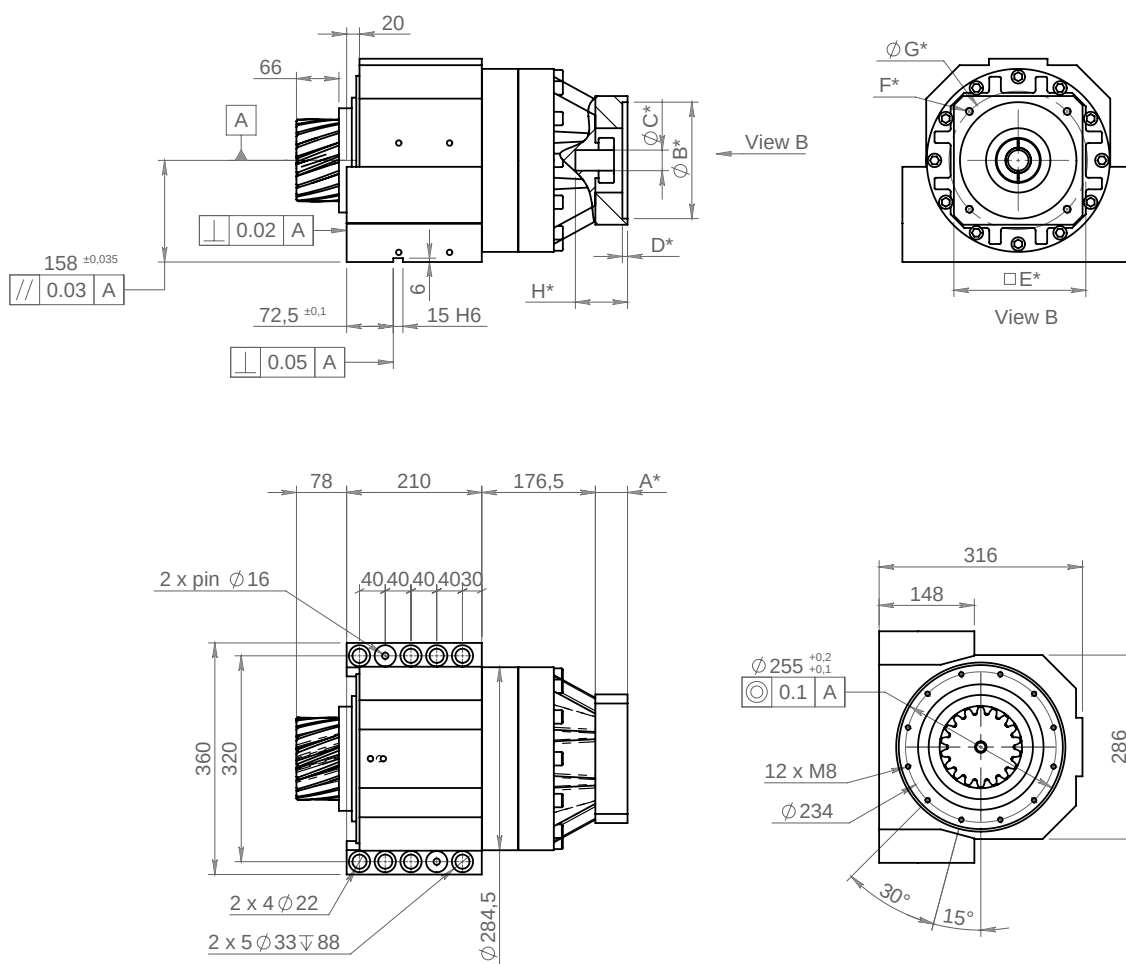
		5	7	10	17	21	31	46	61	91
F2N	N				61087	61087	62833	44681	49568	49568
F2B	N				106903	106903	109957	78192	86744	86744
F2B_max	N				213806	213806	219914	156384	173488	173488
F2NOT	N				132647	132647	132647	132647	132647	132647
V2B	m/min				85	69	46	31	24	16
V2N	m/min				28	22	15	10	8	5
K2T +M	N/μm				461	461	461	440	493	440
K2T +R	N/μm					440	440	420	437	431
I +M	kg.mm²				3439	2246	1886	1702	1146	1095
I +R	kg.mm²					10788	7978	7793	7265	7214

KRPX ratings

		5	7	10	17	21	31	46	61	91
T2N	Nm				3500	3500	3600	2560	2840	2840
T2B	Nm				6125	6125	6300	4480	4970	4970
T01 +R	Nm				3,6	3,6	3,6	3,6	3,6	3,6
T01 +M	Nm				3	3	3	3	3	3
T2NOT	Nm				7600	7600	7600	7600	7600	7600
n1B	rpm				4000	4000	4000	4000	4000	4000
n1N	rpm				1300	1300	1300	1300	1300	1300
K2R	N/μm				1250	1250	1250	1250	1250	1250
K2A	N/μm				5000	5000	5000	5000	5000	5000
C2t +R	Nm/ rad				2475178	2471740	2289539	2444238	2382359	
	Nm/arcmin				720	719	666	711	693	
C2t +M	Nm/ rad				2681442	2681442	2468302	3025217	2471740	
	Nm/arcmin				780	780	780	718	880	719

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

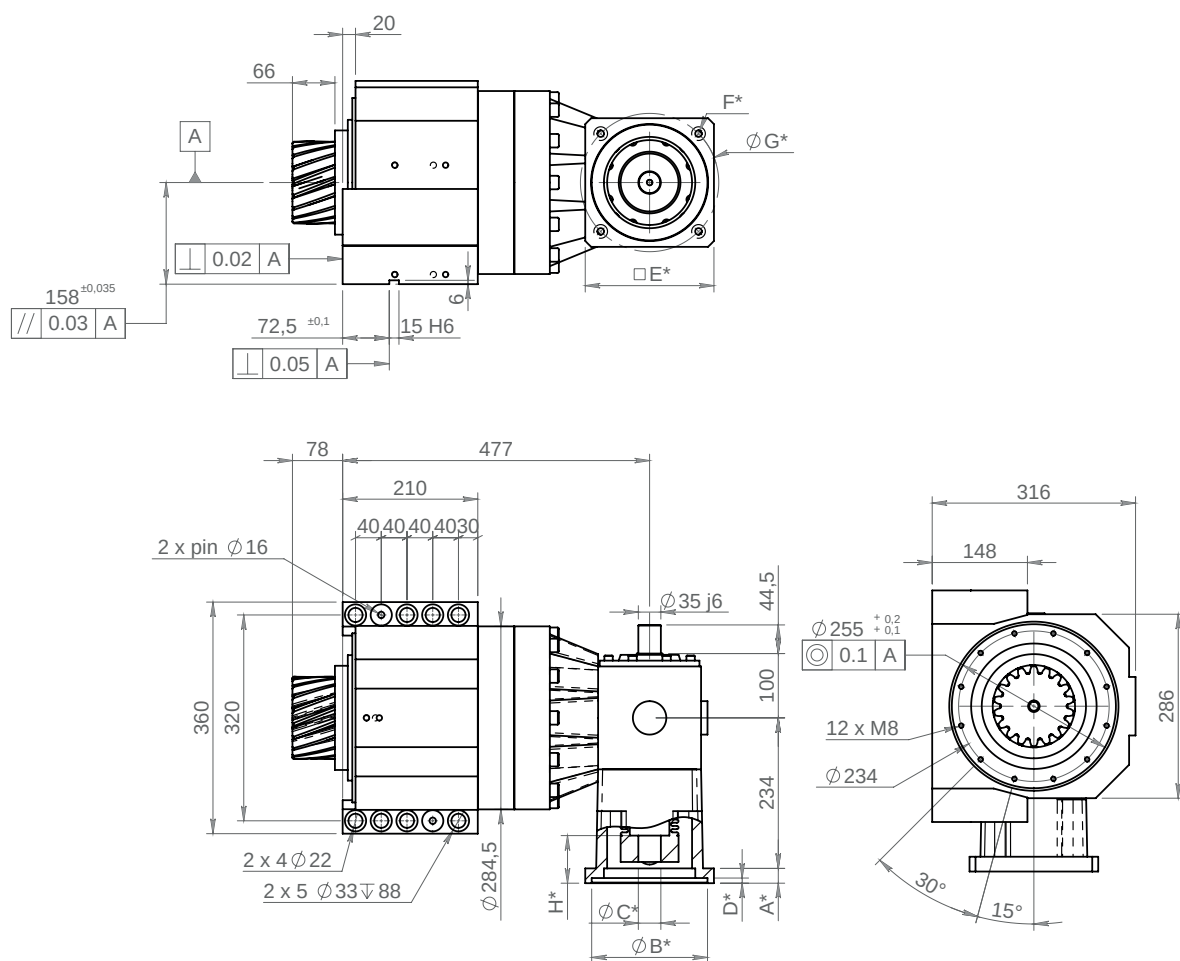
DIMENSIONS - TYPE M



	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 = 1.5xØ 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
For accurate selection, contact your local supplier

KRPX SIZE 5



KRPX5

Weight

Efficiency

Backlash

Color

Tooth type

Module

Helix angle (left)

Number of teeth

Pressure angle

Theoretical pitch diameter

Addendum modification factor

Pinion quality grade

Surface hardness

Ratio

Nominal feed force

Peak acceleration feed force

Max. acceleration feed force

E-stop force

Max. linear speed

Nominal linear speed

Linear stiffness on the rack

Inertia

Ratio

Nominal output torque

Max. output torque

No load torque

No load torque

E-stop torque

Max. input speed

Nominal input speed

Radial stiffness

Axial stiffness

Torsional stiffness

General data

			M	R
m	kg	1 Stage		
		2 Stages	310	350
η	%	1 Stage		
		2 Stages	93	91
J	arcmin	Standard	3	4
		Reduced	1	2
			RAL2012	

Pinion features

		Helical	Straight
Mo	mm	8	8
β	deg	19°31'42"	0
Z2	-	15	16
α	deg	20°	20°
D02	mm	127,32	128
x0	-	0,355	0,313
Q	(ISO 1328)	6	6
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

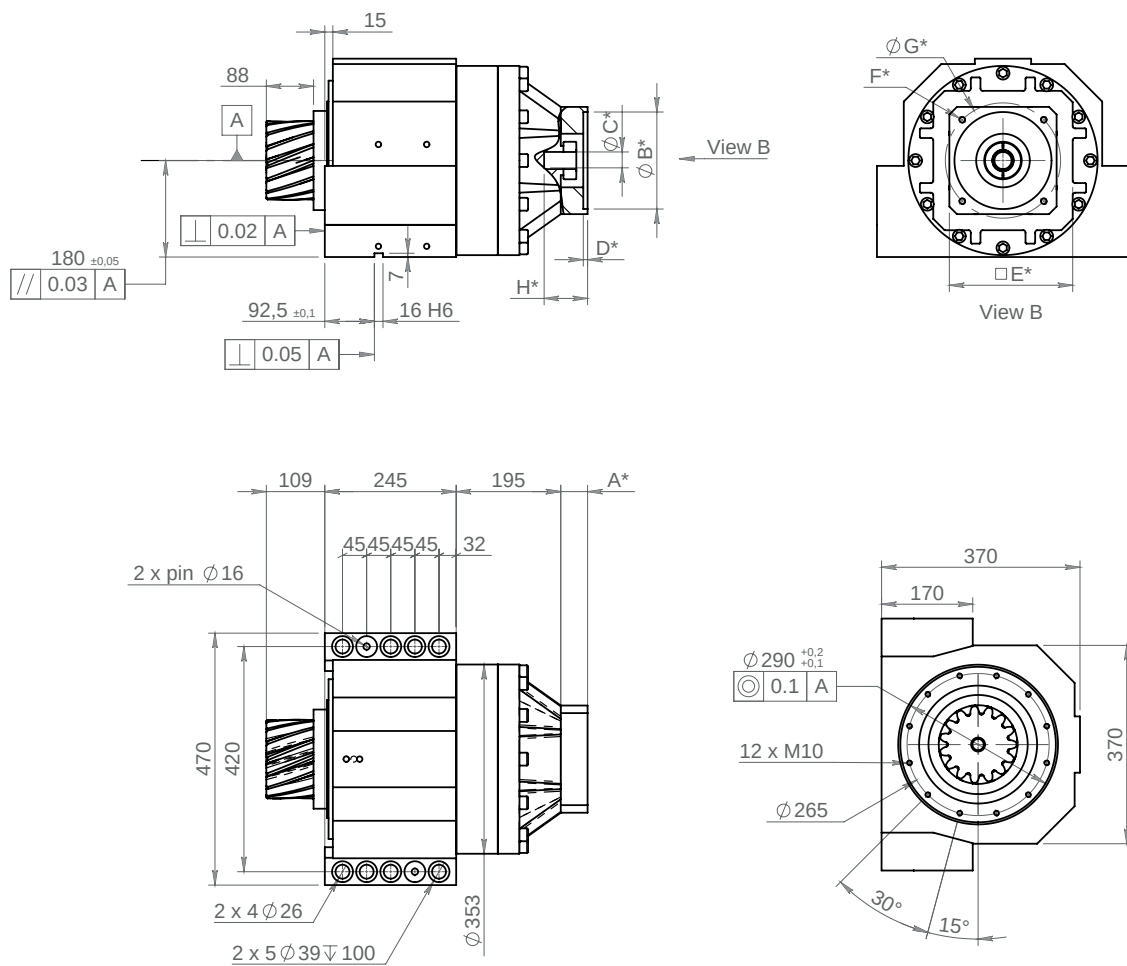
		5	7	10	17	21	31	46	61	91
F2N	N					73830	105247	86396	86396	86396
F2B	N					118128	157870	138234	138234	138234
F2B_max	N					236255	315740	276469	276469	276469
F2NOT	N					180647	180647	180647	180647	180647
V2B	m/min					76	52	35	26	18
V2N	m/min					19	13	9	7	4
K2T +M	N/μm					623	623	545	598	500
K2T +R	N/μm					623	622	545	595	483
I +M	kg.mm ²					2916	2204	1851	1228	1133
I +R	kg.mm ²					17640	16928	16575	15964	15870

KRPX ratings

		5	7	10	17	21	31	46	61	91
T2N	Nm					4700	6700	5500	5500	5500
T2B	Nm					7520	10050	8800	8800	8800
T01 +R	Nm					5,2	5,2	5,2	5,2	5,2
T01 +M	Nm					4	4	4	4	4
T2NOT	Nm					11500	11500	11500	11500	11500
n1B	rpm					4000	4000	4000	4000	4000
n1N	rpm					1000	1000	1000	1000	1000
K2R	N/μm					1550	1550	1550	1550	1550
K2A	N/μm					5484	5484	5484	5484	5484
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

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

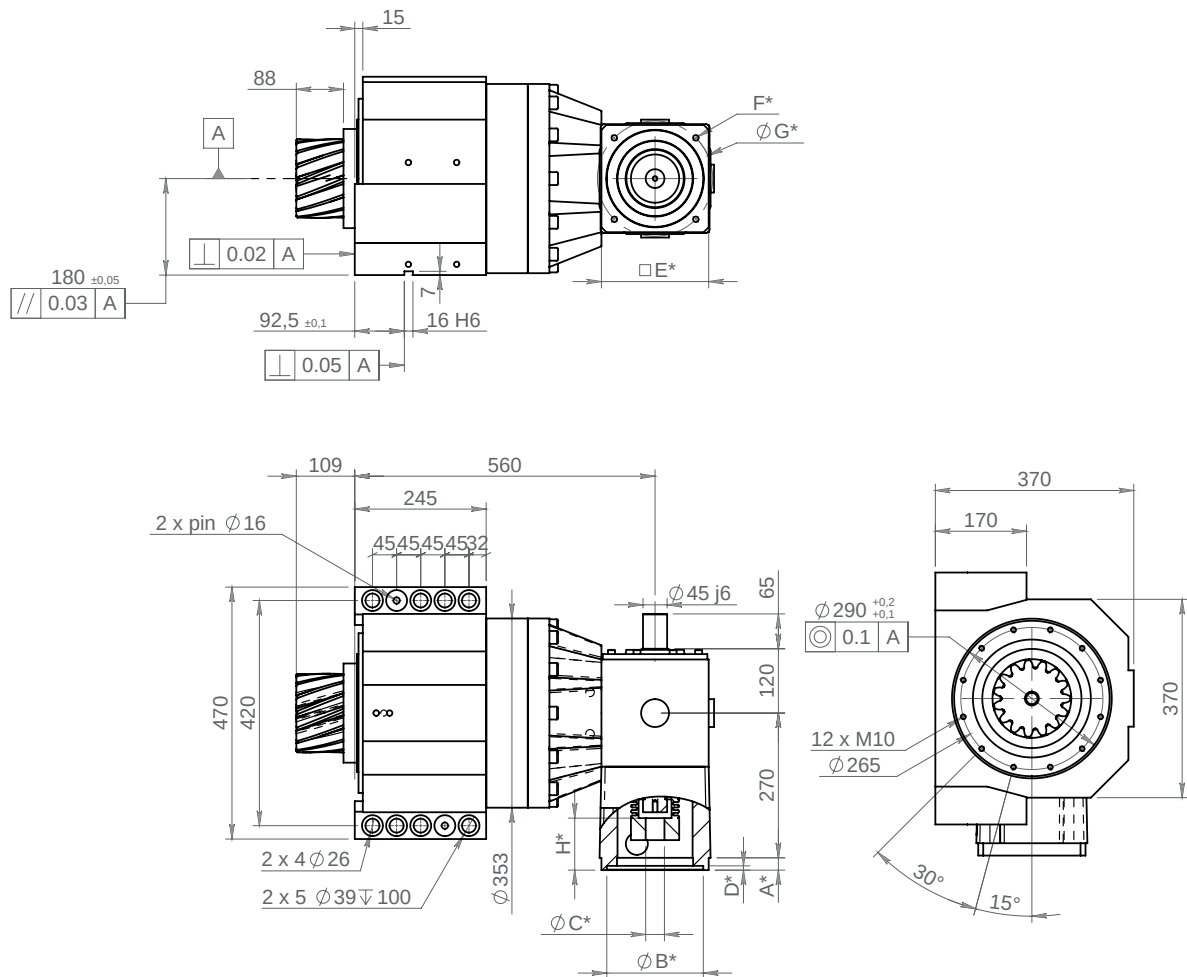
DIMENSIONS - TYPE M



	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

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

KRP *SIZE 1*



KRP1

Weight

Efficiency

Backlash

Color

Tooth type

Module

Helix angle (left)

Number of teeth

Pressure angle

Theoretical pitch diameter

Addendum modification factor

Pinion quality grade

Surface hardness

Ratio

Nominal feed force

Peak acceleration feed force

Max. acceleration feed force

E-stop force

Max. linear speed

Nominal linear speed

Linear stiffness on the rack

Inertia

Ratio

Nominal output torque

Max. output torque

No load torque

No load torque

E-stop torque

Max. input speed

Nominal input speed

Radial stiffness

Axial stiffness

Torsional stiffness

General data

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

Pinion features

		Helical	Straight
Mo	mm	3	3
β	deg	19°31'42"	0°
Z2	-	18	19
α	deg	20	20
D02	mm	57,3	57
x0	-	0,118	0,167
Q	(ISO 1328)	6	6
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

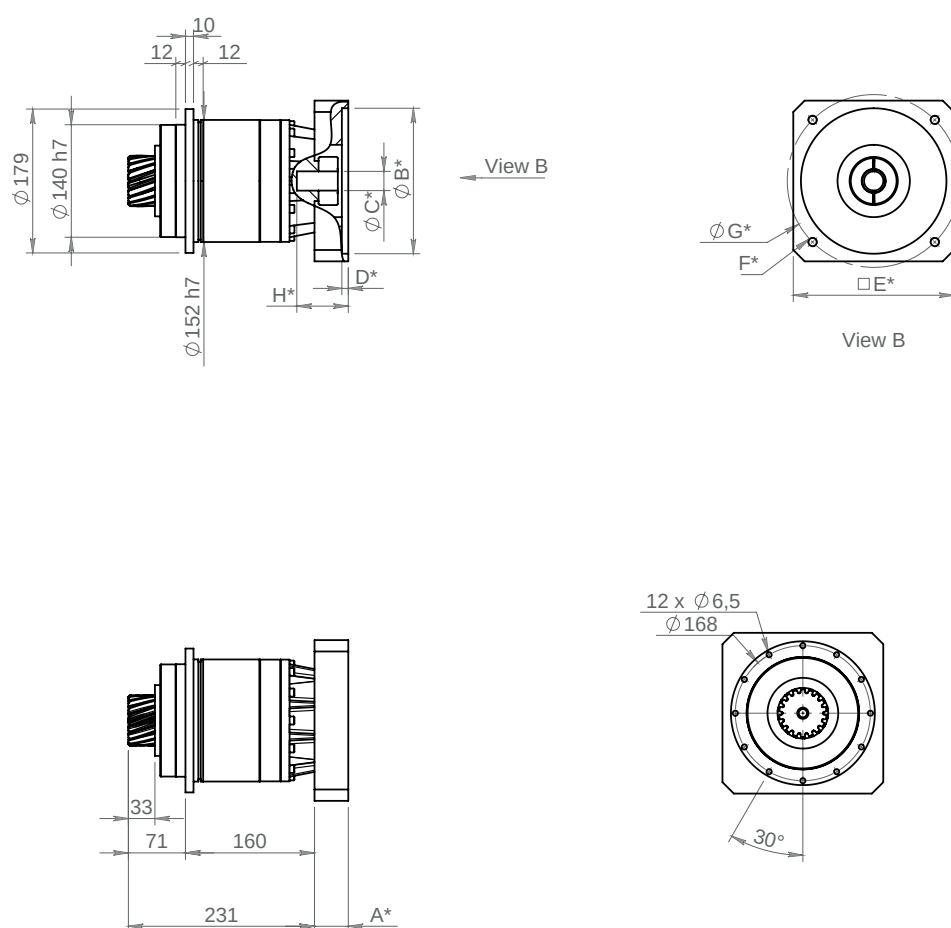
		5	7	10	17	21	31	46	61	91
F2N	N	12914	13264	9424	13613	10646	15009	9424	13089	9424
F2B	N	22618	23211	16510	23839	18639	26283	16510	22897	16510
F2B_max	N	45236	46422	33019	47679	37277	52565	33019	45794	33019
F2NOT	N	29075	29075	29075	29075	29075	29075	29075	29075	29075
V2B	m/min	180	129	90	64	51	35	23	18	12
V2N	m/min	58	41	29	28	22	15	10	8	5
K2T +M	N/ μ m	224	208	195	190	190	178	170	173	185
K2T +R	N/ μ m	191	174	158		169	176	169	173	185
I +M	kg.mm ²	883	746	674	287	269	259	254	246	245
I +R	kg.mm ²	2240	2304	2231		458	448	443	435	433

KRP ratings

		5	7	10	17	21	31	46	61	91
T2N	Nm	370	380	270	390	305	430	270	375	270
T2B	Nm	648	665	473	683	534	753	473	656	473
T01 +R	Nm	5	5	5		1,5	1,5	1,5	1,5	1,5
T01 +M	Nm	4,5	4,5	4,5	1	1	1	1	1	1
T2NOT	Nm	833	833	833	833	833	833	833	833	833
n1B	rpm	5000	5000	5000	6000	6000	6000	6000	6000	6000
n1N	rpm	1600	1600	1600	2600	2600	2600	2600	2600	2600
K2R	N/ μ m	480	480	480	480	480	480	480	480	480
K2A	N/ μ m	1710	1710	1710	1710	1710	1710	1710	1710	1710
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

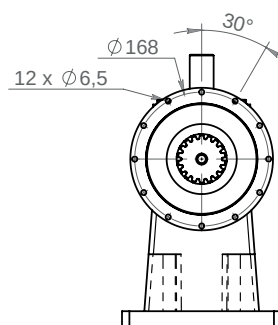
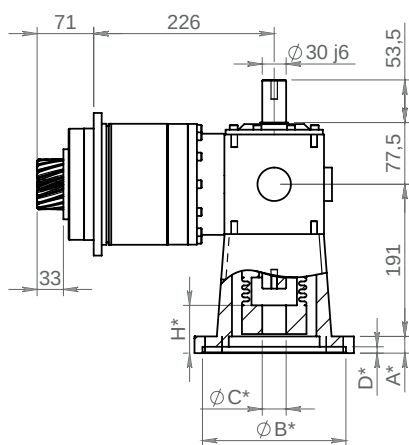
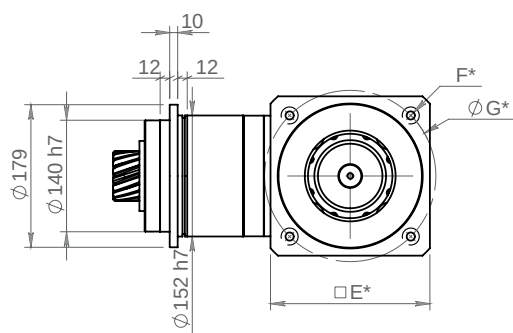
DIMENSIONS - TYPE **M 1** stage



	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 =1.5xØ thread

DIMENSIONS - TYPE **R 1 stage**

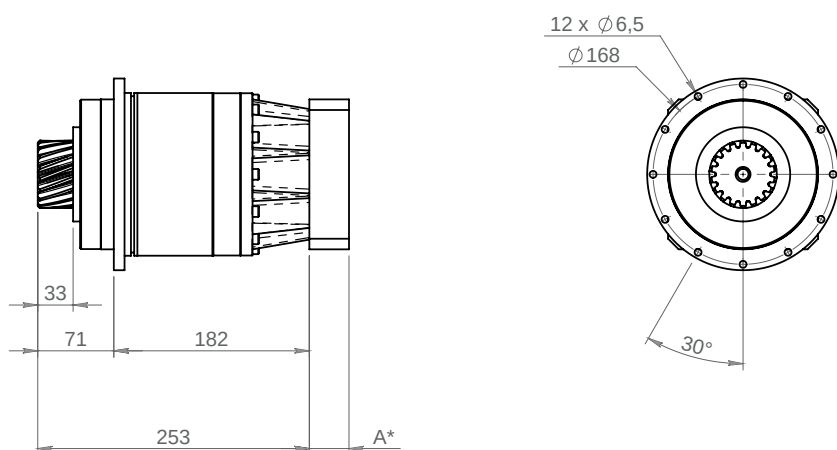
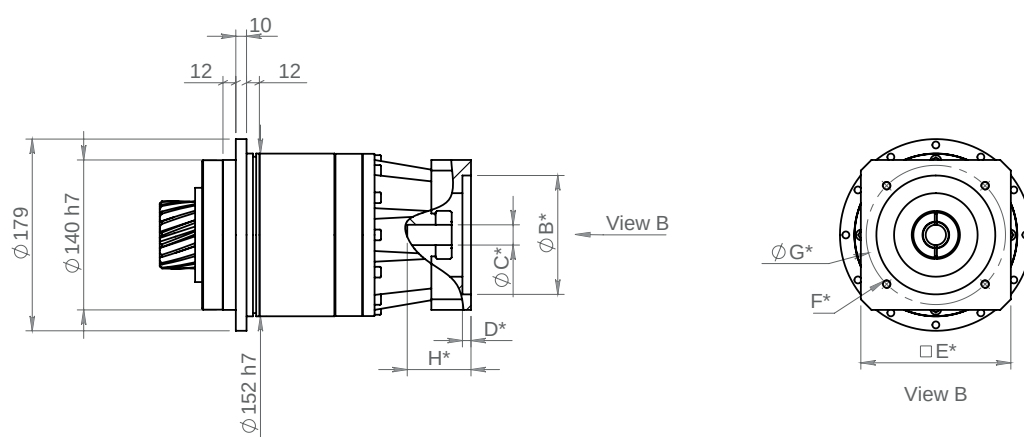


	MF3 140	MF3 200	MF3 260
A	21	21	24
E	140	200	260
H	80	80	83

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

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

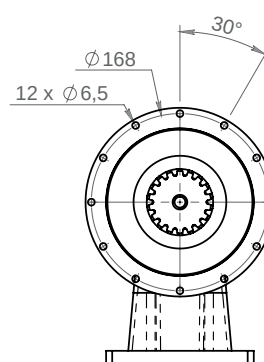
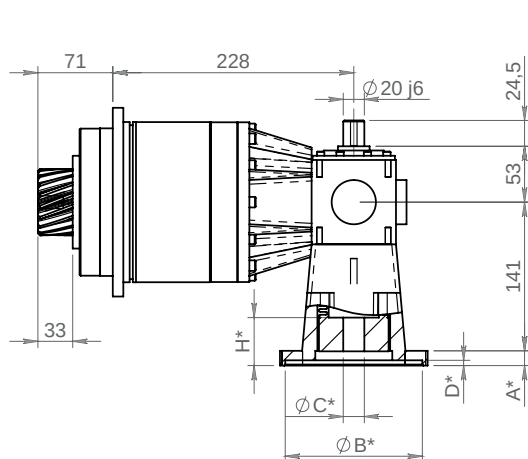
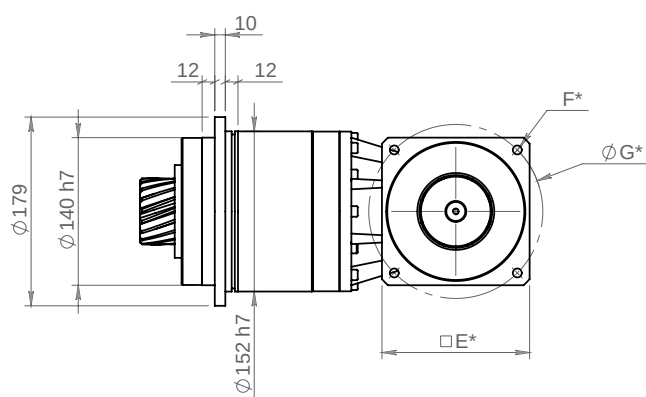
DIMENSIONS - TYPE **M 2** stages



	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
For accurate selection, contact your local supplier

KRP *SIZE 2*



KRP2

Weight

Efficiency

Backlash

Color

Tooth type

Module

Helix angle (left)

Number of teeth

Pressure angle

Theoretical pitch diameter

Addendum modification factor

Pinion quality grade

Surface hardness

Ratio

Nominal feed force

Peak acceleration feed force

Max. acceleration feed force

E-stop force

Max. linear speed

Nominal linear speed

Linear stiffness on the rack

Inertia

Ratio

Nominal output torque

Max. output torque

No load torque

No load torque

E-stop torque

Max. input speed

Nominal input speed

Radial stiffness

Axial stiffness

Torsional stiffness

General data

			M	R
m	kg	1 Stage	46	53
		2 Stages	49	56
η	%	1 Stage	96	94
		2 Stages	93	91
J	arcmin	Standard	3	4
		Reduced	1	2
RAL2012				

Pinion features

		Helical	Straight
Mo	mm	4	4
β	deg	19°31'42"	0°
Z2	-	18	19
α	deg	20°	20°
D02	mm	76,39	76
x0	-	0,638	0,688
Q	(ISO 1328)	6	6
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

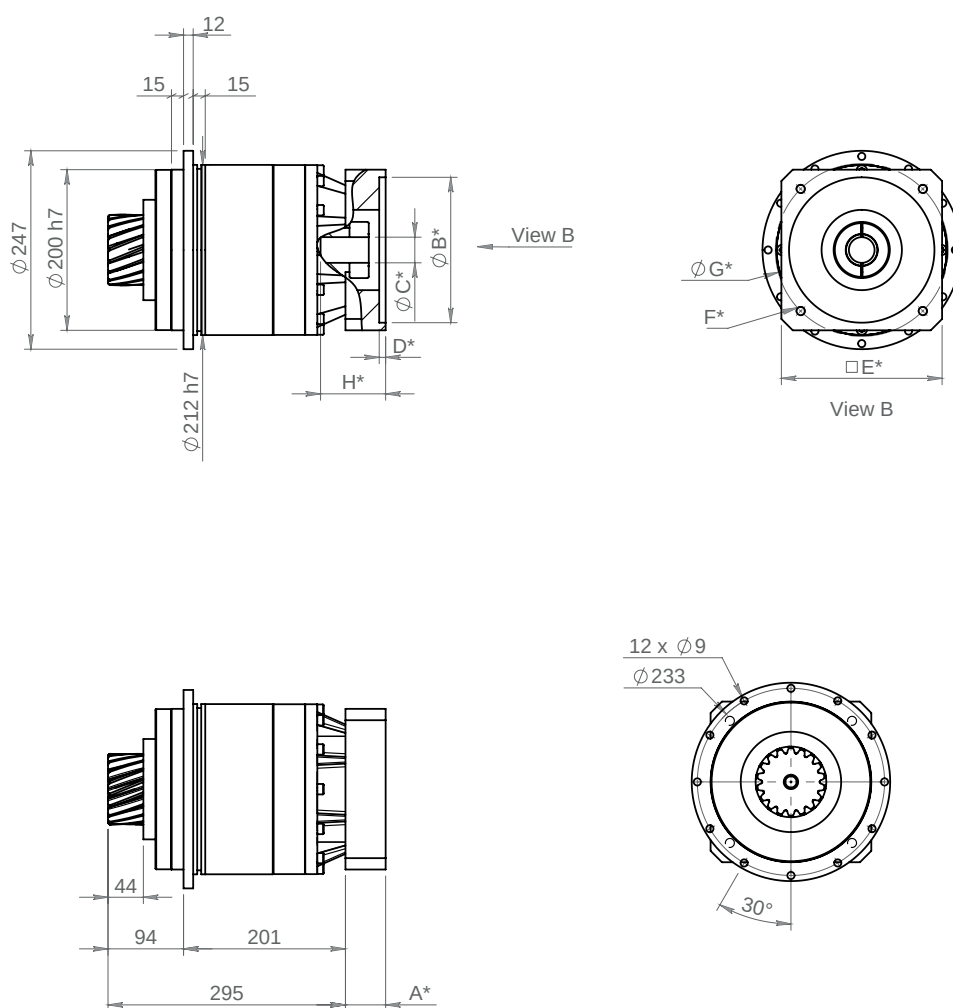
		5	7	10	17	21	31	46	61	91
F2N	N	26181	26181	20945	27491	20945	31418	20945	30109	20945
F2B	N	45818	45818	36654	48121	36654	54981	36654	52703	36654
F2B_max	N	91635	91635	73308	96243	73308	109962	73308	105406	73308
F2NOT	N	71999	71999	71999	71999	71999	71999	71999	71999	71999
V2B	m/min	192	137	96	85	69	46	31	24	16
V2N	m/min	53	38	26	30	24	16	11	8	6
K2T +M	N/μm	313	317	288	276	276	291	278	288	275
K2T +R	N/μm	309	294	2965		251	273	273	285	275
I +M	kg.mm²	2559	1741	1308	816	722	663	634	596	588
I +R	kg.mm²	11101	10310	7427		1321	1263	1234	1196	1188

KRP ratings

		5	7	10	17	21	31	46	61	91
T2N	Nm	1000	1000	800	1050	800	1200	800	1150	800
T2B	Nm	1750	1750	1400	1838	1400	2100	1400	2013	1400
T01 +R	Nm	8,8	8,8	8,8	2,3	2,3	2,3	2,3	2,3	2,3
T01 +M	Nm	8	8	8	2	2	2	2	2	2
T2NOT	Nm	2750	2750	2750	2750	2750	2750	2750	2750	2750
n1B	rpm	4000	4000	4000	6000	6000	6000	6000	6000	6000
n1N	rpm	1100	1100	1100	2100	2100	2100	2100	2100	2100
K2R	N/μm	650	650	650	650	650	650	650	650	650
K2A	N/μm	2162	2162	2162	2162	2162	2162	2162	2162	2162
C2t +R	Nm/ rad	1038200	928192	749429		677236	794120	794120	866312	804433
	Nm/arcmin	302	270	218		197	231	231	252	234
C2t +M	Nm/ rad	1220400	1100079	886939	814746	814746	904127	825059	883501	807870
	Nm/arcmin	355	320	258	237	237	263	240	257	235

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

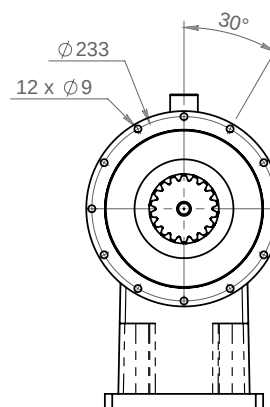
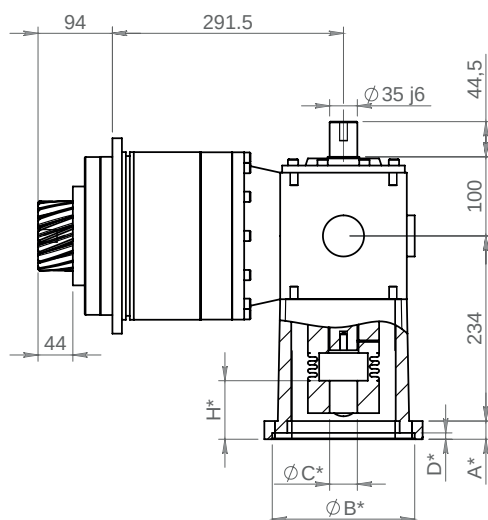
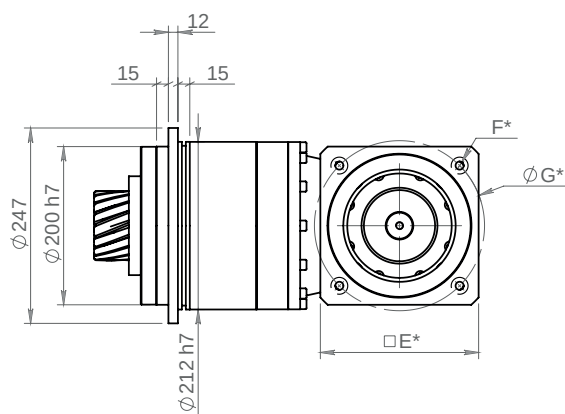
DIMENSIONS - TYPE *M 1* stage



	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 1 stage**

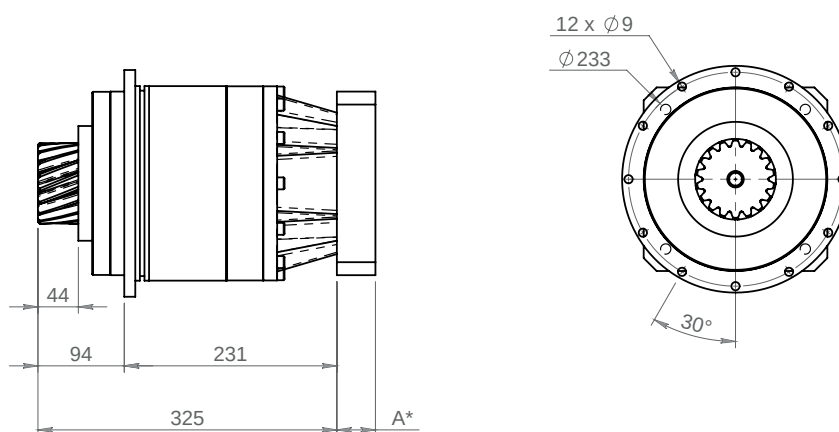
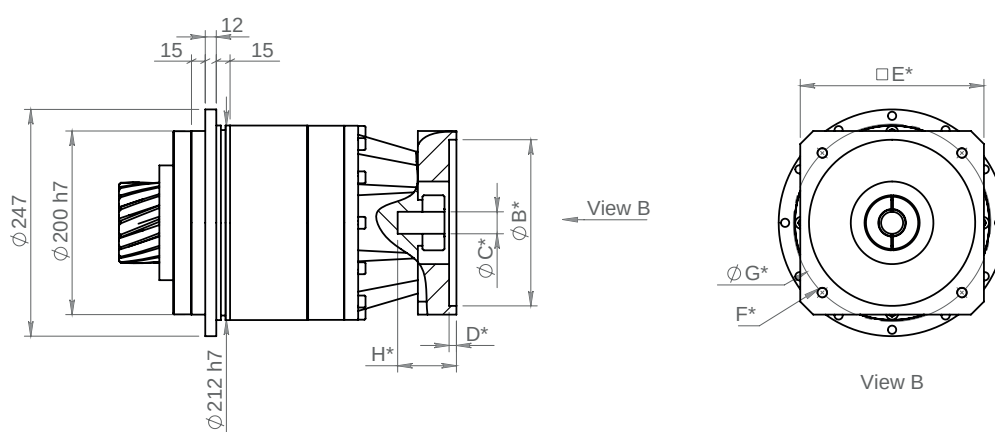


	MF4 200	MF4 260
A	23	23
E	200	260
H	110	110

*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
For accurate selection, contact your local supplier

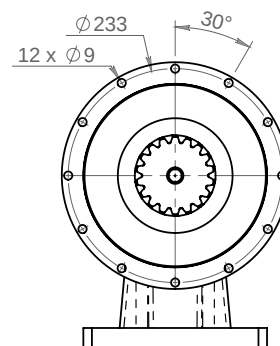
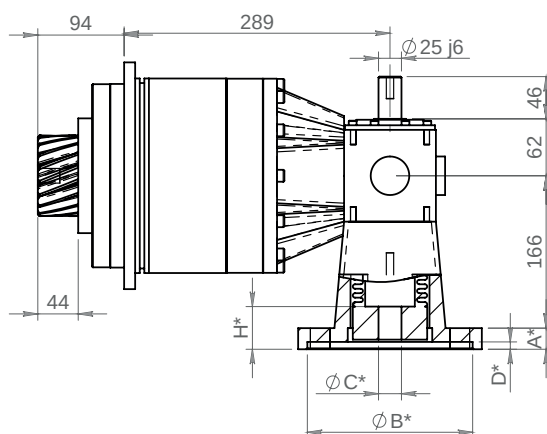
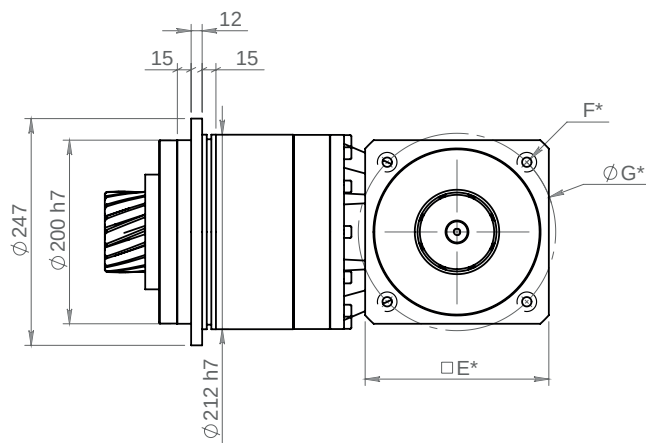
DIMENSIONS - TYPE **M 2** stages



	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 2 stages**



	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
For accurate selection, contact your local supplier

KRP *SIZE 3*



KRP3

Weight

Efficiency

Backlash

Color

Tooth type

Module

Helix angle (left)

Number of teeth

Pressure angle

Theoretical pitch diameter

Addendum modification factor

Pinion quality grade

Surface hardness

Ratio

Nominal feed force

Peak acceleration feed force

Max. acceleration feed force

E-stop force

Max. linear speed

Nominal linear speed

Linear stiffness on the rack

Inertia

Ratio

Nominal output torque

Max. output torque

No load torque

No load torque

E-stop torque

Max. input speed

Nominal input speed

Radial stiffness

Axial stiffness

Torsional stiffness

General data

			M	R
m	kg	1 Stage		
		2 Stages	103	116
η	%	1 Stage		
		2 Stages	93	91
J	arcmin	Standard	3	4
		Reduced	1	2
			RAL2012	

Pinion features

		Helical	Straight
Mo	mm	5	5
β	deg	19°31'42"	0°
Z2	-	18	19
α	deg	20°	20°
D02	mm	95,49	95
x0	-	0,251	0,300
Q	(ISO 1328)	6	6
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

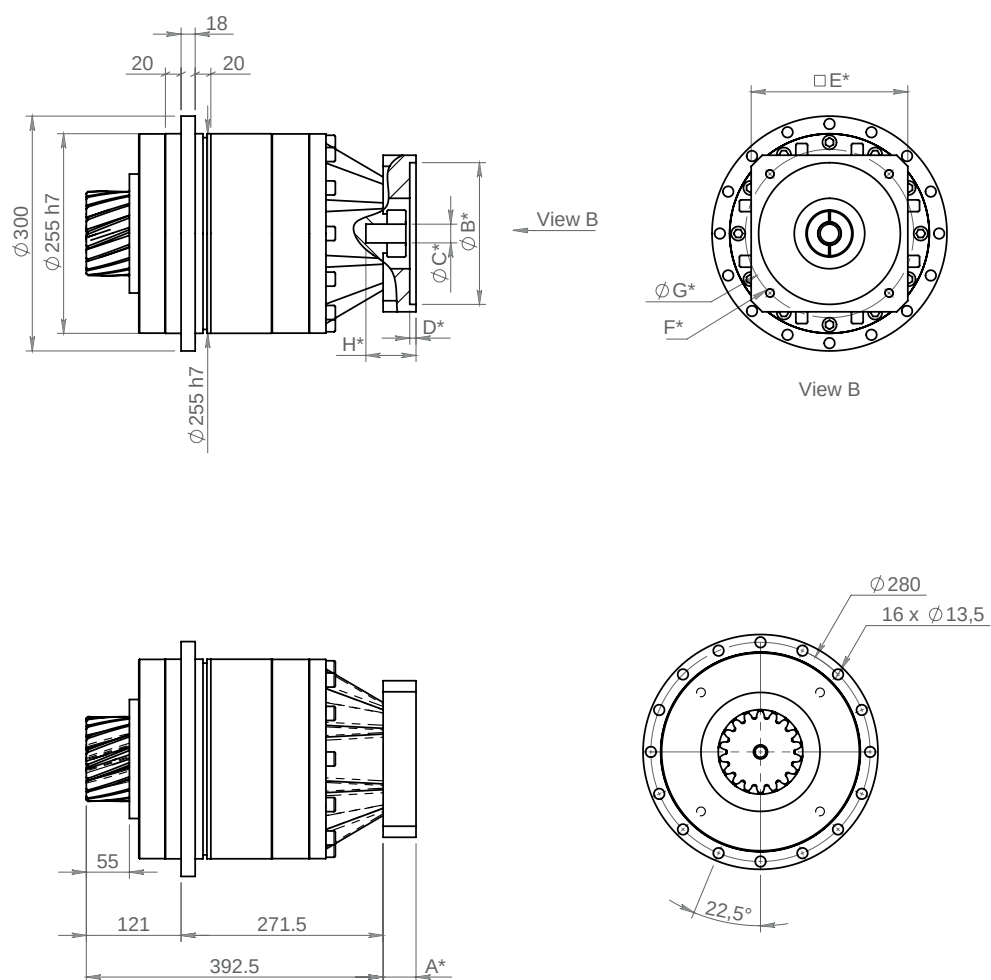
		5	7	10	17	21	31	46	61	91
F2N	N				38748	31417	46078	29532	32255	32255
F2B	N				67819	54980	80637	51691	56446	56446
F2B_max	N				135637	109959	161273	103383	112891	112891
F2NOT	N				103676	103676	103676	103676	103676	103676
V2B	m/min				88	71	48	33	25	16
V2N	m/min				28	23	15	10	8	5
K2T +M	N/μm				426	426	409	399	387	421
K2T +R	N/μm				-	363	386	374	385	382
I +M	kg.mm ²				1242	994	8465	773	666	647
I +R	kg.mm ²				-	2552	2403	2330	2224	2204

KRP ratings

		5	7	10	17	21	31	46	61	91
T2N	Nm				1850	1500	2200	1410	1540	1540
T2B	Nm				3238	2625	3850	2468	2695	2695
T01 +R	Nm				2,8	2,8	2,8	2,8	2,8	2,8
T01 +M	Nm				2,5	2,5	2,5	2,5	2,5	2,5
T2NOT	Nm				4950	4950	4950	4950	4950	4950
n1B	rpm				5000	5000	5000	5000	5000	5000
n1N	rpm				1600	1600	1600	1600	1600	1600
K2R	N/μm				1100	1100	1100	1100	1100	1100
K2A	N/μm				4355	4355	4355	4355	4355	4355
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

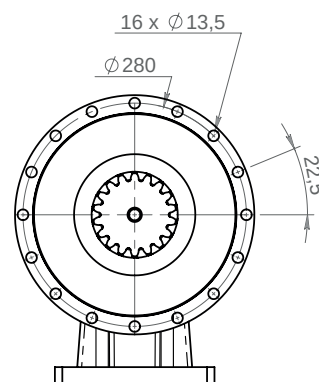
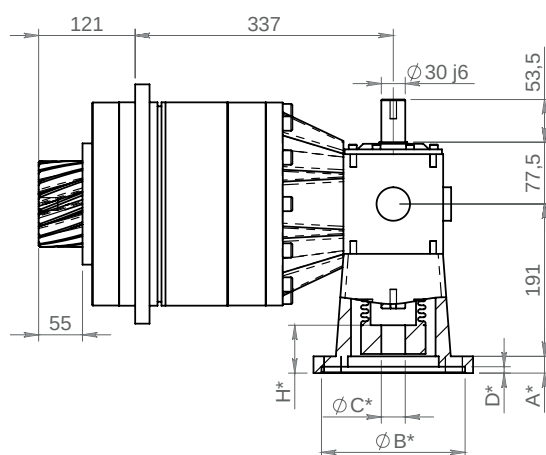
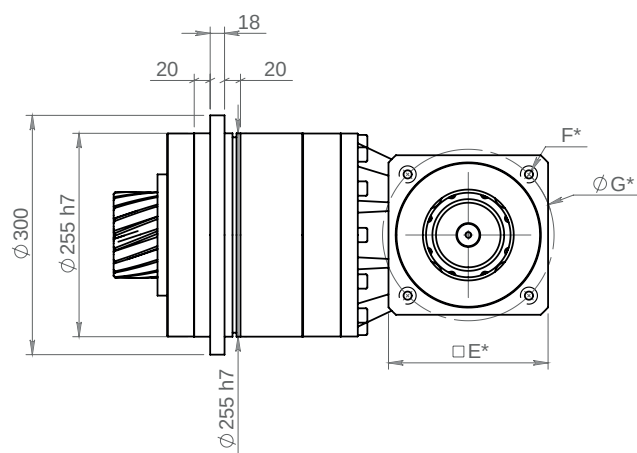
DIMENSIONS - TYPE *M*



	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
For accurate selection, contact your local supplier

KRP *SIZE 4*



KRP4

Weight

Efficiency

Backlash

Color

Tooth type

Module

Helix angle (left)

Number of teeth

Pressure angle

Theoretical pitch diameter

Addendum modification factor

Pinion quality grade

Surface hardness

Ratio

Nominal feed force

Peak acceleration feed force

Max. acceleration feed force

E-stop force

Max. linear speed

Nominal linear speed

Linear stiffness on the rack

Inertia

Ratio

Nominal output torque

Max. output torque

No load torque

No load torque

E-stop torque

Max. input speed

Nominal input speed

Radial stiffness

Axial stiffness

Torsional stiffness

General data

			M	R
m	kg	1 Stage		
		2 Stages	169	200
η	%	1 Stage		
		2 Stages	93	91
J	arcmin	Standard	3	4
		Reduced	1	2
			RAL2012	

Pinion features

		Helical	Straight
Mo	mm	6	6
β	deg	19°31'42"	0°
Z2	-	18	19
α	deg	20°	20°
D02	mm	114,59	114
x0	-	0,201	0,250
Q	(ISO 1328)	6	6
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

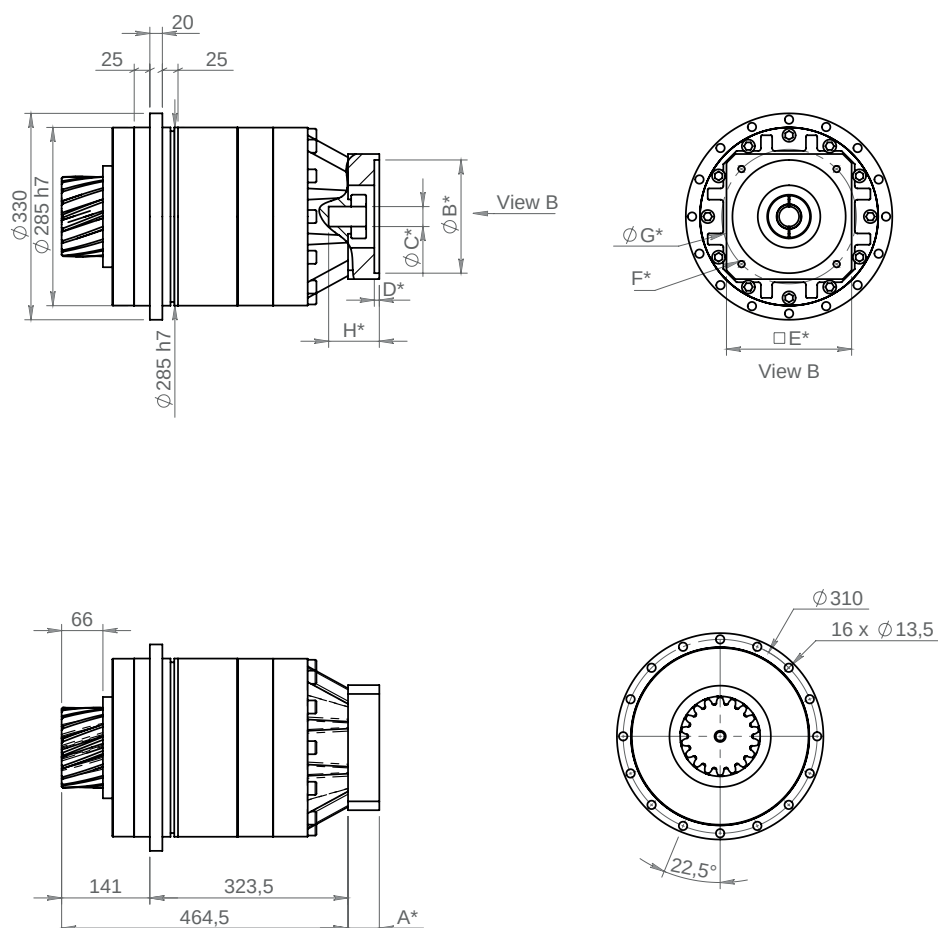
		5	7	10	17	21	31	46	61	91
F2N	N				61087	61087	62833	44681	49568	49568
F2B	N				106903	106903	109957	78192	86744	86744
F2B_max	N				213806	213806	219914	156384	173488	173488
F2NOT	N				132647	132647	132647	132647	132647	132647
V2B	m/min				85	69	46	31	24	16
V2N	m/min				28	22	15	10	8	5
K2T +M	N/μm				461	461	461	440	493	440
K2T +R	N/μm					440	440	420	437	431
I +M	kg.mm²				3439	2246	1886	1702	1146	1095
I +R	kg.mm²					10788	7978	7793	7265	7214

KRP ratings

		5	7	10	17	21	31	46	61	91
T2N	Nm				3500	3500	3600	2560	2840	2840
T2B	Nm				6125	6125	6300	4480	4970	4970
T01 +R	Nm				3,6	3,6	3,6	3,6	3,6	3,6
T01 +M	Nm				3	3	3	3	3	3
T2NOT	Nm				7600	7600	7600	7600	7600	7600
n1B	rpm				4000	4000	4000	4000	4000	4000
n1N	rpm				1300	1300	1300	1300	1300	1300
K2R	N/μm				1250	1250	1250	1250	1250	1250
K2A	N/μm				5000	5000	5000	5000	5000	5000
C2t +R	Nm/ rad				2475178	2471740	2289539	2444238	2382359	
	Nm/arcmin				720	719	666	711	693	
C2t +M	Nm/ rad				2681442	2681442	2468302	3025217	2471740	
	Nm/arcmin				780	780	780	718	880	719

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

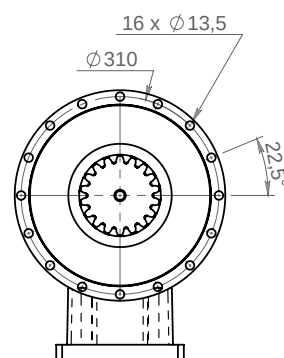
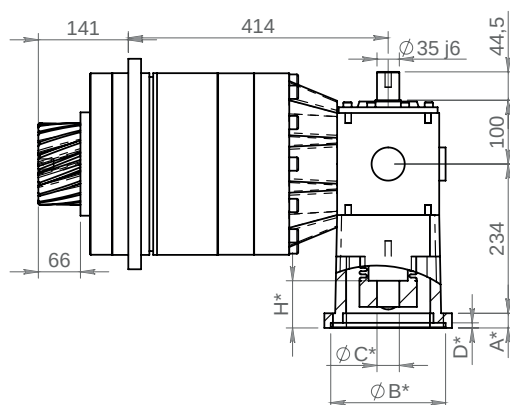
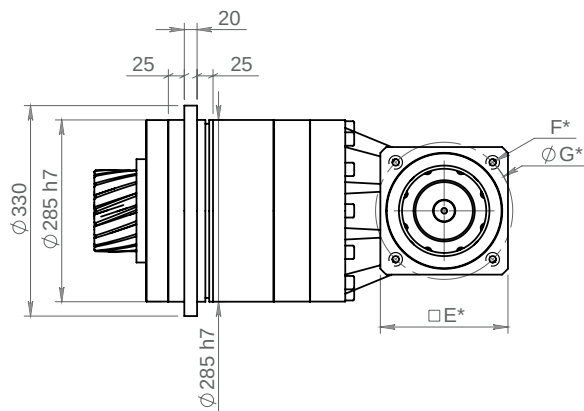
DIMENSIONS - TYPE M



	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
For accurate selection, contact your local supplier

KRP *SIZE 5*



KRP5

Weight

Efficiency

Backlash

Color

Tooth type

Module

Helix angle (left)

Number of teeth

Pressure angle

Theoretical pitch diameter

Addendum modification factor

Pinion quality grade

Surface hardness

Ratio

Nominal feed force

Peak acceleration feed force

Max. acceleration feed force

E-stop force

Max. linear speed

Nominal linear speed

Linear stiffness on the rack

Inertia

Ratio

Nominal output torque

Max. output torque

No load torque

No load torque

E-stop torque

Max. input speed

Nominal input speed

Radial stiffness

Axial stiffness

Torsional stiffness

General data

			M	R
m	kg	1 Stage		
		2 Stages	334	430
η	%	1 Stage		
		2 Stages	93	91
J	arcmin	Standard	3	4
		Reduced	1	2
RAL2012				

Pinion features

		Helical	Straight
Mo	mm	8	8
β	deg	19°31'42"	0
Z2	-	15	16
α	deg	20°	20°
D02	mm	127,32	128
x0	-	0,355	0,313
Q	(ISO 1328)	6	6
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

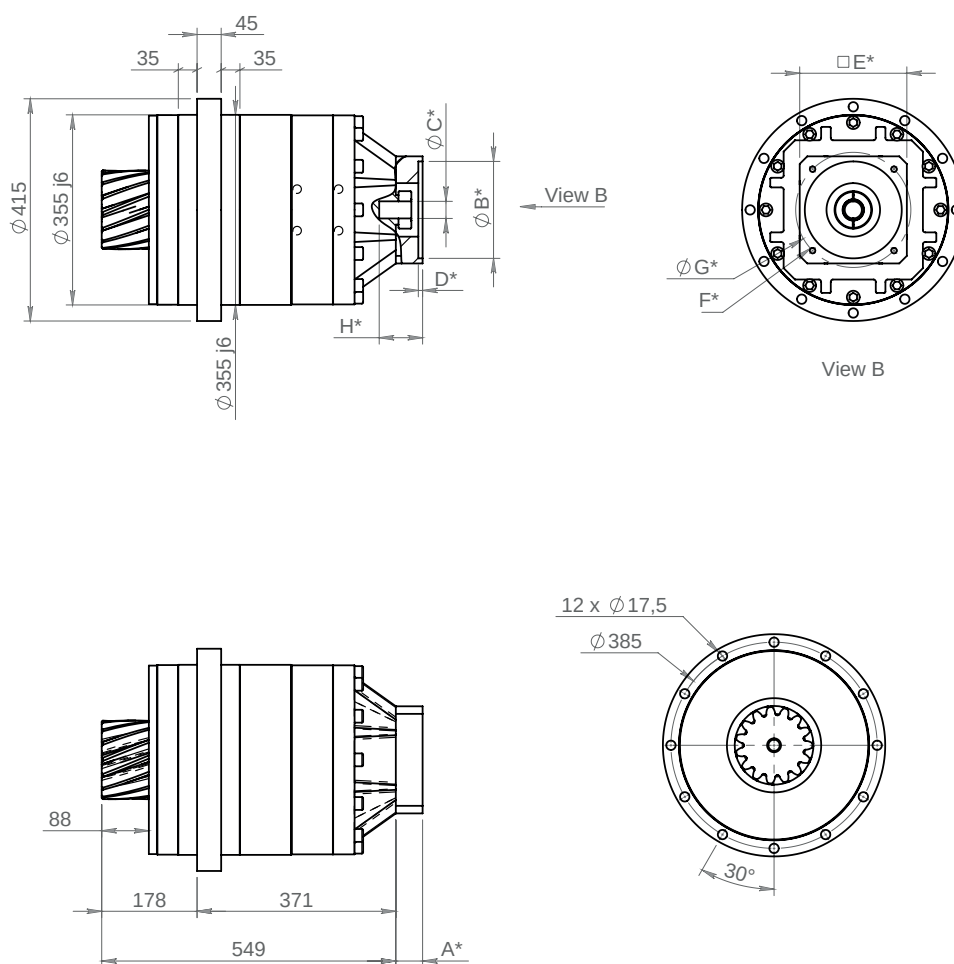
		5	7	10	17	21	31	46	61	91
F2N	N					73830	105247	86396	86396	86396
F2B	N					118128	157870	138234	138234	138234
F2B_max	N					236255	315740	276469	276469	276469
F2NOT	N					180647	180647	180647	180647	180647
V2B	m/min					76	52	35	26	18
V2N	m/min					19	13	9	7	4
K2T +M	N/μm					623	623	545	598	500
K2T +R	N/μm					623	622	545	595	483
I +M	kg.mm ²					2916	2204	1851	1228	1133
I +R	kg.mm ²					17640	16928	16575	15964	15870

KRP ratings

		5	7	10	17	21	31	46	61	91
T2N	Nm					4700	6700	5500	5500	5500
T2B	Nm					7520	10050	8800	8800	8800
T01 +R	Nm					5,2	5,2	5,2	5,2	5,2
T01 +M	Nm					4	4	4	4	4
T2NOT	Nm					11500	11500	11500	11500	11500
n1B	rpm					4000	4000	4000	4000	4000
n1N	rpm					1000	1000	1000	1000	1000
K2R	N/μm					1550	1550	1550	1550	1550
K2A	N/μm					5484	5484	5484	5484	5484
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

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

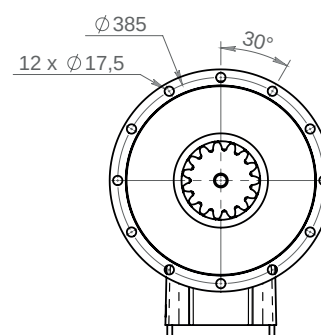
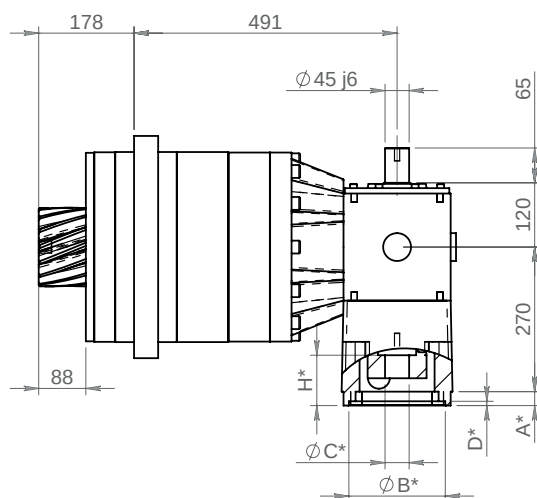
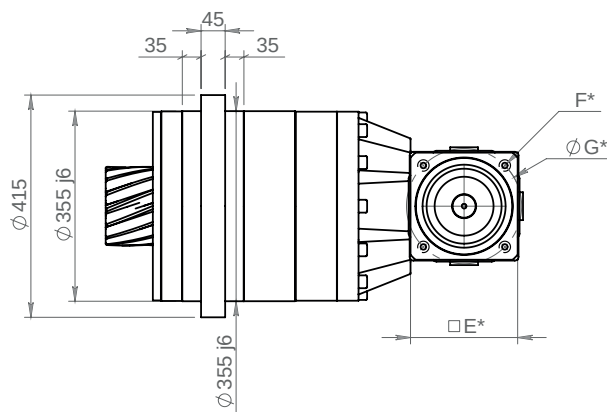
DIMENSIONS - TYPE *M*



	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

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



Planetary Reducer offering Universal Flanges

With SRP, flexibility, versatility, and high-performance are provided in a high-tech single package. REDEX offers this ready-to-use complete machine subassembly as a concept-drive to designers looking for the highest dynamic motion control.

High-tech planetary reducer + universal flanges = highly versatile Drive solution.

- Extra high tilting moment for high load applications
- Rack and pinion zero backlash electrical or mechanical pre-load available
- Complete library of accessories available: pinions, precision racks, ballscrew coupling, split pinion, lube system.
- 100% compliant with machine-tool quality manufacturing and testing standards

Further information & calculation tools available on request.



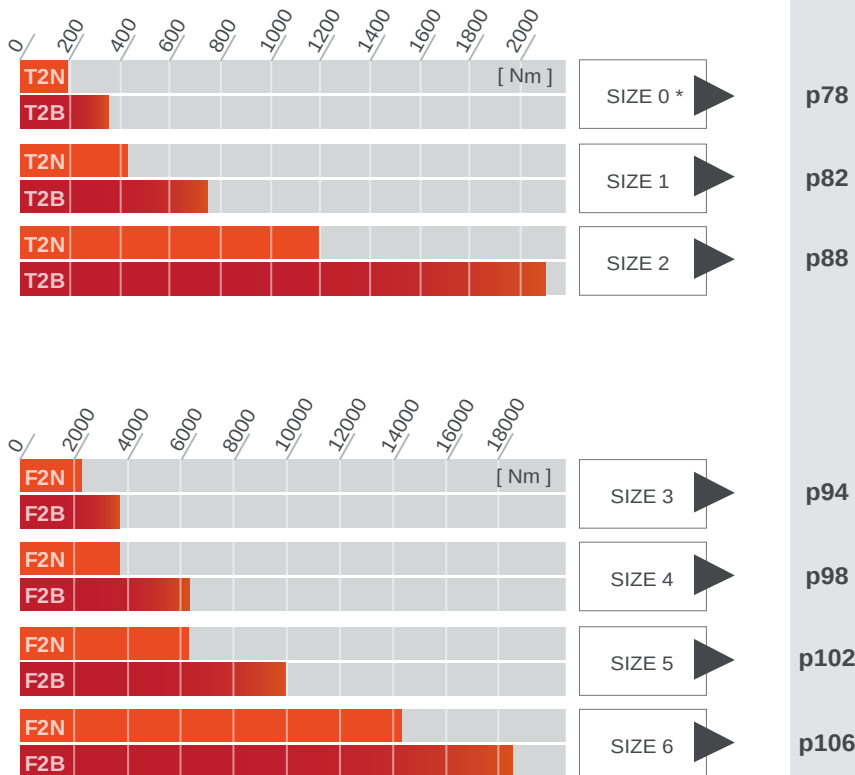
DriveSizer®

www.my-redex.com



Range Summary

through nominal & max. output torque



* All above data related to Ratio 31, except Size 0 related to ratio 5

SRP

SRP *SIZE 0*



SRP0

Weight

Efficiency

Backlash

Color

Ratio

Nominal output torque

Max. output torque

No load torque

No load torque

E-stop torque

Max. input speed

Nominal input speed

Max tilting moment

Tilting stiffness

Torsional stiffness

Torsional stiffness

Inertia

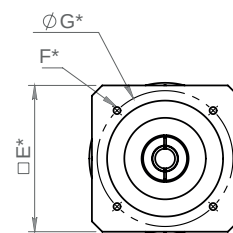
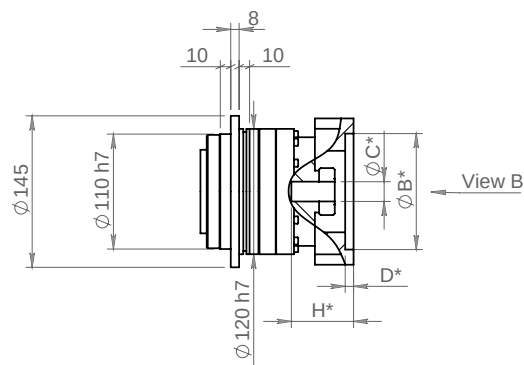
General data

			M	R
m	kg	1 Stage	6,8	11,3
		2 Stages		
η	%	1 Stage	96	94
		2 Stages		
J	arcmin	Standard	3	4
		Reduced	1	2
RAL2012				

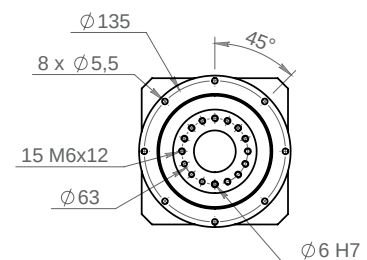
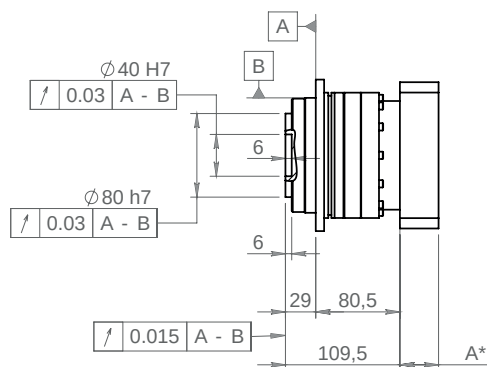
SRP Ratings

		5	7	10	17	21	31	46	61	91
T2N	Nm	200	200	200						
T2B	Nm	350	350	350						
T01 +R	Nm	2,5	2,5	2,5						
T01 +M	Nm	2	2	2						
T2NOT	Nm	625	625	625						
n1B	rpm	6000	6000	6000						
n1N	rpm	2000	2000	2000						
T2K	Nm	433	433	433						
C2K	Nm/ arcmin	576	576	576						
C2t +R	Nm/ rad	137510	120321	106570						
	Nm/arcmin	40	35	31						
C2t +M	Nm/ rad	189076	168450	137510						
	Nm/arcmin	55	49	40						
I +M	kg.mm ²	354	306	278						
I +R	kg.mm ²	1279	1231	1206						

DIMENSIONS - TYPE M



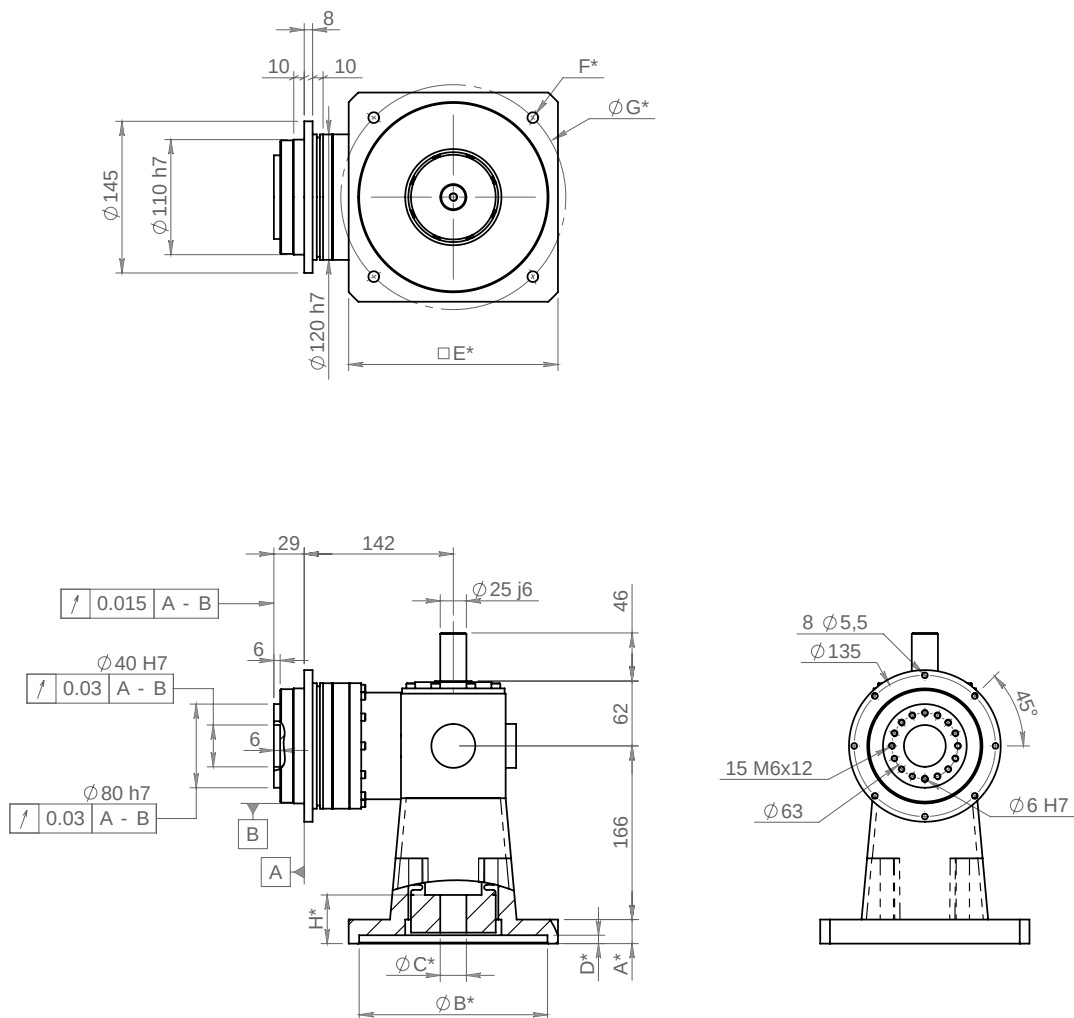
View B



	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**



	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
For accurate selection, contact your local supplier

SRP *SIZE 1*



SRP1

Weight

Efficiency

Backlash

Color

Ratio

Nominal output torque

Max. output torque

No load torque

No load torque

E-stop torque

Max. input speed

Nominal input speed

Max tilting moment

Tilting stiffness

Torsional stiffness

Torsional stiffness

Inertia

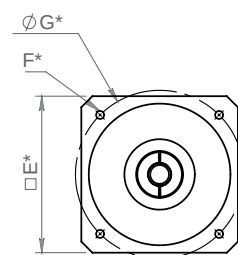
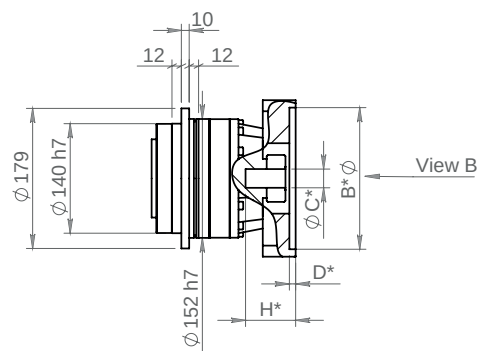
General data

			M	R
m	kg	1 Stage	13,8	18,3
		2 Stages	14,9	17
η	%	1 Stage	96	94
		2 Stages	93	91
J	arcmin	Standard	3	4
		Reduced	1	2
RAL2012				

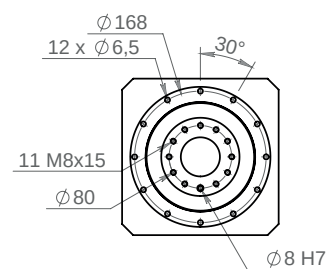
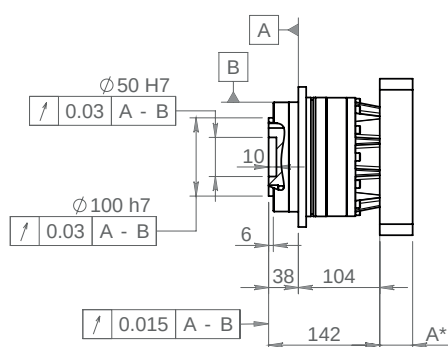
Technical features

		5	7	10	17	21	31	46	61	91
T2N	Nm	370	380	270	390	305	430	270	375	270
T2B	Nm	648	665	473	683	534	753	473	656	473
T01 +R	Nm	5	5	5	1,5	1,5	1,5	1,5	1,5	1,5
T01 +M	Nm	4,5	4,5	4,5	1	1	1	1	1	1
T2NOT	Nm	1250	1250	1250	1250	1250	1250	1250	1250	1250
n1B	rpm	5000	5000	5000	6000	6000	6000	6000	6000	6000
n1N	rpm	1600	1600	1600	2600	2600	2600	2600	2600	2600
T2K	Nm	1490	1490	1490	1490	1490	1490	1490	1490	1490
C2K	Nm/ arcmin	650	650	650	650	650	650	650	650	650
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
I +M	kg.mm ²	922	767	684	291	271	260	255	246	245
I +R	kg.mm ²	2479	2324	2241		460	449	443	435	434

DIMENSIONS - TYPE M 1 stage



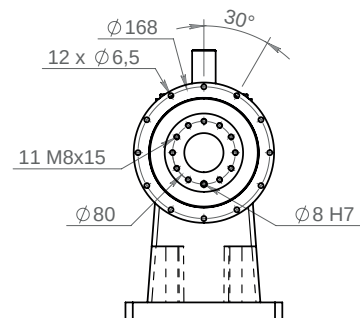
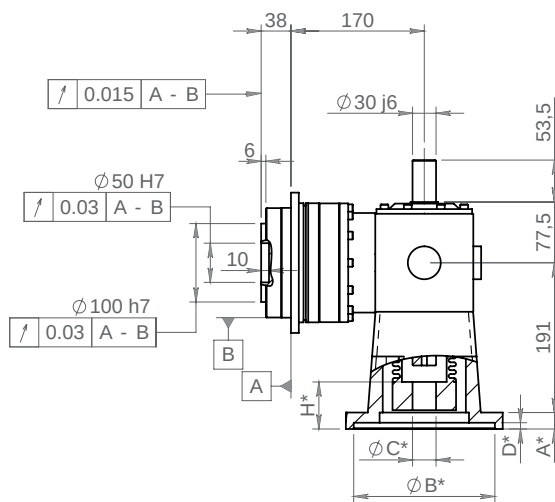
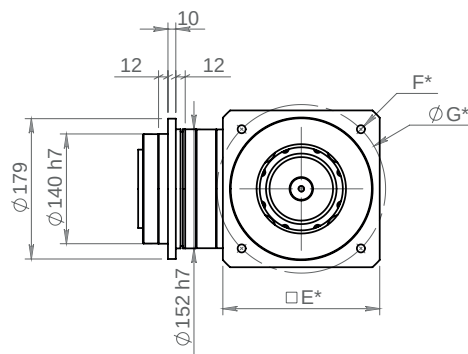
View B



	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**

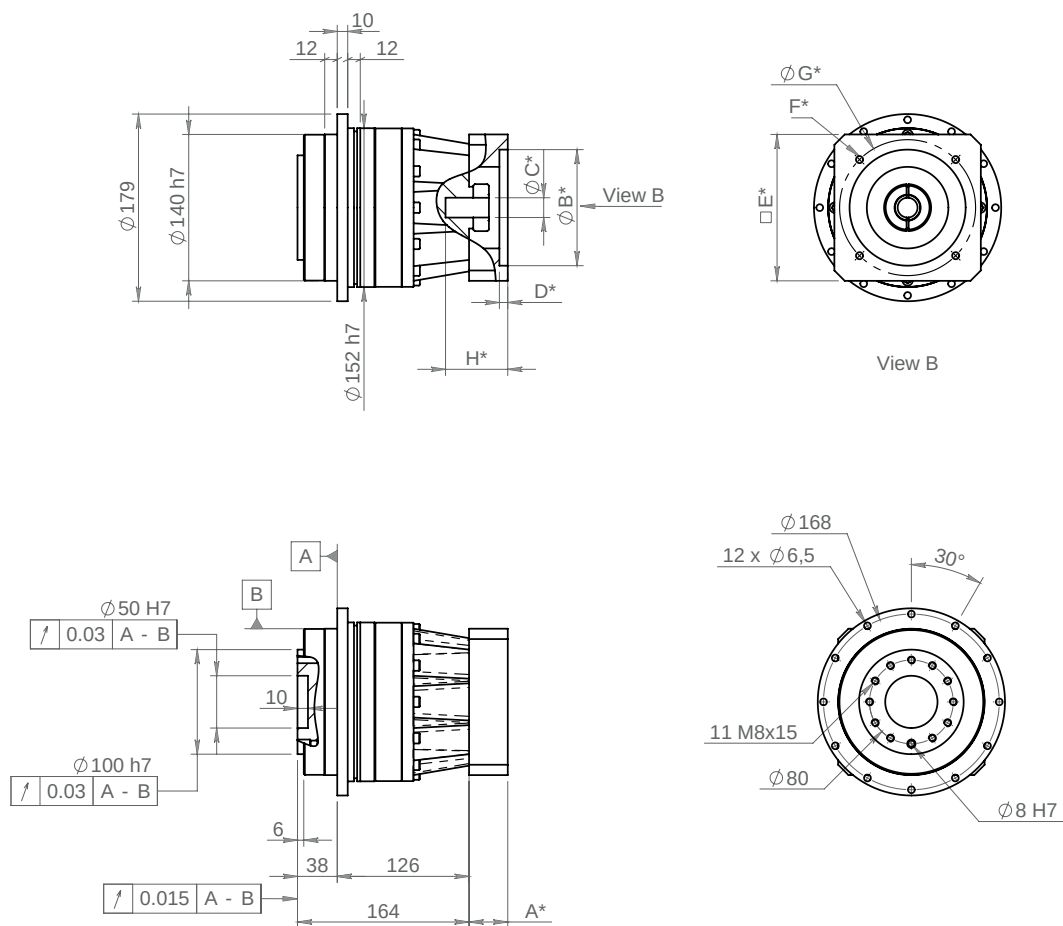


	MF3 140	MF3 200	MF3 260
A	21	21	24
E	140	200	260
H	80	80	83

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

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

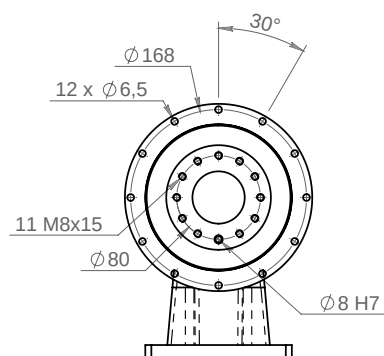
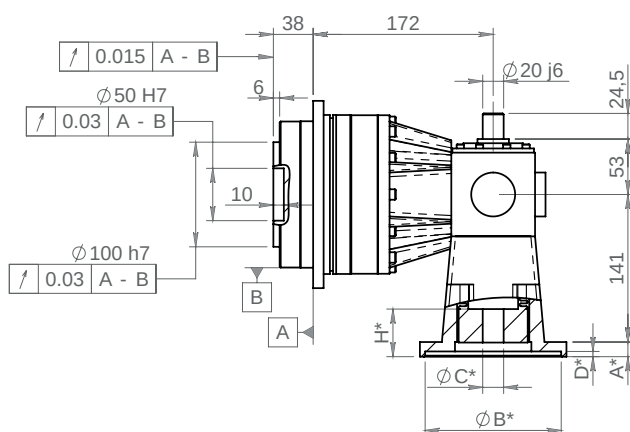
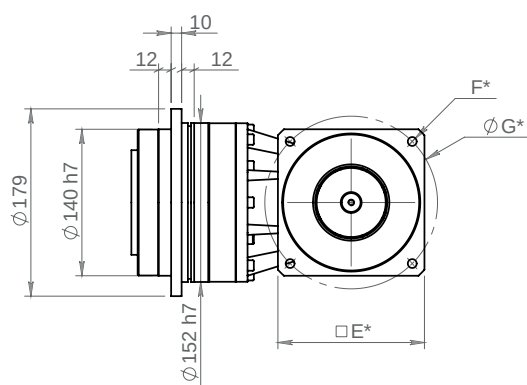
DIMENSIONS - TYPE **M 2** stages



	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
For accurate selection, contact your local supplier

SRP *SIZE 2*



SRP2

Weight

Efficiency

Backlash

Color

Ratio

Nominal output torque

Max. output torque

No load torque

No load torque

E-stop torque

Max. input speed

Nominal input speed

Max tilting moment

Tilting stiffness

Torsional stiffness

Torsional stiffness

Inertia

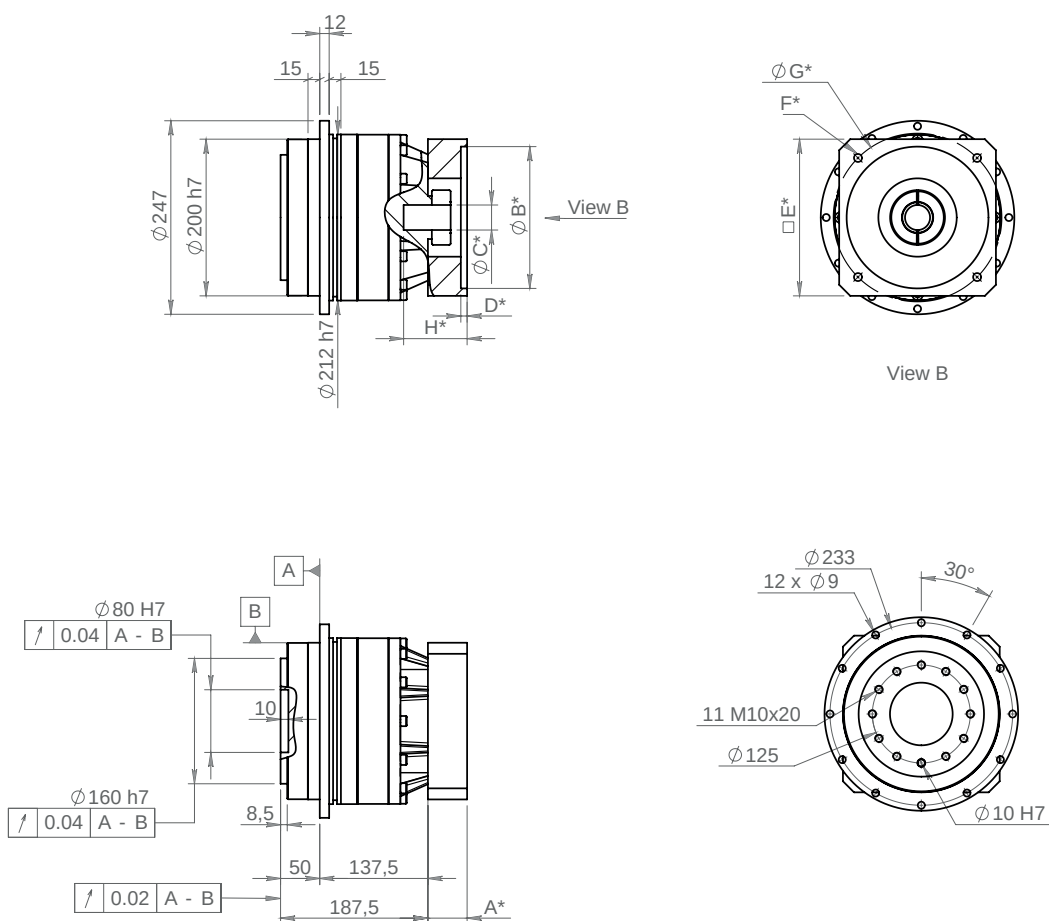
General data

			M	R
m	kg	1 Stage	33,7	41,2
		2 Stages	35,7	40,2
η	%	1 Stage	96	94
		2 Stages	93	91
J	arcmin	Standard	3	4
		Reduced	1	2
RAL2012				

Technical features

		5	7	10	17	21	31	46	61	91
T2N	Nm	1000	1000	800	1050	800	1200	800	1150	800
T2B	Nm	1750	1750	1400	1838	1400	2100	1400	2013	1400
T01 +R	Nm	8,8	8,8	8,8	2,3	2,3	2,3	2,3	2,3	2,3
T01 +M	Nm	8	8	8	2	2	2	2	2	2
T2NOT	Nm	2750	2750	2750	2750	2750	2750	2750	2750	2750
n1B	rpm	4000	4000	4000	6000	6000	6000	6000	6000	6000
n1N	rpm	1100	1100	1100	2100	2100	2100	2100	2100	2100
T2K	Nm	3520	3520	3520	3520	3520	3520	3520	3520	3520
C2K	Nm/ arcmin	1900	1900	1900	1900	1900	1900	1900	1900	1900
C2t +R	Nm/ rad	1038200	928192	749429		677236	794120	794120	866312	804433
	Nm/arcmin	302	270	218		197	231	231	252	234
C2t +M	Nm/ rad	1220400	1100079	886939	814746	814746	904127	825059	883501	807870
	Nm/arcmin	355	320	258	237	237	263	240	257	235
I +M	kg.mm ²	3254	2095	1482	876	761	681	642	601	590
I +R	kg.mm ²	11796	10664	7601		1361	1281	1242	1200	1190

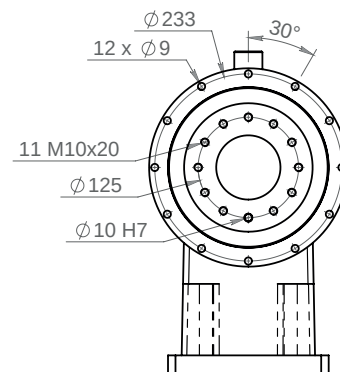
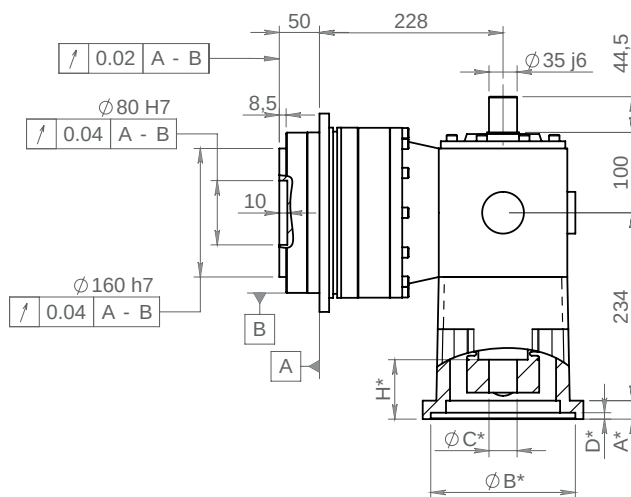
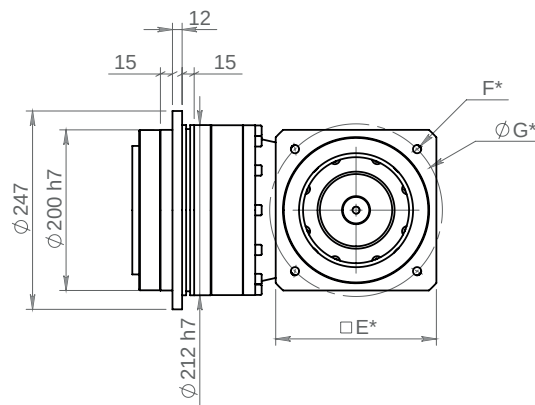
DIMENSIONS - TYPE **M 1** stage



	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 1 stage**

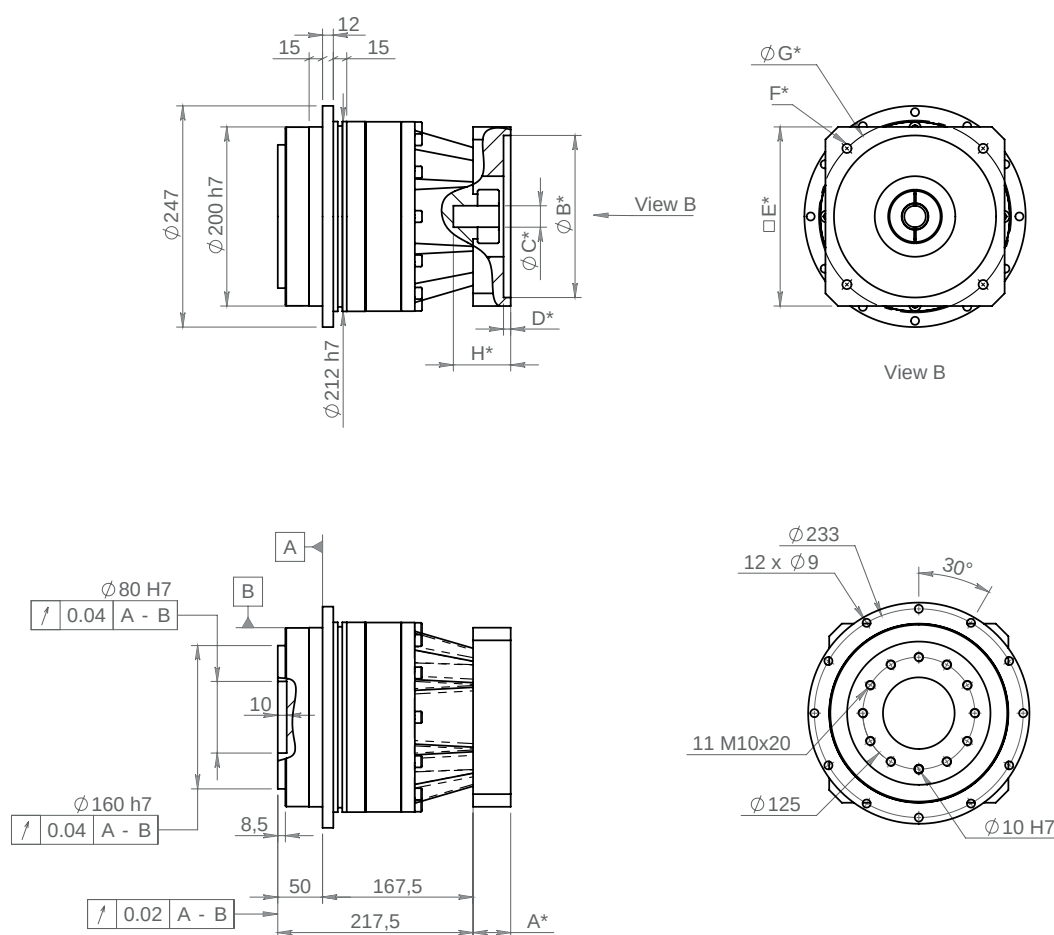


	MF4 200	MF4 260
A	23	23
E	200	260
H	110	110

*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
For accurate selection, contact your local supplier

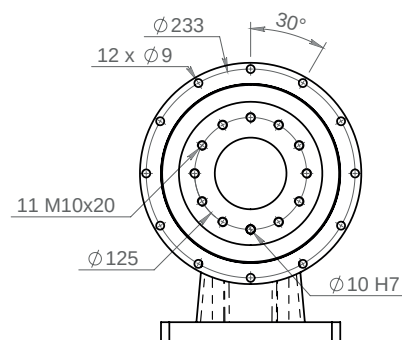
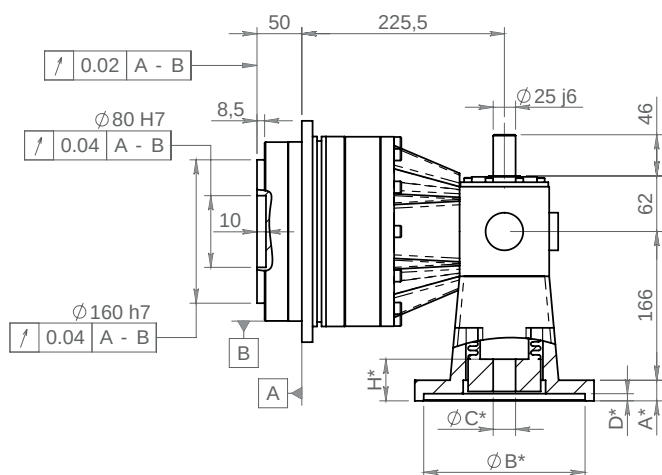
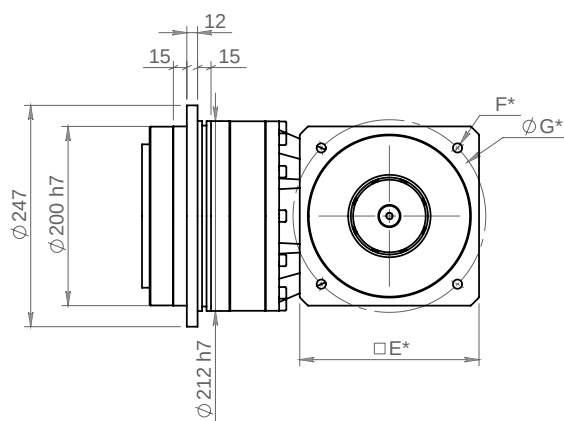
DIMENSIONS - TYPE **M 2** stages



	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 2 stages**



	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
For accurate selection, contact your local supplier

SRP *SIZE 3*



SRP3

Weight

Efficiency

Backlash

Color

Ratio

Nominal output torque

Max. output torque

No load torque

No load torque

E-stop torque

Max. input speed

Nominal input speed

Max tilting moment

Tilting stiffness

Torsional stiffness

Torsional stiffness

Inertia

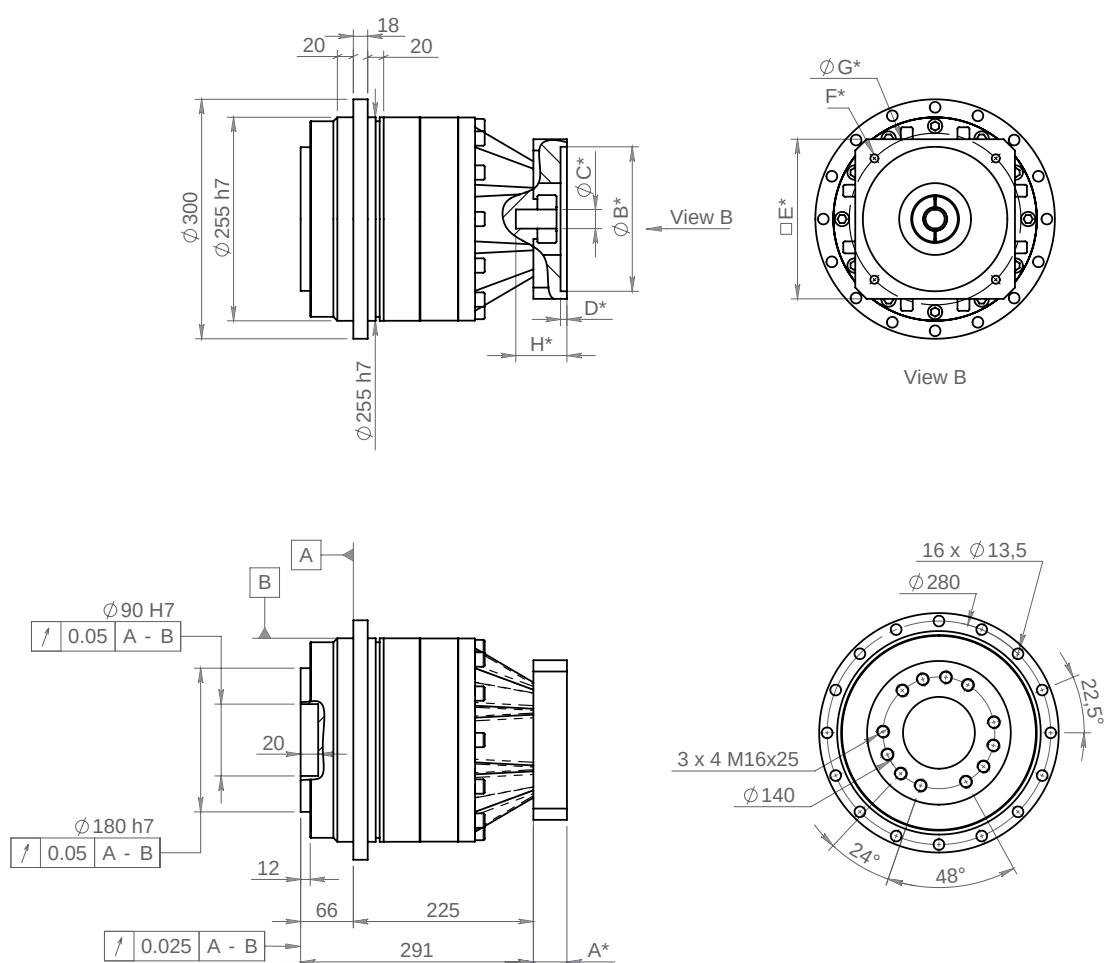
General data

			M	R
m	kg	1 Stage		
		2 Stages	76	83,5
η	%	1 Stage		
		2 Stages	93	91
J	arcmin	Standard	3	4
		Reduced	1	2
RAL2012				

Technical features

		5	7	10	17	21	31	46	61	91
T2N	Nm				1850	1500	2200	1410	1540	1540
T2B	Nm				3238	2625	3850	2468	2695	2695
T01 +R	Nm				2,8	2,8	2,8	2,8	2,8	2,8
T01 +M	Nm				2,5	2,5	2,5	2,5	2,5	2,5
T2NOT	Nm				8750	8750	8750	8750	8750	8750
n1B	rpm				5000	5000	5000	5000	5000	5000
n1N	rpm				1600	1600	1600	1600	1600	1600
T2K	Nm				6790	6790	6790	6790	6790	6790
C2K	Nm/ arcmin				6500	6500	6500	6500	6500	6500
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
I +M	kg.mm ²				1382	1086	888	792	677	652
I +R	kg.mm ²					2644	2445	2349	2235	2209

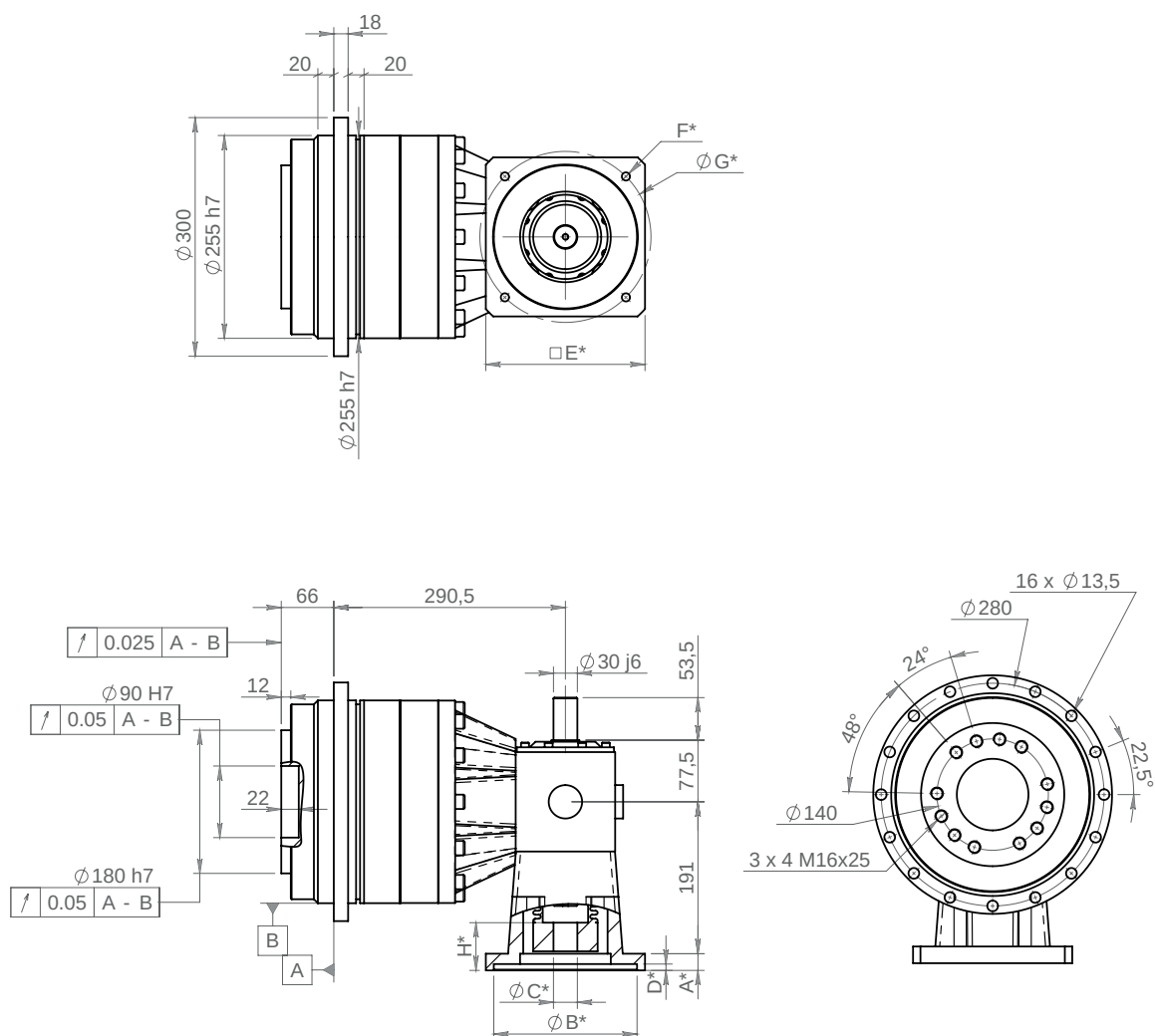
DIMENSIONS - TYPE M



	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
For accurate selection, contact your local supplier

SRP *SIZE 4*



SRP4

Weight

Efficiency

Backlash

Color

Ratio

Nominal output torque

Max. output torque

No load torque

No load torque

E-stop torque

Max. input speed

Nominal input speed

Max tilting moment

Tilting stiffness

Torsional stiffness

Torsional stiffness

Inertia

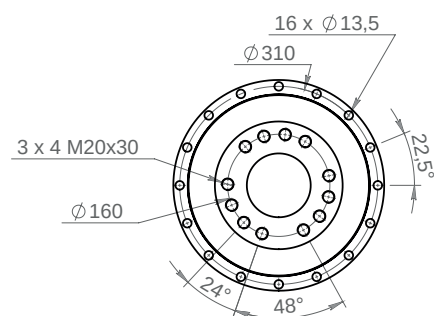
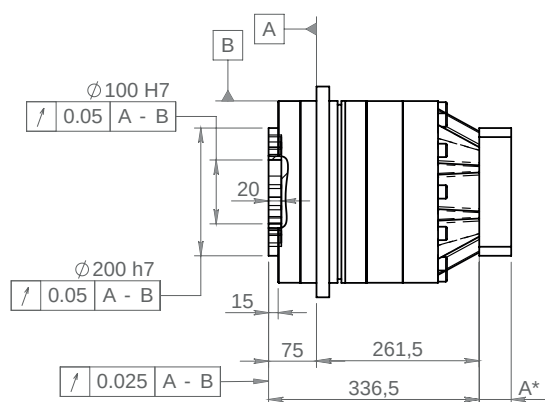
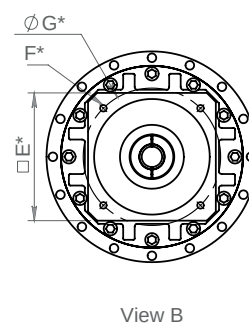
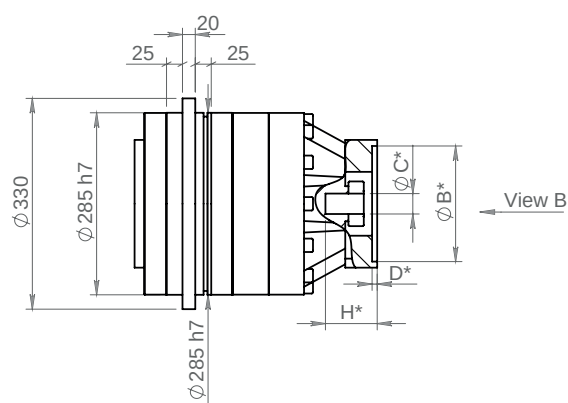
General data

			M	R
m	kg	1 Stage		
		2 Stages	123	144
η	%	1 Stage		
		2 Stages	93	91
J	arcmin	Standard	3	4
		Reduced	1	2
RAL2012				

Technical features

		5	7	10	17	21	31	46	61	91
T2N	Nm				3500	3500	3600	2560	2840	2840
T2B	Nm				6125	6125	6300	4480	4970	4970
T01 +R	Nm				3,6	3,6	3,6	3,6	3,6	3,6
T01 +M	Nm				3	3	3	3	3	3
T2NOT	Nm				15000	15000	15000	15000	15000	15000
n1B	rpm				4000	4000	4000	4000	4000	4000
n1N	rpm				1300	1300	1300	1300	1300	1300
T2K	Nm				10100	10100	10100	10100	10100	10100
C2K	Nm/ arcmin				8700	8700	8700	8700	8700	8700
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
I +M	kg.mm ²				3665	2395	1954	1732	1163	1103
I +R	kg.mm ²					10936	8046	7824	7282	7222

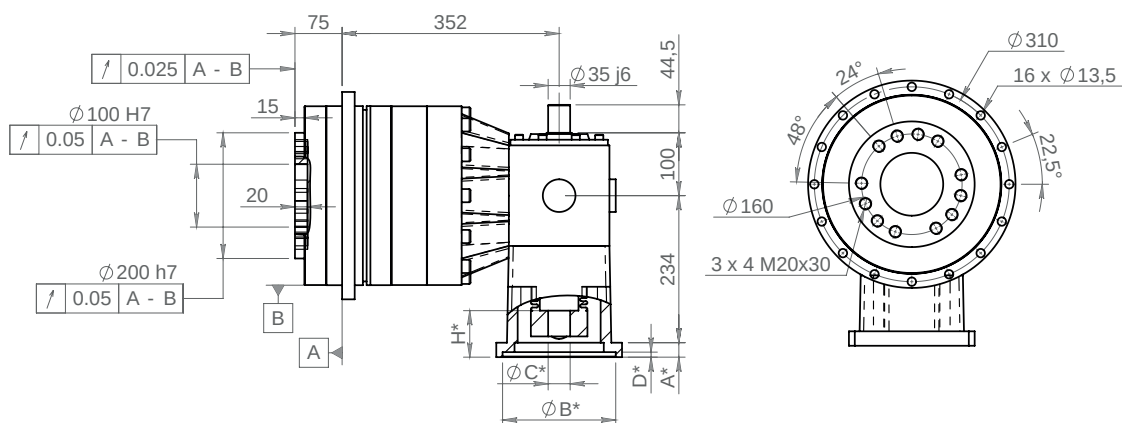
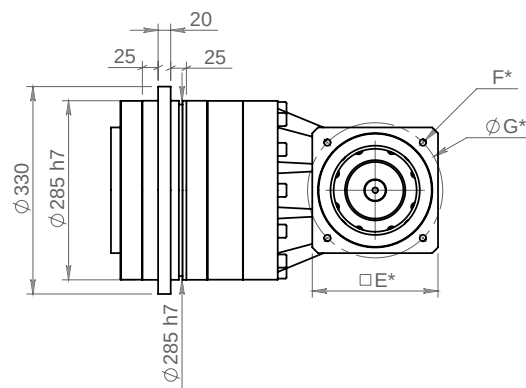
DIMENSIONS - TYPE M



	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
For accurate selection, contact your local supplier

SRP *SIZE 5*



SRP5 - Jumbo

Weight

Efficiency

Backlash

Color

Ratio

Nominal output torque

Max. output torque

No load torque

No load torque

E-stop torque

Max. input speed

Nominal input speed

Max tilting moment

Tilting stiffness

Torsional stiffness

Torsional stiffness

Inertia

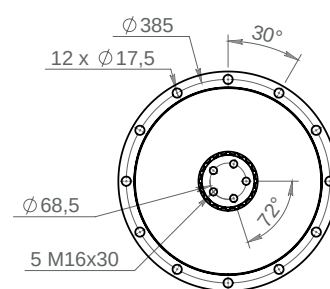
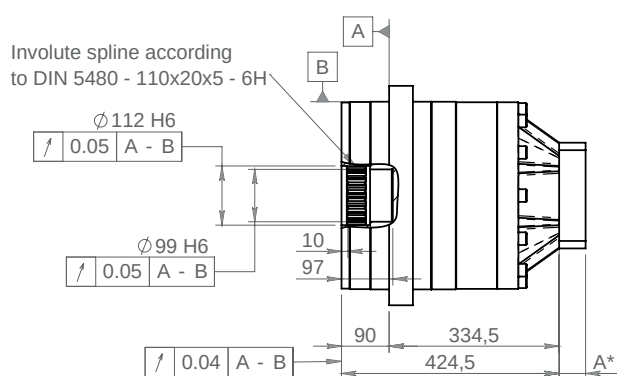
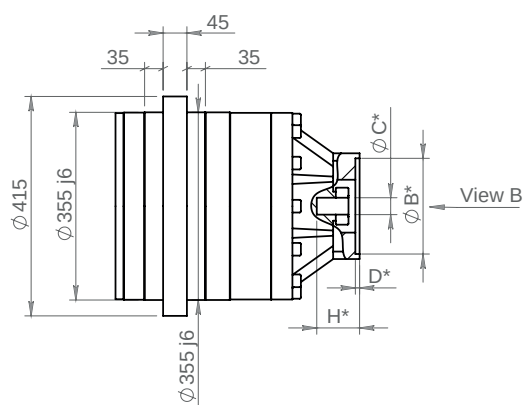
General data

			M	R
m	kg	1 Stage		
		2 Stages	238	530
η	%	1 Stage		
		2 Stages	93	91
J	arcmin	Standard	3	4
		Reduced	1	2
			RAL2012	

Technical features

		5	7	10	17	21	31	46	61	91
T2N	Nm					4700	6700	5500	5500	5500
T2B	Nm					7520	10050	8800	8800	8800
T01 +R	Nm					5,2	5,2	5,2	5,2	5,2
T01 +M	Nm					4,0	4,0	4,0	4,0	4,0
T2NOT	Nm					11500	11500	11500	11500	11500
n1B	rpm					4000	4000	4000	4000	4000
n1N	rpm					1000	1000	1000	1000	1000
T2K	Nm					30000	30000	30000	30000	30000
C2K	Nm/ arcmin					23900	23900	23900	23900	23900
C2t +R	Nm/ rad					1354472	1505733	1423227	1498858	1478231
	Nm/arcmin					394	438	414	436	430
C2t +M	Nm/ rad					4812845	4812845	3781521	4469071	3279610
	Nm/arcmin					1400	1400	1100	1300	954
I +M	kg.mm ²					3176	2323	1905	1259	1147
I +R	kg.mm ²					17900	17048	16629	15995	15884

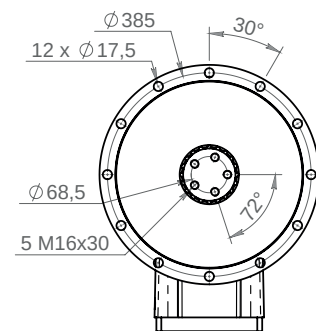
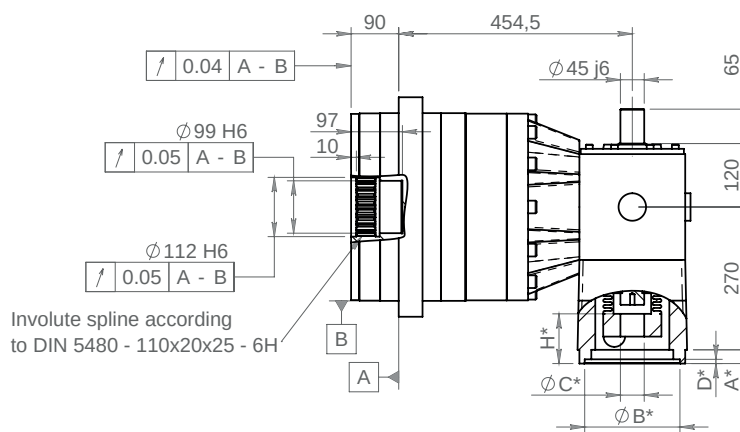
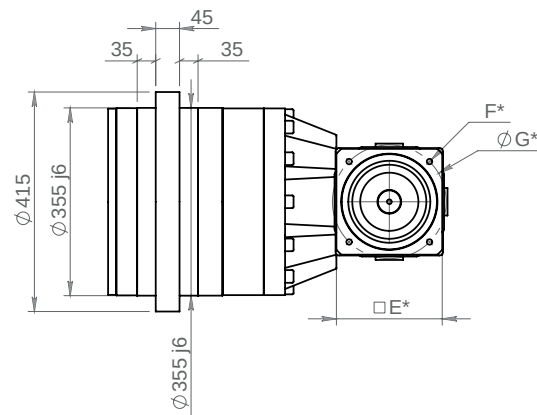
DIMENSIONS - TYPE M



	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

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

SRP *SIZE 6*



SRP6 - Jumbo

Weight

Efficiency

Backlash

Color

Ratio

Nominal output torque

Max. output torque

No load torque

No load torque

E-stop torque

Max. input speed

Nominal input speed

Max tilting moment

Tilting stiffness

Torsional stiffness

Torsional stiffness

Inertia

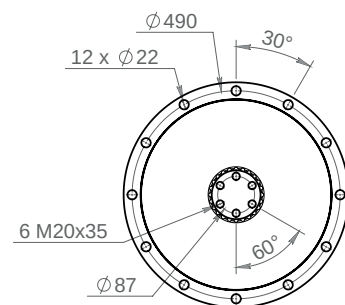
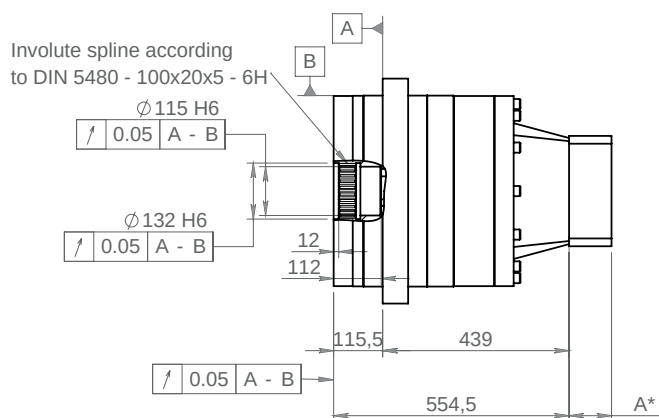
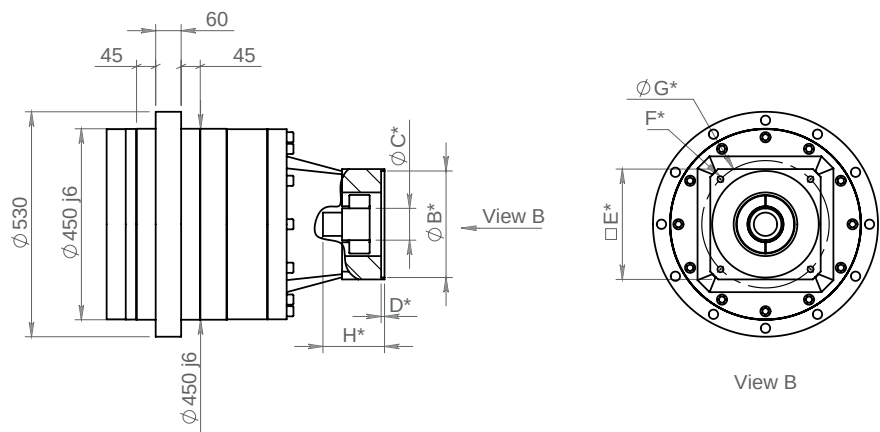
General data

			M	R
m	kg	1 Stage		
		2 Stages	510	635
η	%	1 Stage		
		2 Stages	93	91
J	arcmin	Standard	3	4
		Reduced	1	2
RAL2012				

Technical features

		5	7	10	17	21	31	46	61	91
T2N	Nm					10700	14300	11050	8600	11050
T2B	Nm					16585	18590	17128	13330	17128
T01 +R	Nm					6,0	6,0	6,0	6,0	6,0
T01 +M	Nm					5,5	5,5	5,5	5,5	5,5
T2NOT	Nm					19060	19060	19060	19060	19060
n1B	rpm					3500	3500	3500	3500	3500
n1N	rpm					800	800	800	800	800
T2K	Nm					48000	48000	48000	48000	48000
C2K	Nm/ arcmin					39140	39140	39140	39140	39140
C2t +R	Nm/ rad					2475178	2471740	2289539	2444238	2382359
	Nm/arcmin					720	719	666	711	693
C2t +M	Nm/ rad					6517968	5923238	3781521	4469071	3279610
	Nm/arcmin					1896	1723	1100	1300	954
I +M	kg.mm ²					15566	12770	11391	9645	9279
I +R	kg.mm ²					47775	44978	43599	41881	41515

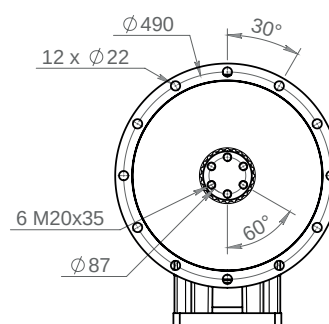
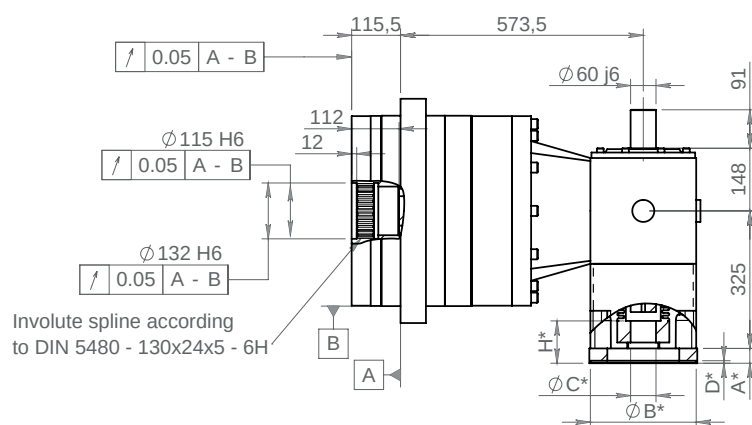
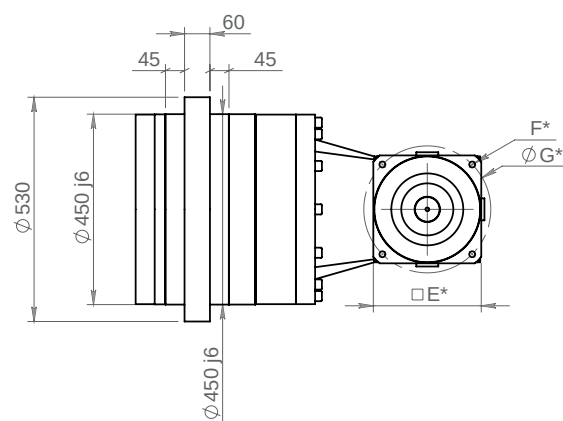
DIMENSIONS - TYPE M



	IFD 260 35/48	IFD 260 48/55	IFD 260 60/75
A	71	105	105
E	260	260	260
H	125	159	149

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

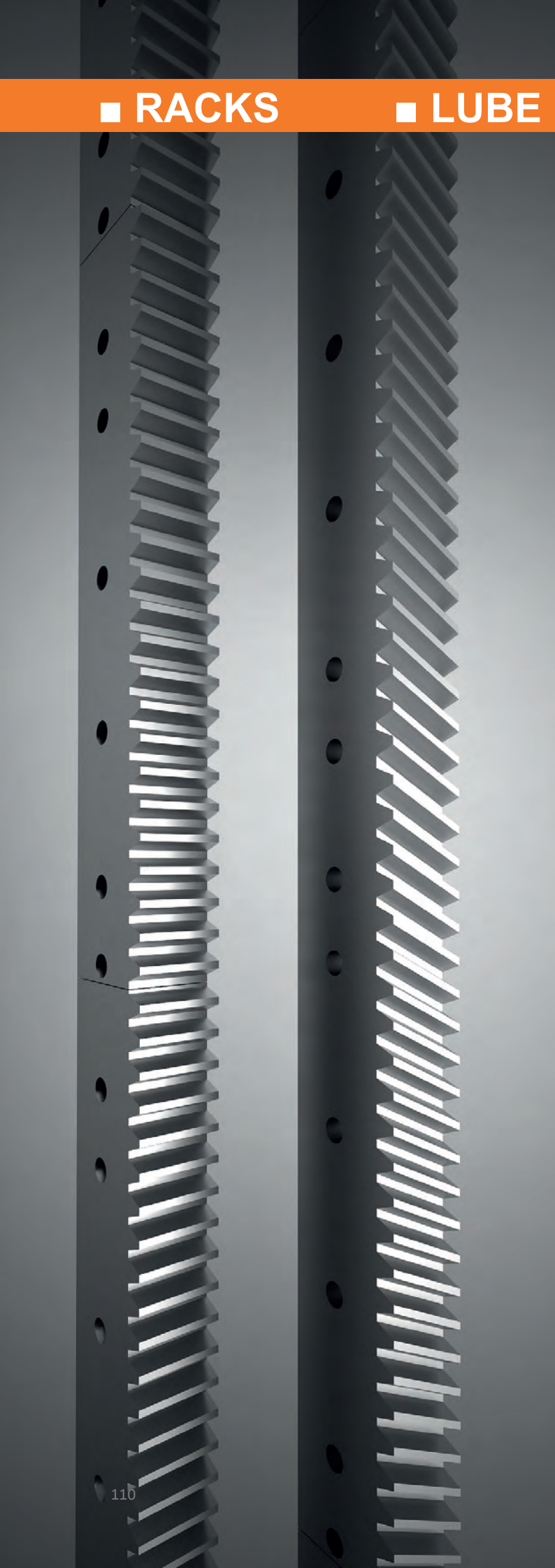
DIMENSIONS - TYPE R



MFRP6 260	
A	35
E	260
H	120

*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
For accurate selection, contact your local supplier



■ RACKS

■ LUBE

GLOBAL SOLUTION PROVIDER

REDEX provides one stop solutions through partnerships with European leaders: high precision racks, high-speed lube systems, couplings, pinions and much more. In addition to its own deep engineering expertise, these sophisticated Mechatronics systems allow machine builders to get access to risk free forefront technologies.

- Rack and pinion zero backlash electrical or mechanical preload available
- Complete library of accessories available: pinions, precision racks, ballscrew coupling, split pinion, lube system.
- 100% compliant with machine-tool quality manufacturing and testing standards

Through special partnership with

GÜDEL

Further **information & calculation tools** available on request.



www.my-redex.com

Range Summary

High-tech Planetary Gearheads + high precision Racks

Precision **racks** purpose is to convert a pinion rotation to its exact equivalence in linear movement. For machine-tool engineering, the linear motion must be controlled within a few microns.

To conquer this technological challenge, REDEX global solution includes the combination of high-tech dedicated planetary gearheads (integral output pinions), and high precision racks (machine-tool quality manufacturing).

An outstanding combination of high stiffness and high accuracy, which leads naturally to the top quality features requested by the highest dynamic drives systems for machines axis: accuracy, reliability, energy efficiency (eco-design), and long service life.

Lube System - The turnkey and fully configurable solution

The FlexxPump integrated system is the ultimate solution to enable electronic control of the **Racks & Pinions Drives lubrication**. It allows a complete integration of the lubrication output control in the main automation system of the machine.

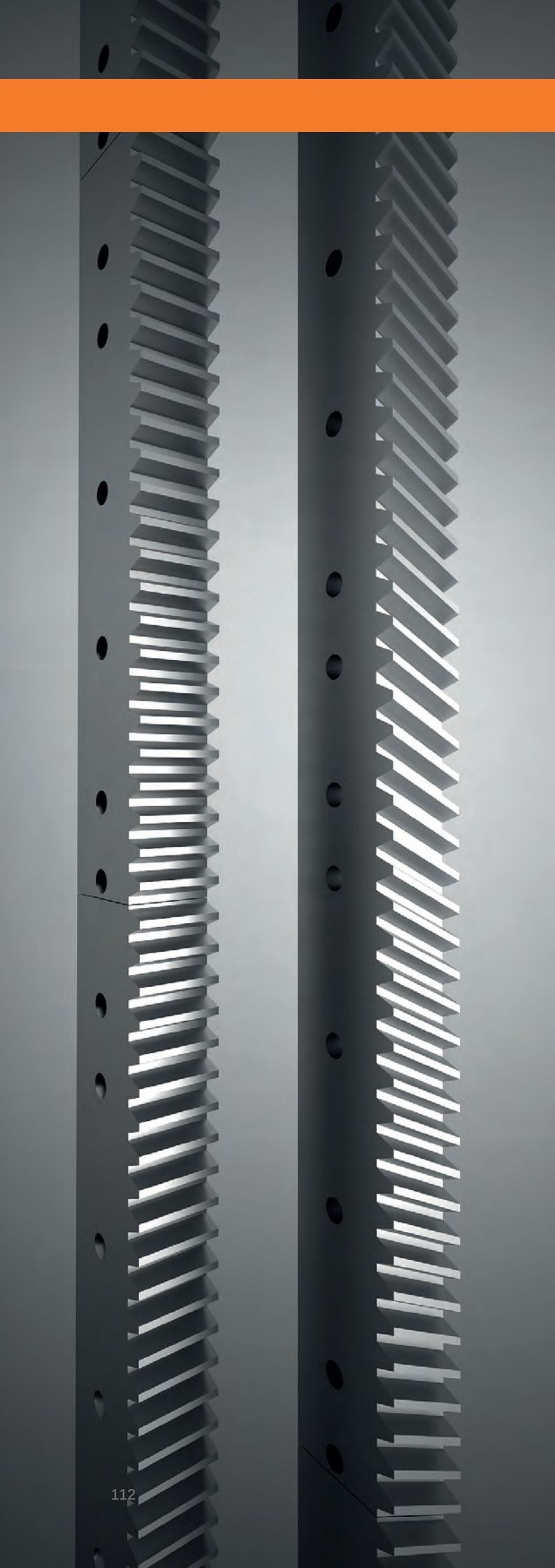
Their advanced piston pump technology allows the FlexxPump to convey the lubricant (oil or grease to NLG 3) with a pressure of up to 70 bar at the lubrication point, with the the main benefit to allow the mounting of the pump far from the lubrication point(s).

The easy change of the grease container and clean refilling of the oil makes this lubrication system not only user-friendly, but also eco-friendly.

The innovative felt pinions and their customized fixing arrangement enable this lube system to be an integrated part of the Rack & Pinion Drive's complete offer from REDEX

RACKS

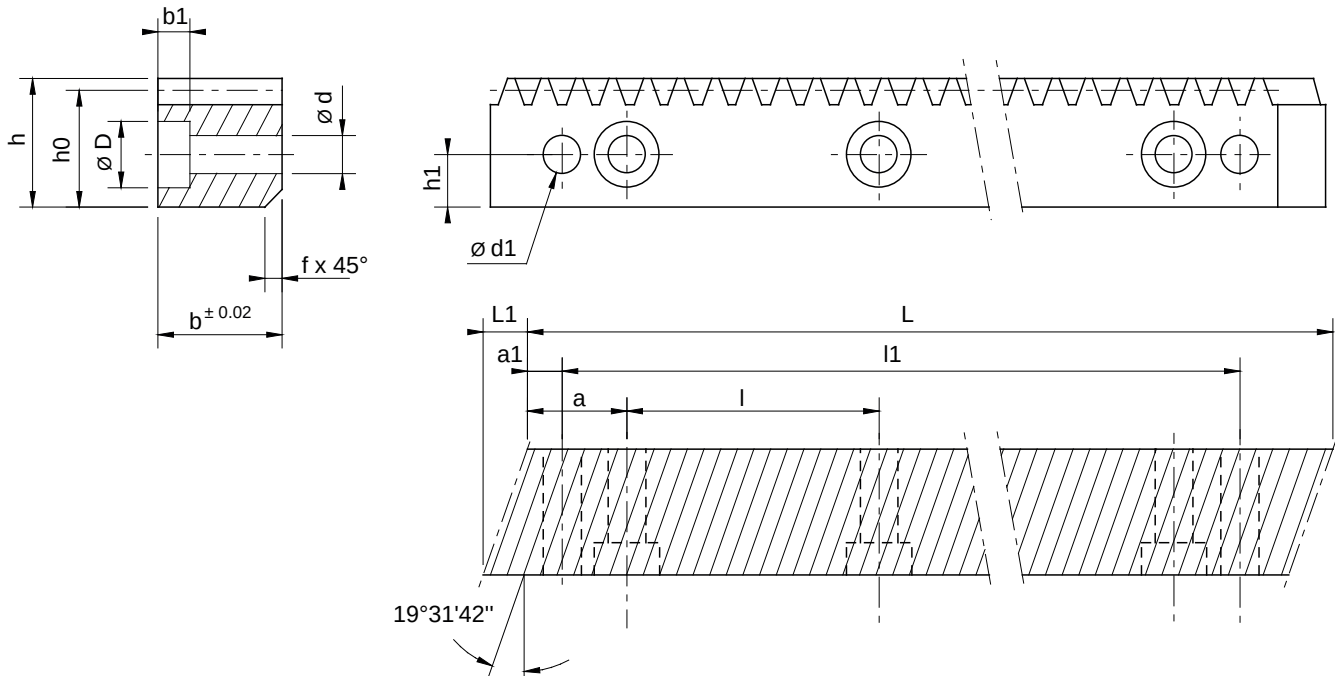
LUBE



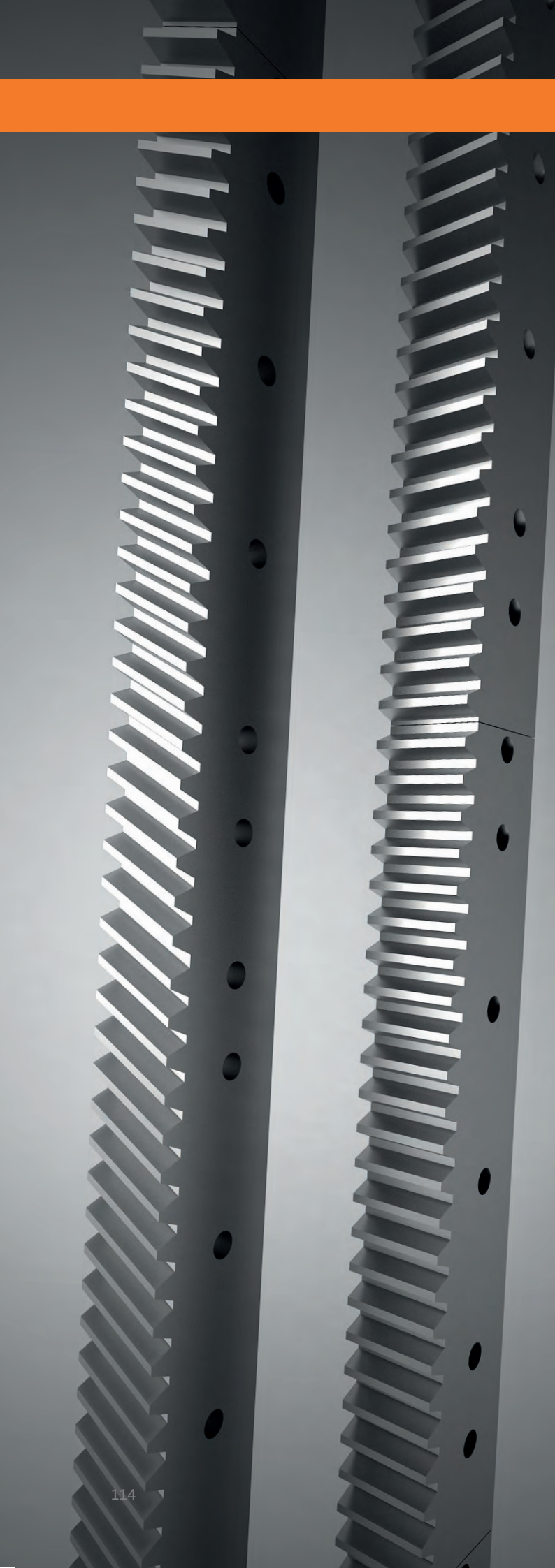
RACKS / Helical tooth

Material	Standard C45E DIN 1.1191 Reinforced 16MnCr5
Profile	All faces hardened and ground
Teeth	20° pressure angle
Quality	6 h 23 (DIN 3962 / 63 /67 Hardened and Ground
Adjacent pitch error	0.008 mm (0.006 for Module 3)
Tolerance of cut	Pf : - 0.05 / -0.20 for continuous mounting
Cumulative pitch error	See the table below. Fp is the max cumulative pitch error for the corresponding rack length

Companion rack for assembly available
Helical tooth racks without holes available
Consult your local supplier



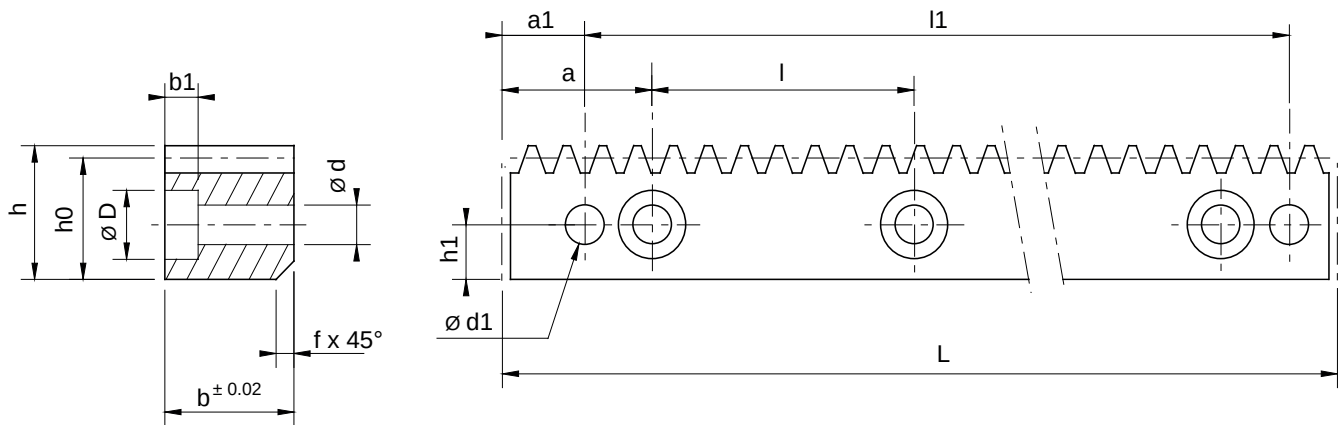
Modul	pt	L	L1	z	b	h	h0	f+0.5	a	l	h1	d	D	b1	a1	l1	d1	FpL	m(kg)	Part N#
3.0	10.00	500.00	10.3	50	29	29	26.00 0/-034	2	62.5	125.00	9	10	15	9	35.0	430.0	7.7	0.028	3.0	246 042
	10.00	1000.00	10.3	100	29	29	26.00 0/-034	2	62.5	125.00	9	10	15	9	35.0	930.0	7.7	0.037	5.9	246 043
	10.00	2000.00	10.3	200	29	29	26.00 0/-034	2	62.5	125.00	9	10	15	9	35.0	1930.0	7.7	0.054	11.2	246 044
4.0	13.33	506.67	13.8	38	39	39	35.00 0/-034	3	62.5	125.00	12	10	15	9	33.3	433.0	7.7	0.030	5.4	246 052
	13.33	1000.00	13.8	75	39	39	35.00 0/-034	3	62.5	125.00	12	10	15	9	33.3	933.4	7.7	0.036	10.7	246 053
	13.33	2000.00	13.8	150	39	39	35.00 0/-034	3	62.5	125.00	12	10	15	9	33.3	1933.4	7.7	0.050	20.5	246 054
5.0	16.67	500.00	17.4	30	49	39	34.00 0/-034	3	62.5	125.00	12	14	20	13	37.5	425.0	11.7	0.028	6.5	246 062
	16.67	1000.00	17.4	60	49	39	34.00 0/-034	3	62.5	125.00	12	14	20	13	37.5	925.0	11.7	0.034	13.1	246 063
	16.66	2000.00	17.4	120	49	39	34.00 0/-034	3	62.5	125.00	12	14	20	13	37.5	1925.0	11.7	0.045	24.5	246 064
6.0	20.00	500.00	20.9	25	59	49	43.00 0/-041	3	62.5	125.00	16	18	26	17	37.5	425.0	15.7	0.031	10.0	246 072
	20.00	1000.00	20.9	50	59	49	43.00 0/-041	3	62.5	125.00	16	18	26	17	37.5	925.0	15.7	0.036	19.9	246 073
	20.00	2000.00	20.9	100	59	49	43.00 0/-041	3	62.5	125.00	16	18	26	17	37.5	1925.0	15.7	0.046	36.5	246 074
8.0	26.66	480.00	28.0	18	79	79	71.00 0/-041	3	60.0	120.00	25	22	33	21	120.0	240	19.7	0.029	22.0	246 082
	26.66	960.00	28.0	36	79	79	71.00 0/-041	3	60.0	120.00	25	22	33	21	120.0	720	19.7	0.033	44.0	246 083
	26.66	1920.00	28.0	72	79	79	71.00 0/-041	3	60.0	120.00	25	22	33	21	120.0	1680	19.7	0.040	78.0	246 084
10.0	33.33	500.00	35.1	15	99	99	89.00 0/-041	3	62.5	125.00	32	33	48	32	120.0	250	19.7	0.029	34.0	246 092
	33.33	1000.00	35.1	30	99	99	89.00 0/-041	3	62.5	125.00	32	33	48	32	120.0	750	19.7	0.032	68.0	246 093



RACKS / Straight tooth

Material	Standard C45E DIN 1.1191 Reinforced 16MnCr5
Profile	All faces hardened and ground
Teeth	20° pressure angle
Quality	6 h 23 (DIN 3962 / 63 /67 Hardened and Ground
Adjacent pitch error	0.008 mm (0.006 for Module 3)
Tolerance of cut	Pf : - 0.05 / -0.20 for continuous mounting
Cumulative pitch error	See the table below. Fp is the max cumulative pitch error for the corresponding rack length

Companion rack for assembly available
Straight tooth racks without holes available
Consult your local supplier



Modul	p	L	z	b	h	h0	f+0.5	a	l	h1	d	D	b1	a1	l1	d1	FpL	m(kg)	Part N#
3.0	9.425	508.94	54	29	29	26.00 0/-034	2	63.62	127.23	9	10	15	9	34.4	440.1	7.7	0.029	3.0	240042
3.0	9.425	1017.88	108	29	29	26.00 0/-034	2	63.62	127.23	9	10	15	9	34.4	949.1	7.7	0.037	6.0	240043
3.0	9.425	2035.75	216	29	29	26.00 0/-034	2	63.62	127.23	9	10	15	9	34.4	1967.0	7.7	0.055	11.5	240044
4.0	12.566	502.65	40	39	39	35.00 0/-034	2	62.83	125.66	12	10	15	9	37.5	427.7	7.7	0.030	5.4	240052
4.0	12.566	1005.31	80	39	39	35.00 0/-034	2	62.83	125.66	12	10	15	9	37.5	930.3	7.7	0.037	10.8	240053
4.0	12.566	2010.62	160	39	39	35.00 0/-034	2	62.83	125.66	12	10	15	9	37.5	1935.6	7.7	0.050	21.0	240054
5.0	15.708	502.65	32	49	39	34.00 0/-034	3	62.83	125.66	12	14	20	13	30.2	442.3	11.7	0.028	6.6	240062
5.0	15.708	1005.31	64	49	39	34.00 0/-034	3	62.83	125.66	12	14	20	13	30.2	944.9	11.7	0.034	13.1	240063
5.0	15.708	2010.62	128	49	39	34.00 0/-034	3	62.83	125.66	12	14	20	13	30.2	1950.2	11.7	0.045	24.7	240064
6.0	18.850	508.94	27	59	49	43.00 0/-041	3	63.62	127.23	16	18	26	17	31.4	446.1	15.7	0.031	10.1	240072
6.0	18.850	1017.88	54	59	49	43.00 0/-041	3	63.62	127.23	16	18	26	17	31.4	955.0	15.7	0.036	20.3	240073
6.0	18.850	2035.75	108	59	49	43.00 0/-041	3	63.62	127.23	16	18	26	17	31.4	1973.0	15.7	0.047	37.5	240074
8.0	25.133	502.65	20	79	79	71.00 0/-041	3	62.83	125.66	25	22	33	21	26.7	449.3	19.7	0.029	22.1	240082
8.0	25.133	1005.31	40	79	79	71.00 0/-041	3	62.83	125.66	25	22	33	21	26.7	952.0	19.7	0.033	44.3	240083
8.0	25.133	2010.62	80	79	79	71.00 0/-041	3	62.83	125.66	25	22	33	21	26.7	1957.3	19.7	0.041	82.5	240084
10.0	31.416	502.65	16	99	99	89.00 0/-041	3	62.83	125.66	32	33	48	32	125.2	252.3	19.7	0.029	34.8	240092
10.0	31.416	1005.31	32	99	99	89.00 0/-041	3	62.83	125.66	32	33	48	32	125.2	755.0	19.7	0.032	69.5	240093

LUBE SYSTEMS

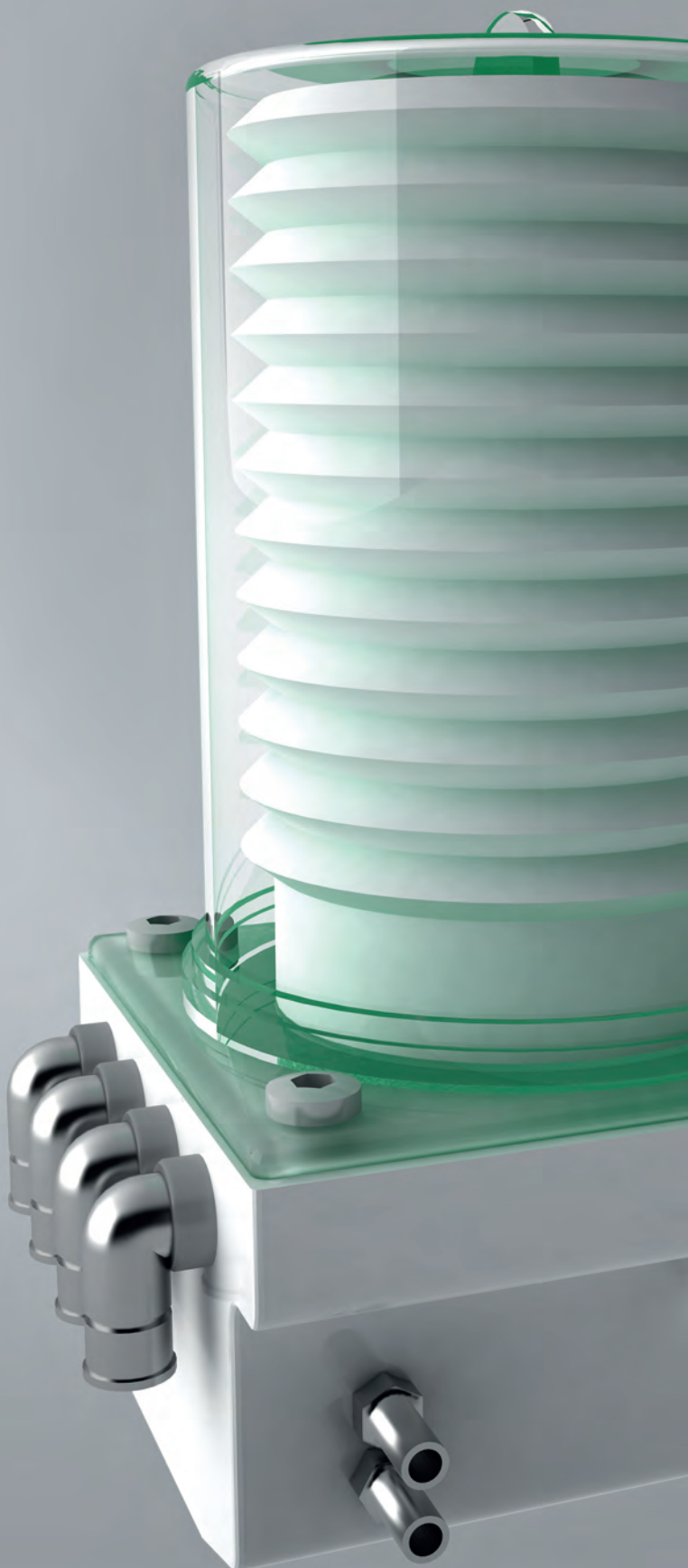
PLC controlled lubrication system for Rack & Pinion Drives

Flexxpump is a high performance automatic system to automatically lubricate racks and pinions drive systems. Very compact, this automatic relubrication unit is based on a high pressure piston pump (up to 70 Bars) with programmable frequency and delivery rate.

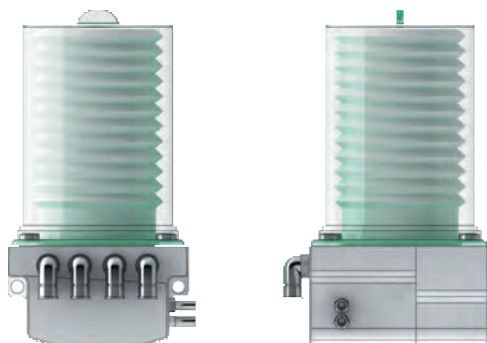
The pumps deliver grease or oil to the rack through tubing and open cellular polyurethane (P.U.) foam applicators (pinion shaped, according to the rack in use).

- Includes up to 4 outlets for multi-point lubrication
- Power by internal battery or 24V DC supply
- Remote operation monitoring and setup available through data exchange connector

Polyurethane Foam Applicators, Tubing, Fittings and Tools. All interconnecting components available to provide complete automatic lube system.

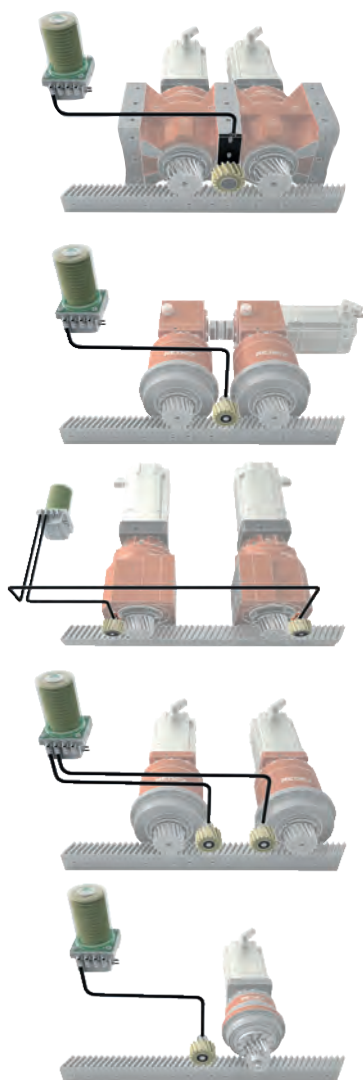


General data



Design principle	-	piston pump
Volume of storage	cm ³	400 (grease in a cartridge)
Lubricant	-	grease up to NLGI. 3
Delivery rate per pulse	cm ³	0,15
Number of outlets	-	max. 4 (right angle, orientable)
Operating voltage	V DC	24
Operating current	mAmp	max = 350 / typical: 200
Lube-connection	-	high pressure tube 6x4
Operating pressure	bar (psi)	max. 70 (1000)
Operating temperature	°C	-25 ... +70
Pressure monitoring	-	integrated, (electronic monitoring)
Level monitoring	-	integrated (reed-contact)
Protection class	-	IP 65
Dimensions (max)	mm	Width 112 x Height 196 x Deep 94
Weight, without lubricant	g	1120

Configurations



Lube system	Pinion (lube)	Pinion support
LSRP.I	PGRP	SFRP
LSRP.I	PGRP	SURP
LSRP.II	PGRP (2x)	SFRPX (2x)
LSRP.II	PGRP (2x)	SURP (2x)
LSRP.I	PGRP	SURP







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