

# KRPX SIZE 1



KRPX1	
Weight	
Efficiency	
Backlash	
Color	

## 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	

Tooth type	
Module	
Helix angle (left)	
Number of teeth	
Pressure angle	
Theoretical pitch diameter	
Addendum modification factor	
Pinion quality grade	
Surface hardness	

## 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
	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			

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	

## Drive linear features

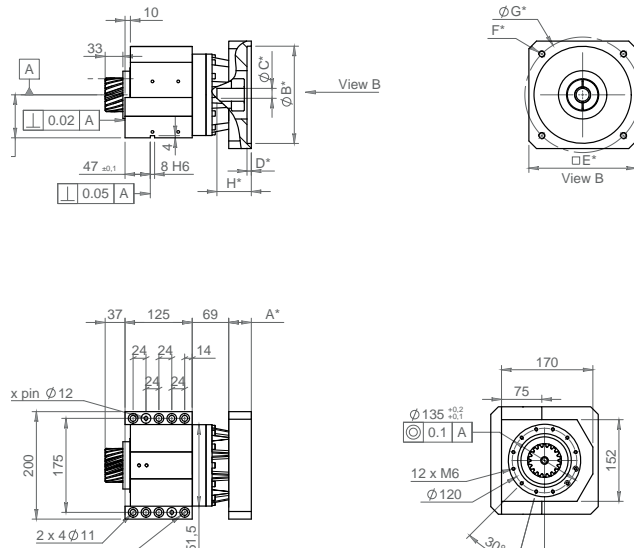
		5	7	10	17	21	31	46	61	91
F2N	N	12914	13264	9424	13613	10646	15009	9424	13089	9424
F2B	N	22618	23211	16510	23839	18639	26283	16510	22897	16510
F2B_max	N	45236	46422	33019	47679	37277	52565	33019	45794	33019
F2NOT	N	29075	29075	29075	29075	29075	29075	29075	29075	29075
V2B	m/min	180	129	90	64	51	35	23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

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	

## 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/μm	480	480	480	480	480	480	480	480	480
K2A	N/μm	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

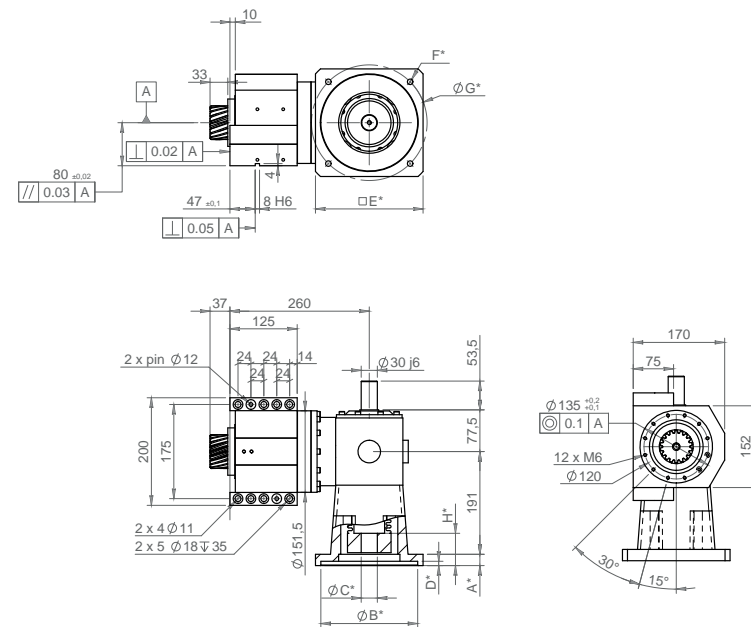
## DIMENSIONS - TYPE M 1 stage



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

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

## DIMENSIONS - TYPE R 1 stage

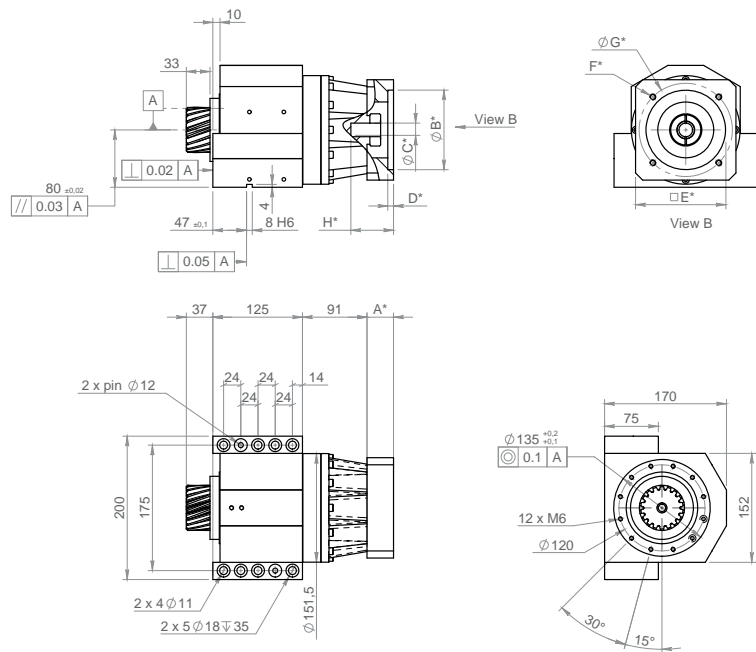


	MF3 140	MF3 200	MF3 260
<b>A</b>	21	21	24
<b>E</b>	140	200	260
<b>H</b>	80	80	83

\*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

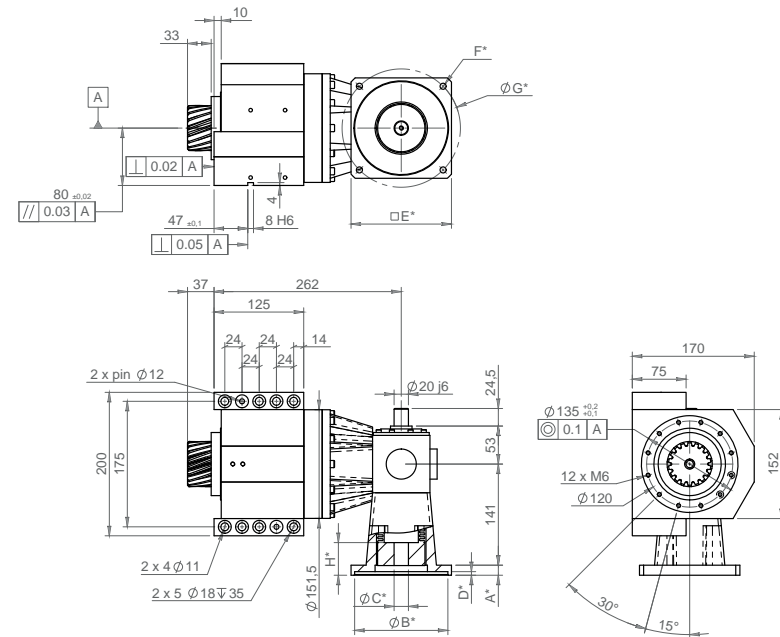
## DIMENSIONS - TYPE M 2 stages



	IFA 100 11/19	IFA 140 11/19	IFA 140 22/32	IFA200 22/32
<b>A</b>	27	27	37	42
<b>E</b>	100	140	140	200
<b>H</b>	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
<b>A</b>	14	14	18
<b>E</b>	100	140	200
<b>H</b>	62	62	66

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

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