KNGEAR

TECHNICAL PRODUCT CATALOGUE

YHJ SERIES GEAR REDUCERS

FOR DOUBLE-SHAFT ZERO-GRAVITY MIXERS

Six reducer sizes / YHJ570 - YHJ1360

Ratios, motor frames and installation drawings

Oil-fill references and service guidance

kngear.com

Product reference edition | October 2026

PRODUCT OVERVIEW

Twin-shaft mixer gearbox range

Designed for synchronized counter-rotating mixer shafts from a single motor.

Drive concept. A single motor drives two output shafts through an enclosed gear arrangement. The original product literature describes synchronized opposite-direction rotation, with bidirectional operation available by special configuration.

Construction. Cast-iron or fabricated-steel housing; carburized and ground alloy-steel gears (Grade 6 accuracy stated in the original literature), nominal tooth-surface hardness HRC 58-62; forced gear-pump lubrication.

MODEL / RATIO / APPLICATION REFERENCES

Model	Nominal ratio	Actual ratio	Motor (kW, 4-pole)	Mixing vol. (m3)
YHJ570	35	34.65	15	1-1.5
YHJ700	35	33.35	18.5 / 22	2-3
YHJ890	35 / 50	32.26 / 50.36	37 / 30	4-5
YHJ1050	50	49.50	45 / 55	6-8
YHJ1230	50	50.00	55 / 75	10-12
YHJ1360	50	49.05	90	12-15

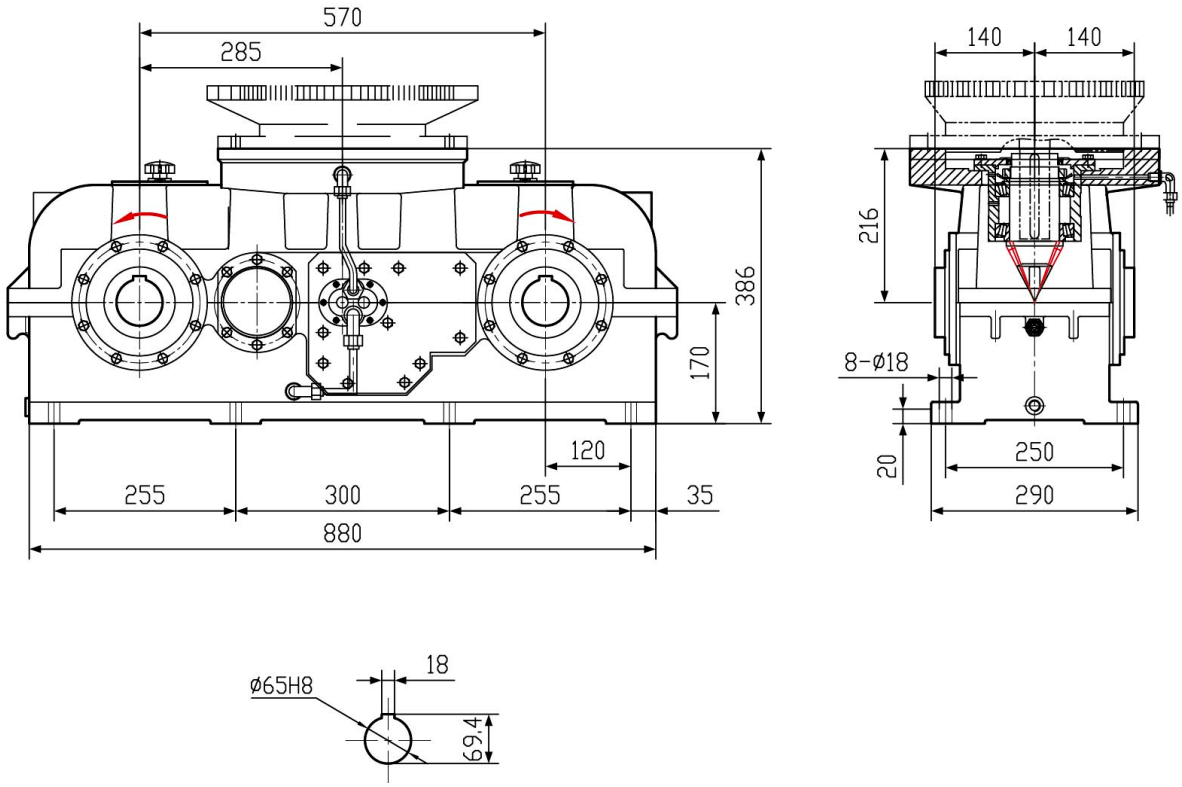
Source volume parameter: 0.4-0.6 (common to all six models). Values are reference selections, not a final drive-system guarantee. Motor alternatives shown in the same row correspond to the published catalogue options.

Operating range: Input speed up to 1500 rpm. Stated ambient temperature: -10 to +40 C; installation altitude below 1000 m. Standard ratios are listed above; other ratios require engineering confirmation.

GENERAL ARRANGEMENT / DIMENSIONAL REFERENCE

YHJ570 | Installation dimensions

Two output shafts / All dimensions shown in millimetres

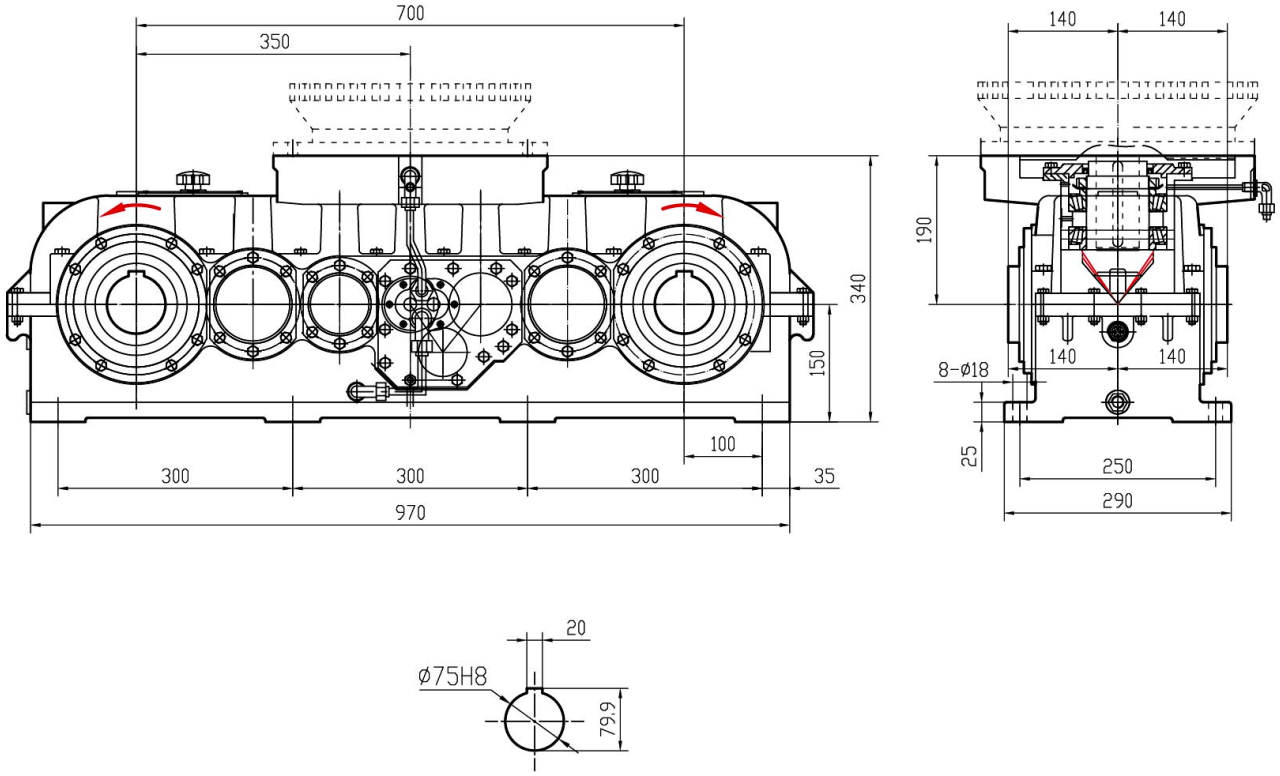


Nominal ratio: 35 **Actual ratio: 34.65** **4-pole motor: 15 kW** **Mixing volume: 1-1.5 m3**

GENERAL ARRANGEMENT / DIMENSIONAL REFERENCE

YHJ700 | Installation dimensions

Two output shafts / All dimensions shown in millimetres

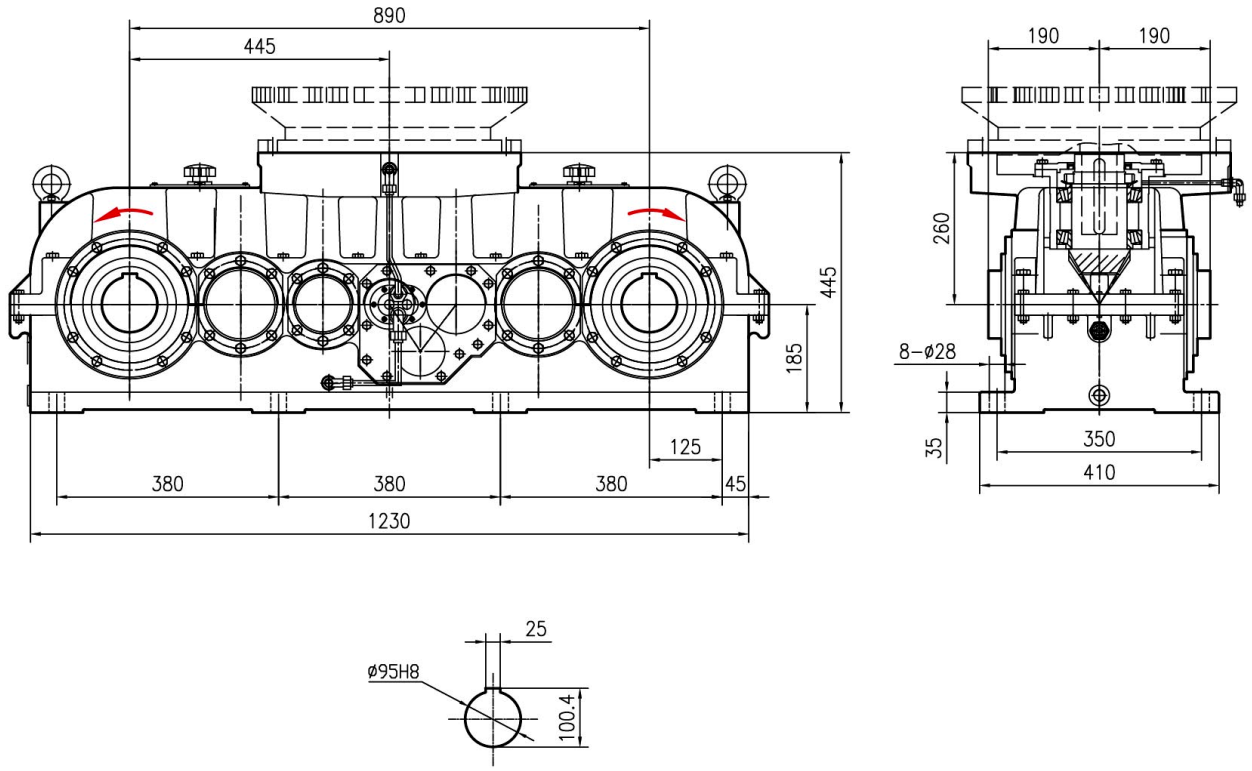


Nominal ratio: 35 Actual ratio: 33.35 4-pole motor: 18.5 / 22 kW Mixing volume: 2-3 m3

GENERAL ARRANGEMENT / DIMENSIONAL REFERENCE

YHJ890 | Installation dimensions

Two output shafts / All dimensions shown in millimetres

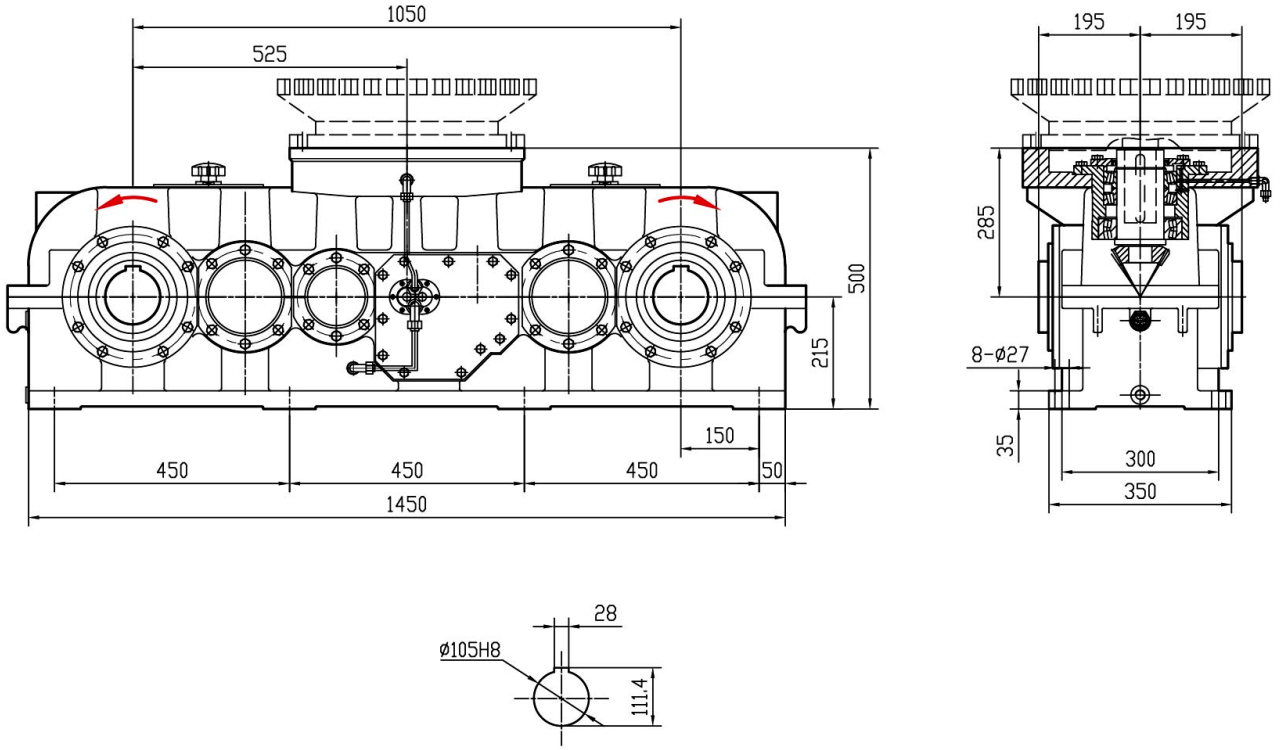


Nominal ratio: 35 / 50 **Actual ratio: 32.26 / 50.36** **4-pole motor: 37 / 30 kW** **Mixing volume: 4-5 m3**

GENERAL ARRANGEMENT / DIMENSIONAL REFERENCE

YHJ1050 | Installation dimensions

Two output shafts / All dimensions shown in millimetres

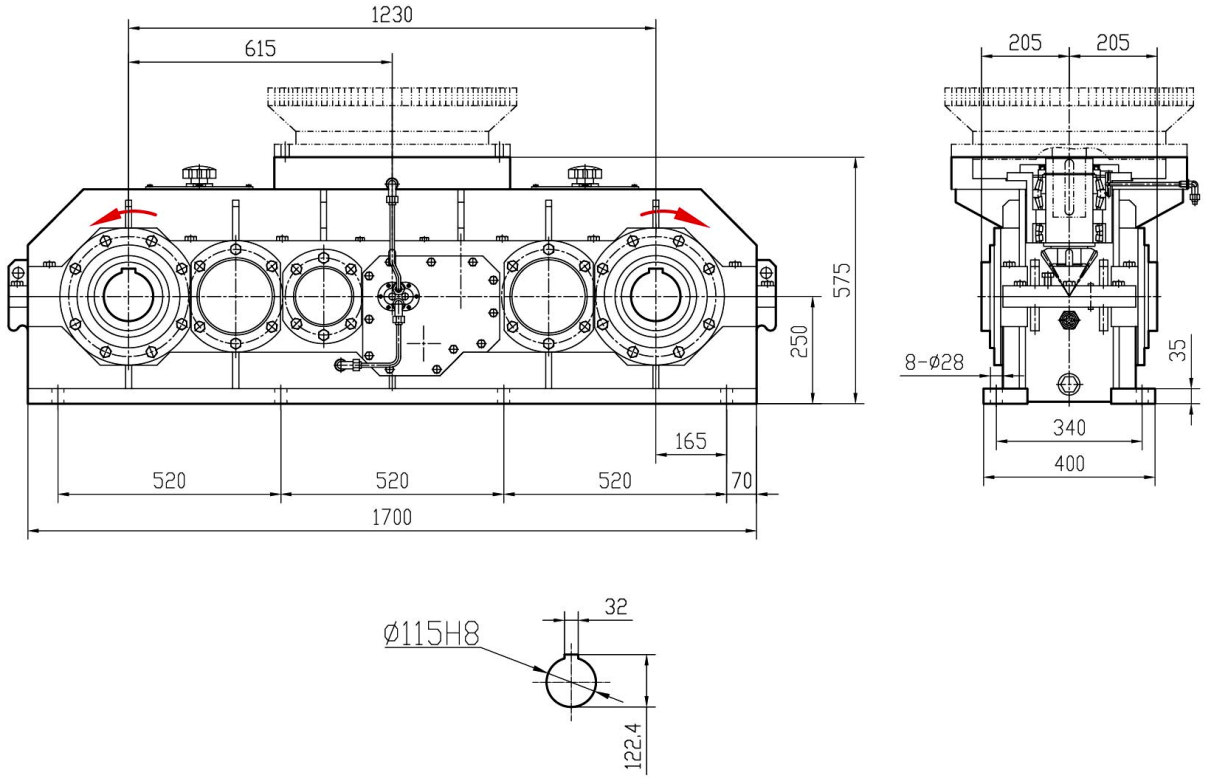


Nominal ratio: 50 **Actual ratio: 49.50** **4-pole motor: 45 / 55 kW** **Mixing volume: 6-8 m3**

GENERAL ARRANGEMENT / DIMENSIONAL REFERENCE

YHJ1230 | Installation dimensions

Two output shafts / All dimensions shown in millimetres

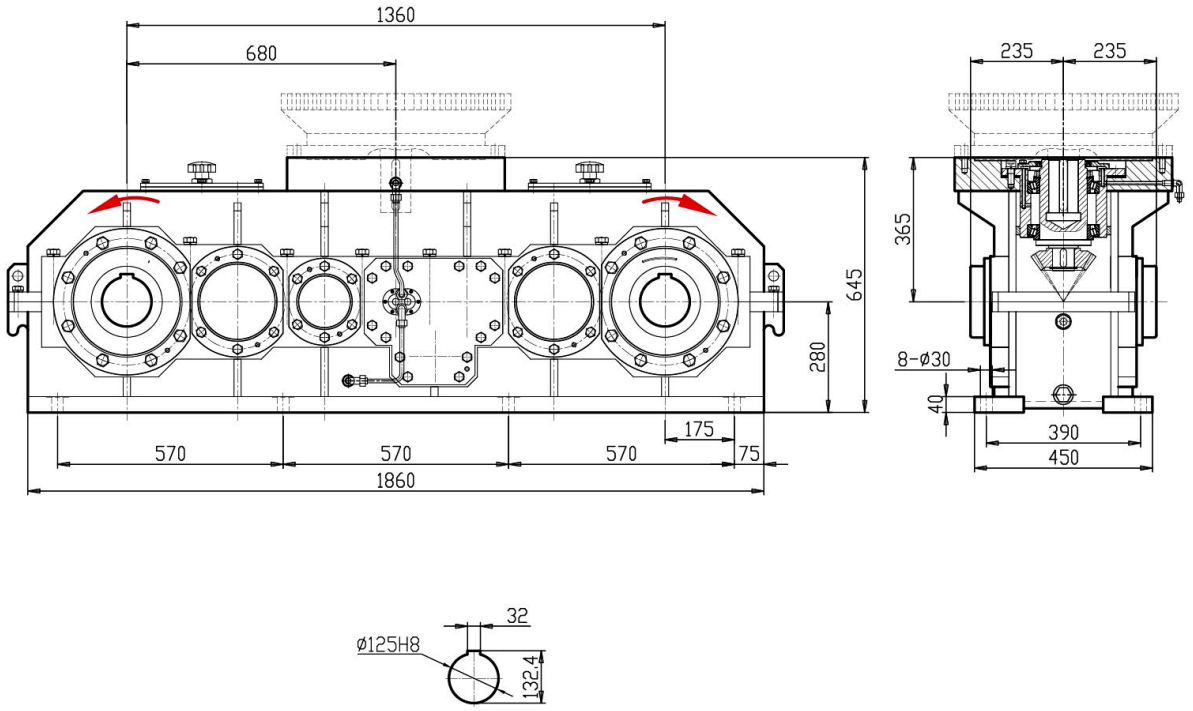


Nominal ratio: 50 **Actual ratio: 50.00** **4-pole motor: 55 / 75 kW** **Mixing volume: 10-12 m3**

GENERAL ARRANGEMENT / DIMENSIONAL REFERENCE

YHJ1360 | Installation dimensions

Two output shafts / All dimensions shown in millimetres



Nominal ratio: 50 **Actual ratio: 49.05** **4-pole motor: 90 kW** **Mixing volume: 12-15 m3**

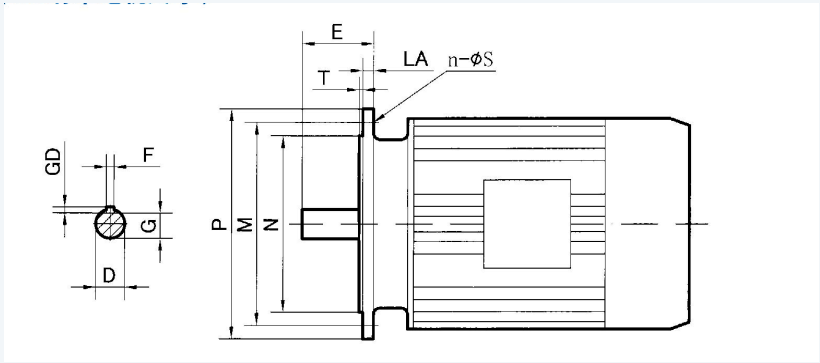
INTERFACE DATA

IEC motor mounting references

Motor shaft and flange dimensions reproduced in English from the reference catalogue.

Dimension keys
D = shaft diameter; E = shaft extension; F x GD = key size; G = keyway reference; M, N, P = flange dimensions; T = flange thickness; n x dia. S = bolt-hole arrangement.

All values below are in mm unless otherwise specified. Motor frame and mounting interface must be confirmed against the selected motor supplier's actual drawing.



MOTOR INSTALLATION DIMENSIONS

Frame	kW	D	E	F x GD	G	M	N	P	T	n	S
160L	15	42	110	12x8	37	300	250	350	5	4	19
180M	18.5	48	110	14x9	42.5	300	250	350	5	4	19
180L	22	48	110	14x9	42.5	300	250	350	5	4	19
200L	30	55	110	16x10	49	350	300	400	5	4	19
225S	37	60	140	18x11	53	400	350	450	5	8	19
225M	45	60	140	18x11	53	400	350	450	5	8	19
250M	55	65	140	18x11	58	500	450	550	5	8	19
280S	75	75	140	20x12	67.5	500	450	550	5	8	19
280M	90	75	140	20x12	67.5	500	450	550	5	8	19

APPLICATION NOTES

Installation and lubrication

Reference guidance reproduced from the source material; confirm details before commissioning.

INSTALLATION / OPERATION

01 / Foundation. The reducer is intended for a hollow-shaft installation on a floor-fixed base. Do not strike or hammer the reducer output shafts during installation.

02 / Initial filling. The reducer is supplied without lubricating oil according to the source. Fill with the specified grade before starting.

03 / Oil change. Replace the oil after the first 800 operating hours; thereafter replace approximately every 5,000 operating hours.

RECOMMENDED OIL

Kunlun L-CKC 220/320 industrial gear oil, or a lubricant of equivalent performance (source catalogue recommendation).

Oil quantity: use as a starting reference only. The actual oil level must be determined by the gearbox oil-level indicator.

REFERENCE OIL-FILL QUANTITIES

Gearbox size	YHJ570	YHJ700	YHJ890	YHJ1050	YHJ1230	YHJ1360
Oil fill (L)	15	20	30	35	55	80

Selection / verification: Product data and dimensions are supplied for preliminary selection. Confirm motor arrangement, shaft interfaces, transmitted torque, mixer duty, lubricant, installation position and final construction drawings for each order.

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