NEFEIT

PRODUCT CATALOG

SERVO ELECTRIC CYLINDERS

Precision in Motion



Shenzhen Nefeit Automation Technology Co., Ltd.

www.nefeit.com

QUALITY IN MOTION

Precision Linear Motion Solutions

Shenzhen Nefeit Automation Technology Co., Ltd.

Building 24, Jewelry Culture Industrial Park
568 Huanchang North Road, Changping Town
Dongguan, Guangdong, China

Tel: +86 173 0442 8709

Email: nefeit168@126.com

WhatsApp: +86 17324467580



ABOUT NEFEIT

Shenzhen Nefeit Automation Technology Co., Ltd. develops, designs, manufactures and supplies servo electric cylinders, electric multi-axis motion platforms and servo control systems. Our modular electromechanical solutions support programmable position, speed and force control across industrial automation applications.

NEFEIT combines modular design with selected imported components, CNC machining, coordinate measurement and temperature-controlled assembly. This approach supports precision, assembly consistency, responsive motion and smooth low-speed operation.

APPLICATIONS & MARKETS

Applications include automotive manufacturing, motion simulation, entertainment equipment, power generation, continuous casting and special-material processing. NEFEIT serves customers including FAW and BYD and exports products to Japan, the United States and Southeast Asia.

ENGINEERING CAPABILITIES

UP TO **2,000** kN
Portfolio peak force

UP TO **1,500** mm/s
Portfolio peak speed

Separate maxima across different configurations; not simultaneous ratings.

QUALITY & INNOVATION

ISO 9001 certification, approximately 20 actuator-related patents and two provincial high-tech product recognitions support our commitment to quality and continued development.

COMPANY PROFILE

Precision Linear Motion Solutions



01 OUR PHILOSOPHY

Efficiency, innovation, development and shared progress. We focus on product quality, operating performance and competitive costs.

02 OUR VISION

Provide smarter automation products that benefit people.

03 OUR MISSION

Be a trusted motion-control partner to intelligent equipment manufacturers.

04 RESEARCH & DEVELOPMENT

NEFEIT allocates 8% of annual sales revenue to product research and development, with continuous work on component selection, functional modules and product upgrades.

05 CUSTOMER EXPERIENCE

Cooperation with more than 500 companies and numerous universities reflects our focus on application engineering and long-term customer support.

06 PATENT PORTFOLIO

Approximately 20 actuator-related patents cover key functional modules of the product range.

QUALITY CONTROL

Inspection and testing for controlled linear motion.



AXIAL FORCE
TEST BENCH



INTEGRATED FUNCTIONAL
TEST BENCH



PRECISION DISPLACEMENT
TEST BENCH

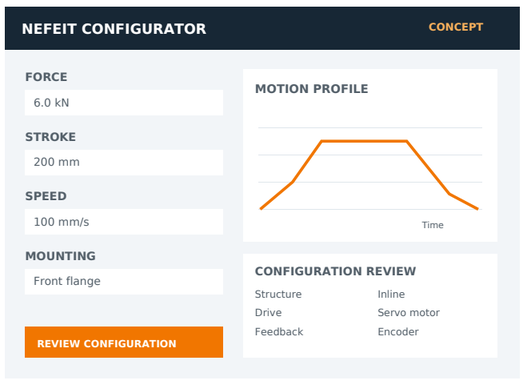
Enhanced equipment illustrations

DIGITAL OPERATIONS & SELECTION

Production management and actuator selection software.



PRODUCTION MANAGEMENT
Concept interface - illustrative data



ACTUATOR CONFIGURATOR
Concept interface - illustrative parameters

CONTENTS

Product information and engineering reference

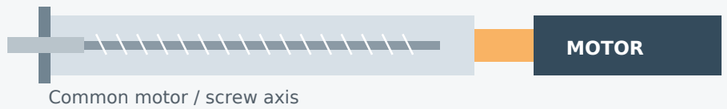
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OPERATING PRINCIPLES

From rotary motion to controlled linear travel.

A servo electric cylinder combines a motor and a screw drive in a modular assembly. The screw converts motor rotation into linear movement. Servo feedback supports controlled position and speed; direct force control requires suitable sensing and control hardware.

INLINE CONFIGURATION



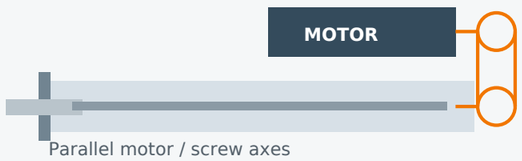
Common motor / screw axis

COAXIAL LAYOUT

ROTARY → LINEAR

The motor is coaxial with the screw and drives it through a coupling, with a gearbox where specified. Motor-encoder rotation is converted into estimated travel using the screw lead and transmission ratio. A linear encoder provides direct displacement feedback.

FOLDED-BACK CONFIGURATION



Parallel motor / screw axes

TIMING-BELT DRIVE

The motor sits parallel to the cylinder body. A timing-belt transmission can reduce axial installation length compared with an inline layout, while increasing lateral space requirements. Select the motor, transmission and mounts for the application.

SELECTION REFERENCE

CATALOGUE RANGE*	10 kgf-120 tf / stroke: 10-1,500 mm
REPEATABILITY	Model-specific; confirm test conditions
FORCE CONTROL	Load-cell feedback and controller required

*Legacy catalogue range, across configurations; use the approved model data sheet.

FEATURES & CONTROL

Configuration and motion-control options.

DESIGN FEATURES

- Compact, modular construction.
- Servo-driven position and speed control.
- Ball-screw and roller-screw options.
- Modular assembly with application-specific interfaces.
- Force, speed and duty cycle require application sizing.

CUSTOM CONFIGURATIONS

INSTALLATION	Mounting interfaces, anti-rotation and gearboxes
ENVIRONMENT	Dust, moisture and temperature protection
FEEDBACK	Linear displacement and force sensors

Marine and explosion-protected applications require a specifically engineered and verified configuration.

SERVO CONTROL MODES

01 POSITION WITH TORQUE LIMITING

Combines position commands with a motor-torque limit. It does not guarantee output-force accuracy. Configure travel limits and overtravel protection separately.

02 TORQUE CONTROL

Controls motor torque, not measured thrust. Force estimates depend on friction and efficiency. Closed-loop force control needs a load cell and a compatible controller.

03 POSITION CONTROL

Commands target positions for positioning and transfer tasks. Motor feedback infers travel; a linear encoder measures displacement directly. Configure travel protection.

04 SPEED CONTROL

Commands motor speed for controlled linear feed. Flow depends on the driven mechanism. Configure travel limits and torque limits for the application.

- Schematics are not to scale. Control modes and limits depend on the selected drive.

SIZING GUIDE

Define the inputs. Calculate motion. Verify service life.

01 DEFINE THE INPUTS

T	Motor torque at operating speed	N·m
n	Motor speed	rpm
p	Screw lead	mm/rev
R	Speed ratio: motor / screw	-
η	Total forward mechanical efficiency	0 to 1

02 CALCULATE THRUST & SPEED

AXIAL THRUST

$$F = 2\pi T \eta R / p$$

F in kN

T in N·m; p in mm/rev

LINEAR SPEED

$$v = np / (60R)$$

v in mm/s

n in rpm; p in mm/rev

Use torque available at the required speed. Check the motor torque-speed curve, screw critical speed and compression buckling. Peak force and peak speed are not automatically available together.

03 CHECK BALL-SCREW LIFE

$$L_{10} = (C_a / F_eq)^3 \times 10^6 \quad \text{rev}$$

$$D_{10} = L_{10} \times p \times 10^{-6} \quad \text{km}$$

C_a: basic dynamic axial load rating. $F_e q$: equivalent dynamic axial load. Use the same force units. For variable loads, use a travel-weighted cubic mean; account for preload and application factors.

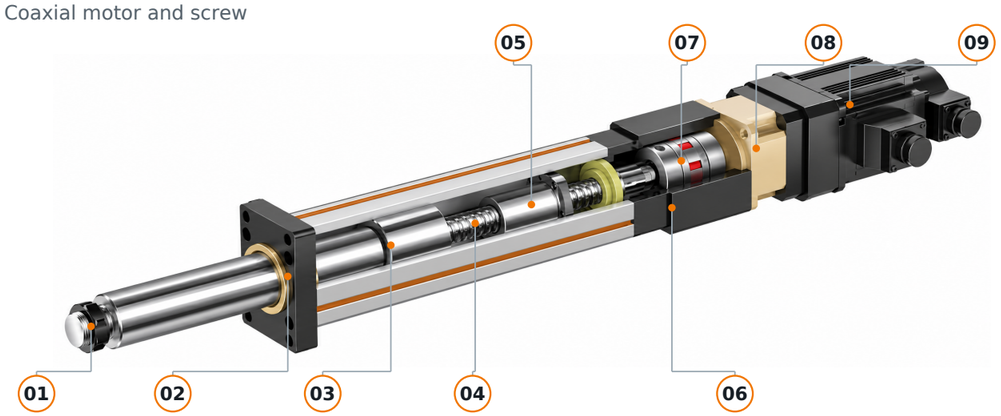
L_{10} assumes 90% reliability; it is not total actuator service life. Use the supplier's method for roller screws. Efficiency is configuration-dependent.

INTERNAL CONSTRUCTION

Illustrative cutaways. Matching numbers identify the same parts.

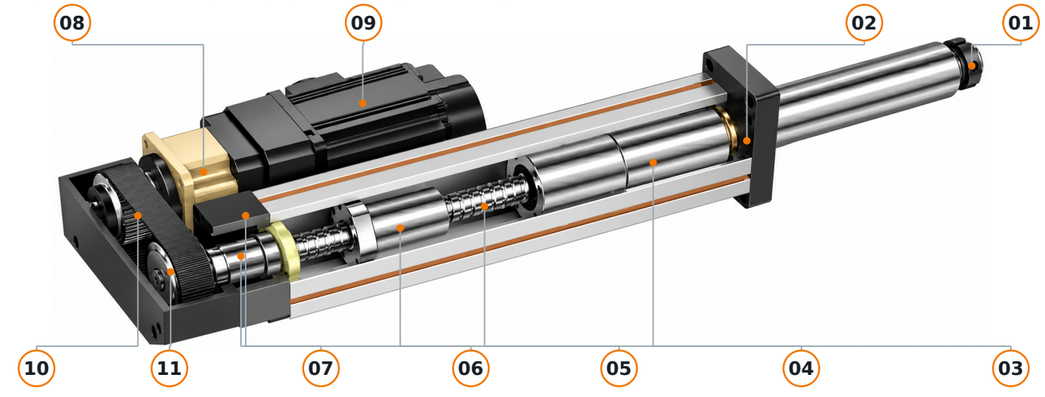
INLINE CONFIGURATION

Coaxial motor and screw



01	Rod-end nut	02	Front flange	03	Thrust tube
04	Screw shaft	05	Screw nut	06	Bearing housing
07	Coupling	08	Gearbox	09	Servo motor

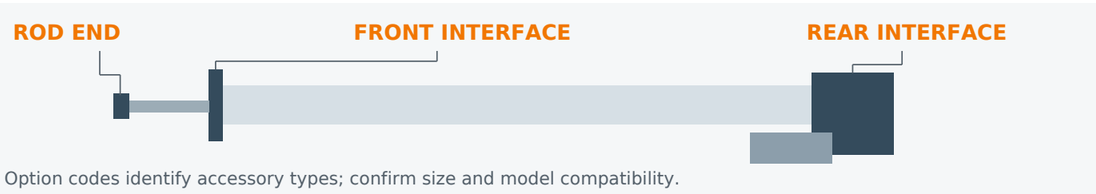
FOLDED-BACK CONFIGURATION



01	Rod-end nut	02	Front flange	03	Thrust tube
04	Screw shaft	05	Screw nut	06	Bearing housing
07	Coupling	08	Gearbox	09	Servo motor
10	Timing belt	11	Timing pulleys		

MOUNTING ACCESSORIES

Choose the mounting position, then the connection type.



Option codes identify accessory types; confirm size and model compatibility.

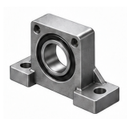
FIXED BODY MOUNTS



M03
Rear Mounting Plate
Rear · fixed body mounting.



M01
Front Mounting Flange
Front · locating / fixed mounting.



M02
Front Foot Mount
Front · foot-style mounting.

ROD-END & SENSING



F01
Force-Sensor Mount
Load interface · sensor mounting.



J01
Rod-End Clevis
Rod end · pin-jointed connection.



J02
Spherical Rod End
Rod end · spherical articulation.

PIVOT MOUNTS



M04
Rear Single-Lug Mount
Rear · single-lug pivot joint.



M05
Rear Clevis Mount
Rear · twin-lug pivot joint.

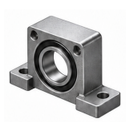


M06
Rear Trunnion Mount
Rear · pivot support.



M07
Front Trunnion Mount
Front · pivot support.

GUIDANCE & SUPPORT



M08
Foot-Mounted Bearing Support
Transmission end · foot support.

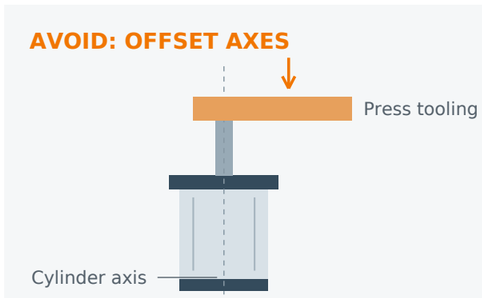


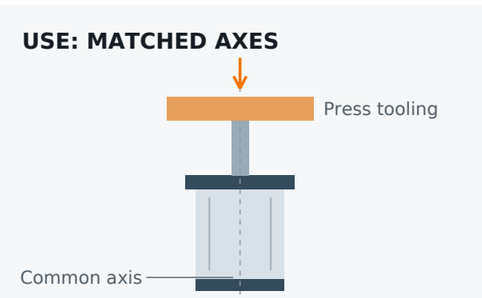
G01
Twin-Rod Guide Assembly
Front · twin-rod guidance.

INSTALLATION REQUIREMENTS

Correct mounting. Axial loading. Clear application requirements.

01 MOUNTING & ALIGNMENT





A Use a locating flange where high positioning accuracy and concentric alignment are required.

B Keep the applied load axial. Do not use the thrust-rod end to support radial loads.

02 AXIAL & RADIAL LOADS



Reference-based product illustration.

03 TELL US YOUR CONDITIONS

Please specify high dust exposure, overhead or inverted mounting (push/pull), self-locking or load-holding needs, low-noise requirements, synchronized operation of multiple cylinders, and high or low temperatures before selection.

MOUNTING CONFIGURATIONS

Inline and folded-back layouts with clearly identified mounting interfaces.

INLINE | COAXIAL MOTOR

FRONT FLANGE — FA



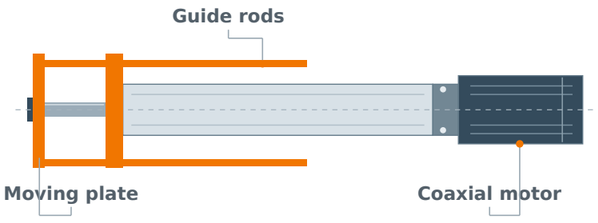
Fixed front interface; align using the locating features.

SIDE MOUNT — LB



Side-mounted brackets; check the model-specific interface.

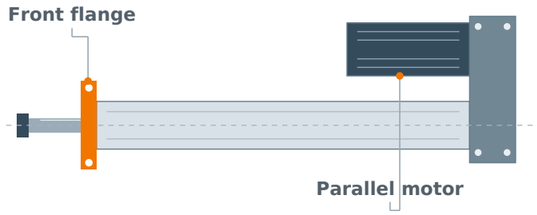
GUIDED FRONT ASSEMBLY — FC



Twin guide rods and a moving front plate.

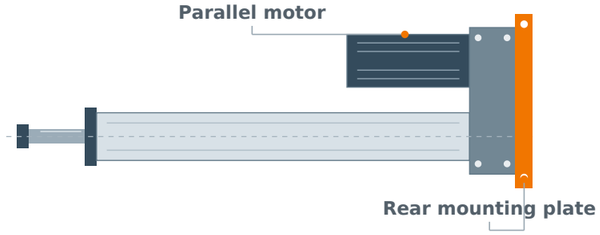
FOLDED-BACK | PARALLEL MOTOR

FRONT FLANGE — FA



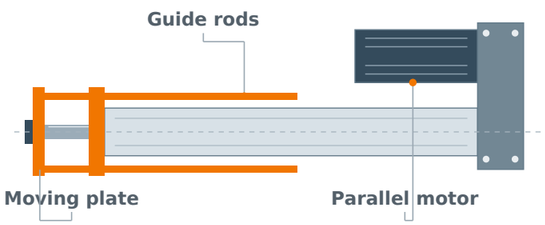
Fixed front interface with a parallel motor layout.

REAR MOUNTING PLATE — FB



Fixed rear plate; confirm clearance and mating geometry.

GUIDED FRONT ASSEMBLY — FC



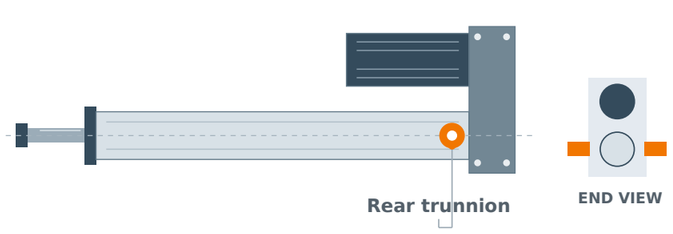
Twin guide rods shown with the folded-back motor layout.

PIN-JOINTED MOUNTING — QH



Illustrative rod-end bearing and rear single-lug combination.

TRUNNION MOUNTING — RZ



Rear trunnion pivot; end view identifies the opposed pins.

FOOT / SUPPORT MOUNTING — LB



Illustrative front foot and rear support arrangement.

Orange = selected mounting interface. Schematics are not to scale; confirm dimensions, load ratings and compatibility for the selected model.

MODEL IDENTIFICATION

Specify the series, stroke, drive and mounting configuration.

MODEL CODE STRUCTURE

NFT – L – T – D/R – FA – N – P

- P — Motor power (W)
- N — Reduction ratio
- FA — Mount: FA / FB / LB / FC / QH / RZ
- D/R — Motor layout: D inline / R folded-back
- T — Screw lead (mm/rev)
- L — Stroke length (mm)
- NFT — Series / frame size, e.g. NFT40

SERIES SELECTION REFERENCE

Series	Listed max. thrust (kN)	Max. stroke (mm)
NFT40	0.5	300
NFT50	1.2	400
NFT60	6	1,000
NFT80	20	1,500
NFT94	30	2,000
NFT110	45	2,000
NFT134	60	1,500
NFT134 reinforced	70	1,200
NFT160	110	1,200
NFT220	250	1,200

Series limits are individual catalogue values; confirm the combined load, stroke and speed for the selected configuration.

MATERIALS Anodized aluminium body; standard chrome-plated 45# steel rod. 304/316 stainless-steel and bearing-steel rod options on request. Material and heat treatment depend on configuration.

NFT40 SERIES

Specifications and dimensional references for selection

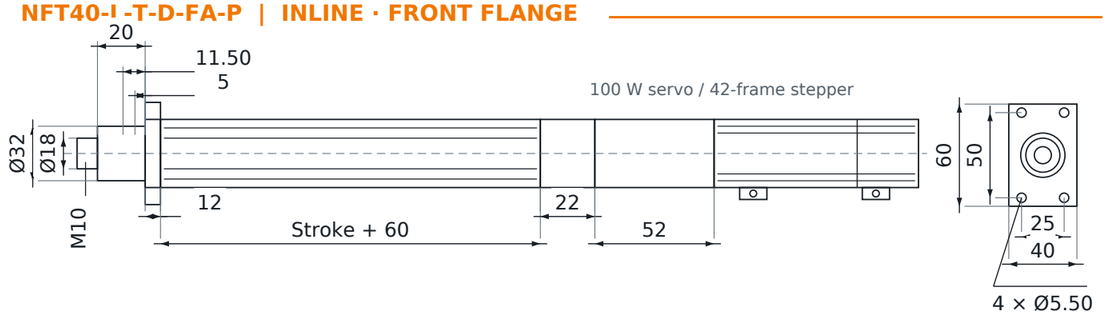
NFT40 SPECIFICATIONS

Screw lead	**2 mm/rev**
Actuator thrust range	**0.01–0.5 kN**
Maximum stroke	**300 mm**

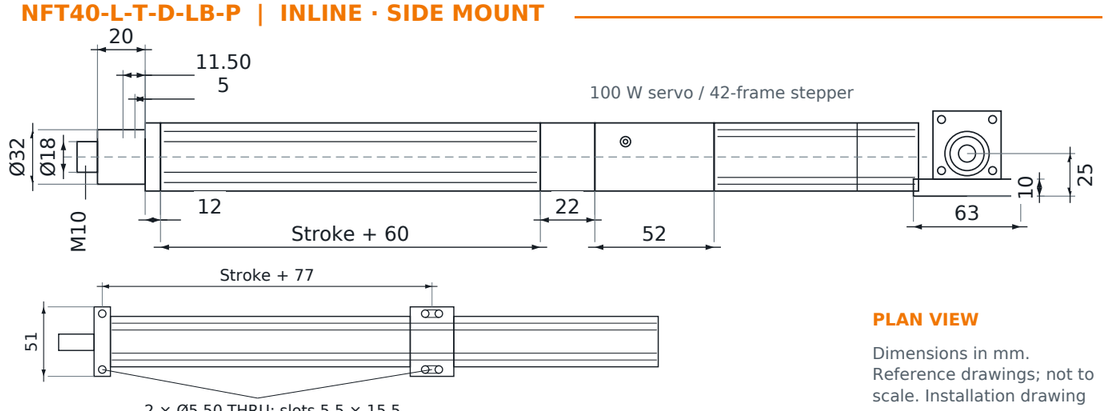
Motor configuration	100 W servo	42-frame stepper
Listed motor torque	**0.32 N·m**	**0.26 N·m**
Motor operating speed	**3,000 rpm**	**To be specified***
Listed rated thrust	**0.5 kN**	**0.05 kN***
Listed linear speed	**100 mm/s**	**10 mm/s***

* Stepper thrust/speed are catalogue references. Confirm the matched motor, drive and operating point before ordering. Torque type is not specified in the source.

NFT40-I -T-D-FA-P | INLINE · FRONT FLANGE



NFT40-L-T-D-LB-P | INLINE · SIDE MOUNT



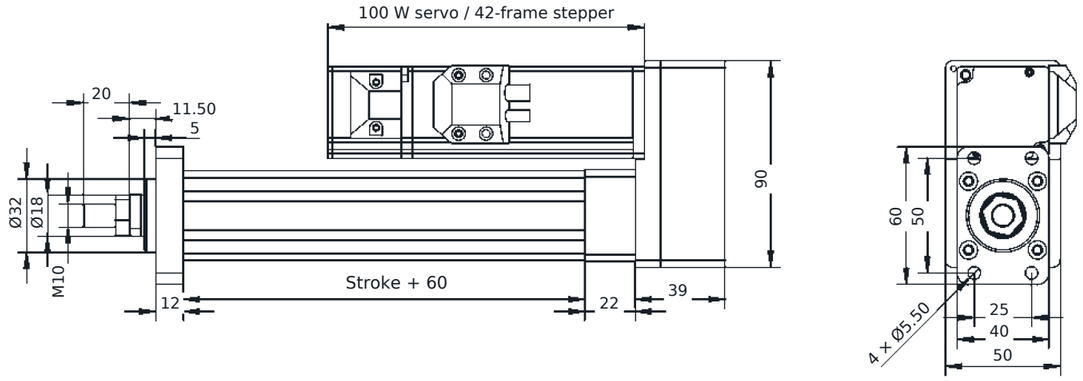
PLAN VIEW

Dimensions in mm. Reference drawings; not to scale. Installation drawing governs.

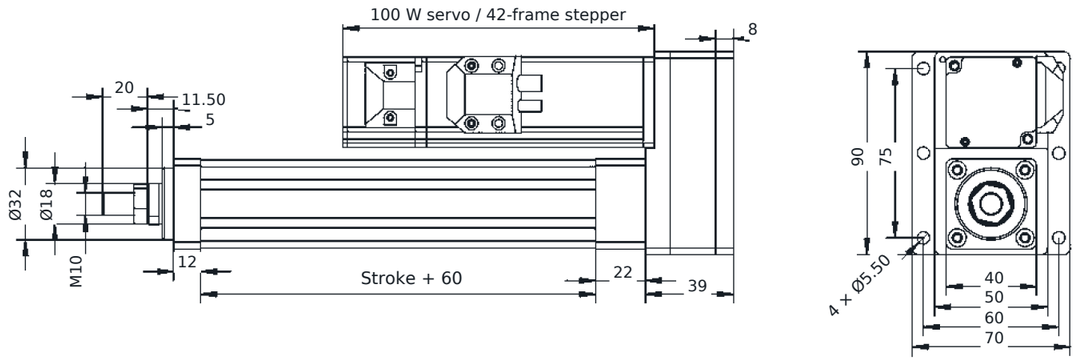
NFT40
FOLDED-BACK

Parallel motor layout · mounting and dimensional references

NFT40-L-T-R-FA-P | FOLDED-BACK · FRONT FLANGE MOUNT



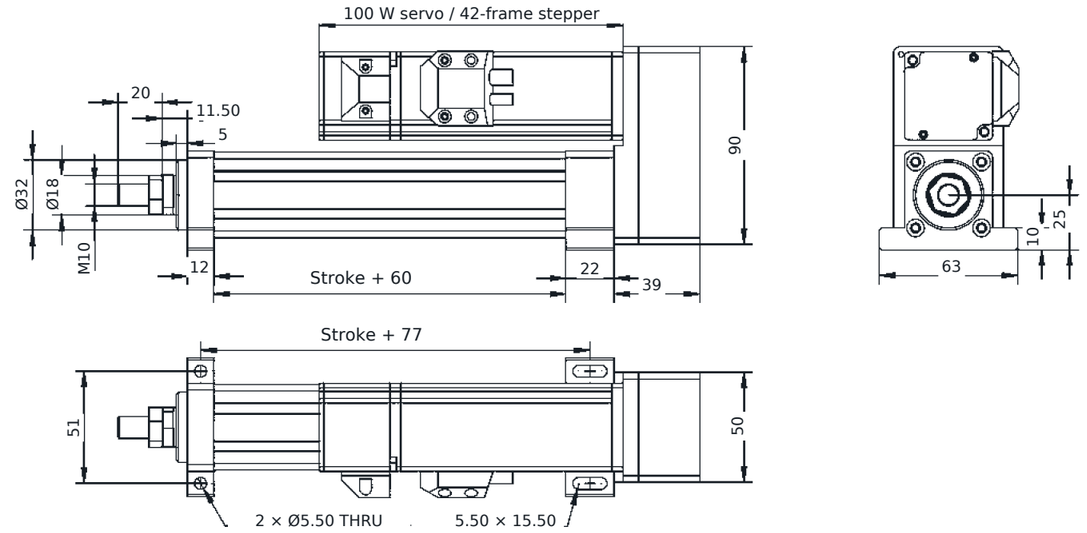
NFT40-L-T-R-FB-P | FOLDED-BACK · REAR FLANGE MOUNT



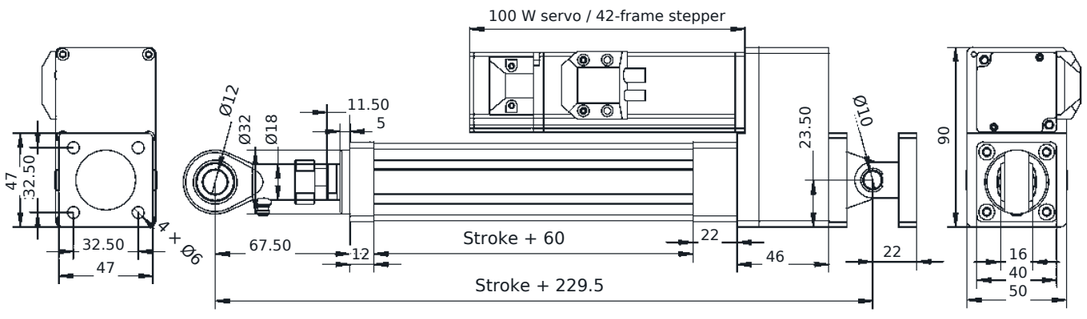
MOUNTING
DIMENSIONS

Mounting configurations and dimensional references

NFT40-L-T-R-LB-P | FOLDED-BACK · SIDE MOUNT



NFT40-L-T-R-QH-P | FRONT SPHERICAL ROD END + REAR HINGE MOUNT



NFT50 SERIES

Specifications and inline mounting dimensions

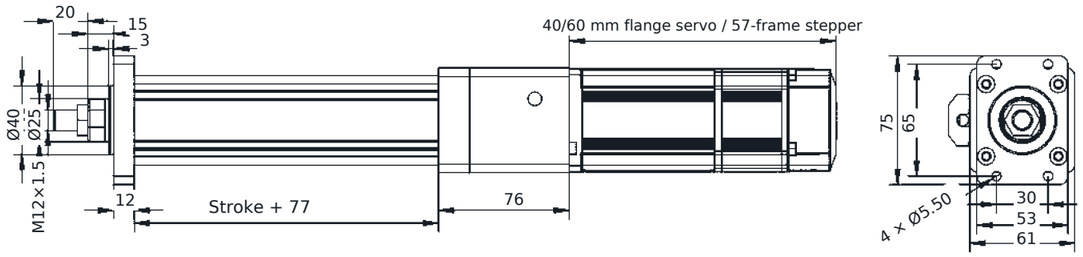
SERVO CONFIGURATION REFERENCE

Actuator thrust range	**0.01–1.2 kN**
Stroke range	**10–400 mm**
Motor rated speed	**3,000 rpm**

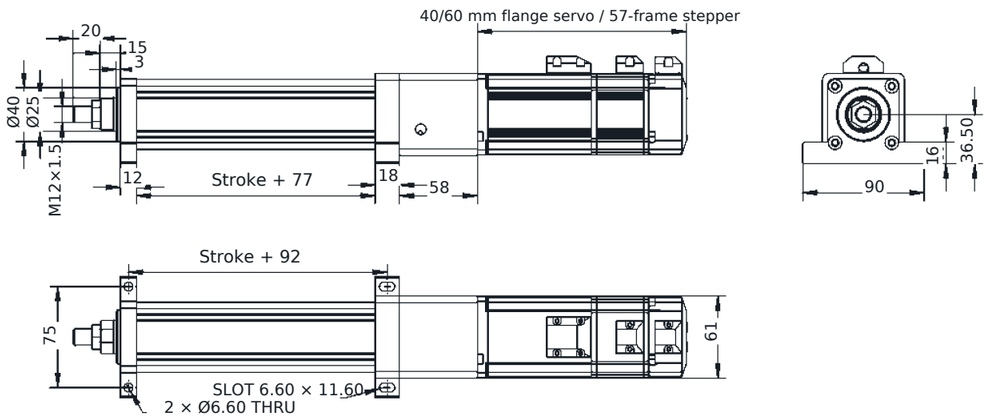
Lead (mm/rev)	Rated thrust (kN)			Speed (mm/s)
	100 W	200 W	400 W	
4	0.4	0.8	1.2	**200**
5	0.3	0.65	1.2	**250**
10	0.15	0.3	0.65	**500**

Rated motor torque (N·m): 100 W / 0.32; 200 W / 0.64; 400 W / 1.27. Servo values at 3,000 rpm, 1:1. Stepper ratings require confirmation.

NFT50-L-T-D-FA-P | INLINE · FRONT FLANGE MOUNT



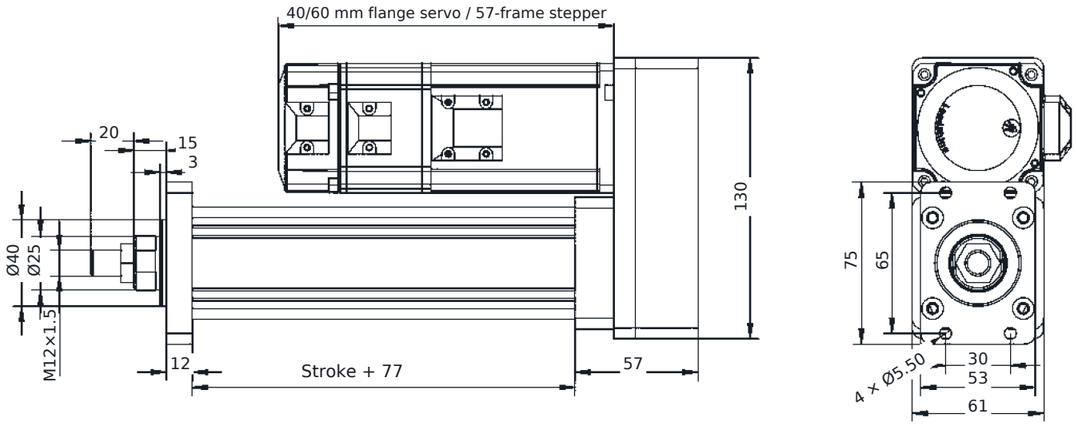
NFT50-L-T-D-LB-P | INLINE · SIDE MOUNT



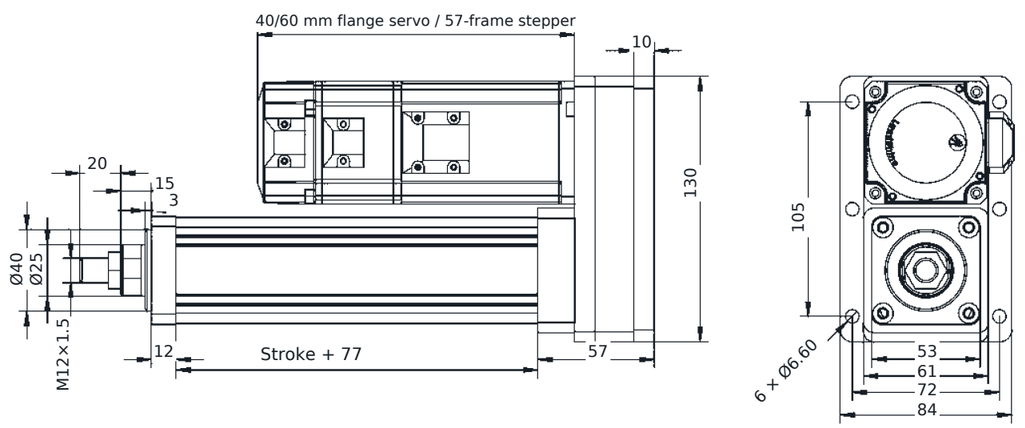
MOUNTING DIMENSIONS

Folded-back mounting dimensions

NFT50-L-T-R-FA-P | FOLDED-BACK · FRONT FLANGE MOUNT



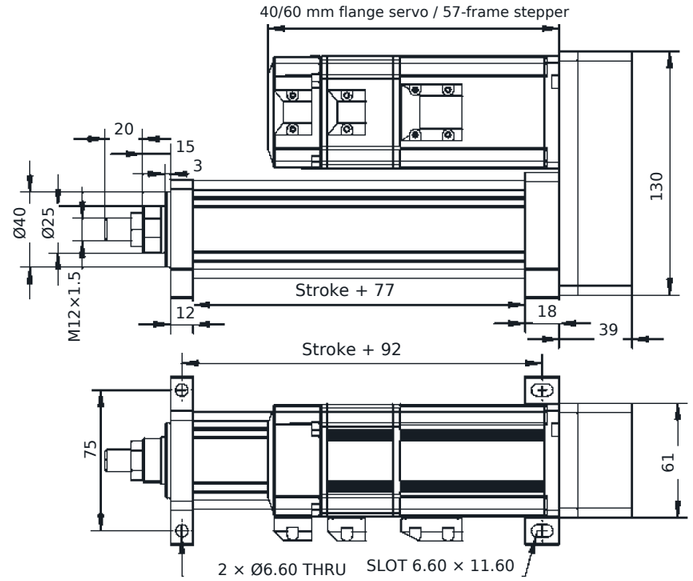
NFT50-L-T-R-FB-P | FOLDED-BACK · REAR FLANGE MOUNT

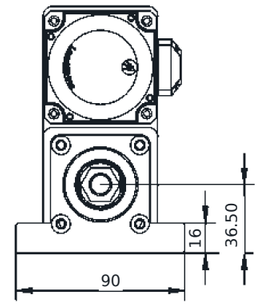


NFT50
FOLDED-BACK

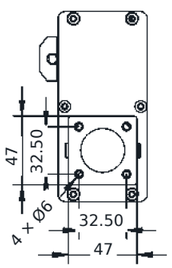
Parallel motor layout · mounting and dimensional references

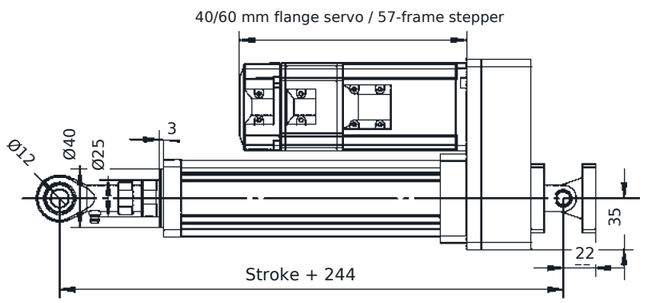
NFT50-L-T-R-LB-P | FOLDED-BACK · SIDE MOUNT

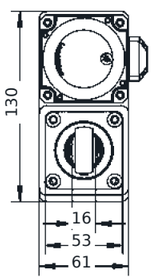




NFT50-L-T-R-QH-P | FRONT SPHERICAL ROD END + REAR HINGE MOUNT







NFT60 SERIES

Servo configuration reference and inline mounting

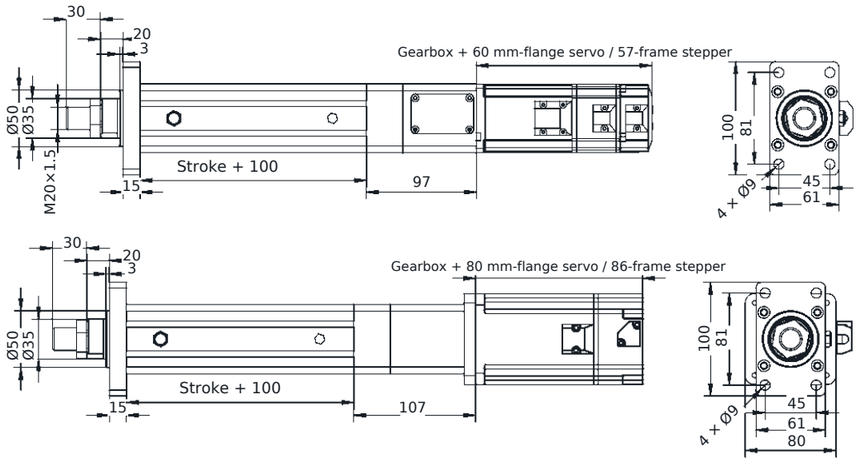
SERVO CONFIGURATION REFERENCE

Maximum stroke	**1000 mm**
Motor rated speed	**3,000 rpm**

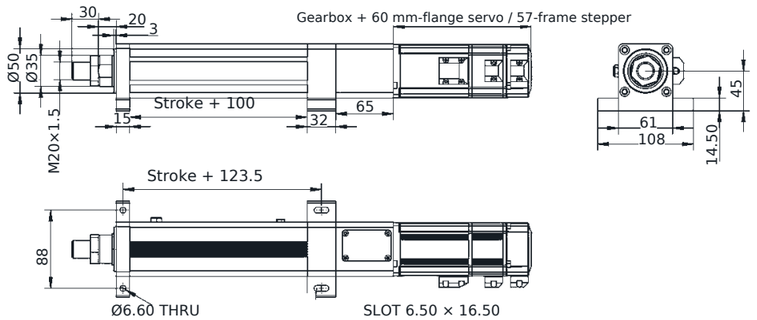
Lead (mm/rev)	Selection range (kN)	Rated thrust (kN)			Speed (mm/s)
		400 W	750 W	1000 W	
5	0.01–6	1.25	2.55	3.39	**250**
10	0.01–4	0.67	1.25	1.69	**500**
20	0.01–0.8	0.31	0.67	0.8	**1000**

Selection ranges are not the rated thrust of every motor option. Rated servo torque (N·m): 400 W / 1.27; 750 W / 2.39; 1000 W / 3.18. Speeds assume 1:1 transmission; gearbox ratios and stepper ratings require separate confirmation.

NFT60-L-T-D-FA-P | INLINE · FRONT FLANGE MOUNT



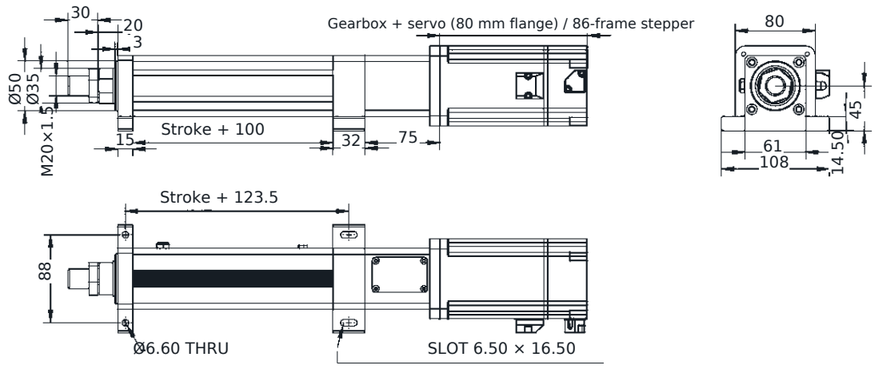
NFT60-L-T-D-LB-P | INLINE · SIDE MOUNT



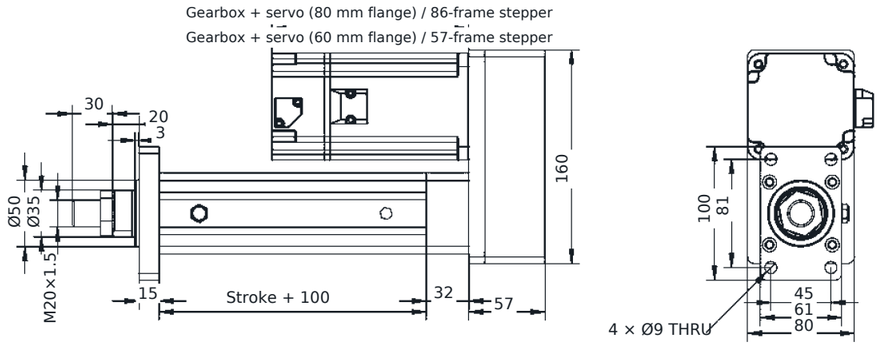
NFT60

Inline and folded-back mounting configurations

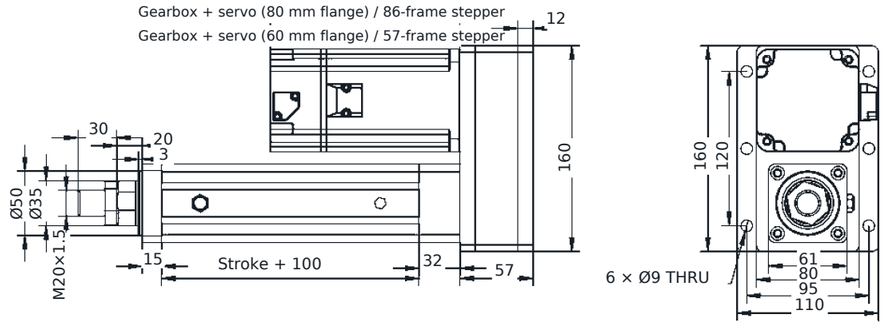
NFT60-L-T-D-LB-P | INLINE · SIDE MOUNT



NFT60-L-T-R-FA-P | FOLDED-BACK · FRONT FLANGE MOUNT



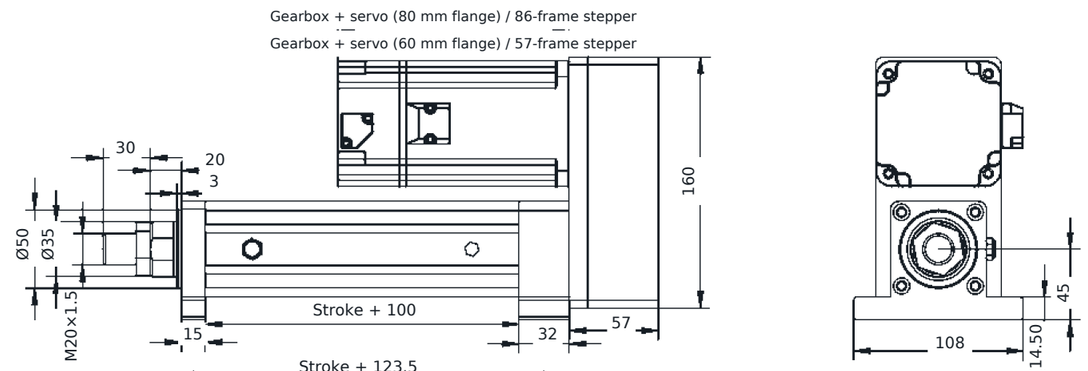
NFT60-L-T-R-FB-P | FOLDED-BACK · REAR FLANGE MOUNT



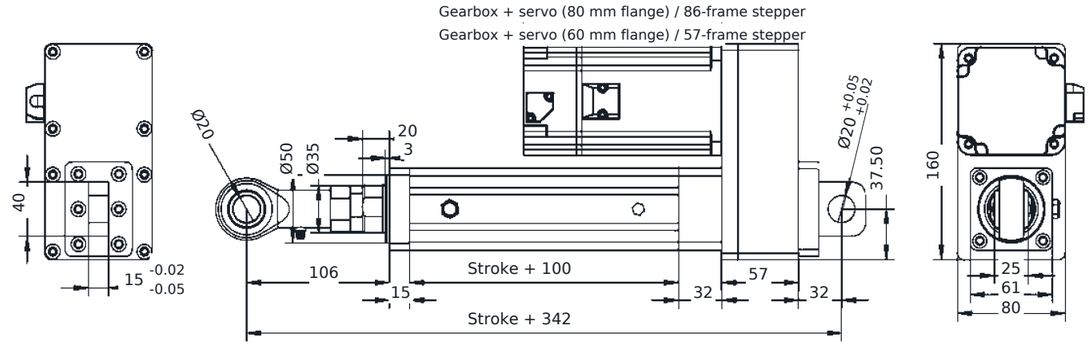
MOUNTING DIMENSIONS

Model-specific views · dimensions and tolerances in mm

NFT60-L-T-R-LB-P | FOLDED-BACK · SIDE MOUNT



NFT60-L-T-R-QH-P | FRONT SPHERICAL ROD END + REAR HINGE MOUNT



NFT80

Servo specifications and inline front flange mounting

SERVO CONFIGURATION REFERENCE

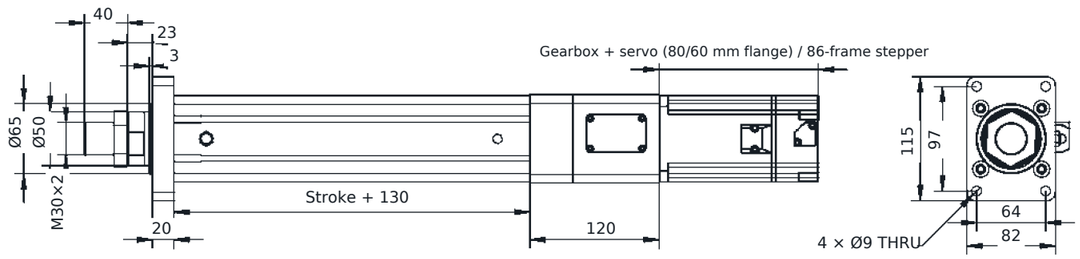
Stroke range	**10–1500 mm**

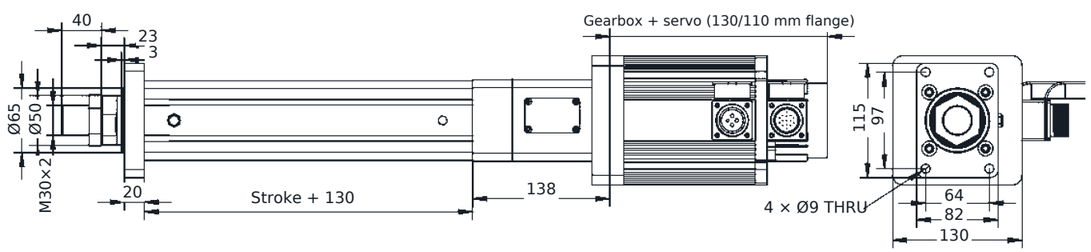
Rated power (W)	Rated torque (N·m)	Rated speed (rpm)
750	**2.39**	**3000**
1000	**3.18**	**3000**
1500	**7.16**	**2000**

Lead (mm/rev)	Series thrust range (kN)	Rated thrust (kN)			Theoretical speed (mm/s)		
		750 W	1000 W	1500 W	750 W	1000 W	1500 W
5	0.01–8	2.55	3.4	7.64	250	250	166.7
10	0.01–20	1.27	1.7	3.8	500	500	333.3
20	0.01–20	0.63	0.87	1.9	1000	1000	666.7

Speed values assume a 1:1 transmission ratio. Actual force and speed depend on the selected motor and transmission.

NFT80-L-T-D-FA-P | INLINE · FRONT FLANGE MOUNT

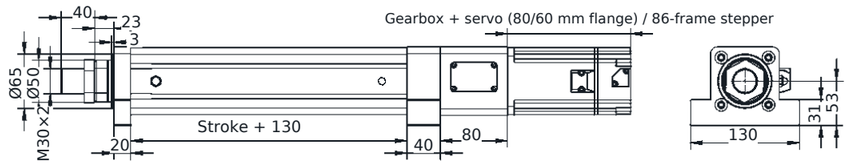


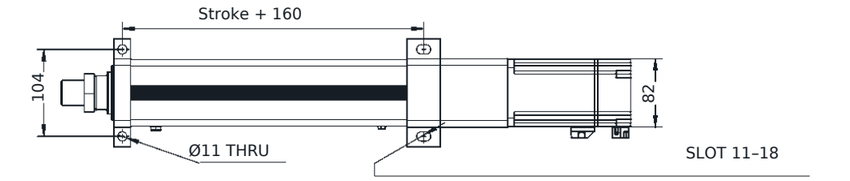


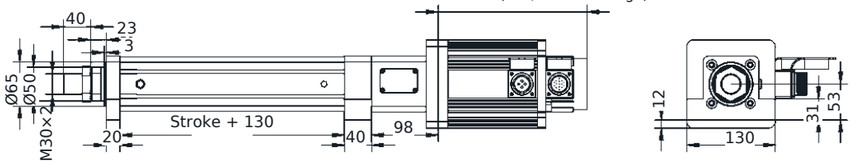
MOUNTING DIMENSIONS

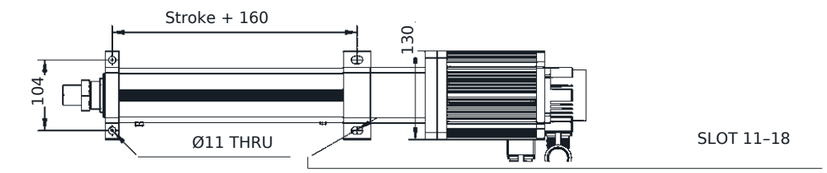
Model-specific views · dimensions and tolerances in mm

NFT80-L-T-D-LB-P | INLINE · SIDE MOUNT

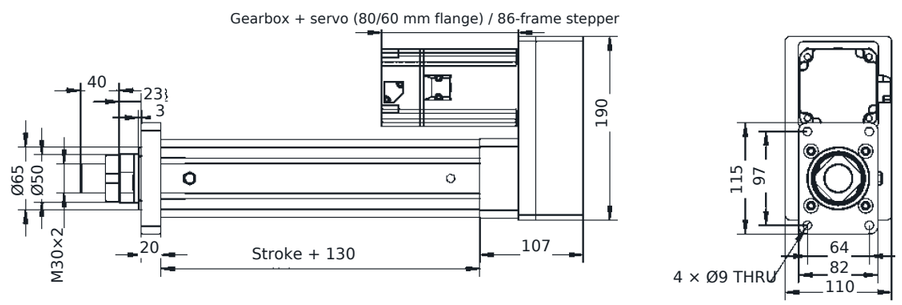








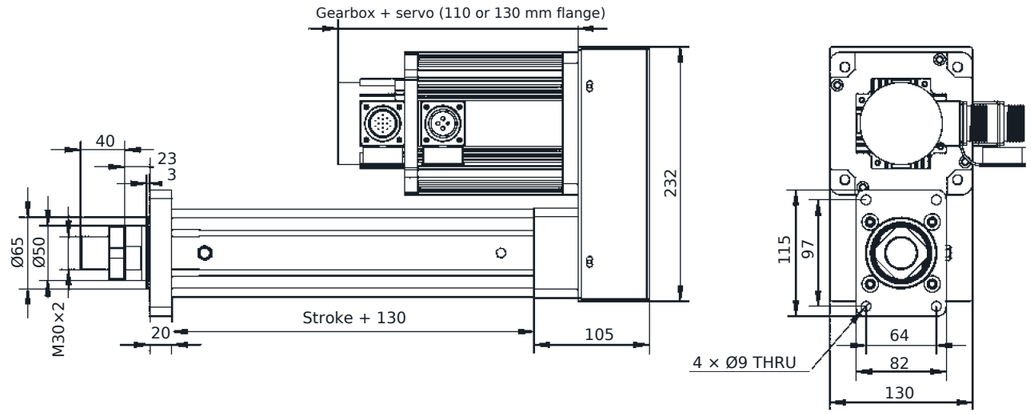
NFT80-L-T-R-FA-P | FOLDED-BACK · FRONT FLANGE MOUNT



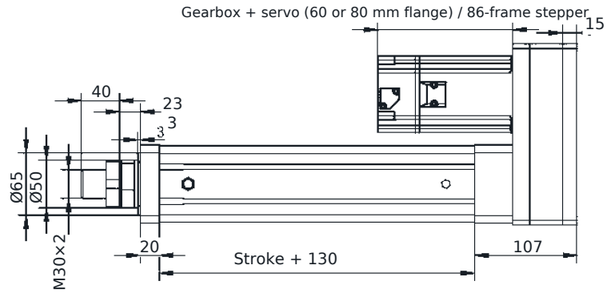
NFT80

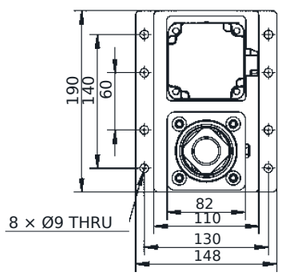
Folded-back mounting configurations

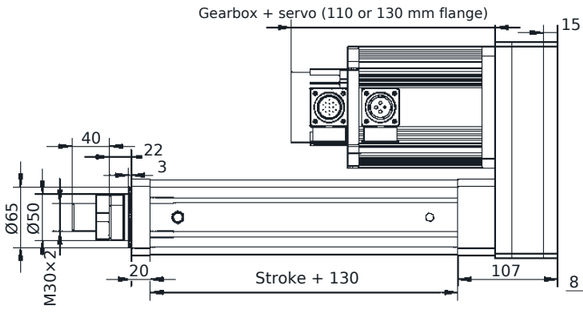
NFT80-L-T-R-FA-P | FOLDED-BACK · FRONT FLANGE MOUNT

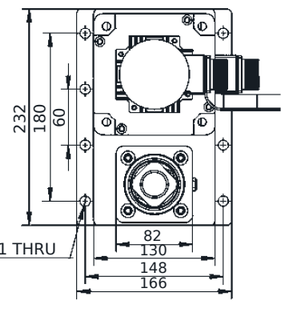


NFT80-L-T-R-FB-P | FOLDED-BACK · REAR FLANGE MOUNT





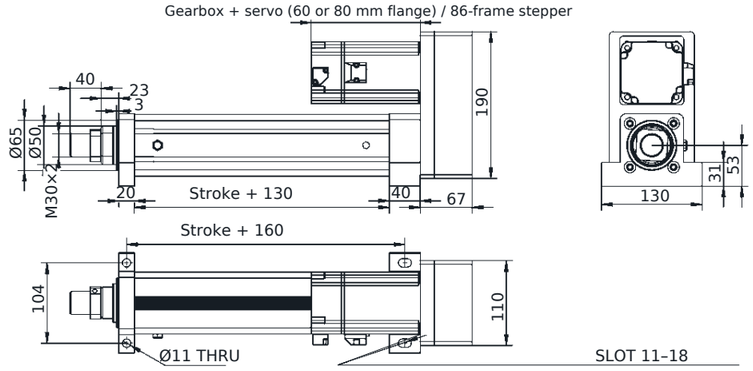




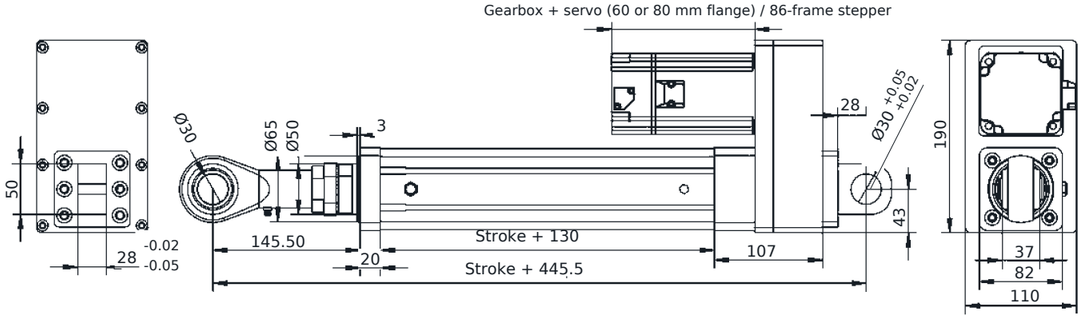
MOUNTING DIMENSIONS

Front flange, rear flange, side and rear hinge mounting

NFT80-L-T-R-LB-P | FOLDED-BACK · SIDE MOUNT



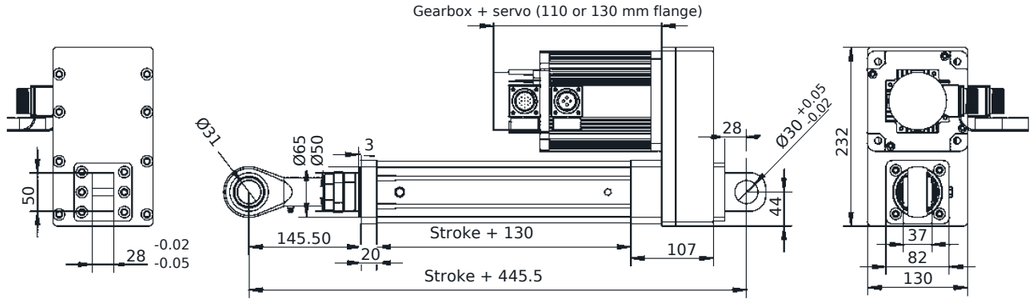
NFT80-L-T-R-QH-P | FRONT SPHERICAL ROD END + REAR HINGE MOUNT



NFT80

Folded-back rear hinge mounting

NFT80-L-T-R-QH-P | FRONT SPHERICAL ROD END + REAR HINGE MOUNT



NFT94 ELECTRIC CYLINDER SYSTEM

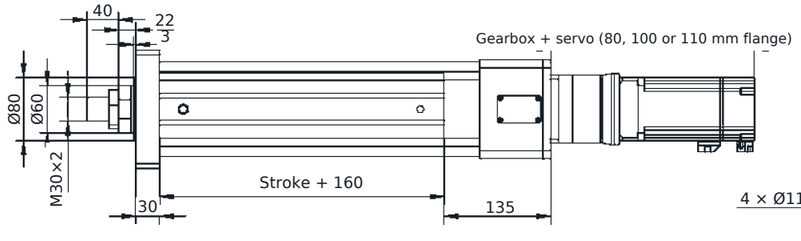
Stroke range	10–2000 mm

Rated power (W)	Rated torque (N·m)	Rated speed (rpm)
750	2.39	3000
1000	3.18	3000
1500	7.16	2000

Lead (mm/rev)	Series thrust range (kN)	Rated thrust (kN)			Theoretical speed (mm/s)		
		750 W	1000 W	1500 W	750 W	1000 W	1500 W
5	0.01–8	2.55	3.4	7.64	250	250	166.7
10	0.01–30	1.27	1.7	3.8	500	500	333.3
32	0.01–8	0.39	0.53	1.19	1600	1600	1066.7

Speed values are theoretical, without reduction. Actual force and speed depend on the selected motor and transmission.

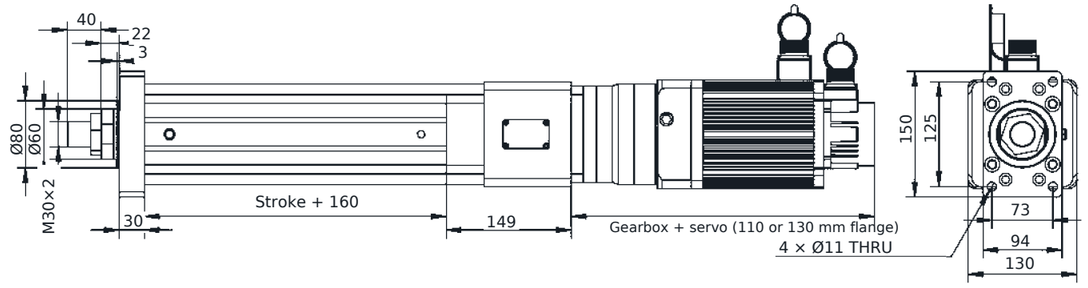
NFT94-L-T-D-FA-P | INLINE · FRONT FLANGE MOUNT



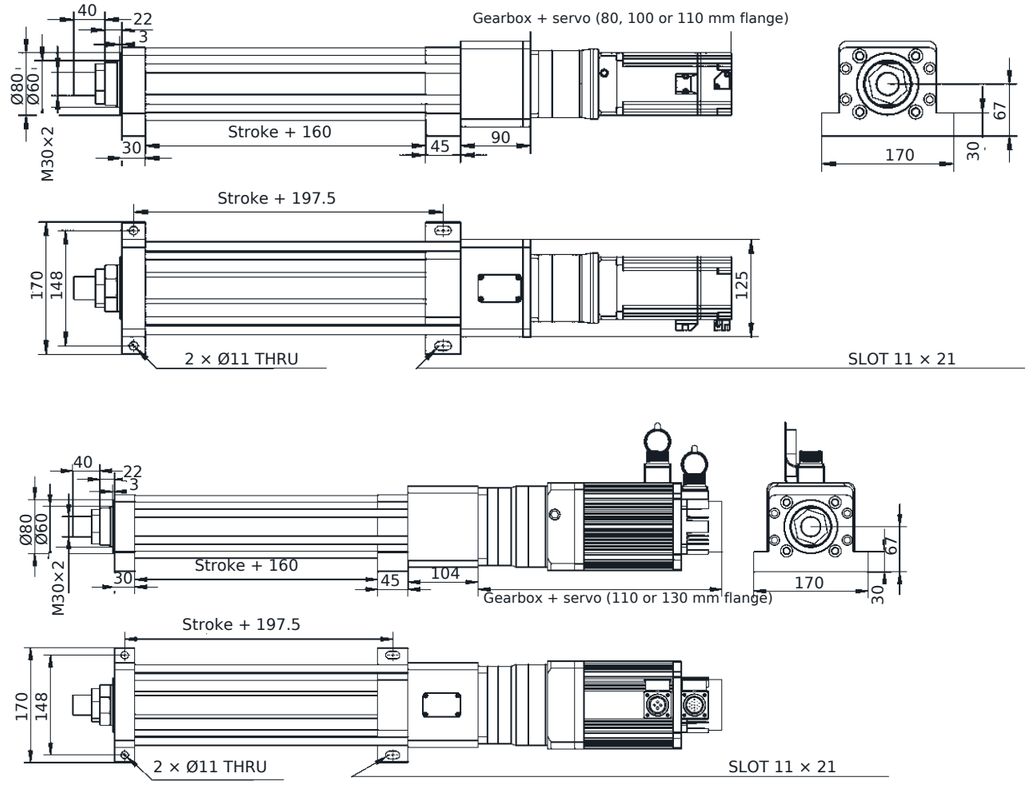
MOUNTING DIMENSIONS

NFT94 inline front flange and side mounting

NFT94-L-T-D-FA-P | INLINE · FRONT FLANGE MOUNT



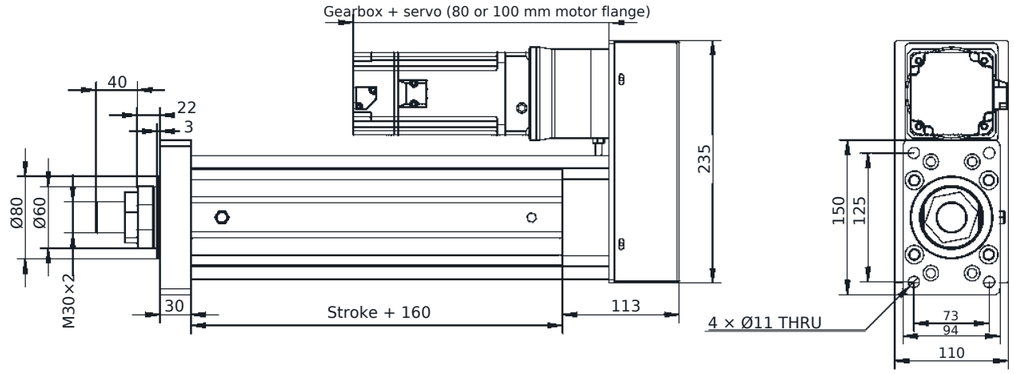
NFT94-L-T-D-LB-P | INLINE · SIDE MOUNT

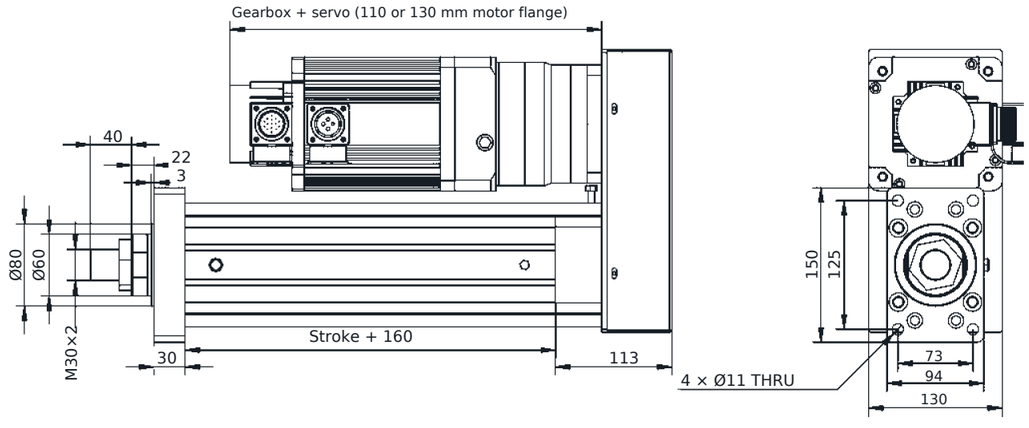


NFT94

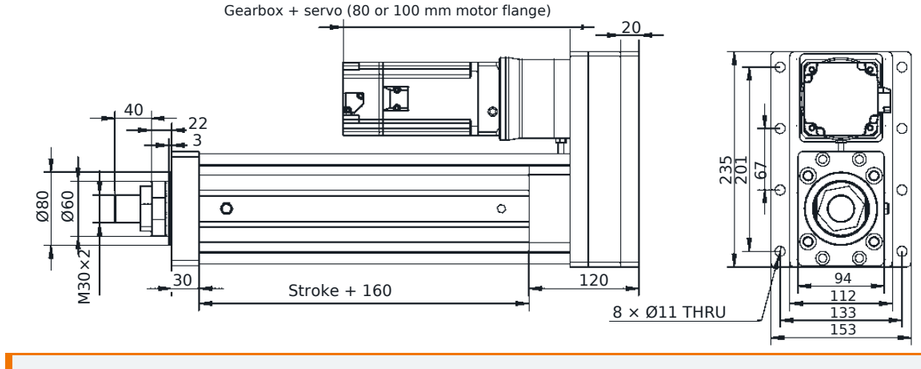
Folded-back mounting configurations

NFT94-L-T-R-FA-P | FOLDED-BACK · FRONT FLANGE MOUNT





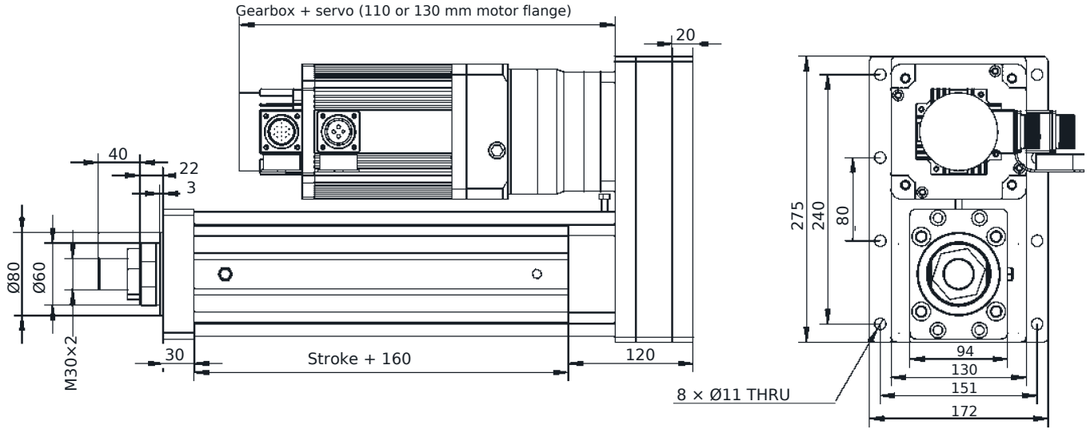
NFT94-L-T-R-FB-P | FOLDED-BACK · REAR FLANGE MOUNT



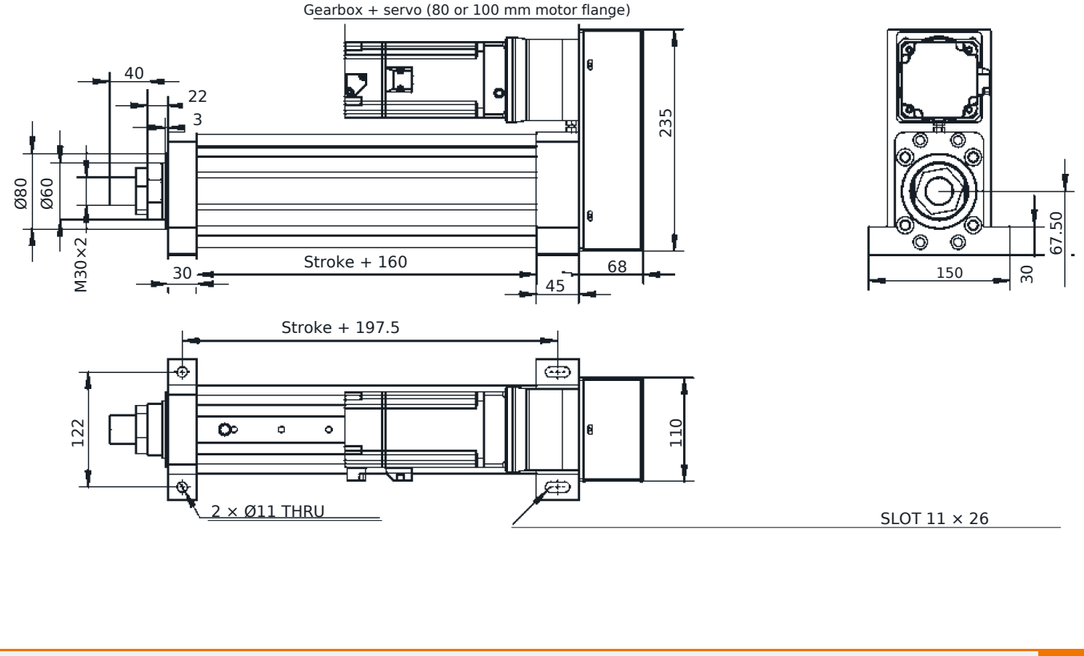
MOUNTING DIMENSIONS

Front flange, rear flange and side mounting

NFT94-L-T-R-FB-P | FOLDED-BACK · REAR FLANGE MOUNT



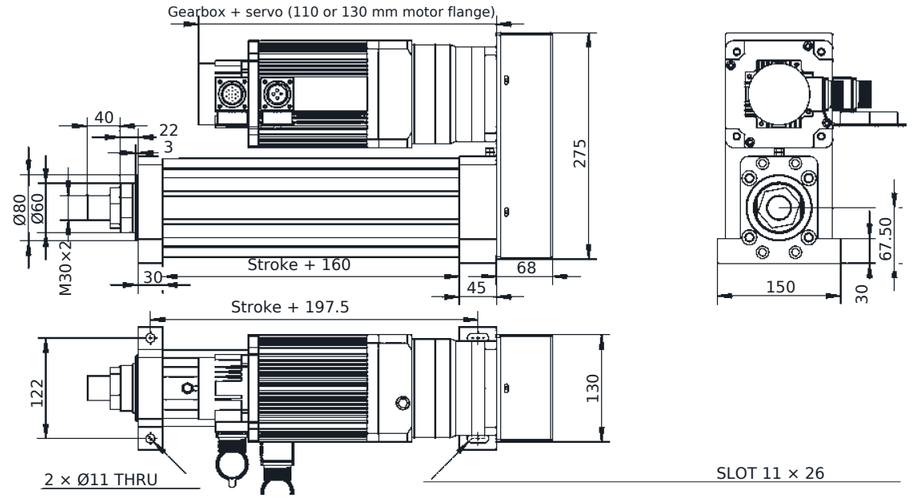
NFT94-L-T-R-LB-P | FOLDED-BACK · SIDE MOUNT



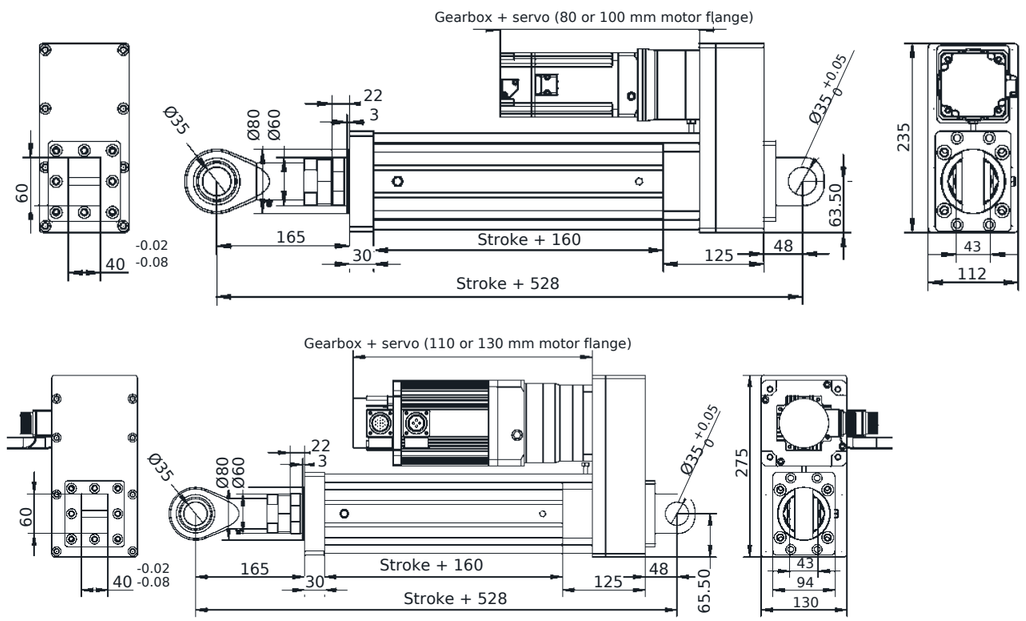
NFT94

Folded-back side and rear hinge mounting

NFT94-L-T-R-LB-P | FOLDED-BACK · SIDE MOUNT



NFT94-L-T-R-QH-P | FRONT SPHERICAL ROD END + REAR HINGE MOUNT



NFT110

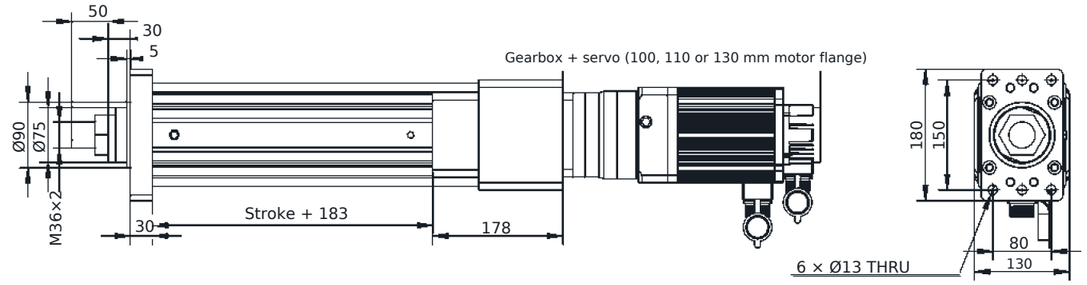
ELECTRIC CYLINDER SYSTEM

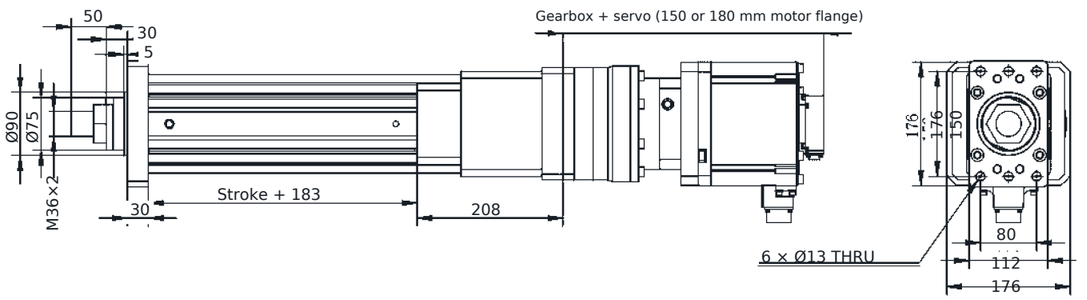
NFT110 · CONFIGURATION REFERENCE

Screw lead (mm/rev)	10				
Series thrust range (kN)	0.01-40				
Stroke (mm)	10-2000				
Rated motor power (W)	1500	2000	4400	5500	7500
Rated motor torque (N·m)	7.16	9.55	28.4	35	48
Rated motor speed (rpm)	2000			1500	
Rated cylinder thrust (kN)	3.8	5.1	15.1	18.6	25.6
Rated cylinder speed (mm/s)	332	332	250	250	250

Series range is a selection envelope; listed motor configurations are shown separately. Final specifications depend on the confirmed application.

NFT110-L-T-D-FA-P | INLINE · FRONT FLANGE MOUNT

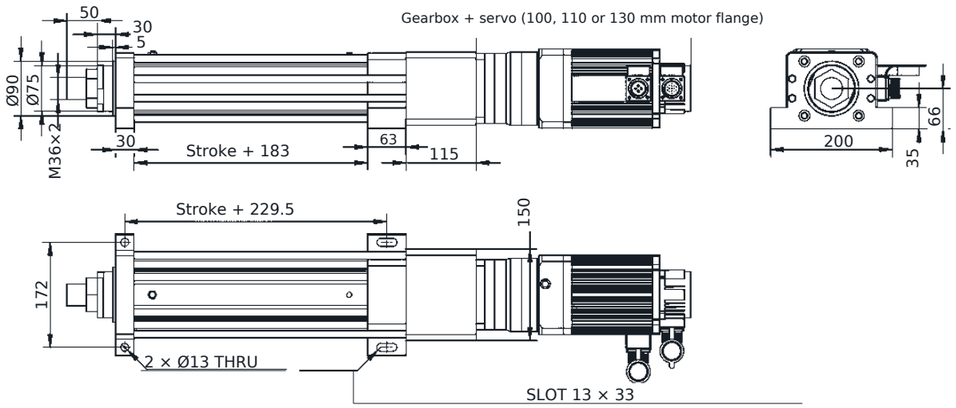


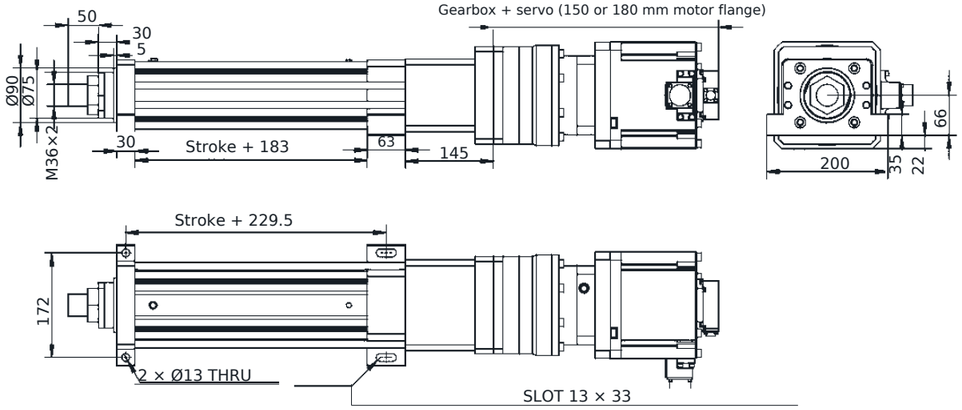


NFT110

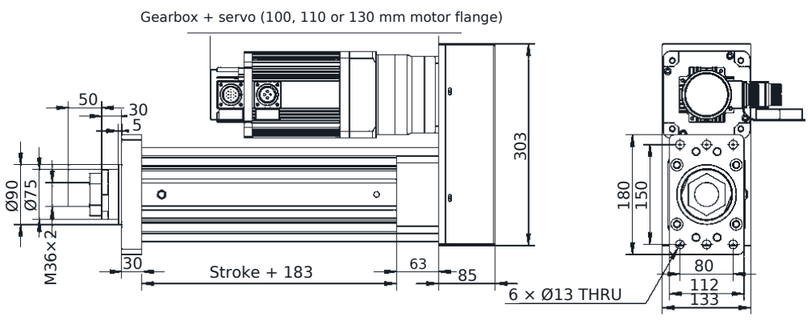
Inline side mounting and folded-back front flange

NFT110-L-T-D-LB-P | INLINE · SIDE MOUNT





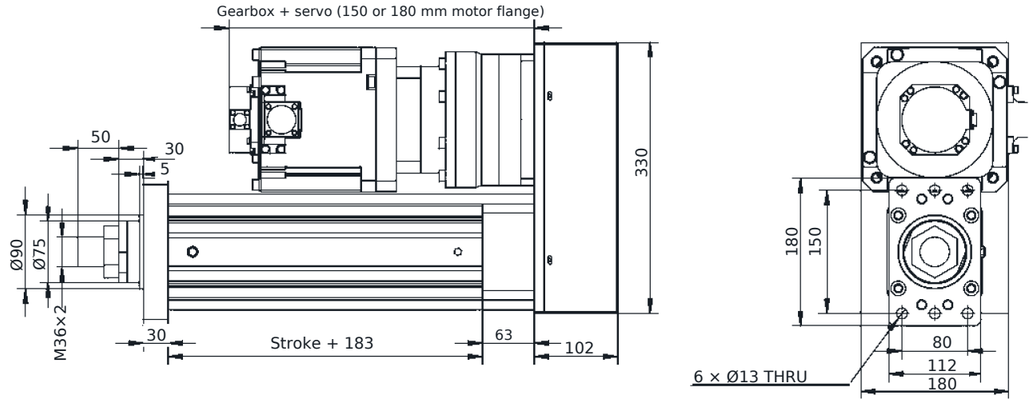
NFT110-L-T-R-FA-P | FOLDED-BACK · FRONT FLANGE MOUNT



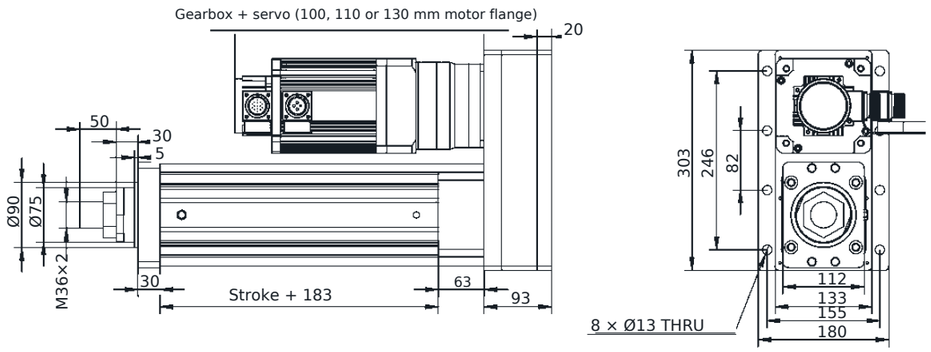
MOUNTING DIMENSIONS

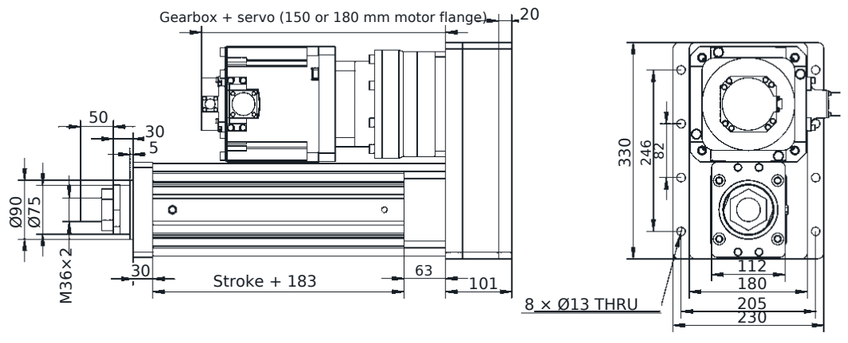
Folded-back front flange and rear flange mounting

NFT110-L-T-R-FA-P | FOLDED-BACK · FRONT FLANGE MOUNT



NFT110-L-T-R-FB-P | FOLDED-BACK · REAR FLANGE MOUNT

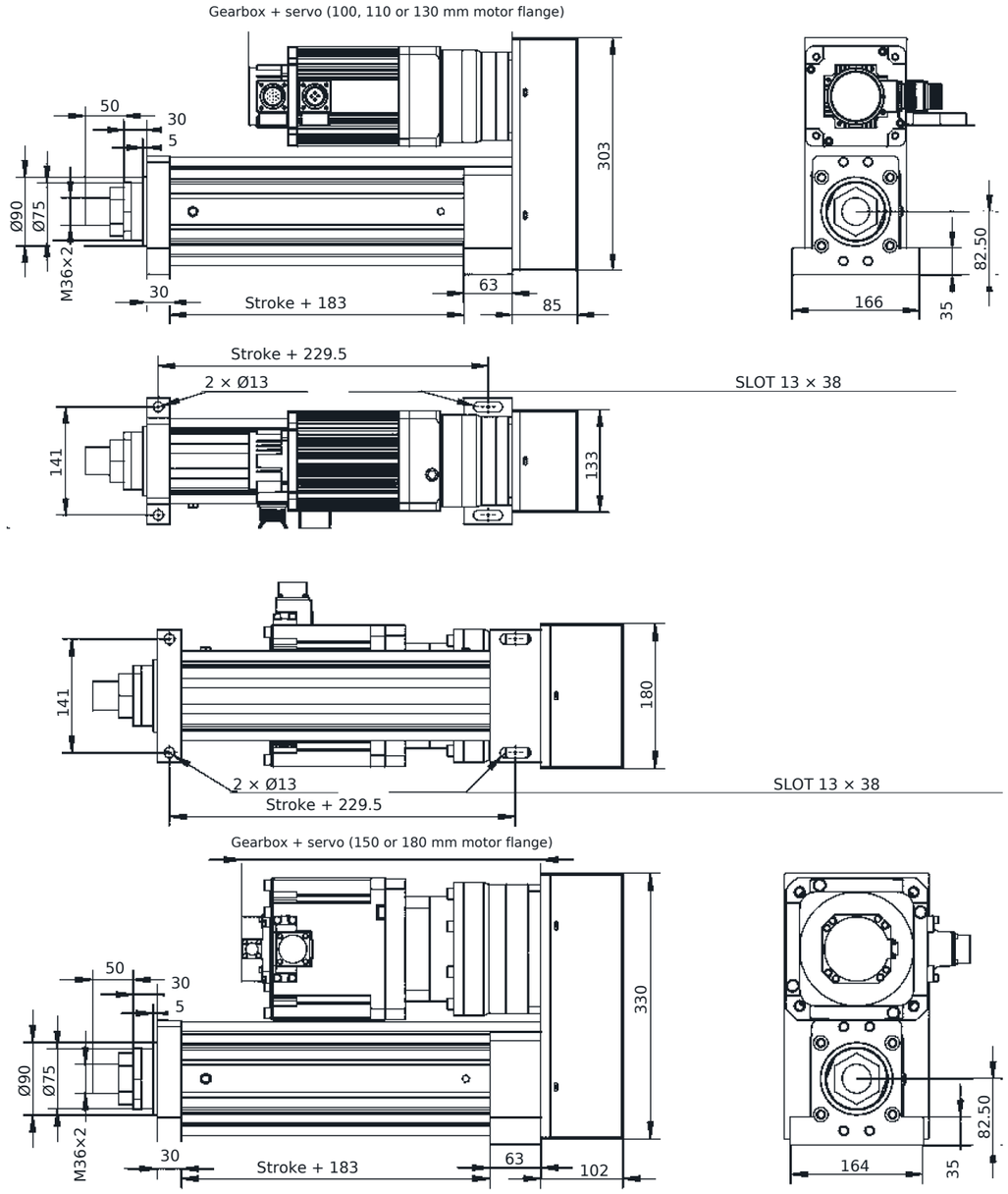




NFT110

Folded-back side mounting configurations

NFT110-L-T-R-LB-P | FOLDED-BACK · SIDE MOUNT



NFT134

ELECTRIC CYLINDER SYSTEM

SERVO CONFIGURATION REFERENCE

Stroke range	**10-2000 mm**

Rated motor power (W)	1500	2000	4400	5500	7500
Rated motor torque (N·m)	7.16	9.55	28.4	35	48
Rated motor speed (rpm)	2000	2000	1500	1500	1500

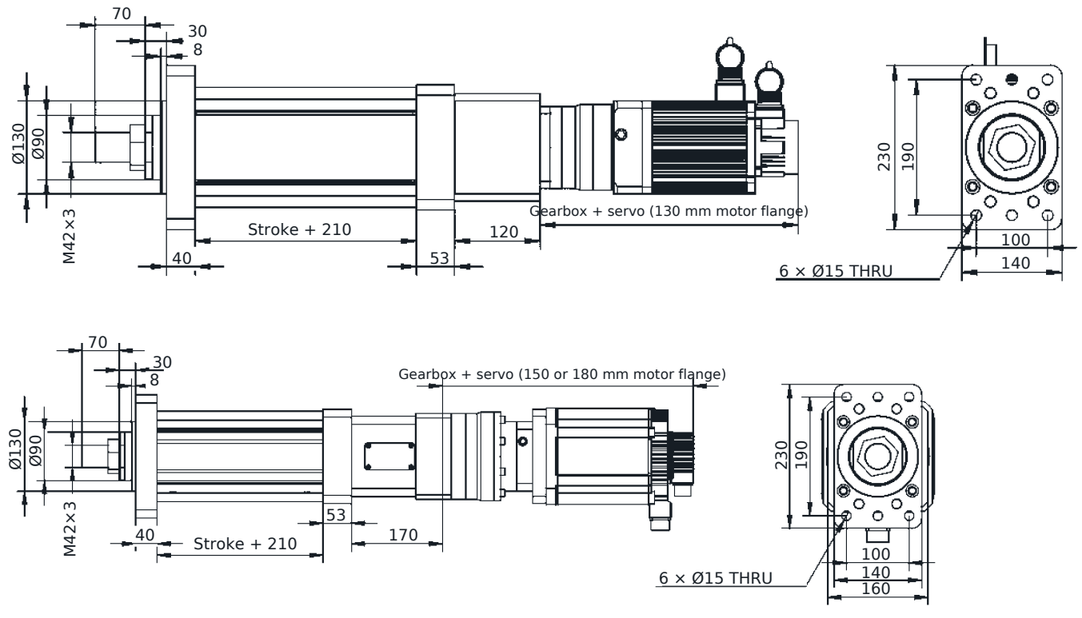
RATED THRUST / CATALOG SPEED

Lead	Series range	1500 W	2000 W	4400 W	5500 W	7500 W
10	0.01-40	3.8 332	5.1 332	15.1 250	18.6 250	25.6 250
20	0.01-55	1.6* 666	2.65 666	7.55 500	9.3 500	12.8 500

Lead: mm/rev. Series range: kN. Each cell: thrust (kN) above, speed (mm/s) below.

* Reference data under review: 1.6 kN and series limits require configuration confirmation. Speeds are catalog values.

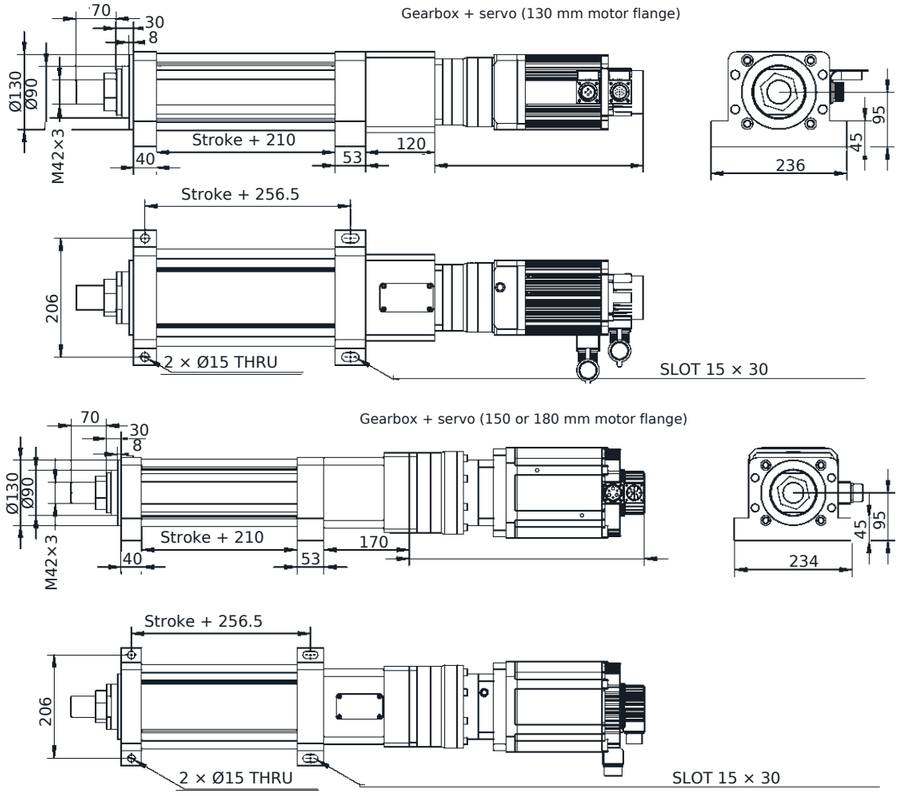
NFT134-L-T-D-FA-P | INLINE · FRONT FLANGE MOUNT



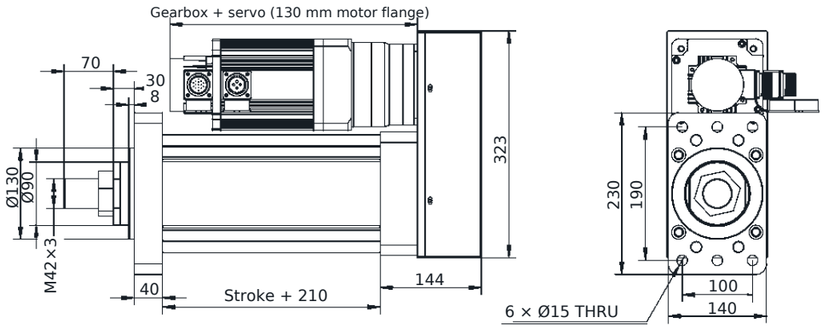
NFT134

Inline side mounting and folded-back front flange

NFT134-L-T-D-LB-P | INLINE · SIDE MOUNT



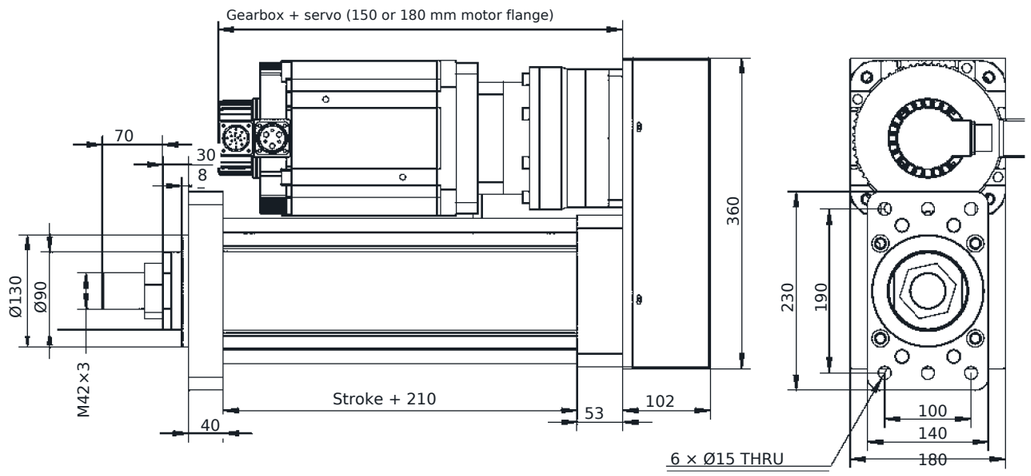
NFT134-L-T-R-FA-P | FOLDED-BACK · FRONT FLANGE MOUNT



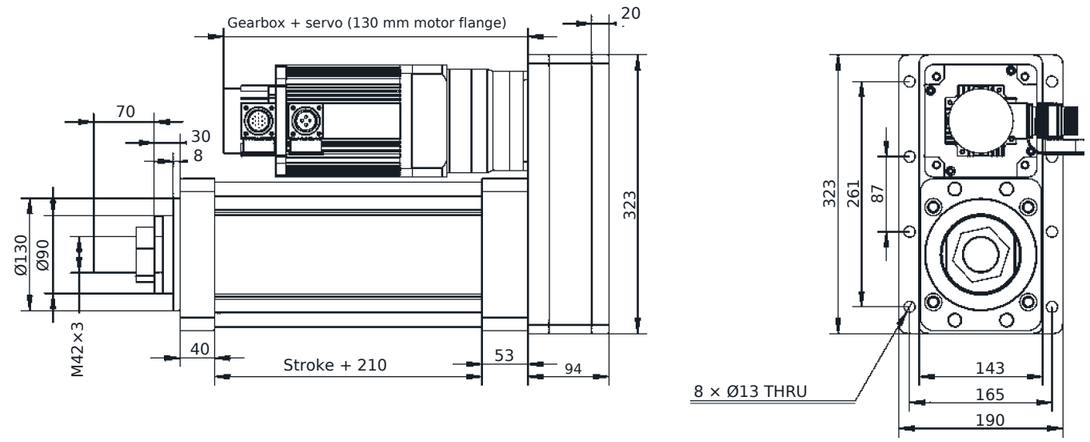
MOUNTING DIMENSIONS

Folded-back front flange and rear flange mounting

NFT134-L-T-R-FA-P | FOLDED-BACK · FRONT FLANGE MOUNT



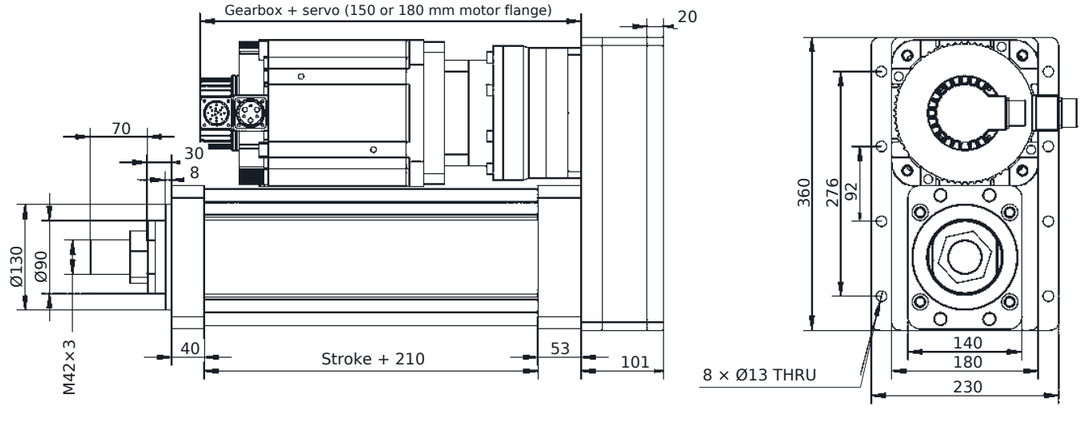
NFT134-L-T-R-FB-P | FOLDED-BACK · REAR FLANGE MOUNT



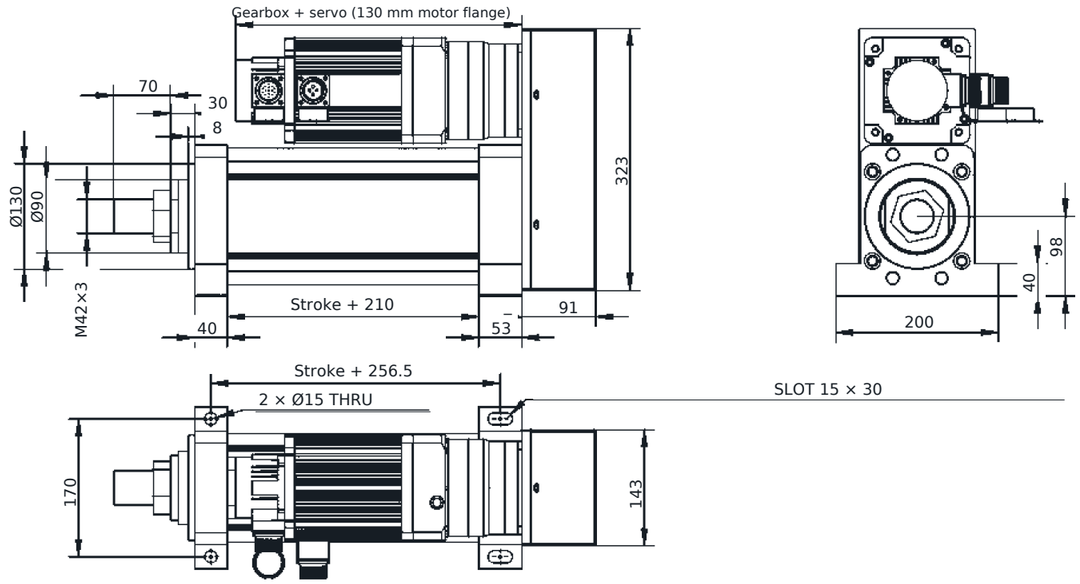
NFT134

Folded-back rear flange and side mounting

NFT134-L-T-R-FB-P | FOLDED-BACK · REAR FLANGE MOUNT



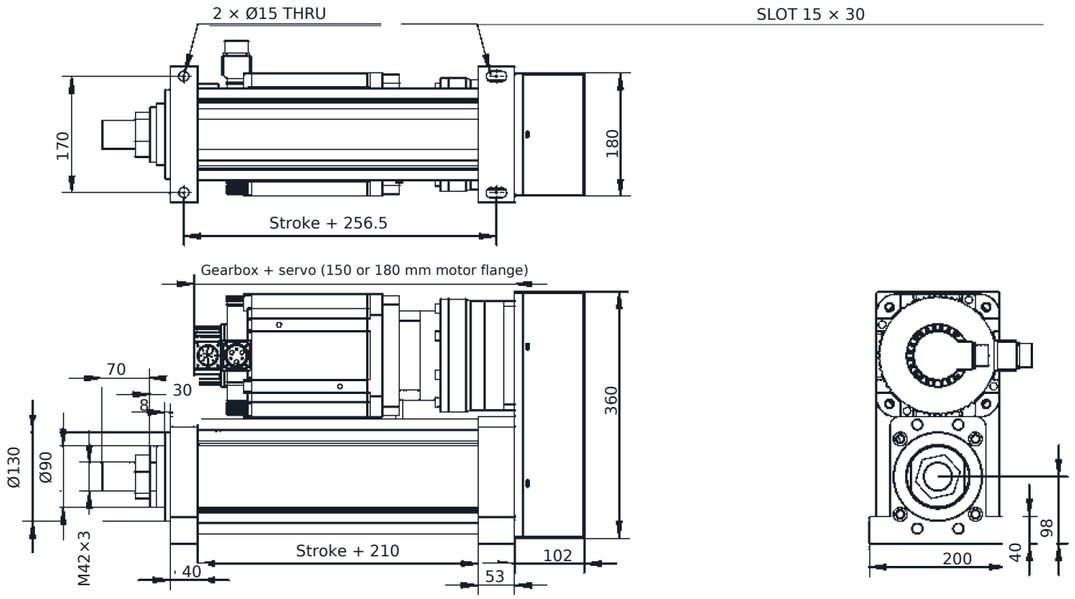
NFT134-L-T-R-LB-P | FOLDED-BACK · SIDE MOUNT



MOUNTING DIMENSIONS

Motor-specific mounting and dimensional references

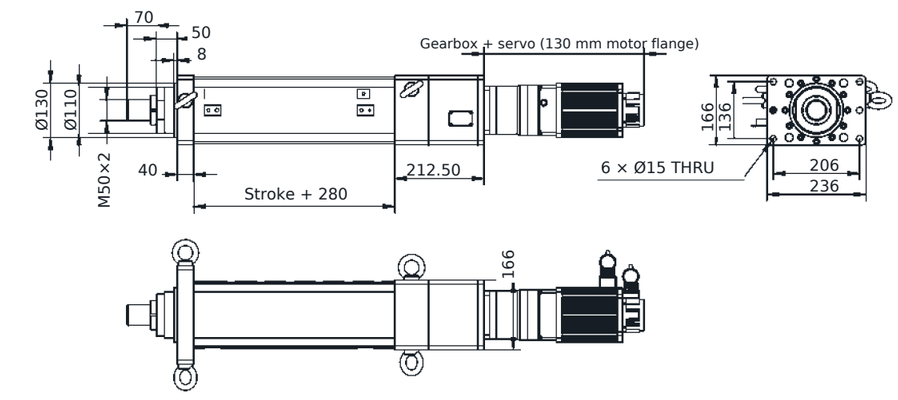
NFT134-L-T-R-LB-P | FOLDED-BACK · SIDE MOUNT

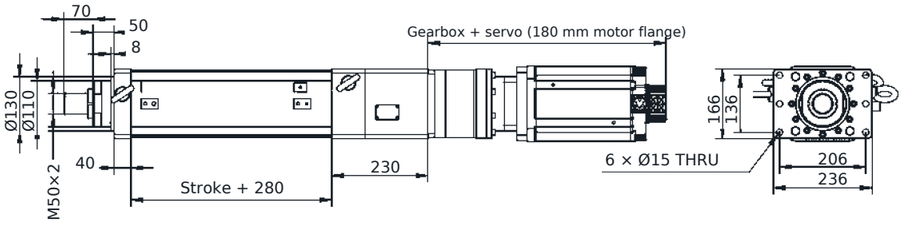


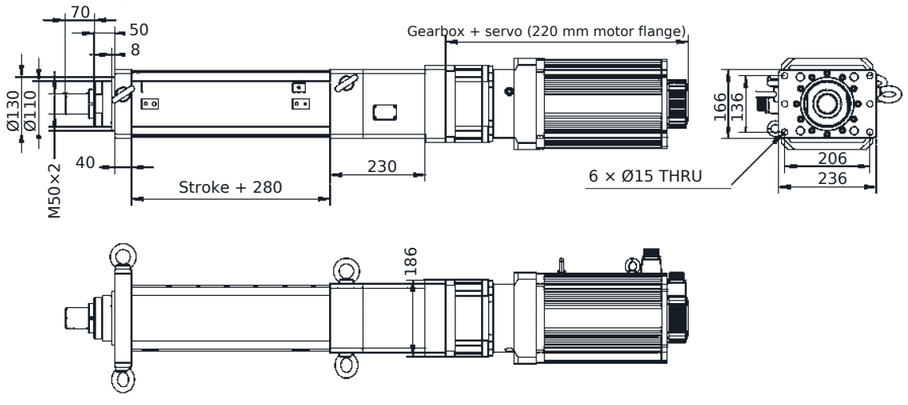
NFT160

Inline front flange mounting configurations

NFT160-L-T-D-FA-P | INLINE · FRONT FLANGE MOUNT



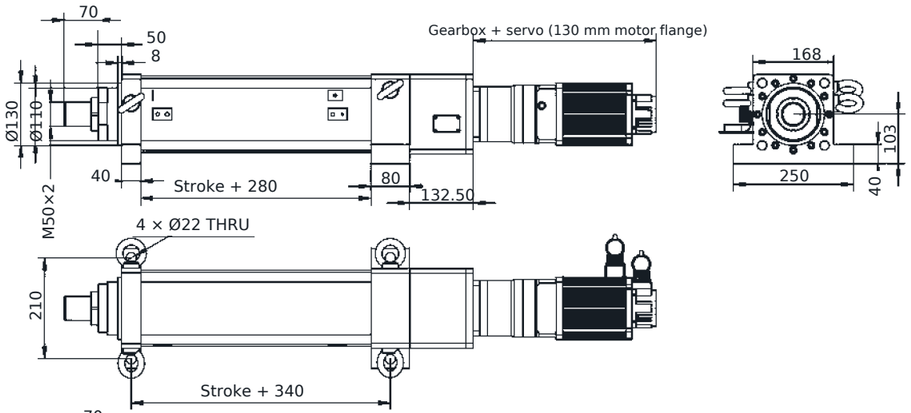


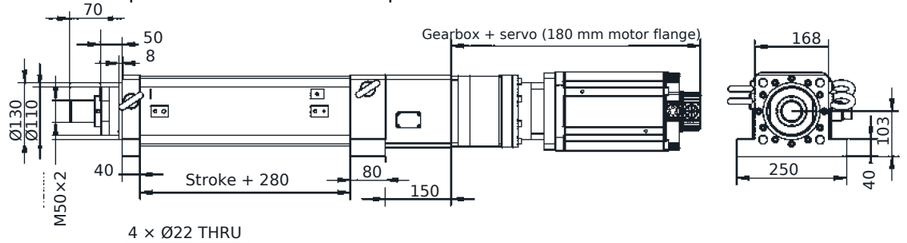


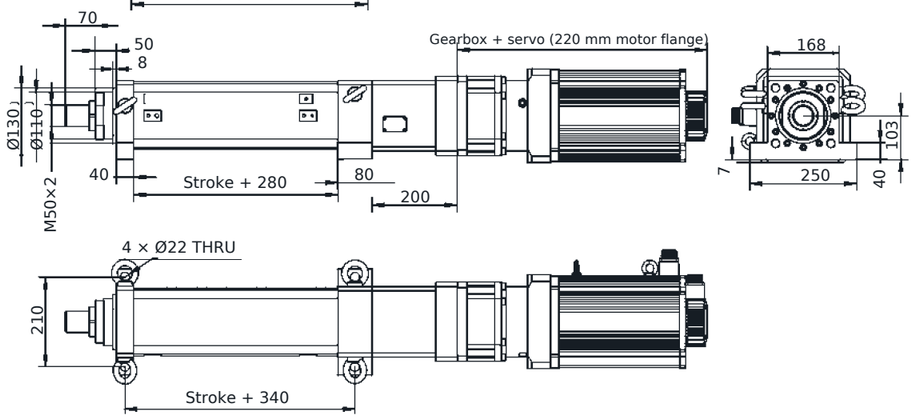
MOUNTING DIMENSIONS

Inline side mounting · 130, 180 and 220 mm motor flanges

NFT160-L-T-D-LB-P | INLINE · SIDE MOUNT



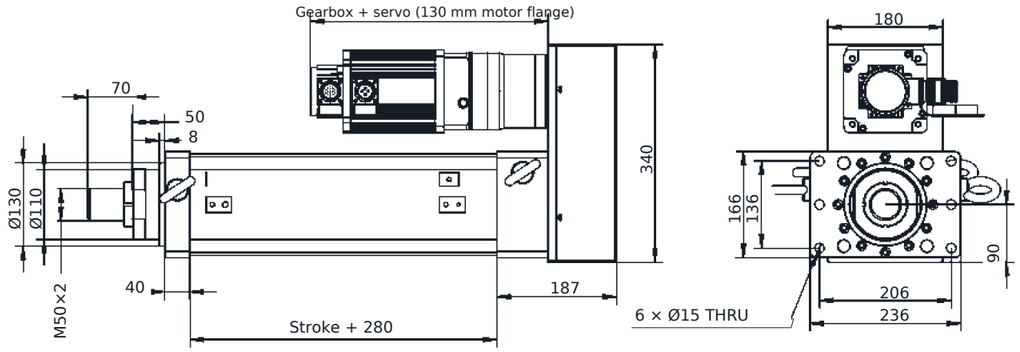


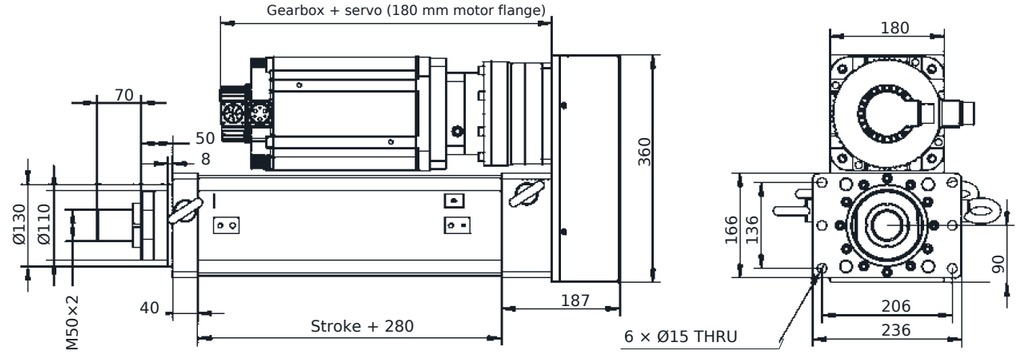


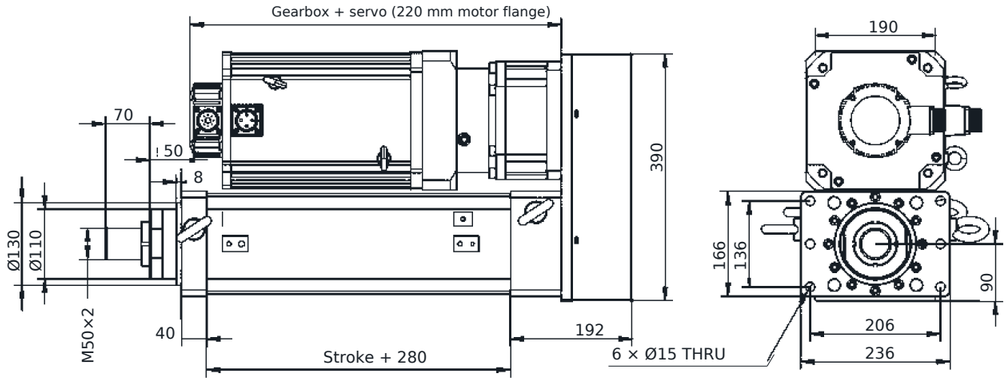
NFT160

Folded-back front flange mounting configurations

NFT160-L-T-R-FA-P | FOLDED-BACK · FRONT FLANGE MOUNT



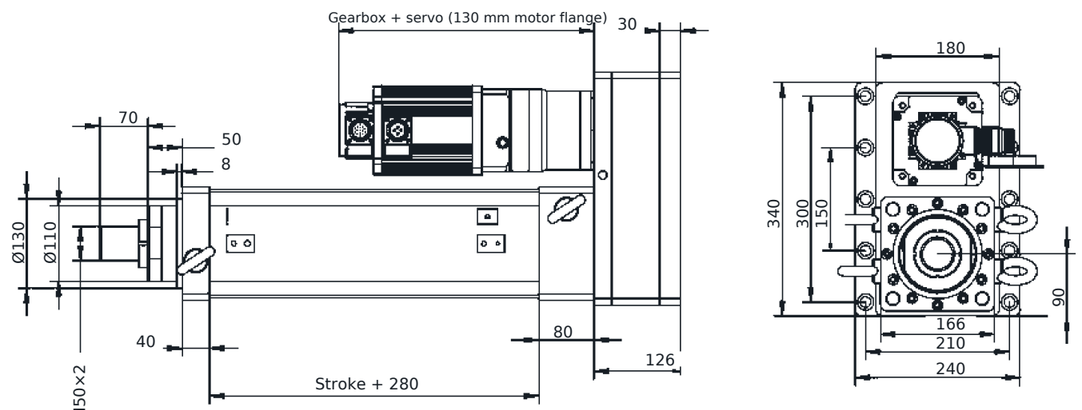


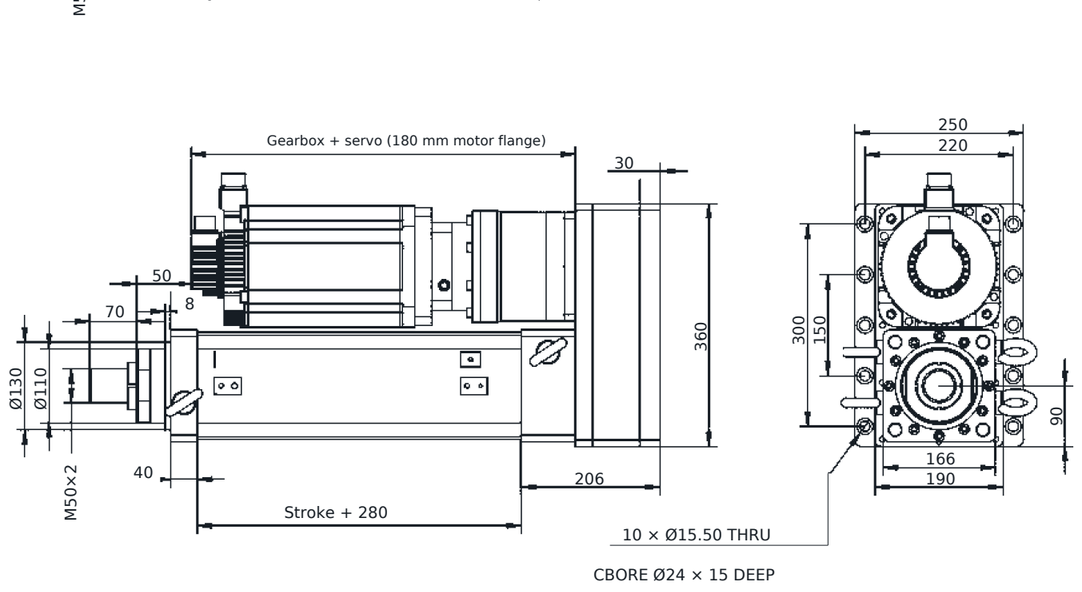


MOUNTING DIMENSIONS

Folded-back rear flange mounting configurations

NFT160-L-T-R-FB-P | FOLDED-BACK · REAR FLANGE MOUNT





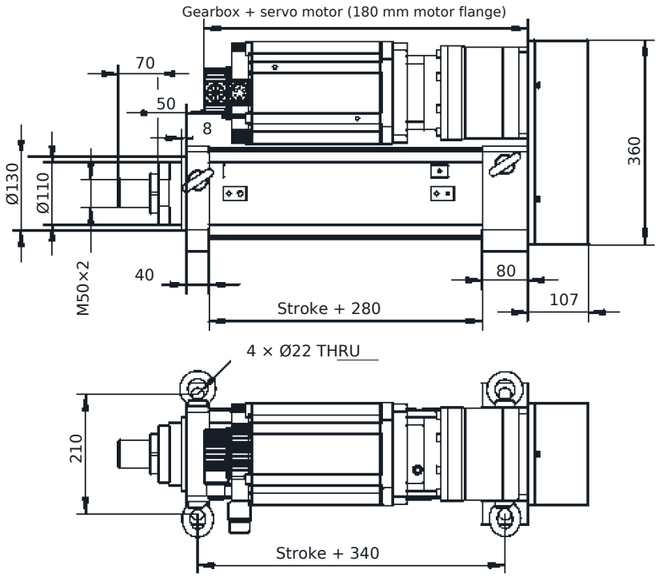
NFT160

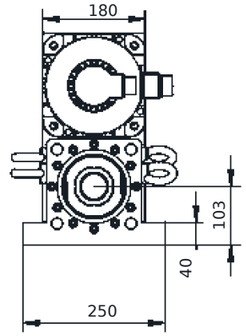
Folded-back side mounting configurations

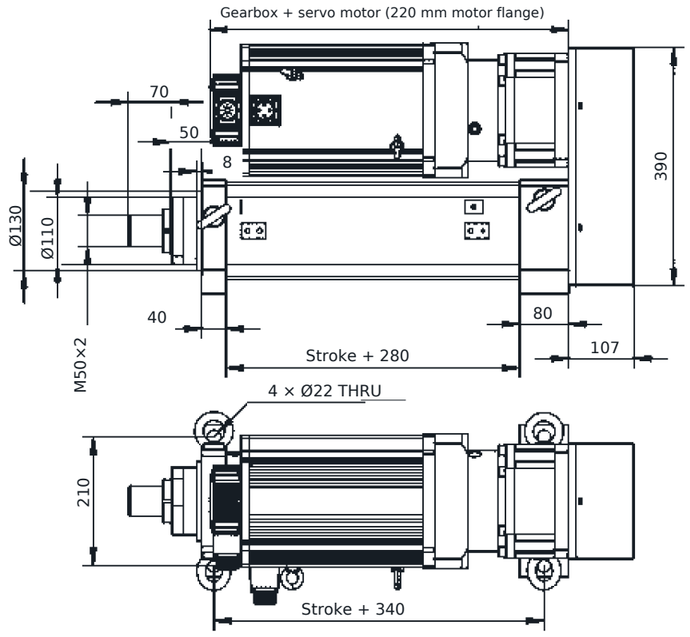
NFT160-L-T-R-LB-P | FOLDED-BACK · SIDE MOUNT

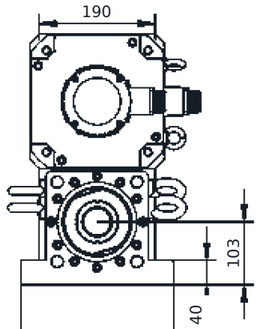
MOUNTING DIMENSIONS

Two motor flange configurations · dimensions in mm









NFTDJ

TELESCOPIC ELECTRIC CYLINDERS

NFTDJ | PERFORMANCE & TELESCOPIC OPTIONS

Lead (mm)	Rated thrust (kN)	Rated speed (mm/s)	Motor (kW)	Motor (rpm)	Body size (mm)
10	1.99	50.00	0.20	3000	84
10	1.99	100.00	0.40	3000	84
10	3.98	50.00	0.40	3000	92
10	3.73	100.00	0.75	3000	92
10	5.23	71.40	0.75	3000	92

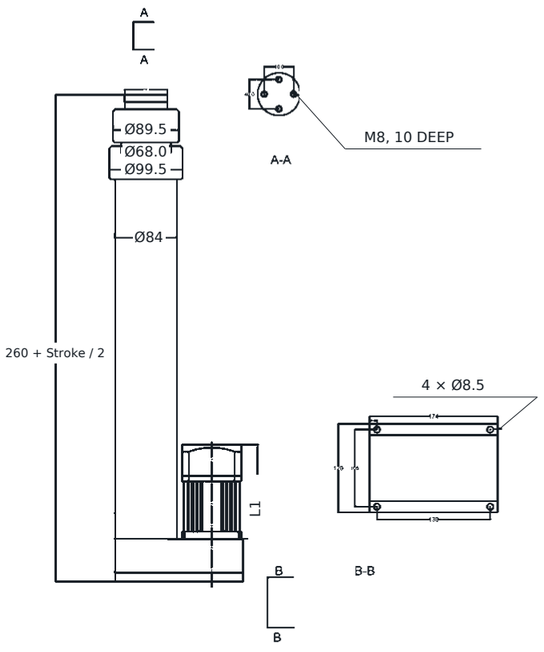
INSTALLATION & MOTION NOTES

Do not apply radial loads to the cylinder.

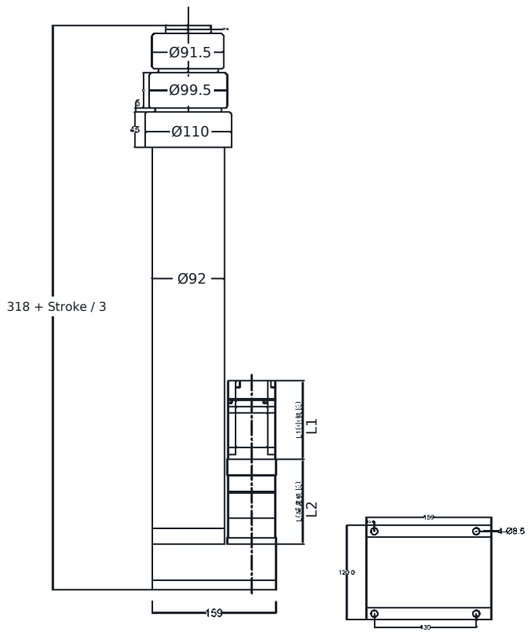
Synchronous extension: stage-mounted magnetic limit switches are possible; greater retracted height.

Sequential extension: lower retracted height; extension order may vary. Use external travel limits.

3 SECTIONS / 2 EXTENDING STAGES



4 SECTIONS / 3 EXTENDING STAGES

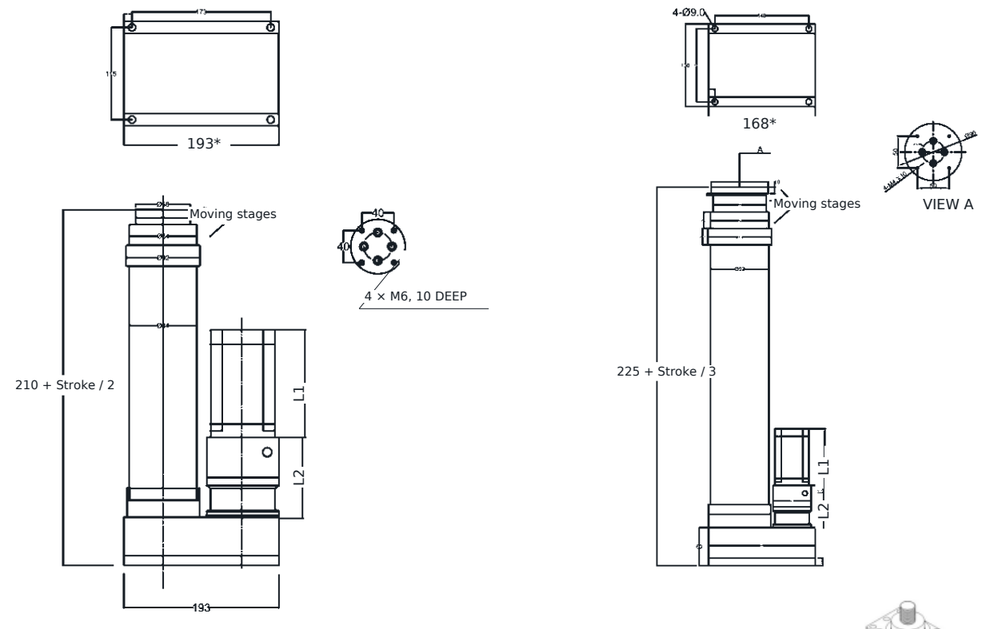


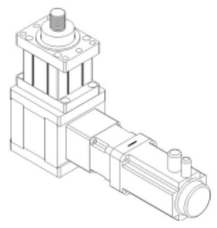
L1 = motor length; L2 = gearbox length. Drawing dimensions in mm; not to scale.

DIMENSIONS

NFTDJ DRAWINGS / NFTDP PERFORMANCE

NFTDJ | ADDITIONAL DIMENSIONAL CONFIGURATIONS





* Base width depends on the selected motor. Source note: load below 200 kg; confirm configuration and operating conditions.

Where position feedback is required, the source recommends an absolute-encoder servo motor.

NFTDP | HIGH-FREQUENCY PUNCHING

Parameter	NFTDP80	NFTDP110	NFTDP134	NFTDP169
Stroke (mm)	20	20	20	20
Thrust (kN)	11 / 20.3	32.2* / 40.4 / 50.4	80.9 / 107	202
Cycle rate (Hz)	5*	4 / 5	5	5
Repeatability (mm)	±0.01	±0.01	±0.01	±0.01
Motor (kW)	0.4 / 0.75	1 / 1.5 / 2	3 / 4	7.5
Motor (rpm)	3000	3000	3000	1500
Mounting	Front flange	Front flange	Front flange	Front flange
Motor make	Panasonic	Panasonic	Panasonic	Panasonic

* Source discrepancy: NFTDP80 code specifies 4 Hz but the table states 5 Hz; NFTDP110 code states 32.3 kN but the table states 32.2 kN. Engineering confirmation required.

SERVO PRESS SYSTEMS

CONTROL ARCHITECTURES & PROCESS FUNCTIONS

CONTROL SYSTEM COMPARISON

Standard cylinders or press-specific cylinders can be integrated with a customer-supplied frame or supplied as a complete system.

Feature	PLC-based control	Open-loop press control	Fully closed-loop control
Motor / feedback	Standard servo motor	Servo with Tamagawa encoder	Servo with Tamagawa encoder
Cylinder	Standard electric cylinder	Press-specific cylinder (ZDG series)	Optional linear encoder and internal/external force sensor
Position repeatability	±0.01 mm	±0.005 mm	±0.003 mm
Position accuracy	Not specified	Not specified	±0.01 mm
Force accuracy	1% FS	1% FS	0.5% FS
Multi-step pressing	Usually one pressing step	Three pressing stages	Three pressing stages
Pressing mode	Manual deceleration-point setup	Open-loop position / force process control	Closed-loop position / force process control
Return mode	Usually position mode	Position or reaction-force mode	Position or reaction-force mode
Quality evaluation	Usually point-based checks	Five point-check groups; window / region checks; custom checks	Five point-check groups; window / region checks; custom checks
Spring-force correction	Usually unavailable	Up to 30 correction points	Up to 50 correction points
Dynamic tuning	Usually unavailable	Usually unavailable	Real-time speed, position, force and current curves
Overload response	Usually unavailable	Current monitoring; stop and alarm at configured threshold	Current monitoring; stop and alarm at configured threshold
Remote data access	Not specified	TCP/IP data and status upload	TCP/IP data and status upload

Source-specific comparison, not a general limit of PLC or servo technology. A/B/C identify reference table columns only; they are not model codes.

REVIEW STATUS: Reference material. Source equipment is not verified as a NEFEIT-manufactured assembly; specifications require configuration-level confirmation.

CLOSED-LOOP PRESS

REFERENCE CONFIGURATION & SOURCE SPECIFICATIONS

PRECISION PRESS | REFERENCE ASSEMBLY

Integrated drive and press controller with servo motor, force sensor and linear encoder inputs for closed-loop position and force control.

Mechanical integration addresses platen alignment and shaft guidance. Tooling, process limits and changeover requirements are application-specific.



SOURCE REFERENCE IMAGE

Parameter	Class A	Class B	Class C
Stroke	250 mm	250 mm	250 mm
Force range (source)	0–500 kgf	0.1–1 T*	0.1–2 T*
Force accuracy	0.5% FS	0.5% FS	0.5% FS
Maximum speed	250 mm/s	250 mm/s	125 mm/s
Pressing speed	0–30 mm/s	0–30 mm/s	0–30 mm/s
Position accuracy	±0.01 mm	±0.01 mm	±0.01 mm
Position repeatability	±0.005 mm	±0.005 mm	±0.005 mm
Supply options*	220 / 380 V, 50 Hz	220 / 380 V, 50 Hz	220 / 380 V, 50 Hz
Power rating	1000 W	2000 W	3000 W
Worktable	400 × 300 mm	400 × 300 mm	400 × 300 mm

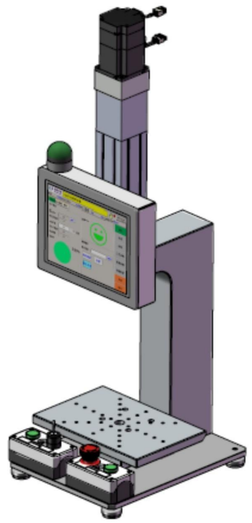
* T is the source notation; its force-unit basis requires confirmation. 220/380 V are source-listed options, not a dual-voltage rating; variant selection is unconfirmed. FS basis and accuracy test conditions are unspecified.

DESKTOP SERVO PRESS

REFERENCE ASSEMBLY & SOURCE SPECIFICATIONS

PRECISION DESKTOP PRESS

A compact press configuration for micro-motor and precision-component assembly. Tooling and changeover requirements depend on the application.



ORIGINAL REFERENCE ASSEMBLY

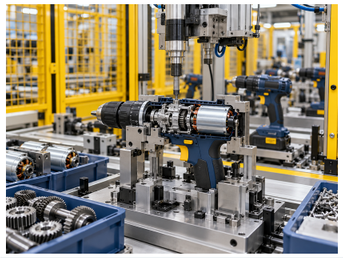
Parameter	Source specification
Stroke	150 mm
Daylight (open height)	280 mm
Force range	0–300 kgf
Force accuracy	0.5% FS
Maximum speed	250 mm/s
Pressing speed	0–30 mm/s
Position accuracy	±0.02 mm
Position repeatability	±0.005 mm
Power supply	220 V, 50 Hz
Power rating	750 W
Machine mass	90 kg

Reference data only. FS basis, accuracy test conditions and NEFEIT configuration equivalence require engineering confirmation.

APPLICATIONS

ILLUSTRATIONS + SOURCE REFERENCE | ACTUATOR GEOMETRY NOT VERIFIED

SERVO MOTION APPLICATIONS



POWER TOOL ASSEMBLY



TEXTILE MACHINERY



CUSTOM AUTOMATION



BOTTLE FILLING



OIL & GAS EQUIPMENT



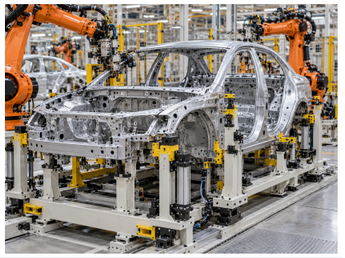
MOTION RACING SIMULATOR



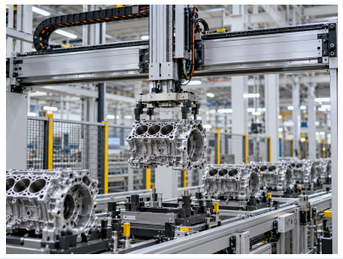
FLIGHT SIMULATION PLATFORM



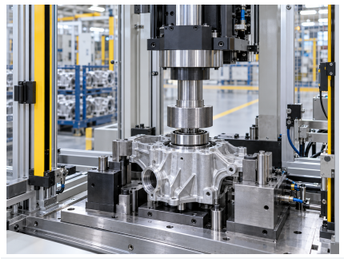
BLOW MOLDING



AUTOMOTIVE BODY ASSEMBLY



AUTOMOTIVE GANTRY HANDLING



AUTOMOTIVE PRESS FITTING



GUARDED SERVO PRESS WORKSTATION

MANUFACTURING

MACHINING · ASSEMBLY · TESTING · PACKAGING

FACTORY & WORKFLOW



01 CNC MACHINING



02 COMPONENT PREPARATION



03 ASSEMBLY & INSPECTION



04 FUNCTIONAL TESTING



05 PROTECTIVE PACKAGING

FROM COMPONENTS TO FINISHED ASSEMBLIES

Machining

Component preparation

Assembly and inspection

Functional testing

Protective packaging

Factory visuals supplied for brochure use. Manufacturing details and customer references remain subject to source confirmation.

PARTNERS & PROSPECTS

CUSTOMER REFERENCES & POTENTIAL OEM APPLICATIONS

CUSTOMER REFERENCES

HAN'S LASER

SANY

BYD

CATL

GLOBAL OEM PROSPECTS

POTENTIAL APPLICATION FIT · NO PARTNERSHIP IMPLIED

BMW GROUP
Vehicle & e-drive assembly

MERCEDES-BENZ
Vehicle & battery assembly

BOSCH
Assembly & testing equipment

ABB
Robotics & press automation

VOLKSWAGEN GROUP
Vehicle & battery production

SIEMENS
Industrial automation systems

Company names below the divider indicate research targets only.