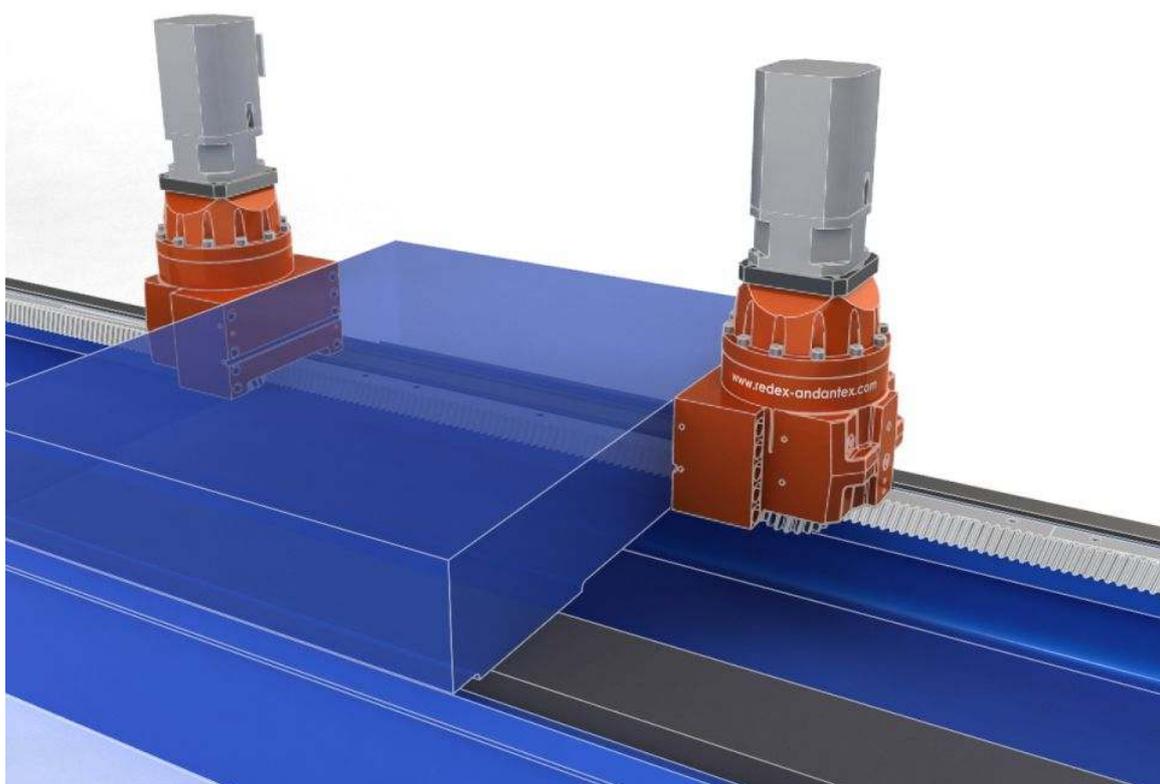


KRPX

Data Sheets



KRPX

Linear axis Drive

The machine frame extension

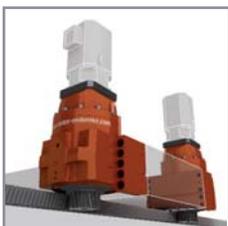
Side mounting in electrical preload : a design and assembly which really pays-off !

KRPX is designed for side mounting providing high stiffness and machine total cost optimization.

- > Smart, cost saving design, easy setting with keyway
- > Zero backlash electrical preload available
- > Stiffness optimized design, ideal for high-dynamic linear servo-axis
- > 100% compliant with machine-tools quality manufacturing and testing standards

> *4 sizes, more than 200 possible configurations*

> *Torque up to 10 000 Nm*



PERFORMANCES

GEARBOX

			Size	1	2	3	4	5	
T2B	Maximum output torque	Nm	i=5	650	1750	-	-	-	
			i=7	665	1750	-	-	-	
			i=10	473	1400	-	-	-	
			i=21	534	1400	2625	6125	7520	
			i=31	753	2100	3850	6300	10050	
			i=46	473	1400	2468	4480	8800	
			i=61	473	1400	2695	4970	8800	
			i=91	473	1400	2695	4970	8800	
T2N	Nominal output torque	Nm	i=5	370	1000	-	-	-	
			i=7	380	1000	-	-	-	
			i=10	270	800	-	-	-	
			i=21	305	800	1500	3500	4700	
			i=31	430	1200	2200	3600	6700	
			i=46	270	800	1410	2560	5500	
			i=61	270	800	1540	2840	5500	
			i=91	270	800	1540	2840	5500	
T2NOT	E. stop torque	Nm	All ratios	833	2750	4950	7600	11500	
T01	No load torque (n1<100rpm)	Nm	+R	1 stage	5.0	7.8	-	-	-
				2 stages	1.5	2.3	2.8	3.6	5.2
			+M	1 stage	4.5	8.0	-	-	-
				2 stages	1.0	2.0	2.5	3.0	4.0
n1B	Max input speed	rpm	1 stage	5000	4000	-	-	-	
			2 stages	6000	6000	5000	4000	4000	
n1N	Nominal input speed	rpm	1 stage	1600	1100	-	-	-	
			2 stages	2600	2100	1600	1300	1000	
C2t	Torsional stiffness	Nm/rad Nm/arcmin	+R	1 stage	350000	904000	-	-	-
				+M	1 stage	530000	1355000	-	-
			all	2 stages	272000	867000	1732000	2476000	3420000
K2R	Radial stiffness	N/μm		480	650	1100	1250	1750	
K2A	Axial stiffness	N/μm		1710	2162	4355	5000	5484	
η	Efficiency	%	+R	1 stage			94		
				2 stages			91		
			+M	1 stage			96		
				2 stages			93		
m	Weight	kg	DRP+R	1 stage	112	201	-	-	-
				2 stages	115	207	300	520	770
			DRP+M	1 stage	106	196	-	-	-
				2 stages	109	202	294	491	720
			KRP+R	1 stage	22	53	-	-	-
				2 stages	24	56	116	200	430
			KRP+M	1 stage	18	46	-	-	-
				2 stages	20	49	103	169	334
			KRPX+R	1 stage		68	-	-	-
				2 stages		71	143	233	
			KRPX+M	1 stage	30	61	-	-	-
				2 stages		64	130	202	

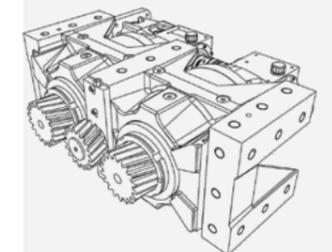
OUTPUT PINION

Z2	Number of teeth	-	Straight	19	19	19	19	16
			Helical	18	18	18	18	15
a	Pressure angle	deg					20°	
b	Helix angle (Left)	deg					19°31'42"	
M0	Module	mm		3	4	5	6	8
D02	Theoretical pitch diameter	mm	Straight	57	76	95	114	128
			Helical	57.30	76.39	95.49	114.59	127.32
x0	Addendum modification factor	-	Straight	0.167	0.686	0.300	0.250	0.311
			Helical	0.118	0.638	0.250	0.201	0.354
info	Pinion quality grade 6 (ISO 1328), surface hardness 61 to 63 HRC							

CODIFICATION

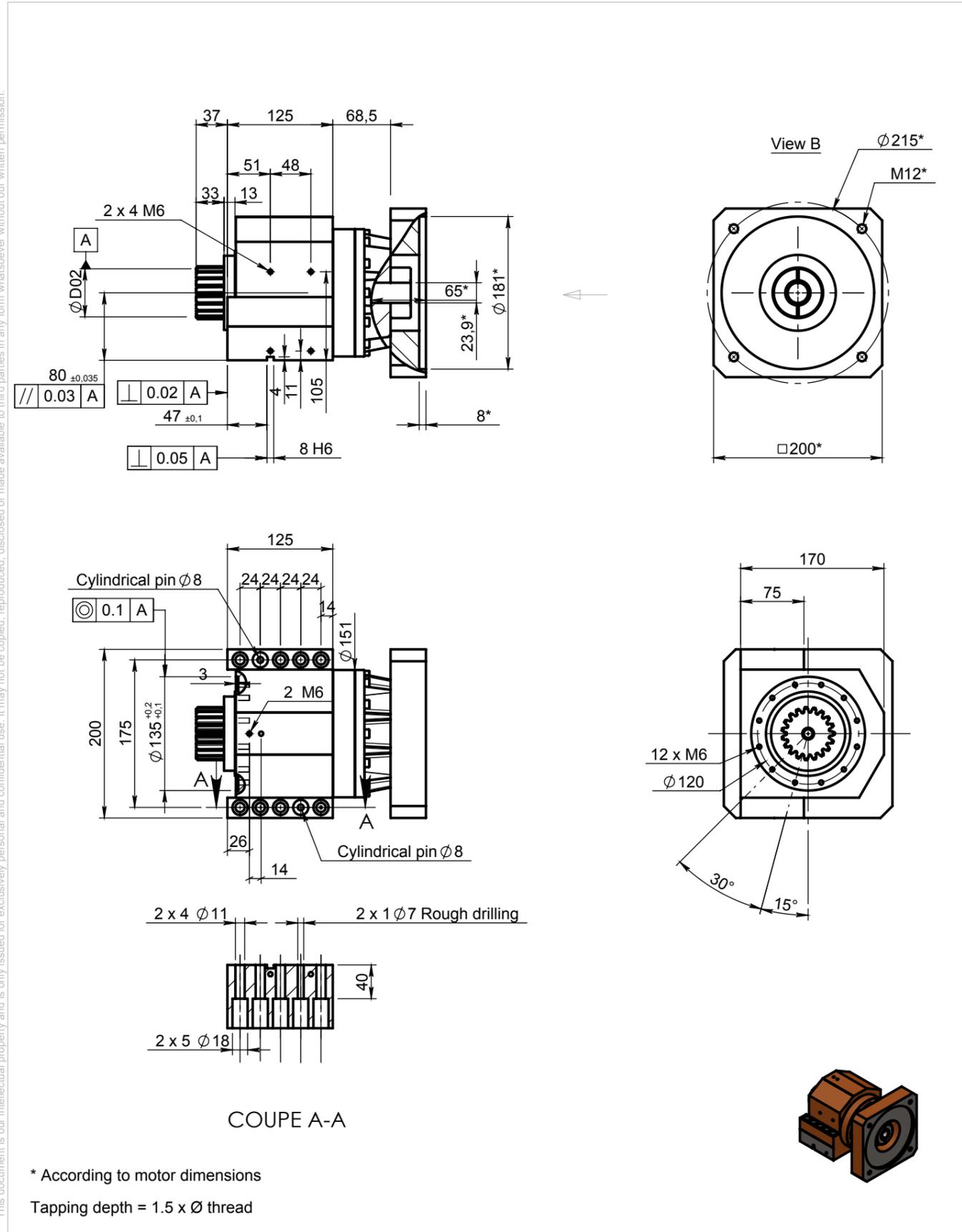
DESIGNATION: TwinDRP4+R.31.4.H

		<i>Options</i>	
Twin	Configuration	Single	1 Single reducer
		Twin	2 reducers electrically plded.
		Dual	2 reducers mechanically preloaded
DRP	Gearbox type	DRP	
		KRP	
		KRPX	
4	Size	1	
		2	
		3	
		4	
		5	
R	Configuration	+R	Motor on the side
		+M	Motor inline
31	Reduction ratio	5	Sizes 1 and 2 only
		7	Sizes 1 and 2 only
		10	Sizes 1 and 2 only
		21	
		31	
		46	
		61	
91			
4	Angular backlash	1 arcmin	Reduced – M version
		2 arcmin	Reduced – R version
		3 arcmin	Standard – M version
		4 arcmin	Standard – R version
H	Output pinion	H	Helical 19°31'42"
		S	Straight



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OUTLINE DIMENSIONS



TECHNICAL FEATURES

PERFORMANCES

Unit codification		Single.KRPX1+M.1stage.S
T2B	Maximum output torque	Nm (i=5) 650 (i=7) 665 (i=10) 473
T2N	Nominal output torque	Nm (i=5) 370 (i=7) 380 (i=10) 270
T2NOT	E-stop torque	Nm 833
n1B	Maximum input speed	RPM 5000
n1N	Nominal input speed	RPM 1600
T01	No load torque (n1<100 RPM)	Nm 4,5
C2t	Torsional stiffness	Nm/rad 530000 Nm/arcmin 154,2
K2R	Radial stiffness	N/µm 480
K2A	Axial stiffness	N/µm 1170
J1	Mass moment of inertia	Kg.mm² 636,1
η	Efficiency at rated input speed	% >96
m	Weight	Kg 30

INTEGRAL OUTPUT PINION

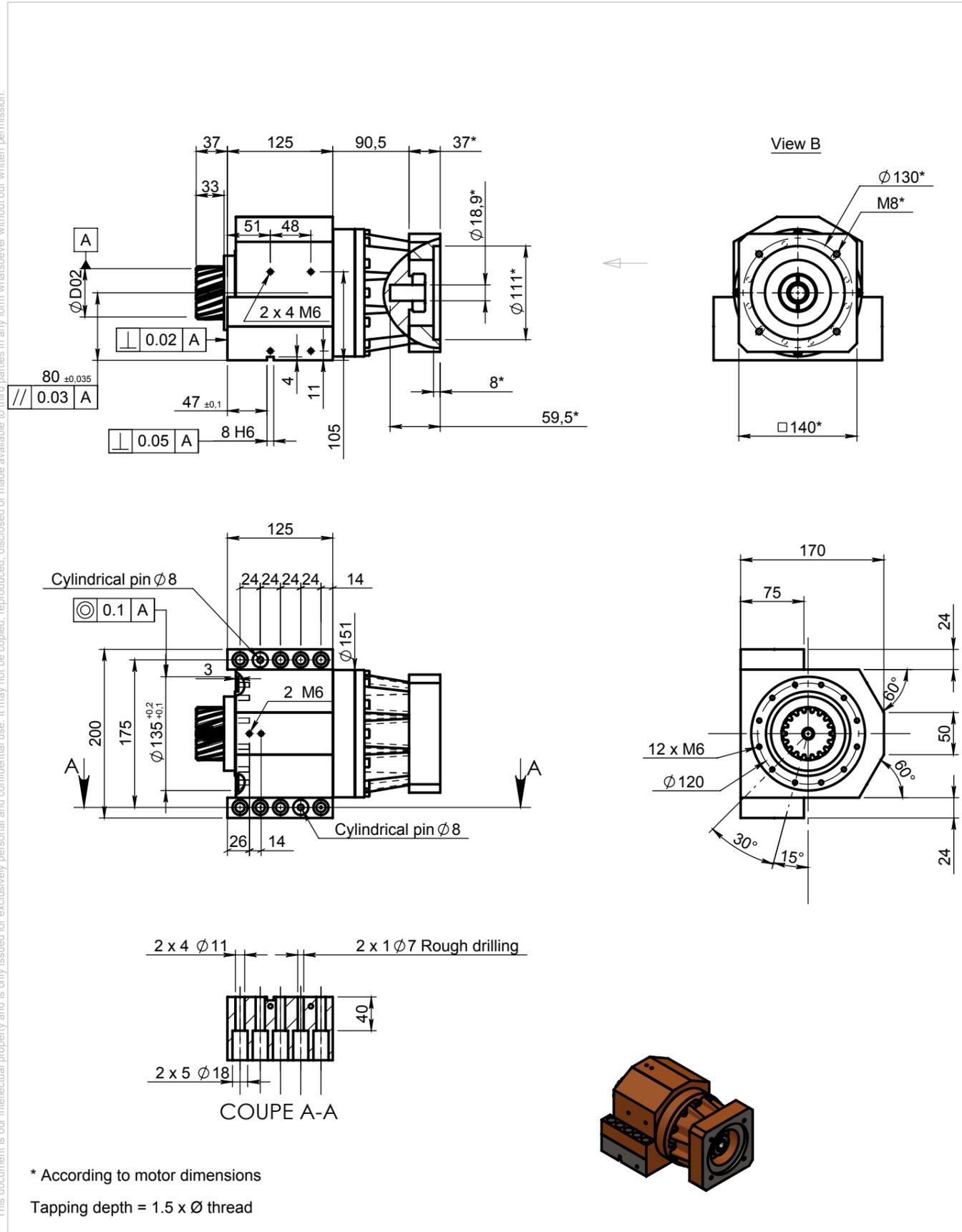
Z2	Number of teeth	19
α	Pressure angle	20°
m0	Module	mm 3
D02	Theoretical Pitch diameter	mm 57
x0	Addendum modification factor	0,167
Pinion quality grade 6 (ISO 1328), surface hardness 61 to 63 HRC		

ADDITIONAL FEATURES

- Splash lubrication with synthetic PAO based oil with viscosity 150Cst at 40°C for all mounting positions (except DRP+R/KRP(X)+R with output pinion up requiring recirculation pump).
- Paint RAL 2002



OUTLINE DIMENSIONS



TECHNICAL FEATURES

PERFORMANCES

Unit codification		Single.KRPX1+M.2stage.H
T2B Maximum output torque	Nm	(i=21) 534 (i=31) 753 (i=46) 473 (i=61) 473 (i=91) 473
T2N Nominal output torque	Nm	(i=21) 305 (i=31) 430 (i=46) 270 (i=61) 270 (i=91) 270
T2NOT E-stop torque	Nm	833
n1B Maximum input speed	RPM	6000
n1N Nominal input speed	RPM	2600
T01 No load torque (n1<100 RPM)	Nm	1
C2t Torsional stiffness	Nm/rad	272000
	Nm/arcmin	79,1
K2R Radial stiffness	N/µm	480
K2A Axial stiffness	N/µm	1170
J1 Mass moment of inertia	Kg.mm²	127
η Efficiency at rated input speed	%	>93
m Weight	Kg	0

INTEGRAL OUTPUT PINION

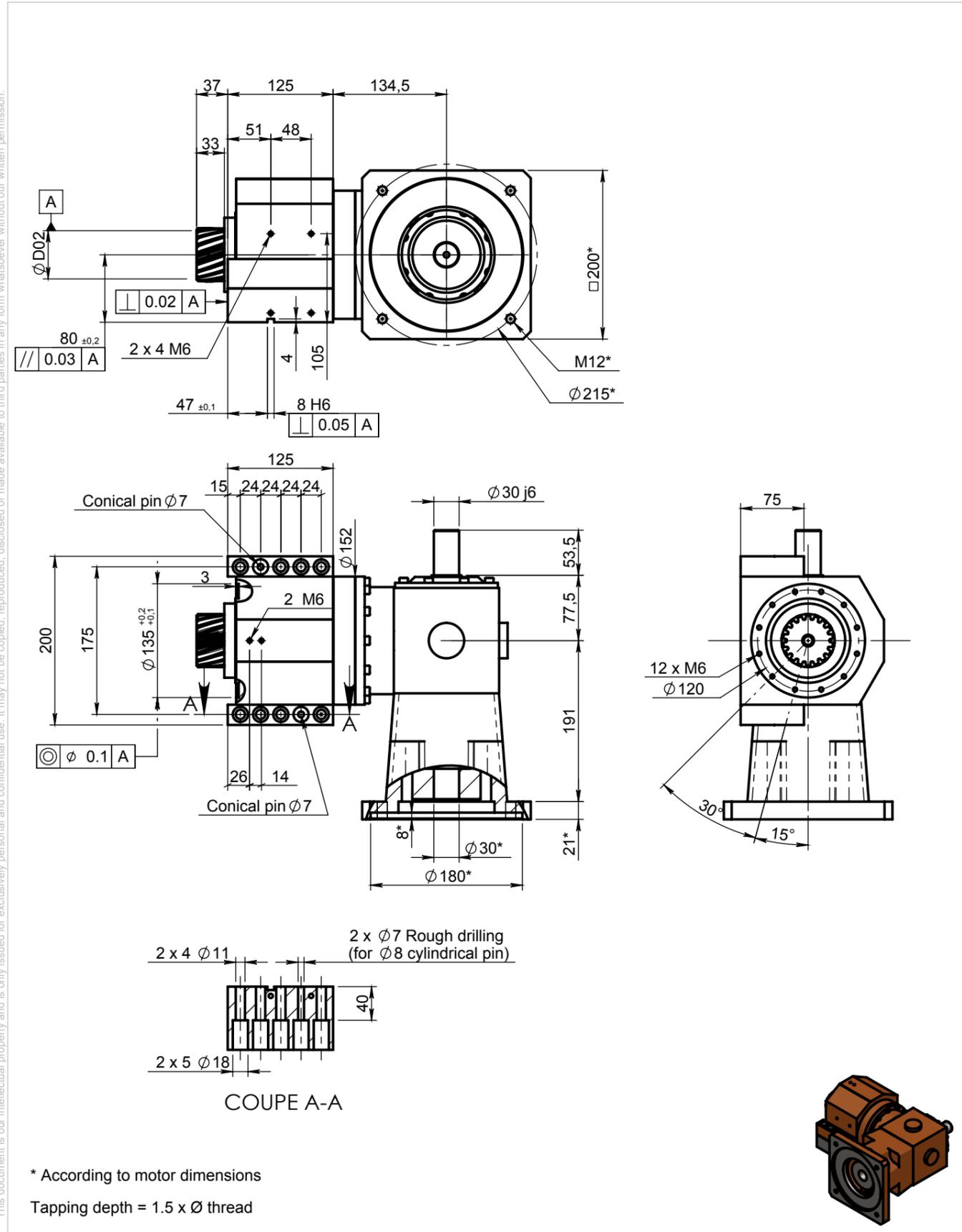
Z2 Number of teeth		18
α Pressure angle		20°
β Helix angle (Left)		19°31'42"
m0 Module	mm	3
D02 Theoretical Pitch diameter	mm	57,3
x0 Addendum modification factor		0,118
Pinion quality grade 6 (ISO 1328), surface hardness 61 to 63 HRC		

ADDITIONAL FEATURES

- Splash lubrication with synthetic PAO based oil with viscosity 150Cst at 40°C for all mounting positions (except DRP+R/KRP(X)+R with output pinion up requiring recirculation pump).
- Paint RAL 2002



OUTLINE DIMENSIONS



TECHNICAL FEATURES

PERFORMANCES

Unit codification		Single.KRPX1+R.1stage.H
T2B	Maximum output torque	Nm (i=5) 650 (i=7) 665 (i=10) 473
T2N	Nominal output torque	Nm (i=5) 370 (i=7) 380 (i=10) 270
T2NOT	E-stop torque	Nm 833
n1B	Maximum input speed	RPM 5000
n1N	Nominal input speed	RPM 1600
T01	No load torque (n1<100 RPM)	Nm 4,8
C2t	Torsional stiffness	Nm/rad 350000 Nm/arcmin 101,8
K2R	Radial stiffness	N/µm 480
K2A	Axial stiffness	N/µm 1170
J1	Mass moment of inertia	Kg.mm² 1433
η	Efficiency at rated input speed	% >94
m	Weight	Kg 0

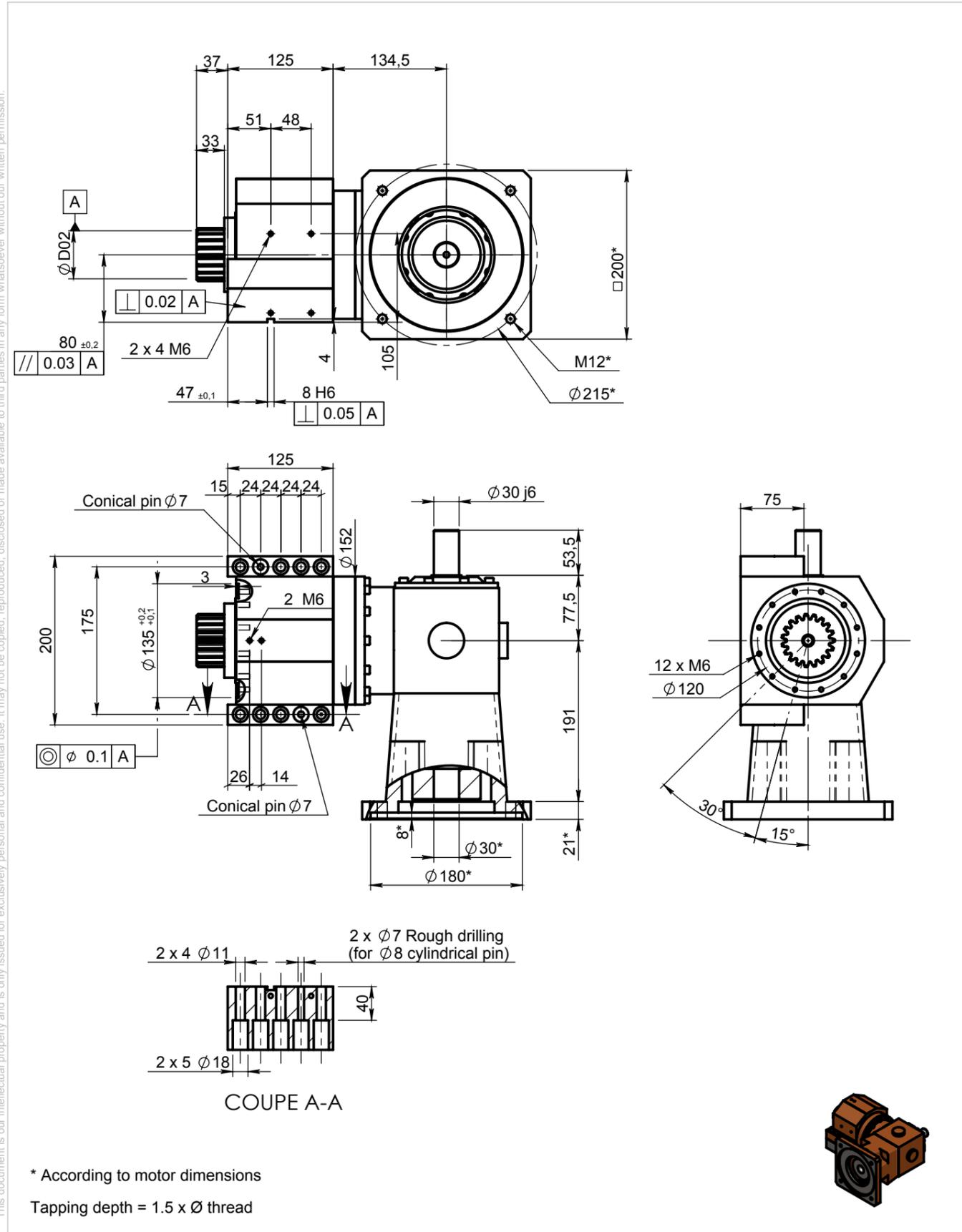
INTEGRAL OUTPUT PINION

Z2	Number of teeth	18
α	Pressure angle	20°
β	Helix angle (Left)	19°31'42"
m0	Module	mm 3
D02	Theoretical Pitch diameter	mm 57,3
x0	Addendum modification factor	0,118
Pinion quality grade 6 (ISO 1328), surface hardness 61 to 63 HRC		

ADDITIONAL FEATURES

- Splash lubrication with synthetic PAO based oil with viscosity 150Cst at 40°C for all mounting positions (except DRP+R/KRP(X)+R with output pinion up requiring recirculation pump).
- Paint RAL 2002

OUTLINE DIMENSIONS



TECHNICAL FEATURES

PERFORMANCES

Unit codification		Single.KRPX1+R.1stage.S
T2B	Maximum output torque	Nm (i=5) 650 (i=7) 665 (i=10) 473
T2N	Nominal output torque	Nm (i=5) 370 (i=7) 380 (i=10) 270
T2NOT	E-stop torque	Nm 833
n1B	Maximum input speed	RPM 5000
n1N	Nominal input speed	RPM 1600
T01	No load torque (n1<100 RPM)	Nm 4,8
C2t	Torsional stiffness	Nm/rad 350000 Nm/arcmin 101,8
K2R	Radial stiffness	N/µm 480
K2A	Axial stiffness	N/µm 1170
J1	Mass moment of inertia	Kg.mm² 1433
η	Efficiency at rated input speed	% >94
m	Weight	Kg 0

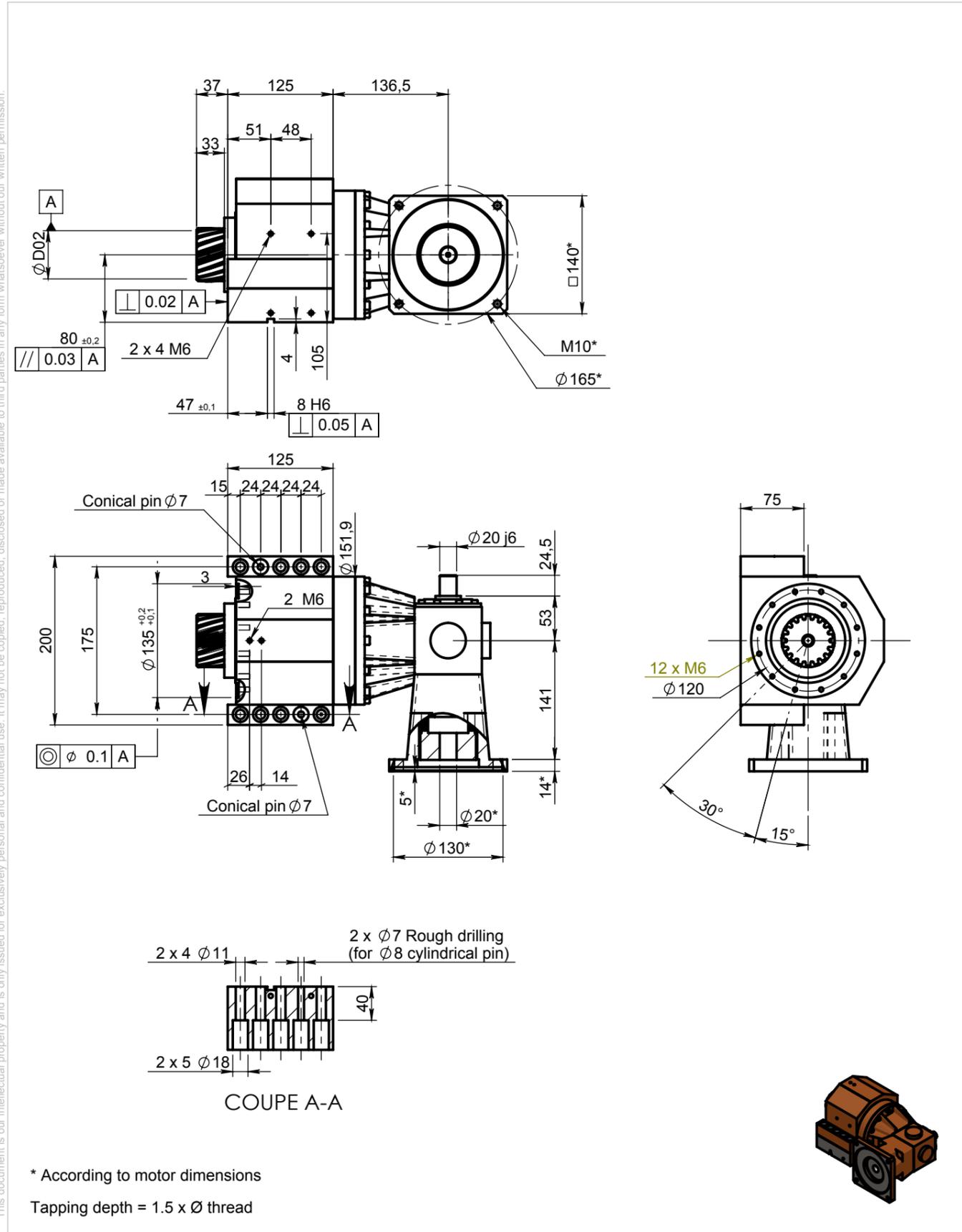
INTEGRAL OUTPUT PINION

Z2	Number of teeth	19
α	Pressure angle	20°
m0	Module	mm 3
D02	Theoretical Pitch diameter	mm 57
x0	Addendum modification factor	0,167
Pinion quality grade 6 (ISO 1328), surface hardness 61 to 63 HRC		

ADDITIONAL FEATURES

- Splash lubrication with synthetic PAO based oil with viscosity 150Cst at 40°C for all mounting positions (except DRP+R/KRP(X)+R with output pinion up requiring recirculation pump).
- Paint RAL 2002

OUTLINE DIMENSIONS



TECHNICAL FEATURES

PERFORMANCES

Unit codification		Single.KRPX1+R.2stage.H
T2B	Maximum output torque	Nm (i=21) 534 (i=31) 753 (i=46) 473 (i=61) 473 (i=91) 473
T2N	Nominal output torque	Nm (i=21) 305 (i=31) 430 (i=46) 270 (i=61) 270 (i=91) 270
T2NOT	E-stop torque	Nm 833
n1B	Maximum input speed	RPM 6000
n1N	Nominal input speed	RPM 2600
T01	No load torque (n1<100 RPM)	Nm 1,5
C2t	Torsional stiffness	Nm/rad 272000
K2R	Radial stiffness	Nm/arcmin 79,1
K2A	Axial stiffness	N/µm 480
J1	Mass moment of inertia	N/µm 1170
η	Efficiency at rated input speed	Kg.mm² 198,2
m	Weight	% >91
		Kg 0

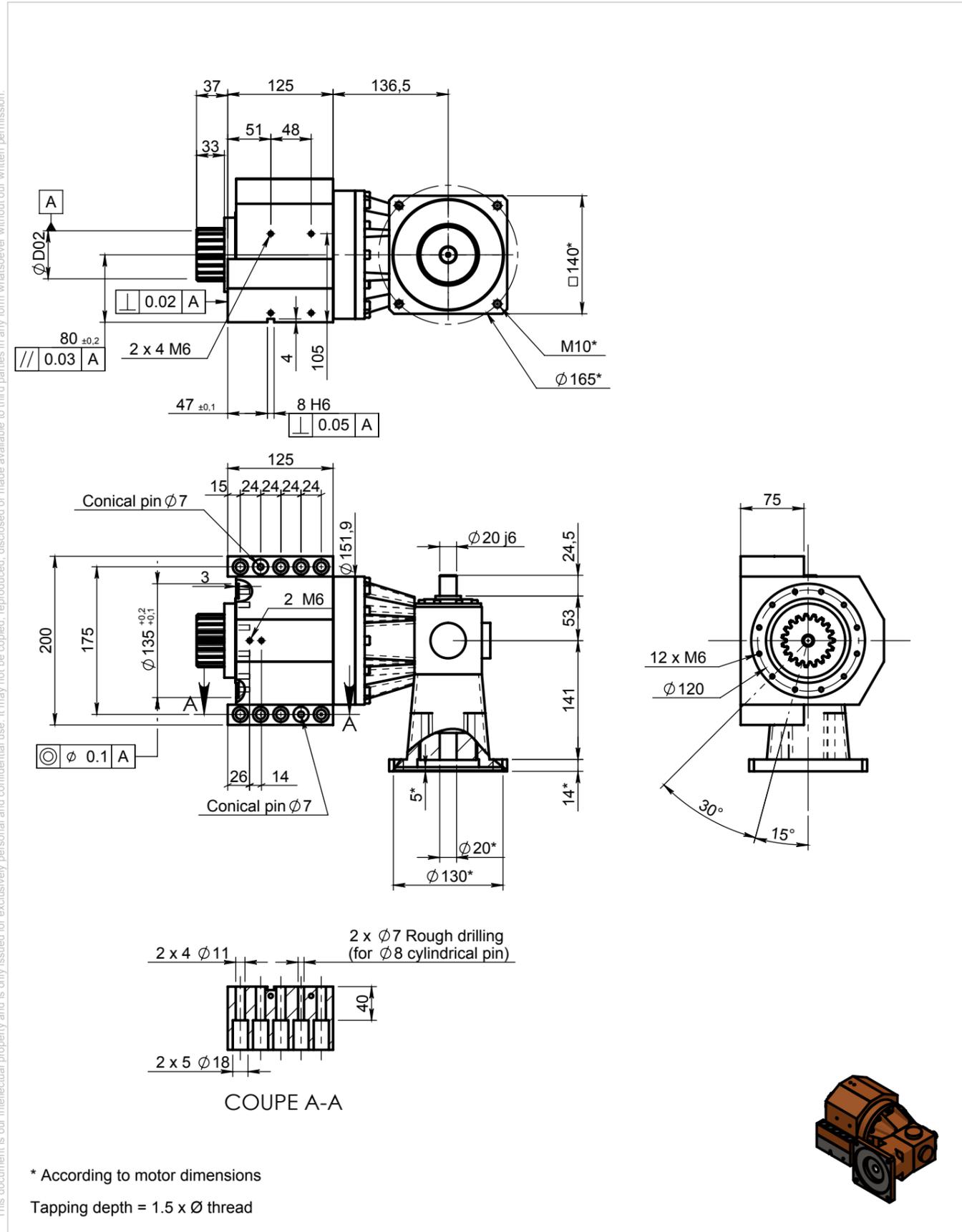
INTEGRAL OUTPUT PINION

Z2	Number of teeth	18
α	Pressure angle	20°
β	Helix angle (Left)	19°31'42"
m0	Module	mm 3
D02	Theoretical Pitch diameter	mm 57,3
x0	Addendum modification factor	0,118
Pinion quality grade 6 (ISO 1328), surface hardness 61 to 63 HRC		

ADDITIONAL FEATURES

- Splash lubrication with synthetic PAO based oil with viscosity 150Cst at 40°C for all mounting positions (except DRP+R/KRP(X)+R with output pinion up requiring recirculation pump).
- Paint RAL 2002

OUTLINE DIMENSIONS



TECHNICAL FEATURES

PERFORMANCES

Unit codification		Single.KRPX1+R.2stage.S
T2B	Maximum output torque	Nm (i=21) 534 (i=31) 753 (i=46) 473 (i=61) 473 (i=91) 473
T2N	Nominal output torque	Nm (i=21) 305 (i=31) 430 (i=46) 270 (i=61) 270 (i=91) 270
T2NOT	E-stop torque	Nm 833
n1B	Maximum input speed	RPM 6000
n1N	Nominal input speed	RPM 2600
T01	No load torque (n1<100 RPM)	Nm 1,5
C2t	Torsional stiffness	Nm/rad 272000
K2R	Radial stiffness	Nm/arcmin 79,1
K2A	Axial stiffness	N/µm 480
J1	Mass moment of inertia	N/µm 1170
η	Efficiency at rated input speed	Kg.mm² 198,2
m	Weight	% >91
		Kg 0

INTEGRAL OUTPUT PINION

Z2	Number of teeth	19
α	Pressure angle	20°
m0	Module	mm 3
D02	Theoretical Pitch diameter	mm 57
x0	Addendum modification factor	0,167

Pinion quality grade 6 (ISO 1328), surface hardness 61 to 63 HRC

ADDITIONAL FEATURES

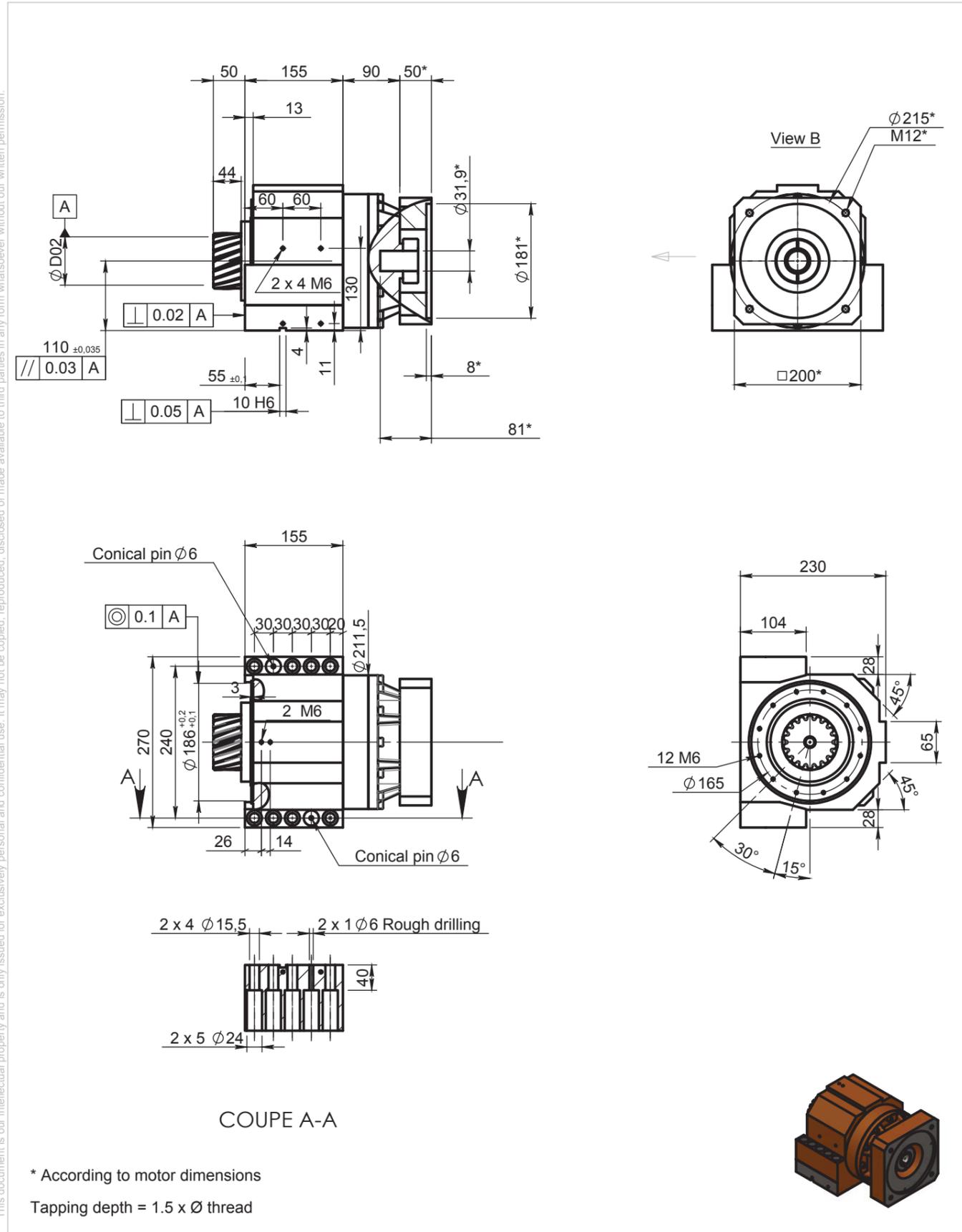
- Splash lubrication with synthetic PAO based oil with viscosity 150Cst at 40°C for all mounting positions (except DRP+R/KRP(X)+R with output pinion up requiring recirculation pump).
- Paint RAL 2002

* According to motor dimensions

Tapping depth = 1.5 x Ø thread



OUTLINE DIMENSIONS



TECHNICAL FEATURES

PERFORMANCES

Unit codification		Single.KRPX2+M.1stage.H
T2B Maximum output torque	Nm	(i=5) 1750 (i=7) 1750 (i=10) 1400
T2N Nominal output torque	Nm	(i=5) 1000 (i=7) 1000 (i=10) 800
T2NOT E-stop torque	Nm	2750
n1B Maximum input speed	RPM	4000
n1N Nominal input speed	RPM	1100
T01 No load torque (n1<100 RPM)	Nm	8
C2t Torsional stiffness	Nm/rad	1355000
	Nm/arcmin	394,2
K2R Radial stiffness	N/µm	650
K2A Axial stiffness	N/µm	2162
J1 Mass moment of inertia	Kg.mm ²	2290
η Efficiency at rated input speed	%	>96
m Weight	Kg	0

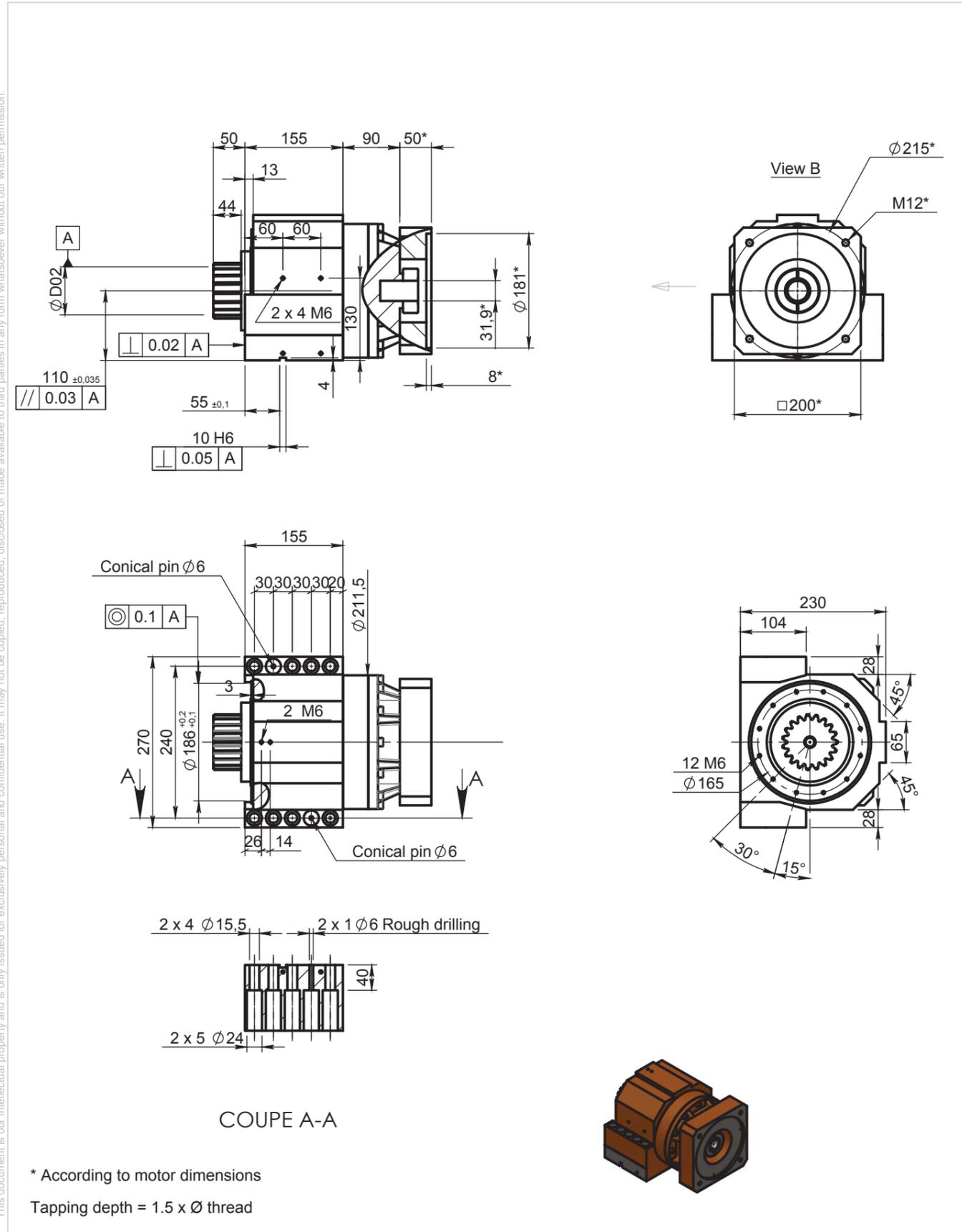
INTEGRAL OUTPUT PINION

Z2 Number of teeth		18
α Pressure angle		20°
β Helix angle (Left)		19°31'42"
m0 Module	mm	4
D02 Theoretical Pitch diameter	mm	76,39
x0 Addendum modification factor		0,638
Pinion quality grade 6 (ISO 1328), surface hardness 61 to 63 HRC		

ADDITIONAL FEATURES

- Splash lubrication with synthetic PAO based oil with viscosity 150Cst at 40°C for all mounting positions (except DRP+R/KRP(X)+R with output pinion up requiring recirculation pump).
- Paint RAL 2002

OUTLINE DIMENSIONS



TECHNICAL FEATURES

PERFORMANCES

Unit codification		Single.KRPX2+M.1stage.S
T2B Maximum output torque	Nm	(i=5) 1750 (i=7) 1750 (i=10) 1400
T2N Nominal output torque	Nm	(i=5) 1000 (i=7) 1000 (i=10) 800
T2NOT E-stop torque	Nm	2750
n1B Maximum input speed	RPM	4000
n1N Nominal input speed	RPM	1100
T01 No load torque (n1<100 RPM)	Nm	8
C2t Torsional stiffness	Nm/rad	1355000
	Nm/arcmin	394,2
K2R Radial stiffness	N/µm	650
K2A Axial stiffness	N/µm	2162
J1 Mass moment of inertia	Kg.mm²	2290
η Efficiency at rated input speed	%	>96
m Weight	Kg	0

INTEGRAL OUTPUT PINION

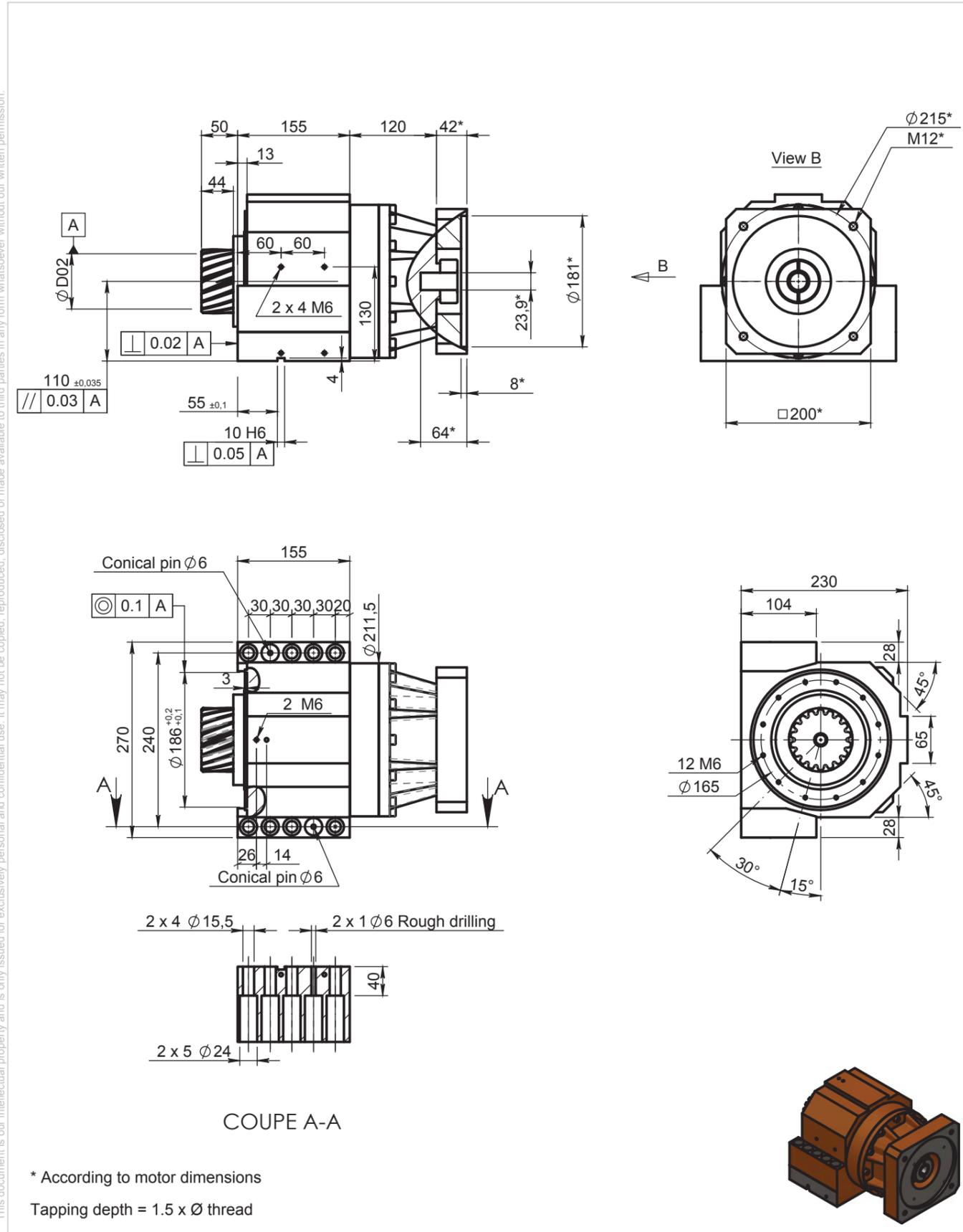
Z2 Number of teeth		19
α Pressure angle		20°
m0 Module	mm	4
D02 Theoretical Pitch diameter	mm	76
x0 Addendum modification factor		0,686
Pinion quality grade 6 (ISO 1328), surface hardness 61 to 63 HRC		

ADDITIONAL FEATURES

- Splash lubrication with synthetic PAO based oil with viscosity 150Cst at 40°C for all mounting positions (except DRP+R/KRP(X)+R with output pinion up requiring recirculation pump).
- Paint RAL 2002



OUTLINE DIMENSIONS



TECHNICAL FEATURES

PERFORMANCES

Unit codification		Single.KRPX2+M.2stage.H
T2B Maximum output torque	Nm	(i=21) 1400 (i=31) 2100 (i=46) 1400 (i=61) 1400 (i=91) 1400
T2N Nominal output torque	Nm	(i=21) 800 (i=31) 1200 (i=46) 800 (i=61) 800 (i=91) 800
T2NOT E-stop torque	Nm	2750
n1B Maximum input speed	RPM	6000
n1N Nominal input speed	RPM	2100
T01 No load torque (n1<100 RPM)	Nm	2
C2t Torsional stiffness	Nm/rad	867000
	Nm/arcmin	252,2
K2R Radial stiffness	N/ μ m	650
K2A Axial stiffness	N/ μ m	2162
J1 Mass moment of inertia	Kg.mm ²	435,2
η Efficiency at rated input speed	%	>93
m Weight	Kg	0

INTEGRAL OUTPUT PINION

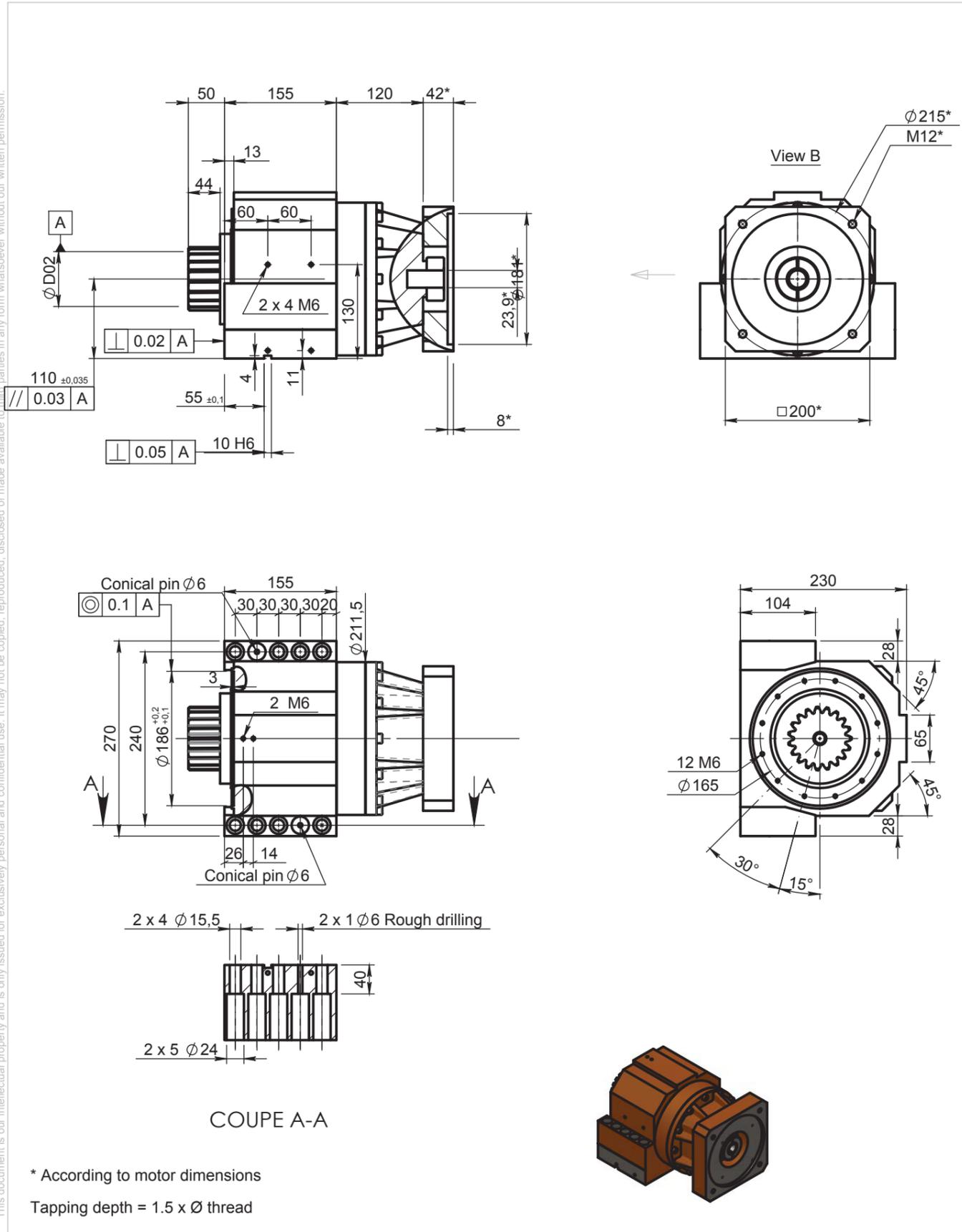
Z2 Number of teeth		18
α Pressure angle		20°
β Helix angle (Left)		19°31'42"
m0 Module	mm	4
D02 Theoretical Pitch diameter	mm	76,39
x0 Addendum modification factor		0,638

Pinion quality grade 6 (ISO 1328), surface hardness 61 to 63 HRC

ADDITIONAL FEATURES

- Splash lubrication with synthetic PAO based oil with viscosity 150Cst at 40°C for all mounting positions (except DRP+R/KRP(X)+R with output pinion up requiring recirculation pump).
- Paint RAL 2002

OUTLINE DIMENSIONS



TECHNICAL FEATURES

PERFORMANCES

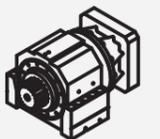
Unit codification		Single.KRPX2+M.2stage.S
T2B Maximum output torque	Nm	(i=21) 1400 (i=31) 2100 (i=46) 1400 (i=61) 1400 (i=91) 1400
T2N Nominal output torque	Nm	(i=21) 800 (i=31) 1200 (i=46) 800 (i=61) 800 (i=91) 800
T2NOT E-stop torque	Nm	2750
n1B Maximum input speed	RPM	6000
n1N Nominal input speed	RPM	2100
T01 No load torque (n1<100 RPM)	Nm	2
C2t Torsional stiffness	Nm/rad	867000
	Nm/arcmin	252,2
K2R Radial stiffness	N/ μ m	650
K2A Axial stiffness	N/ μ m	2162
J1 Mass moment of inertia	Kg.mm ²	435,2
η Efficiency at rated input speed	%	>93
m Weight	Kg	0

INTEGRAL OUTPUT PINION

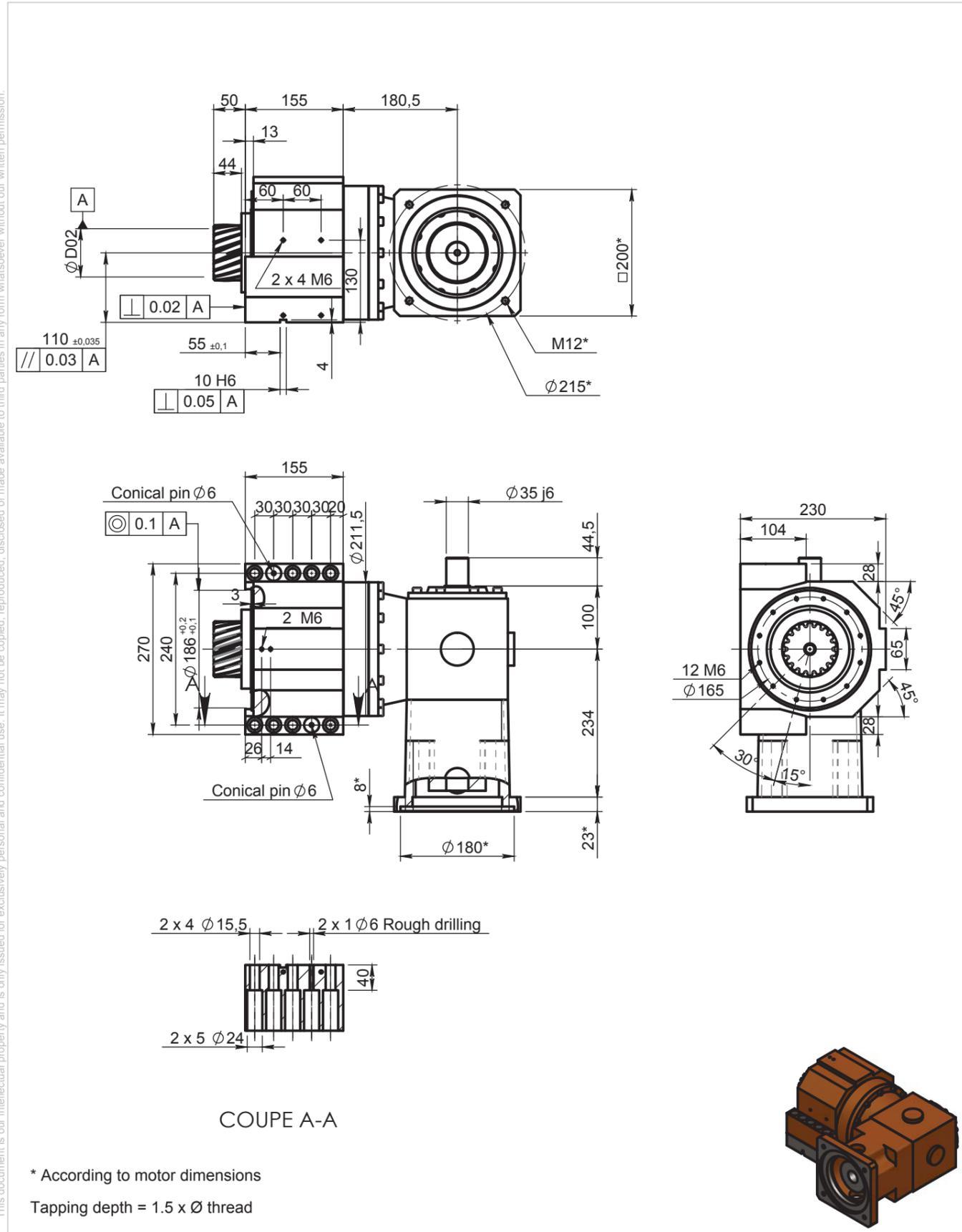
Z2 Number of teeth		19
α Pressure angle		20°
m0 Module	mm	4
D02 Theoretical Pitch diameter	mm	76
x0 Addendum modification factor		0,686
Pinion quality grade 6 (ISO 1328), surface hardness 61 to 63 HRC		

ADDITIONAL FEATURES

- Splash lubrication with synthetic PAO based oil with viscosity 150Cst at 40°C for all mounting positions (except DRP+R/KRP(X)+R with output pinion up requiring recirculation pump).
- Paint RAL 2002



OUTLINE DIMENSIONS



TECHNICAL FEATURES

PERFORMANCES

Unit codification		Single.KRPX2+R.1stage.H
T2B Maximum output torque	Nm	(i=5) 1750 (i=7) 1750 (i=10) 1400
T2N Nominal output torque	Nm	(i=5) 1000 (i=7) 1000 (i=10) 800
T2NOT E-stop torque	Nm	2750
n1B Maximum input speed	RPM	4000
n1N Nominal input speed	RPM	1100
T01 No load torque (n1<100 RPM)	Nm	7,8
C2t Torsional stiffness	Nm/rad	904000
	Nm/arcmin	263
K2R Radial stiffness	N/µm	650
K2A Axial stiffness	N/µm	2162
J1 Mass moment of inertia	Kg.mm ²	6201
η Efficiency at rated input speed	%	>94
m Weight	Kg	0

INTEGRAL OUTPUT PINION

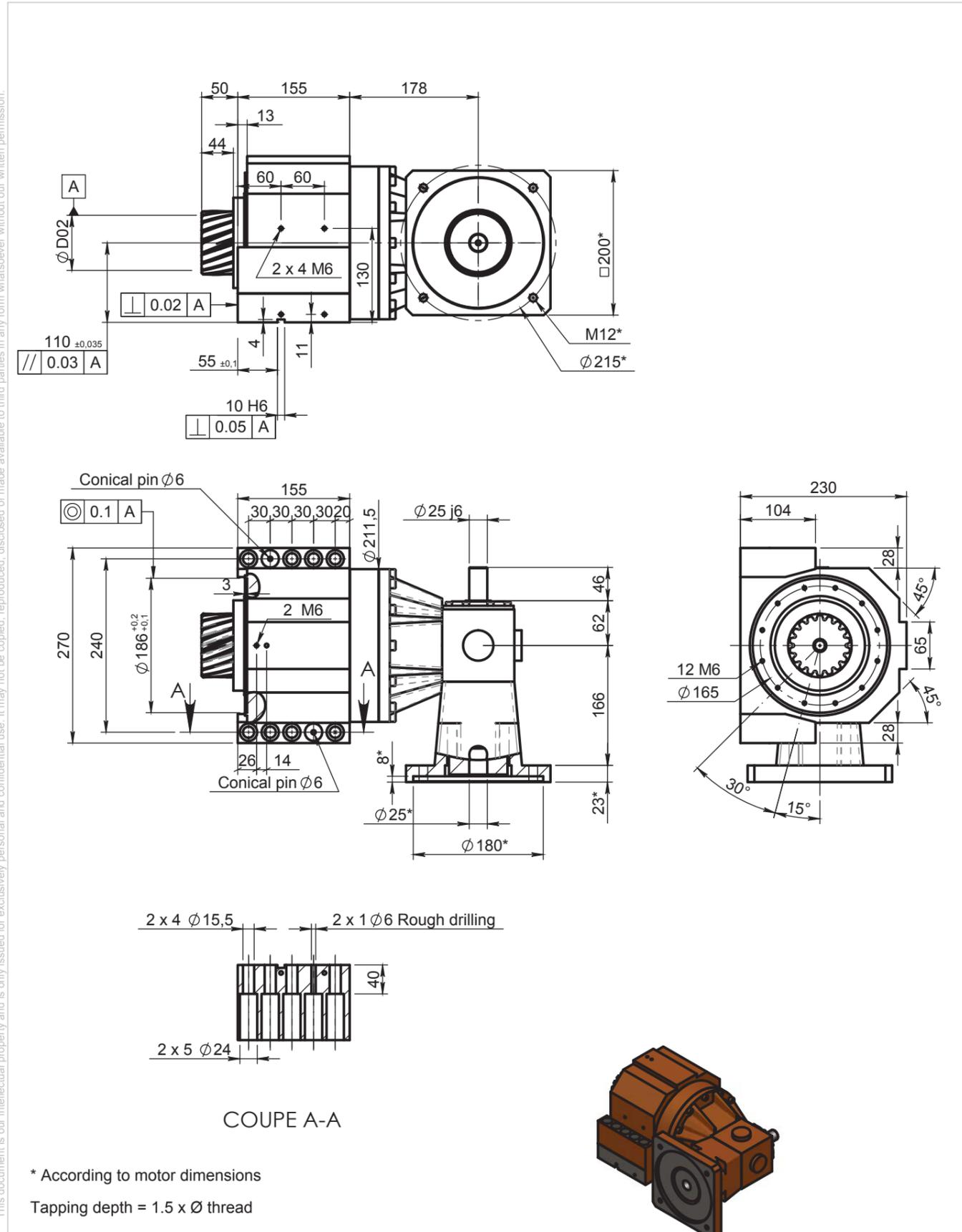
Z2 Number of teeth		18
α Pressure angle		20°
β Helix angle (Left)		19°31'42"
m0 Module	mm	4
D02 Theoretical Pitch diameter	mm	76,39
x0 Addendum modification factor		0,638
Pinion quality grade 6 (ISO 1328), surface hardness 61 to 63 HRC		

ADDITIONAL FEATURES

- Splash lubrication with synthetic PAO based oil with viscosity 150Cst at 40°C for all mounting positions (except DRP+R/KRP(X)+R with output pinion up requiring recirculation pump).
- Paint RAL 2002



OUTLINE DIMENSIONS



TECHNICAL FEATURES

PERFORMANCES

Unit codification		Single.KRPX2+R.2stage.H
T2B Maximum output torque	Nm	(i=21) 1400 (i=31) 2100 (i=46) 1400 (i=61) 1400 (i=91) 1400
T2N Nominal output torque	Nm	(i=21) 800 (i=31) 1200 (i=46) 800 (i=61) 800 (i=91) 800
T2NOT E-stop torque	Nm	2750
n1B Maximum input speed	RPM	6000
n1N Nominal input speed	RPM	2100
T01 No load torque (n1<100 RPM)	Nm	2,3
C2t Torsional stiffness	Nm/rad	867000
	Nm/arcmin	252,2
K2R Radial stiffness	N/µm	650
K2A Axial stiffness	N/µm	2162
J1 Mass moment of inertia	Kg.mm²	620,7
η Efficiency at rated input speed	%	>91
m Weight	Kg	0

INTEGRAL OUTPUT PINION

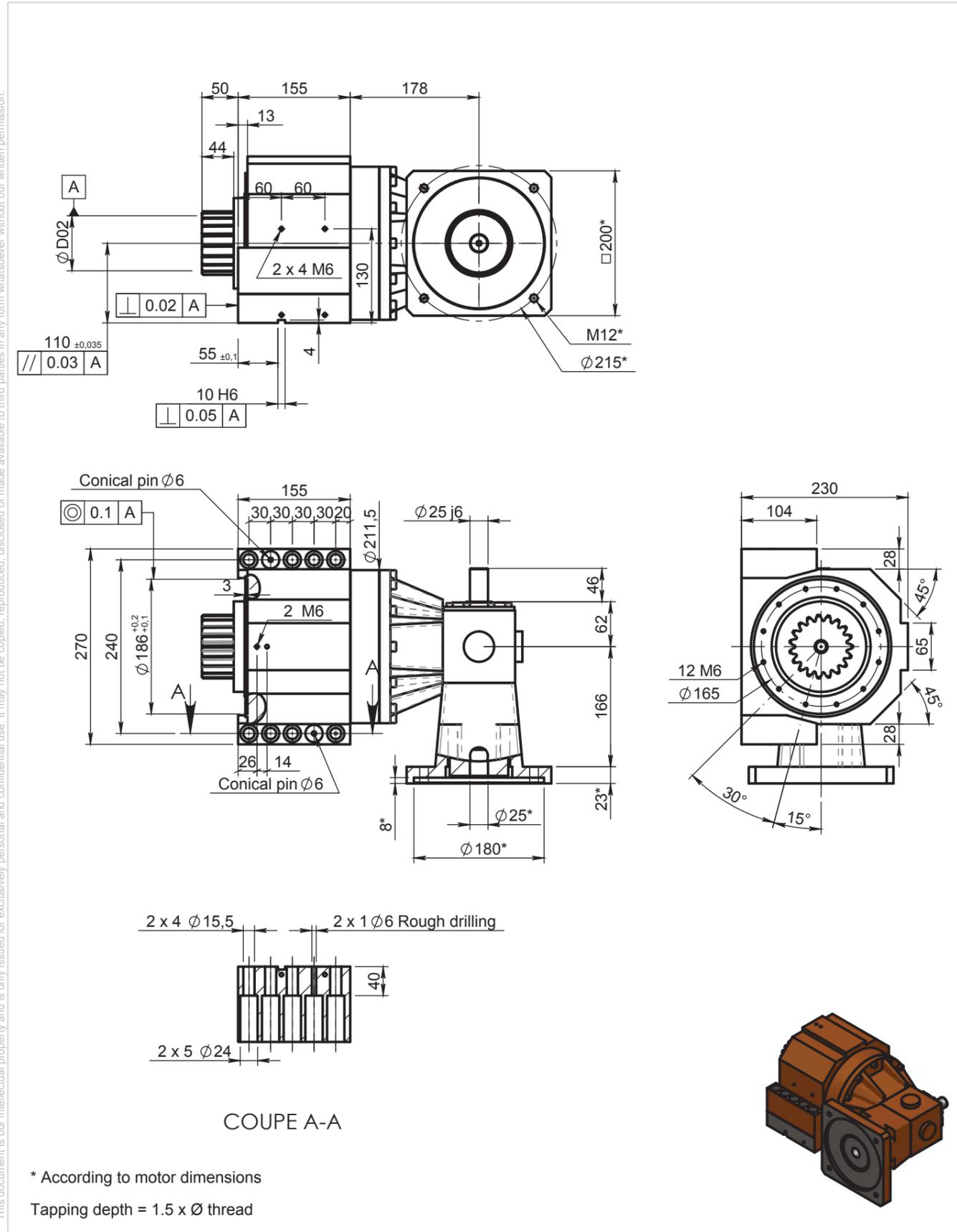
Z2 Number of teeth		18
α Pressure angle		20°
β Helix angle (Left)		19°31'42"
m0 Module	mm	4
D02 Theoretical Pitch diameter	mm	76,39
x0 Addendum modification factor		0,638
Pinion quality grade 6 (ISO 1328), surface hardness 61 to 63 HRC		

ADDITIONAL FEATURES

- Splash lubrication with synthetic PAO based oil with viscosity 150Cst at 40°C for all mounting positions (except DRP+R/KRP(X)+R with output pinion up requiring recirculation pump).
- Paint RAL 2002



OUTLINE DIMENSIONS



TECHNICAL FEATURES

PERFORMANCES

Unit codification		Single.KRPX2+R.2stage.S
T2B Maximum output torque	Nm	(i=21) 1400 (i=31) 2100 (i=46) 1400 (i=61) 1400 (i=91) 1400
T2N Nominal output torque	Nm	(i=21) 800 (i=31) 1200 (i=46) 800 (i=61) 800 (i=91) 800
T2NOT E-stop torque	Nm	2750
n1B Maximum input speed	RPM	6000
n1N Nominal input speed	RPM	2100
T01 No load torque ($n1 < 100$ RPM)	Nm	2,3
C2t Torsional stiffness	Nm/rad	867000
	Nm/arcmin	252,2
K2R Radial stiffness	N/ μ m	650
K2A Axial stiffness	N/ μ m	2162
J1 Mass moment of inertia	Kg.mm ²	620,7
η Efficiency at rated input speed	%	>91
m Weight	Kg	0

INTEGRAL OUTPUT PINION

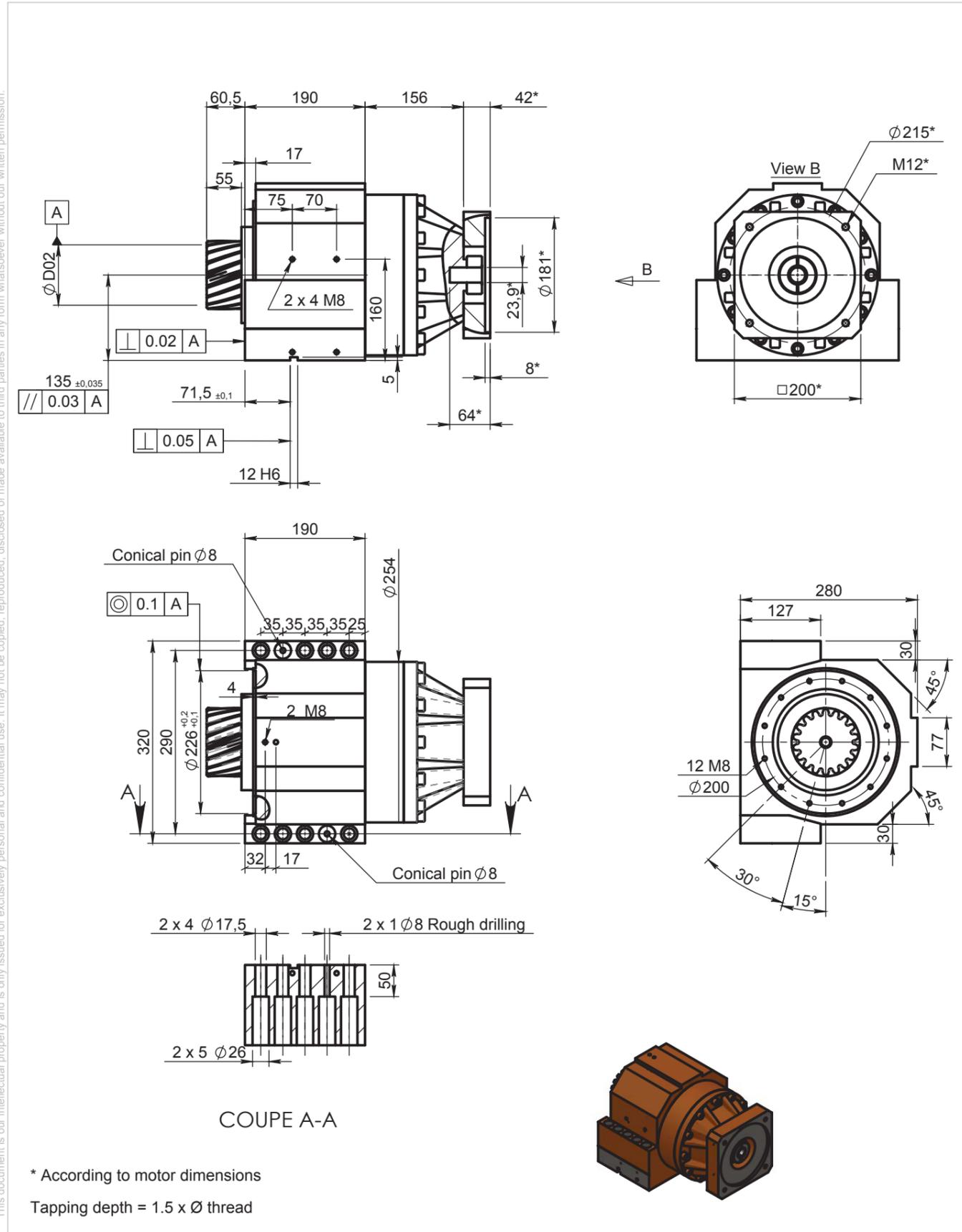
Z2 Number of teeth		19
α Pressure angle		20°
m0 Module	mm	4
D02 Theoretical Pitch diameter	mm	76
x0 Addendum modification factor		0,686
Pinion quality grade 6 (ISO 1328), surface hardness 61 to 63 HRC		

ADDITIONAL FEATURES

- Splash lubrication with synthetic PAO based oil with viscosity 150Cst at 40°C for all mounting positions (except DRP+R/KRP(X)+R with output pinion up requiring recirculation pump).
- Paint RAL 2002



OUTLINE DIMENSIONS



* According to motor dimensions
Tapping depth = 1.5 x ϕ thread

TECHNICAL FEATURES

PERFORMANCES

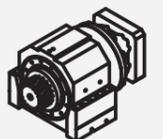
Unit codification		Single.KRPX3+M.2stage.H
T2B	Maximum output torque	Nm (i=21) 2625 (i=31) 3850 (i=46) 2468 (i=61) 2695 (i=91) 2695
T2N	Nominal output torque	Nm (i=21) 1500 (i=31) 2200 (i=46) 1410 (i=61) 1540 (i=91) 1540
T2NOT	E-stop torque	Nm 4950
n1B	Maximum input speed	RPM 5000
n1N	Nominal input speed	RPM 1600
T01	No load torque (n1 < 100 RPM)	Nm 2,5
C2t	Torsional stiffness	Nm/rad 1732000 Nm/arcmin 503,8
K2R	Radial stiffness	N/ μ m 1100
K2A	Axial stiffness	N/ μ m 4355
J1	Mass moment of inertia	Kg.mm ² 748,1
η	Efficiency at rated input speed	% >93
m	Weight	Kg 0

INTEGRAL OUTPUT PINION

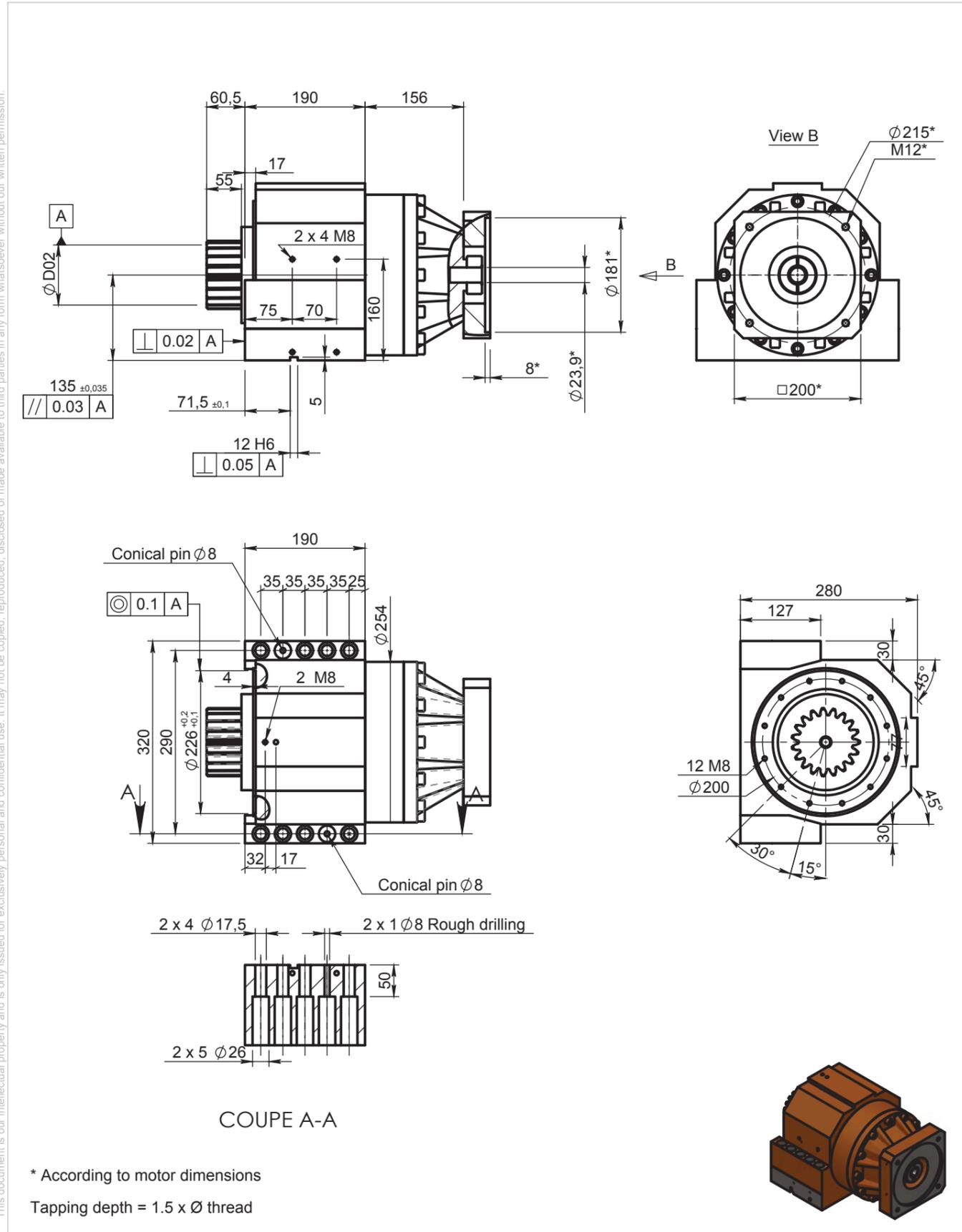
Z2	Number of teeth	18
α	Pressure angle	20°
β	Helix angle (Left)	19°31'42"
m0	Module	mm 5
D02	Theoretical Pitch diameter	mm 95,49
x0	Addendum modification factor	0,250
Pinion quality grade 6 (ISO 1328), surface hardness 61 to 63 HRC		

ADDITIONAL FEATURES

- Splash lubrication with synthetic PAO based oil with viscosity 150Cst at 40°C for all mounting positions (except DRP+R/KRP(X)+R with output pinion up requiring recirculation pump).
- Paint RAL 2002



OUTLINE DIMENSIONS



TECHNICAL FEATURES

PERFORMANCES

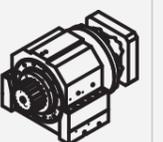
Unit codification		Single.KRPX3+M.2stage.S
T2B Maximum output torque	Nm	(i=21) 2625 (i=31) 3850 (i=46) 2468 (i=61) 2695 (i=91) 2695
T2N Nominal output torque	Nm	(i=21) 1500 (i=31) 2200 (i=46) 1410 (i=61) 1540 (i=91) 1540
T2NOT E-stop torque	Nm	4950
n1B Maximum input speed	RPM	5000
n1N Nominal input speed	RPM	1600
T01 No load torque ($n1 < 100$ RPM)	Nm	2,5
C2t Torsional stiffness	Nm/rad	1732000
	Nm/arcmin	503,8
K2R Radial stiffness	N/μm	1100
K2A Axial stiffness	N/μm	4355
J1 Mass moment of inertia	Kg.mm²	748,1
η Efficiency at rated input speed	%	>93
m Weight	Kg	0

INTEGRAL OUTPUT PINION

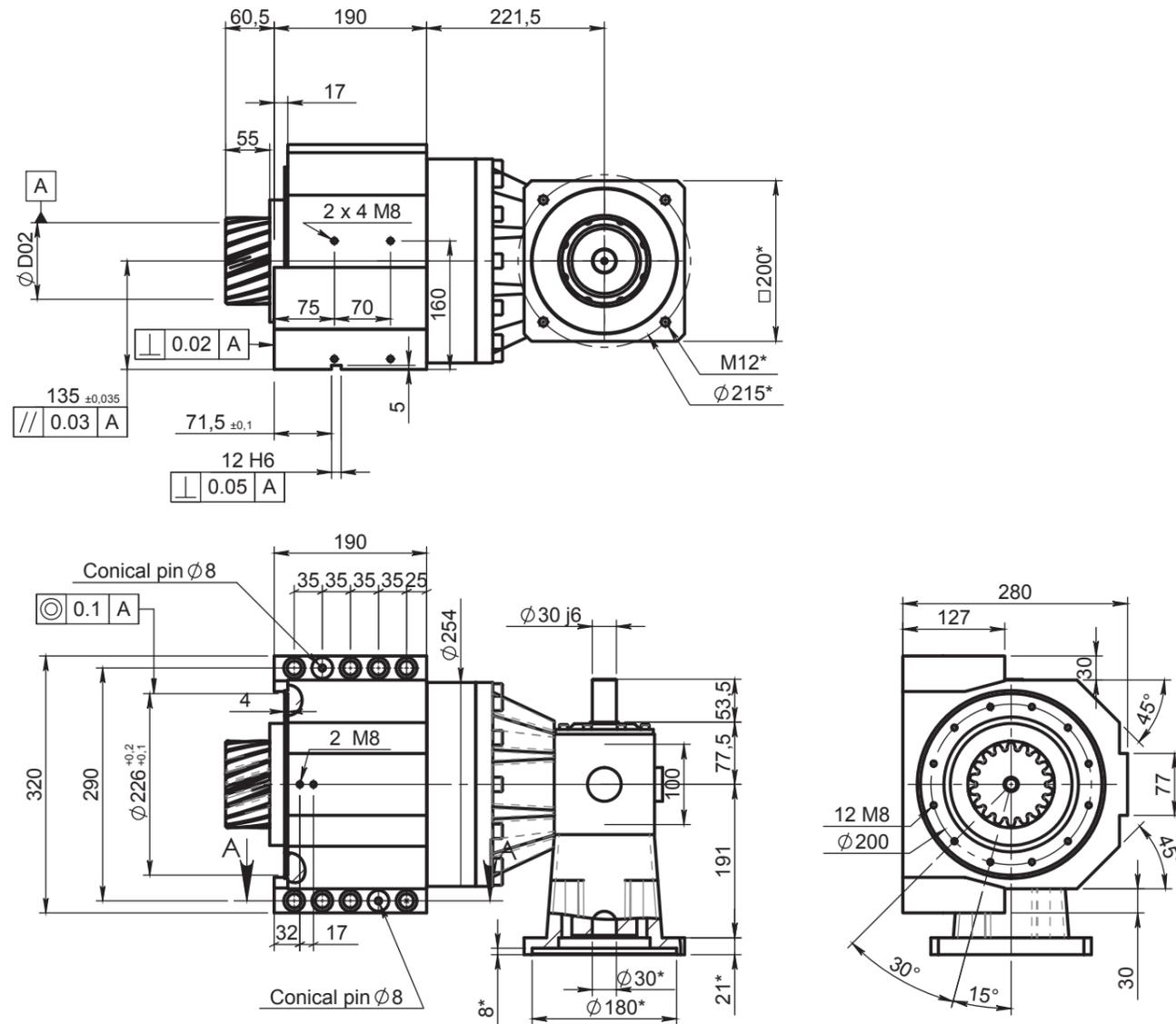
Z2 Number of teeth		19
α Pressure angle		20°
m0 Module	mm	5
D02 Theoretical Pitch diameter	mm	95
x0 Addendum modification factor		0,300
Pinion quality grade 6 (ISO 1328), surface hardness 61 to 63 HRC		

ADDITIONAL FEATURES

- Splash lubrication with synthetic PAO based oil with viscosity 150Cst at 40°C for all mounting positions (except DRP+R/KRP(X)+R with output pinion up requiring recirculation pump).
- Paint RAL 2002



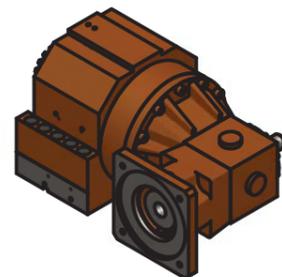
OUTLINE DIMENSIONS



COUPE A-A

* According to motor dimensions

Tapping depth = 1.5 x Ø thread



TECHNICAL FEATURES

PERFORMANCES

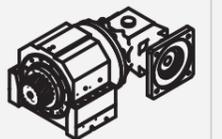
Unit codification		Single.KRPX3+R.2stage.H
T2B Maximum output torque	Nm	(i=21) 2625 (i=31) 3850 (i=46) 2468 (i=61) 2695 (i=91) 2695
T2N Nominal output torque	Nm	(i=21) 1500 (i=31) 2200 (i=46) 1410 (i=61) 1540 (i=91) 1540
T2NOT E-stop torque	Nm	4950
n1B Maximum input speed	RPM	5000
n1N Nominal input speed	RPM	1600
T01 No load torque (n1<100 RPM)	Nm	2,8
C2t Torsional stiffness	Nm/rad	1732000
	Nm/arcmin	503,8
K2R Radial stiffness	N/µm	1100
K2A Axial stiffness	N/µm	4355
J1 Mass moment of inertia	Kg.mm ²	1545
η Efficiency at rated input speed	%	>91
m Weight	Kg	0

INTEGRAL OUTPUT PINION

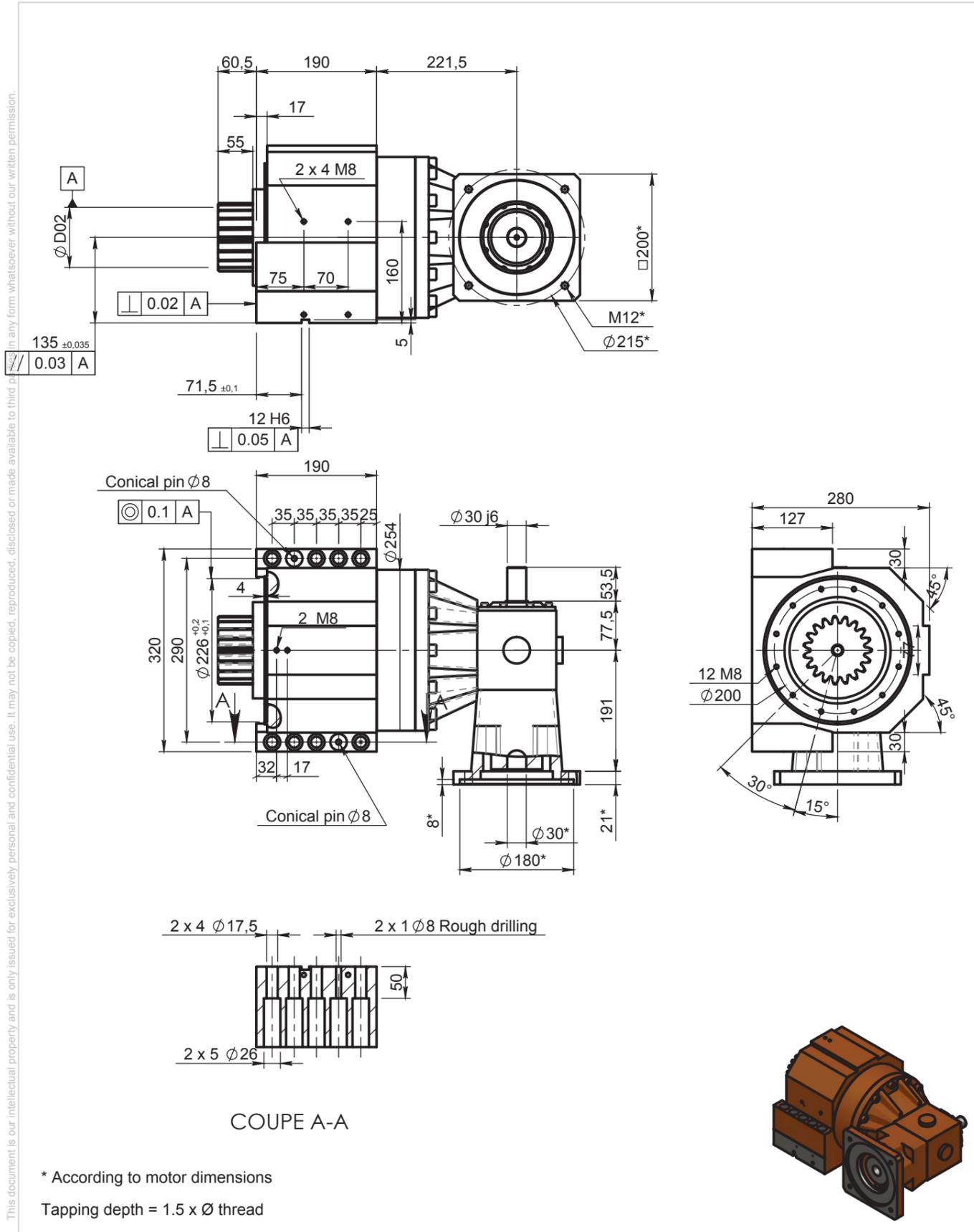
Z2 Number of teeth		18
α Pressure angle		20°
β Helix angle (Left)		19°31'42"
m0 Module	mm	5
D02 Theoretical Pitch diameter	mm	95,49
x0 Addendum modification factor		0,250
Pinion quality grade 6 (ISO 1328), surface hardness 61 to 63 HRC		

ADDITIONAL FEATURES

- Splash lubrication with synthetic PAO based oil with viscosity 150Cst at 40°C for all mounting positions (except DRP+R/KRP(X)+R with output pinion up requiring recirculation pump).
- Paint RAL 2002



OUTLINE DIMENSIONS



TECHNICAL FEATURES

PERFORMANCES

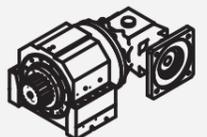
Unit codification		Single.KRPX3+R.2stage.S
T2B Maximum output torque	Nm	(i=21) 2625 (i=31) 3850 (i=46) 2468 (i=61) 2695 (i=91) 2695
T2N Nominal output torque	Nm	(i=21) 1500 (i=31) 2200 (i=46) 1410 (i=61) 1540 (i=91) 1540
T2NOT E-stop torque	Nm	4950
n1B Maximum input speed	RPM	5000
n1N Nominal input speed	RPM	1600
T01 No load torque (n1<100 RPM)	Nm	2,8
C2t Torsional stiffness	Nm/rad	1732000
	Nm/arcmin	503,8
K2R Radial stiffness	N/ μ m	1100
K2A Axial stiffness	N/ μ m	4355
J1 Mass moment of inertia	Kg.mm ²	1545
η Efficiency at rated input speed	%	>91
m Weight	Kg	0

INTEGRAL OUTPUT PINION

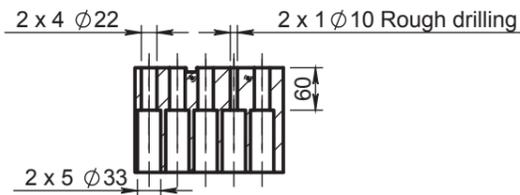
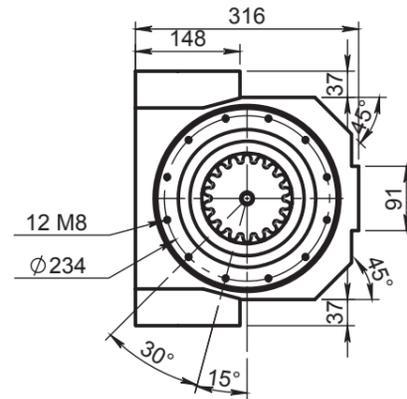
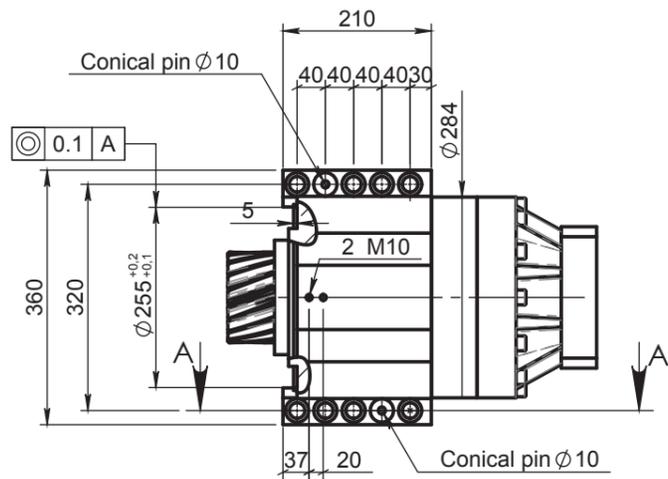
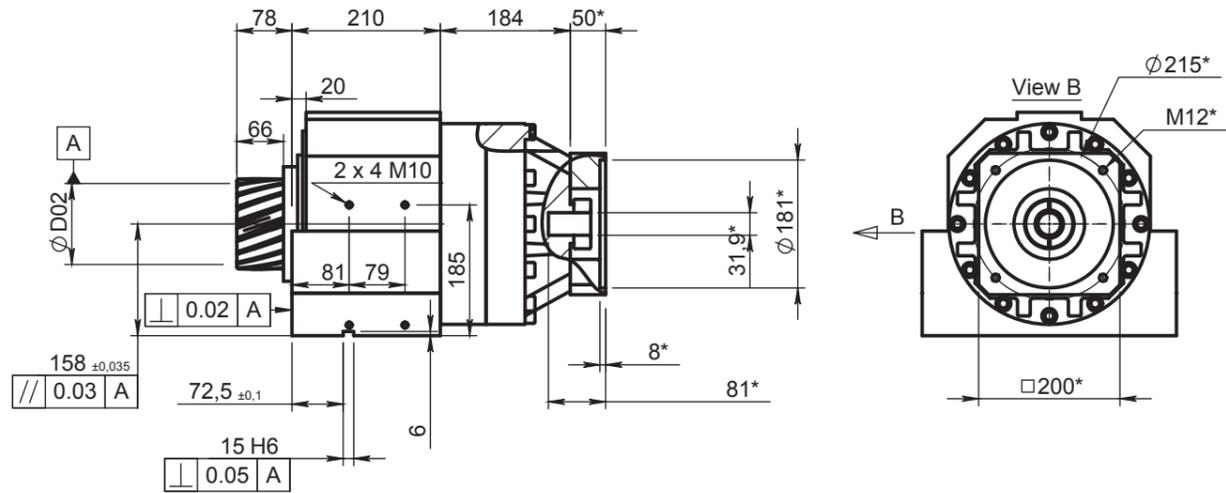
Z2 Number of teeth		19
α Pressure angle		20°
m0 Module	mm	5
D02 Theoretical Pitch diameter	mm	95
x0 Addendum modification factor		0,300
Pinion quality grade 6 (ISO 1328), surface hardness 61 to 63 HRC		

ADDITIONAL FEATURES

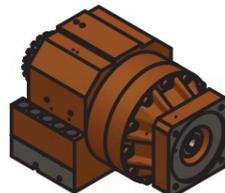
- Splash lubrication with synthetic PAO based oil with viscosity 150Cst at 40°C for all mounting positions (except DRP+R/KRP(X)+R with output pinion up requiring recirculation pump).
- Paint RAL 2002



OUTLINE DIMENSIONS



COUPE A-A



* According to motor dimensions

Tapping depth = 1.5 x Ø thread

TECHNICAL FEATURES

PERFORMANCES

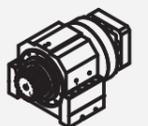
Unit codification		Single.KRPX4+M.2stage.H
T2B Maximum output torque	Nm	(i=21) 6125 (i=31) 6300 (i=46) 4480 (i=61) 4970 (i=91) 4970
T2N Nominal output torque	Nm	(i=21) 3500 (i=31) 3600 (i=46) 2560 (i=61) 2840 (i=91) 2840
T2NOT E-stop torque	Nm	7600
n1B Maximum input speed	RPM	4000
n1N Nominal input speed	RPM	1300
T01 No load torque (n1<100 RPM)	Nm	3
C2t Torsional stiffness	Nm/rad	2404000
	Nm/arcmin	699,3
K2R Radial stiffness	N/µm	1250
K2A Axial stiffness	N/µm	5000
J1 Mass moment of inertia	Kg.mm ²	1977
η Efficiency at rated input speed	%	>93
m Weight	Kg	0

INTEGRAL OUTPUT PINION

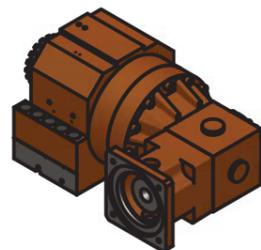
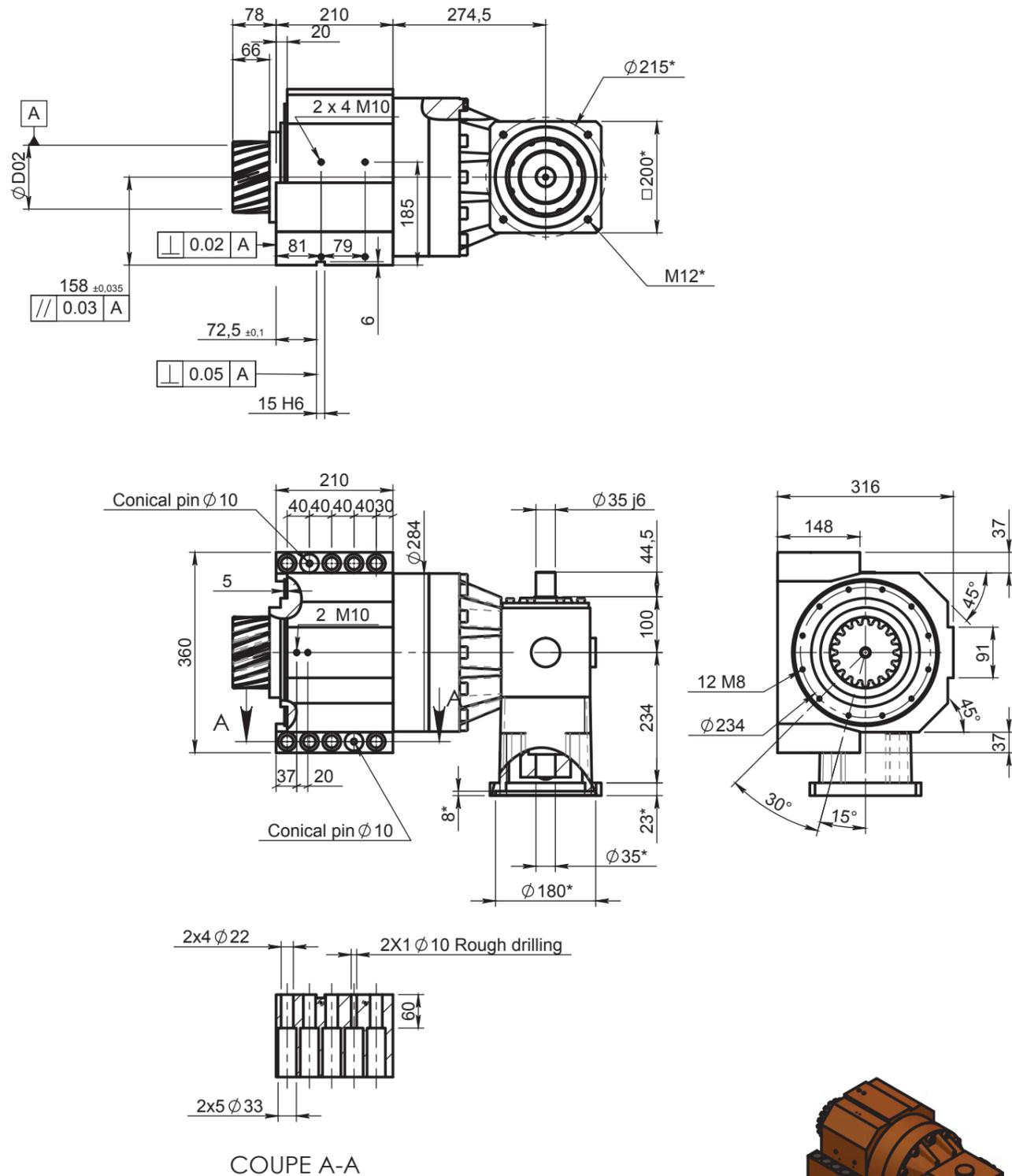
Z2 Number of teeth		18
α Pressure angle		20°
β Helix angle (Left)		19°31'42"
m0 Module	mm	6
D02 Theoretical Pitch diameter	mm	114,59
x0 Addendum modification factor		0,201
Pinion quality grade 6 (ISO 1328), surface hardness 61 to 63 HRC		

ADDITIONAL FEATURES

- Splash lubrication with synthetic PAO based oil with viscosity 150Cst at 40°C for all mounting positions (except DRP+R/KRP(X)+R with output pinion up requiring recirculation pump).
- Paint RAL 2002



OUTLINE DIMENSIONS



* According to motor dimensions

Tapping depth = 1.5 x Ø thread

TECHNICAL FEATURES

PERFORMANCES

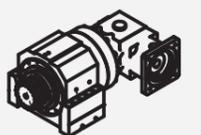
Unit codification		Single.KRPX4+R.2stage.H
T2B	Maximum output torque	Nm (i=21) 6125 (i=31) 6300 (i=46) 4480 (i=61) 4970 (i=91) 4970
T2N	Nominal output torque	Nm (i=21) 3500 (i=31) 3600 (i=46) 2560 (i=61) 2840 (i=91) 2840
T2NOT	E-stop torque	Nm 7600
n1B	Maximum input speed	RPM 4000
n1N	Nominal input speed	RPM 1300
T01	No load torque (n1<100 RPM)	Nm 3,6
C2t	Torsional stiffness	Nm/rad 2404000 Nm/arcmin 699,3
K2R	Radial stiffness	N/µm 1250
K2A	Axial stiffness	N/µm 5000
J1	Mass moment of inertia	Kg.mm² 5888
η	Efficiency at rated input speed	% >91
m	Weight	Kg 0

INTEGRAL OUTPUT PINION

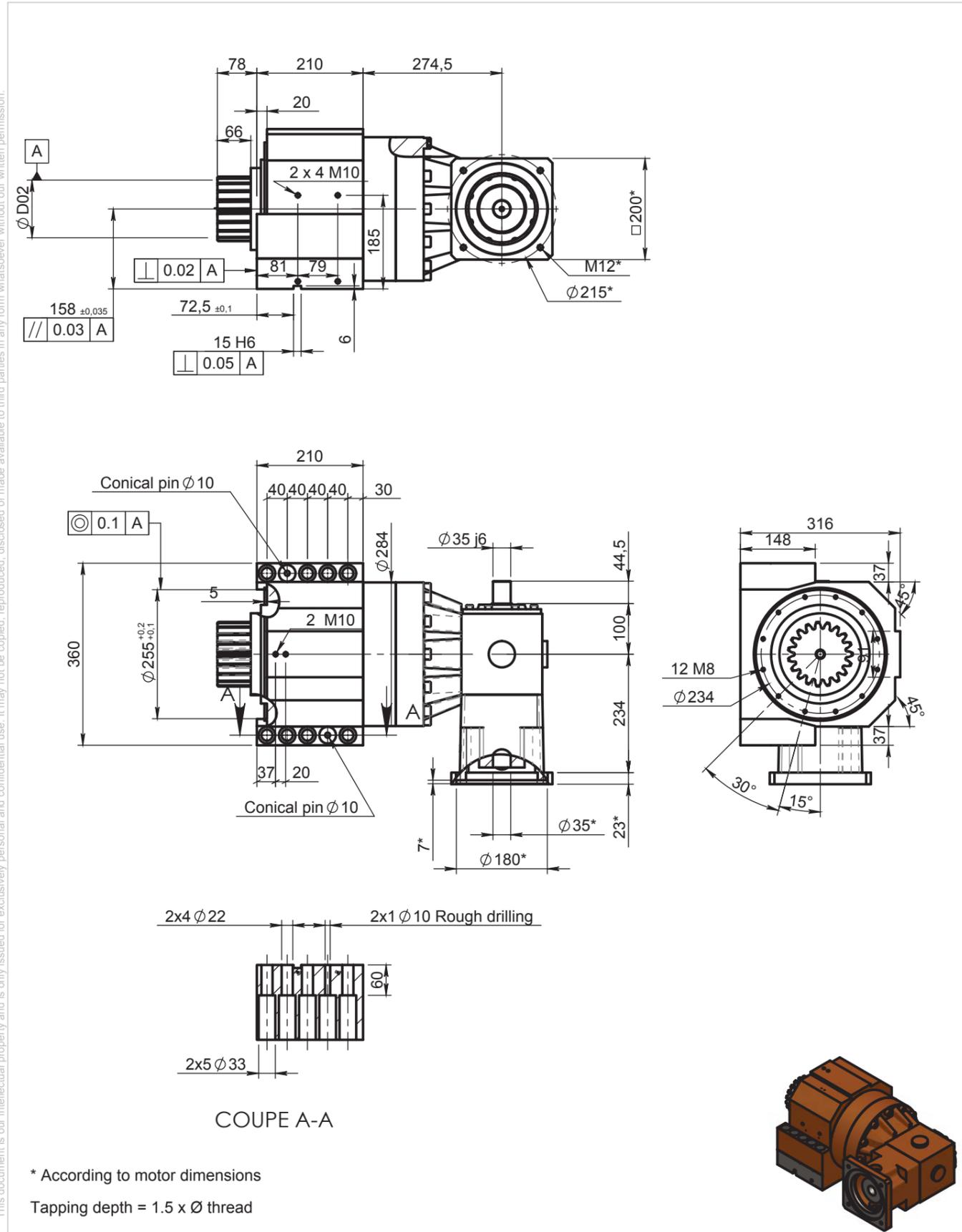
Z2	Number of teeth	18
α	Pressure angle	20°
β	Helix angle (Left)	19°31'42"
m0	Module	mm 6
D02	Theoretical Pitch diameter	mm 114,59
x0	Addendum modification factor	0,201
Pinion quality grade 6 (ISO 1328), surface hardness 61 to 63 HRC		

ADDITIONAL FEATURES

- Splash lubrication with synthetic PAO based oil with viscosity 150Cst at 40°C for all mounting positions (except DRP+R/KRP(X)+R with output pinion up requiring recirculation pump).
- Paint RAL 2002



OUTLINE DIMENSIONS



TECHNICAL FEATURES

PERFORMANCES

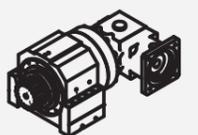
Unit codification		Single.KRPX4+R.2stage.S
T2B Maximum output torque	Nm	(i=21) 6125 (i=31) 6300 (i=46) 4480 (i=61) 4970 (i=91) 4970
T2N Nominal output torque	Nm	(i=21) 3500 (i=31) 3600 (i=46) 2560 (i=61) 2840 (i=91) 2840
T2NOT E-stop torque	Nm	7600
n1B Maximum input speed	RPM	4000
n1N Nominal input speed	RPM	1300
T01 No load torque ($n1 < 100$ RPM)	Nm	3,6
C2t Torsional stiffness	Nm/rad	2404000
	Nm/arcmin	699,3
K2R Radial stiffness	N/ μ m	1250
K2A Axial stiffness	N/ μ m	5000
J1 Mass moment of inertia	Kg.mm ²	5888
η Efficiency at rated input speed	%	>91
m Weight	Kg	0

INTEGRAL OUTPUT PINION

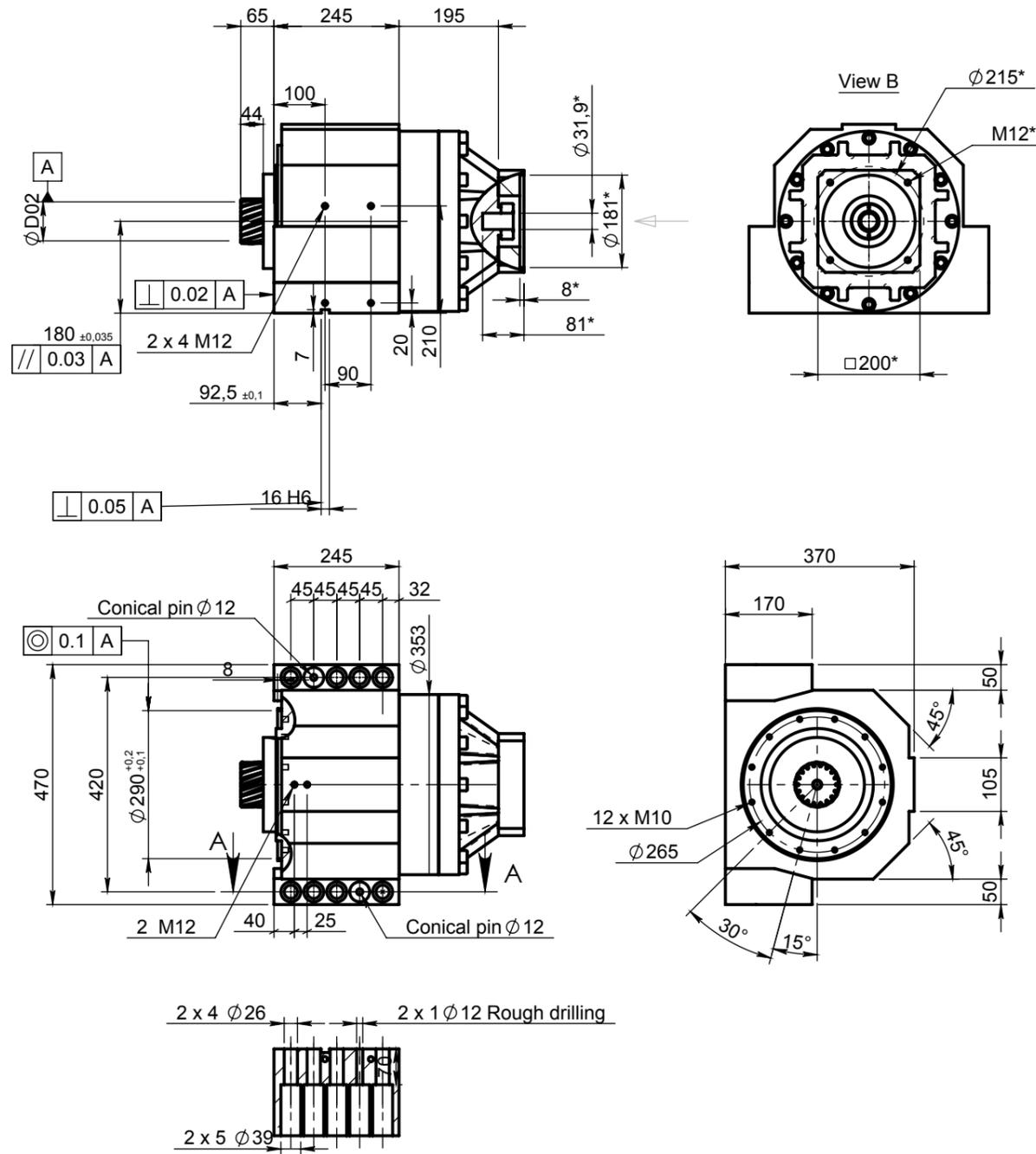
Z2 Number of teeth		19
α Pressure angle		20°
m0 Module	mm	6
D02 Theoretical Pitch diameter	mm	114
x0 Addendum modification factor		0,250
Pinion quality grade 6 (ISO 1328), surface hardness 61 to 63 HRC		

ADDITIONAL FEATURES

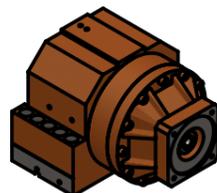
- Splash lubrication with synthetic PAO based oil with viscosity 150Cst at 40°C for all mounting positions (except DRP+R/KRP(X)+R with output pinion up requiring recirculation pump).
- Paint RAL 2002



OUTLINE DIMENSIONS



COUPE A-A



* According to motor dimensions

Tapping depth = 1.5 x Ø thread

TECHNICAL FEATURES

PERFORMANCES

Unit codification		Single.KRPX5+M.2stage.H
T2B	Maximum output torque	Nm (i=21) 7520 (i=31) 10050 (i=46) 8800 (i=61) 8800 (i=91) 8800
T2N	Nominal output torque	Nm (i=21) 4700 (i=31) 6700 (i=46) 5500 (i=61) 5500 (i=91) 5500
T2NOT	E-stop torque	Nm 11500
n1B	Maximum input speed	RPM 4000
n1N	Nominal input speed	RPM 1000
T01	No load torque (n1<100 RPM)	Nm 4
C2t	Torsional stiffness	Nm/rad 3420000 Nm/arcmin 994,8
K2R	Radial stiffness	N/µm 1750
K2A	Axial stiffness	N/µm 5484
J1	Mass moment of inertia	Kg.mm² 2965
η	Efficiency at rated input speed	% >93
m	Weight	Kg 0

INTEGRAL OUTPUT PINION

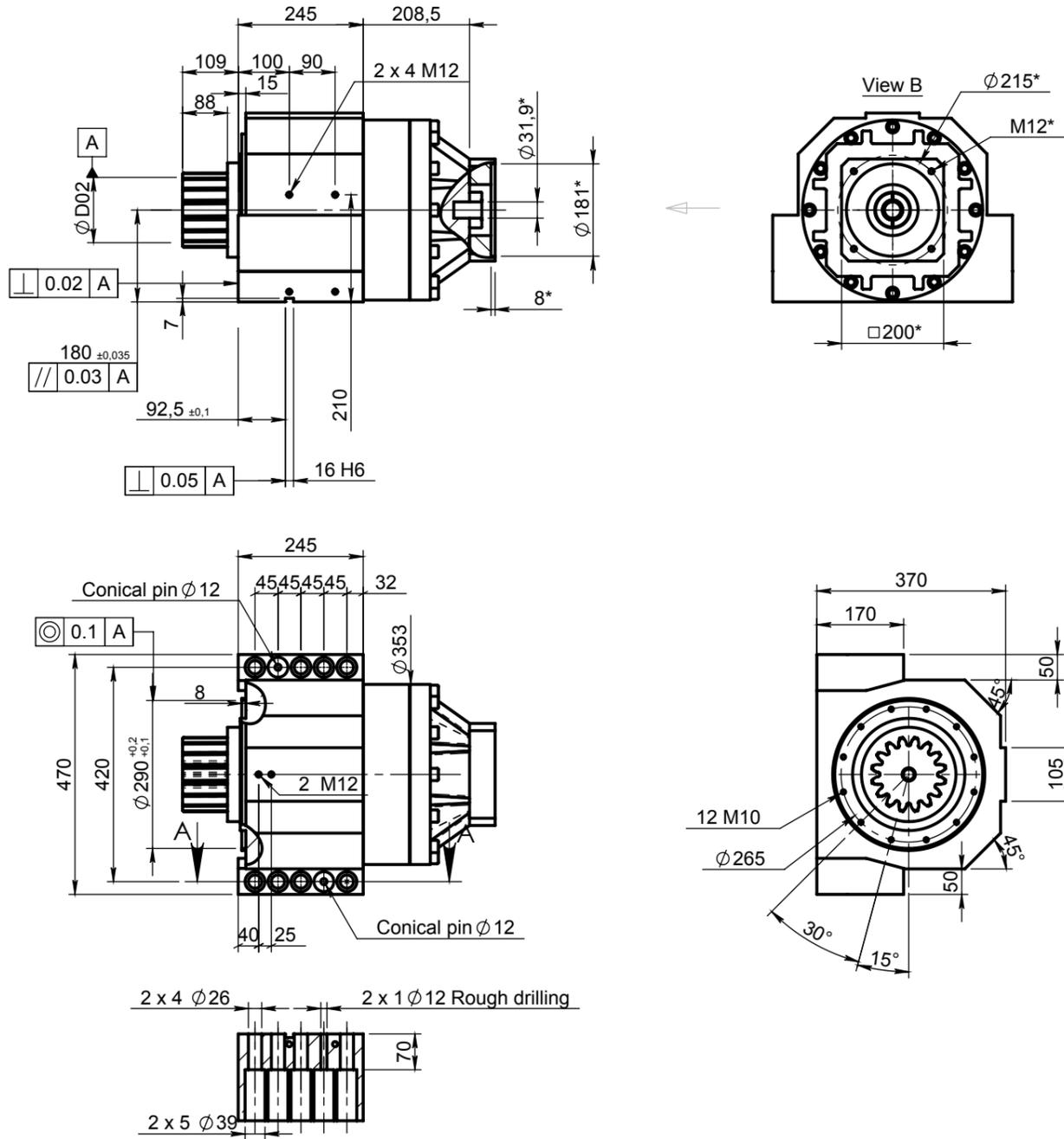
Z2	Number of teeth	15
α	Pressure angle	20°
β	Helix angle (Left)	19°31'42"
m0	Module	mm 8
D02	Theoretical Pitch diameter	mm 127,32
x0	Addendum modification factor	0,354
Pinion quality grade 6 (ISO 1328), surface hardness 61 to 63 HRC		

ADDITIONAL FEATURES

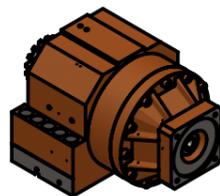
- Splash lubrication with synthetic PAO based oil with viscosity 150Cst at 40°C for all mounting positions (except DRP+R/KRP(X)+R with output pinion up requiring recirculation pump).
- Paint RAL 2002



OUTLINE DIMENSIONS



COUPE A-A



* According to motor dimensions
Tapping depth = 1.5 x Ø thread

TECHNICAL FEATURES

PERFORMANCES

Unit codification		Single.KRPX5+M.2stage.S
T2B Maximum output torque	Nm	(i=21) 7520 (i=31) 10050 (i=46) 8800 (i=61) 8800 (i=91) 8800
T2N Nominal output torque	Nm	(i=21) 4700 (i=31) 6700 (i=46) 5500 (i=61) 5500 (i=91) 5500
T2NOT E-stop torque	Nm	11500
n1B Maximum input speed	RPM	4000
n1N Nominal input speed	RPM	1000
T01 No load torque (n1<100 RPM)	Nm	4
C2t Torsional stiffness	Nm/rad	3420000
	Nm/arcmin	994,8
K2R Radial stiffness	N/µm	1750
K2A Axial stiffness	N/µm	5484
J1 Mass moment of inertia	Kg.mm²	2965
η Efficiency at rated input speed	%	>93
m Weight	Kg	0

INTEGRAL OUTPUT PINION

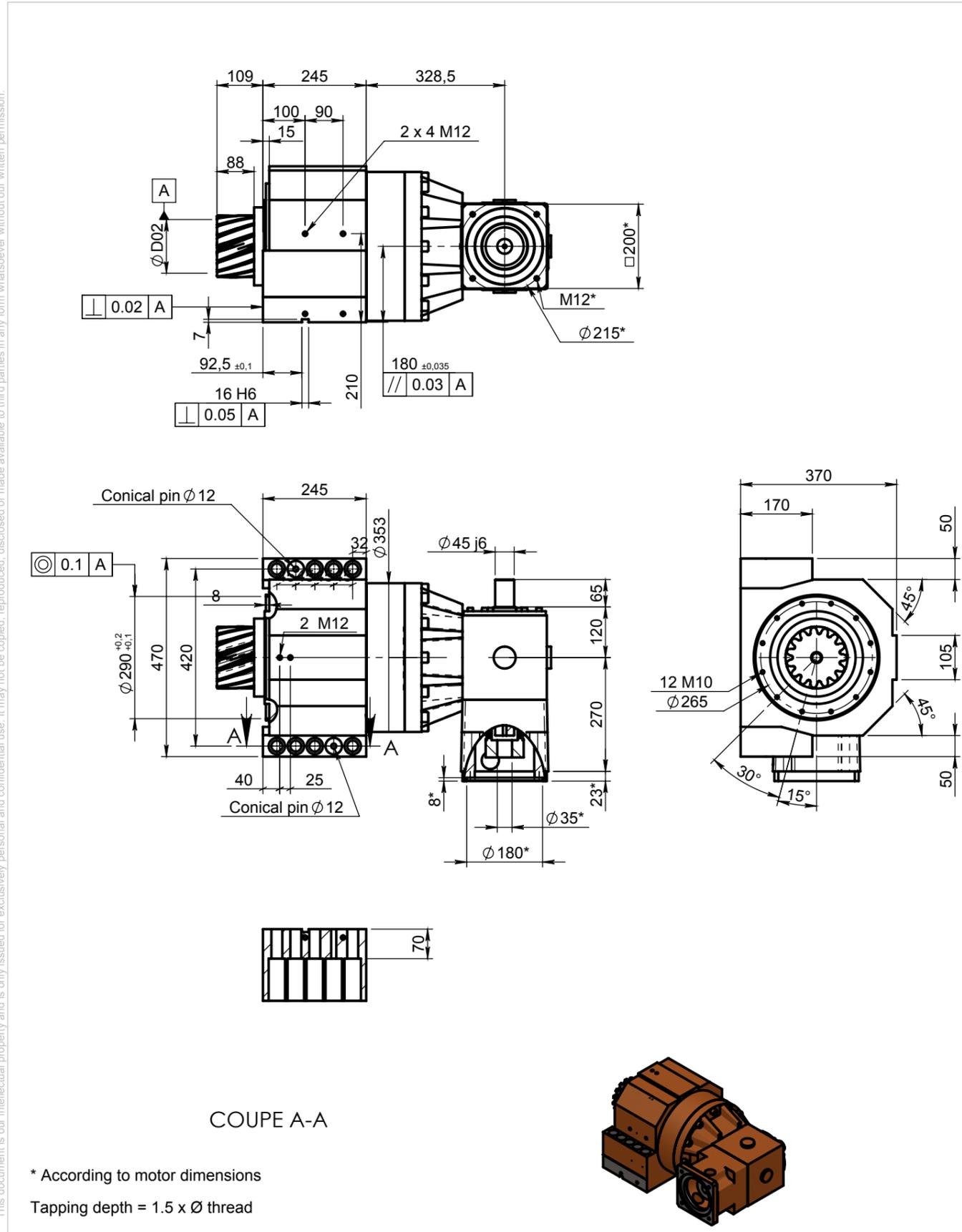
Z2 Number of teeth		16
α Pressure angle		20°
m0 Module	mm	8
D02 Theoretical Pitch diameter	mm	128
x0 Addendum modification factor		0,311
Pinion quality grade 6 (ISO 1328), surface hardness 61 to 63 HRC		

ADDITIONAL FEATURES

- Splash lubrication with synthetic PAO based oil with viscosity 150Cst at 40°C for all mounting positions (except DRP+R/KRP(X)+R with output pinion up requiring recirculation pump).
- Paint RAL 2002



OUTLINE DIMENSIONS



TECHNICAL FEATURES

PERFORMANCES

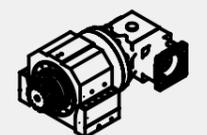
Unit codification		Single.KRPX5+R.2stage.H
T2B Maximum output torque	Nm	(i=21) 7520 (i=31) 10050 (i=46) 8800 (i=61) 8800 (i=91) 8800
T2N Nominal output torque	Nm	(i=21) 4700 (i=31) 6700 (i=46) 5500 (i=61) 5500 (i=91) 5500
T2NOT E-stop torque	Nm	11500
n1B Maximum input speed	RPM	4000
n1N Nominal input speed	RPM	1000
T01 No load torque (n1<100 RPM)	Nm	5,2
C2t Torsional stiffness	Nm/rad	3420000
K2R Radial stiffness	Nm/arcmin	994,8
K2A Axial stiffness	N/ μ m	1750
J1 Mass moment of inertia	Kg.mm ²	13059
η Efficiency at rated input speed	%	>91
m Weight	Kg	0

INTEGRAL OUTPUT PINION

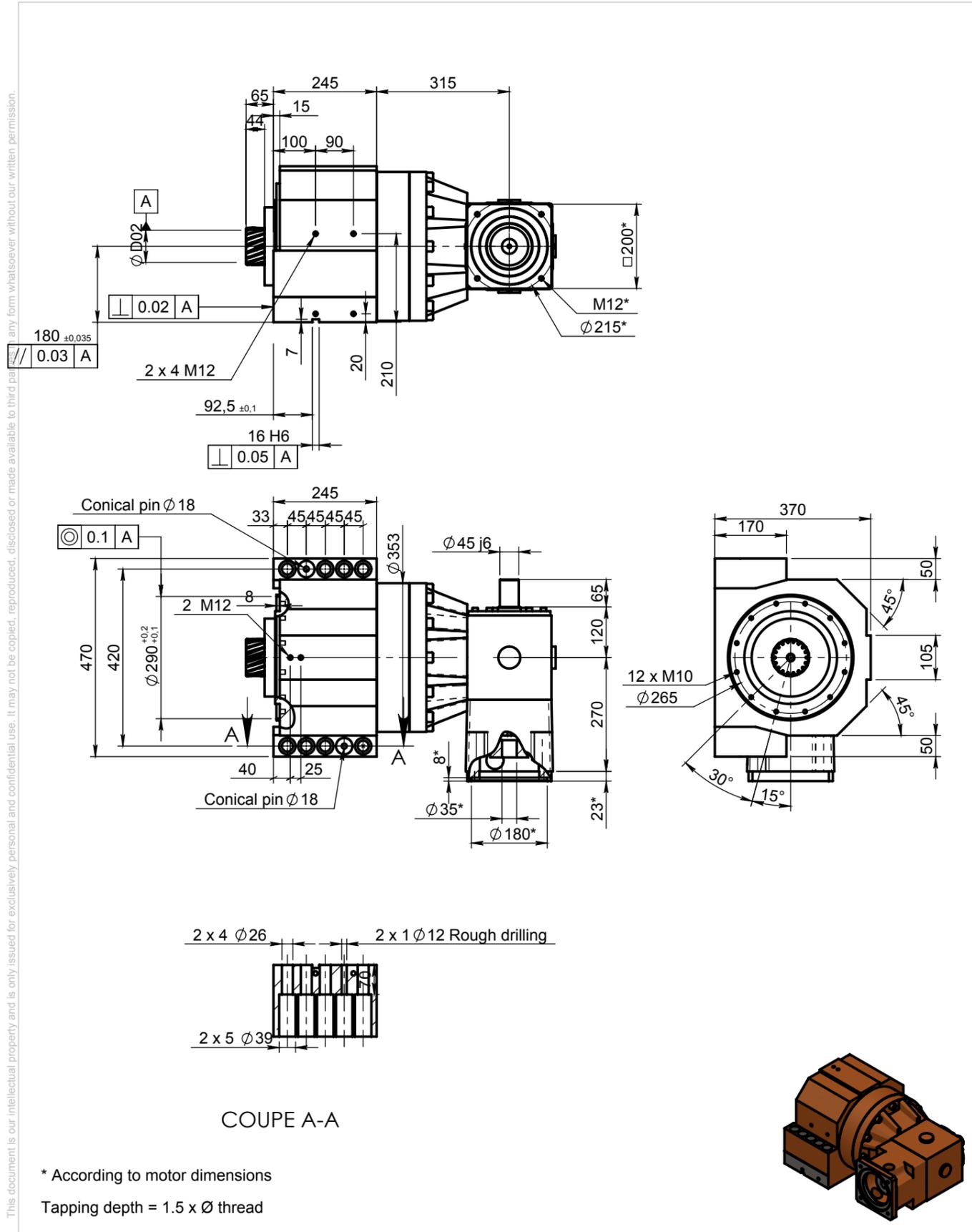
Z2 Number of teeth		15
α Pressure angle		20°
β Helix angle (Left)		19°31'42"
m0 Module	mm	8
D02 Theoretical Pitch diameter	mm	127,32
x0 Addendum modification factor		0,354
Pinion quality grade 6 (ISO 1328), surface hardness 61 to 63 HRC		

ADDITIONAL FEATURES

- Splash lubrication with synthetic PAO based oil with viscosity 150Cst at 40°C for all mounting positions (except DRP+R/KRP(X)+R with output pinion up requiring recirculation pump).
- Paint RAL 2002



OUTLINE DIMENSIONS



TECHNICAL FEATURES

PERFORMANCES

Unit codification		Single.KRPX5+R.2stage.S	
T2B	Maximum output torque	Nm	(i=21) 7520 (i=31) 10050 (i=46) 8800 (i=61) 8800 (i=91) 8800
T2N	Nominal output torque	Nm	(i=21) 4700 (i=31) 6700 (i=46) 5500 (i=61) 5500 (i=91) 5500
T2NOT	E-stop torque	Nm	11500
n1B	Maximum input speed	RPM	4000
n1N	Nominal input speed	RPM	1000
T01	No load torque (n1<100 RPM)	Nm	5,2
C2t	Torsional stiffness	Nm/rad	3420000
K2R	Radial stiffness	Nm/arcmin	994,8
K2A	Axial stiffness	N/µm	1750
J1	Mass moment of inertia	Kg.mm²	13059
η	Efficiency at rated input speed	%	>91
m	Weight	Kg	0

INTEGRAL OUTPUT PINION

Z2	Number of teeth	16
α	Pressure angle	20°
m0	Module	8
D02	Theoretical Pitch diameter	128
x0	Addendum modification factor	0,311
Pinion quality grade 6 (ISO 1328), surface hardness 61 to 63 HRC		

ADDITIONAL FEATURES

- Splash lubrication with synthetic PAO based oil with viscosity 150Cst at 40°C for all mounting positions (except DRP+R/KRP(X)+R with output pinion up requiring recirculation pump).
- Paint RAL 2002

