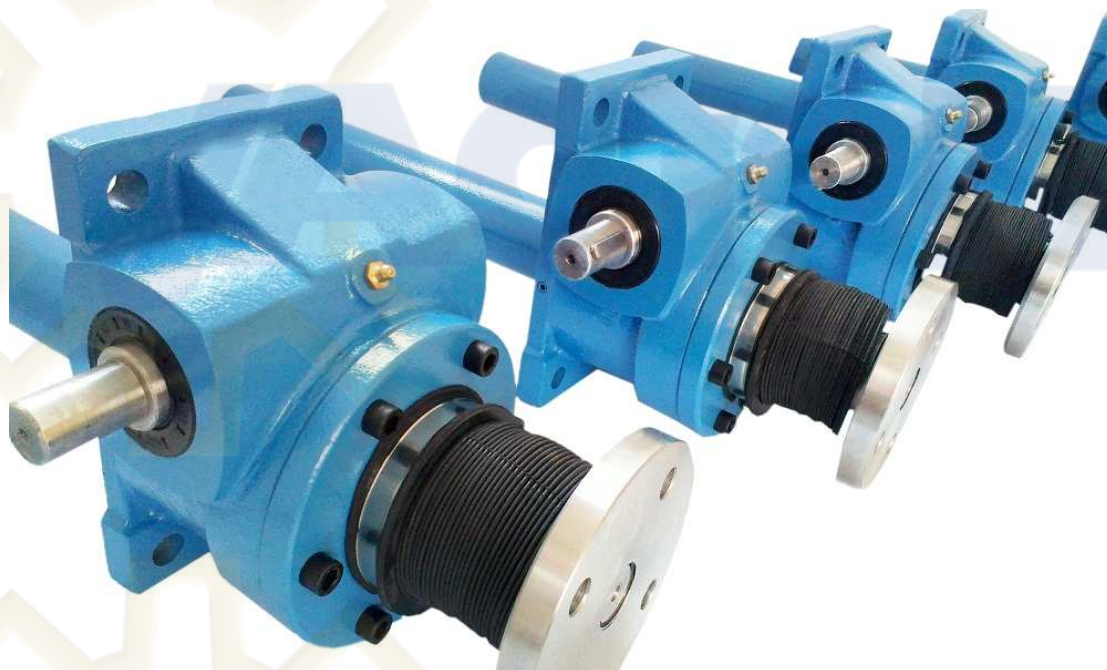


JT-SERIES TRAPEZOIDAL SCREW JACKS



* The worm gear driven trapezoidal screw jack incorporates a heat treatment standard #45 steel worm which drives a high strength bronze worm gear. The worm shaft is supported on anti-friction tapered roller bearings with external seals provided to prevent loss of lubrication. Lubrication with synthetic grease ep2 lithium grease. The bronze worm gear is supported on anti-friction tapered roller bearings. Rotation of the bronze worm gear causes the trapezoidal thread lifting screw to translate or rotate, depending upon jack configuration. The jack housing is made of ductile iron (0.5 ton, 1 ton jack with cast iron materials) and proportioned to support the rate capacity of the unit. The lifting screw is made of standard #45 steel.

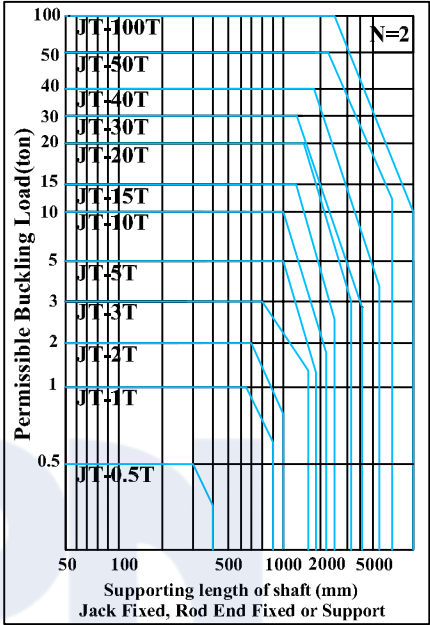
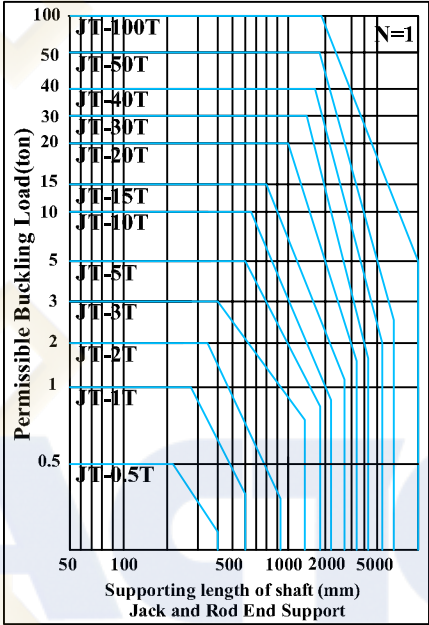
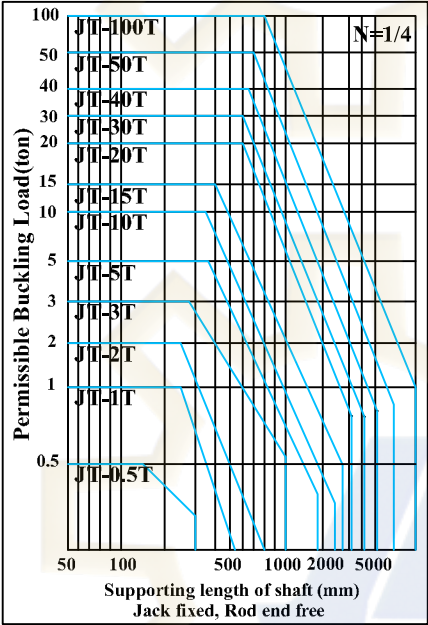
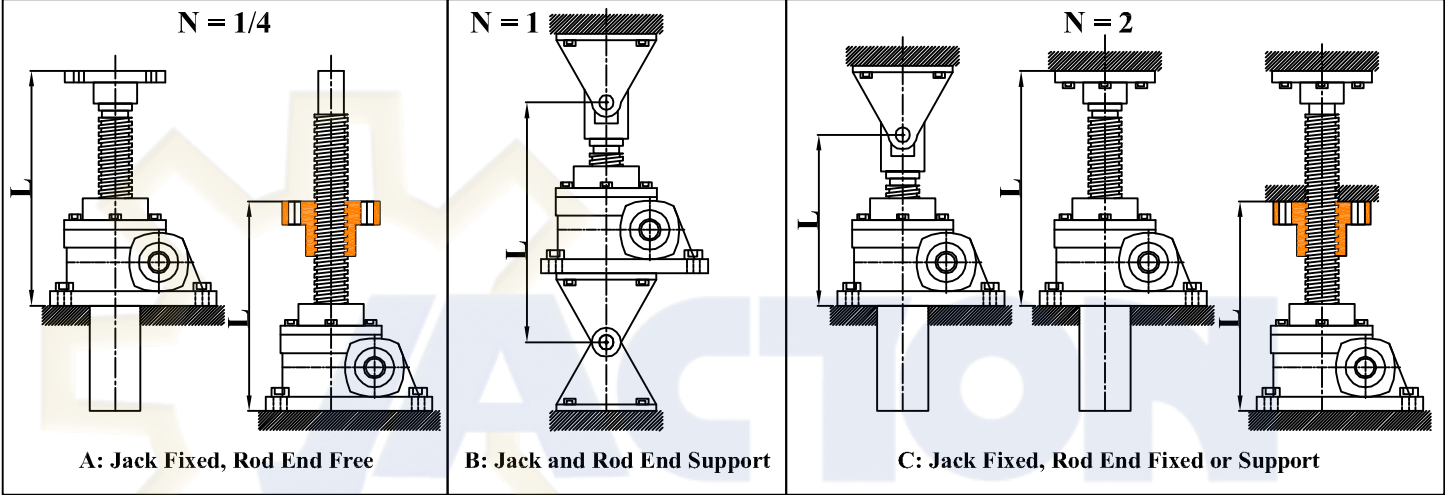
* JT-Series Trapezoidal Screw Jacks major configuration divides the jacks into translating trapezoidal screw jacks, lifting nut rotating trapezoidal screw jacks, anti-rotation keyed trapezoidal screw jacks, anti-backlash trapezoidal screw jacks, double clevis trapezoidal screw jacks etc. Upright and inverted type trapezoidal jacks. Standard lifting screw end types such as top flange (top plate), clevis end (male clevis), threaded end and plain end, also can custom to make kinds of lifting screw ends.

* In the absence of vibration load, JT-Series Trapezoidal Screw Jacks has self lock and precisely position loads, will hold loads without backdriving, and no need any brake mechanism or locking system. Lifting force from 0.5 ton to 100 ton. Linear speeds up to 3 m/min. Can be driven by motors, hand wheels or both together, 12 sizes in three gear ratios for high, medium and slow linear speeds. Can be mounted in any attitude. Generally maintenance free.

* JT-Series Trapezoidal Screw Jacks are used wherever controlled lifting, lowering, pushing and pulling is required. They can be installed single unit, in pairs or multiple units screw jack lifting systems simultaneously lifting. Accessories such as electric motors, hand wheels, digital counters, flex couplings, bevel gearboxes, bellow boots, limit switches, drive shafts, pillow blocks, flange blocks, stop nuts, gear motors, worm gear reducer, rod ends etc.

JT-Series Trapezoidal Screw Jacks Application in steel mills roller adjustment, roll forming mills roller adjustment, adjusting synchronous coil feed lines rolls, precision roller leveler, cold roller adjustment, hot roller adjustment, Metering slide in a grain chute, Mobile transfer station, Pivoting conveyor system, Film roll turning for horizontal and vertical loading and releasing, Cooling tunnel, Wide belt grinding machine, Panel transport trolley with precise height adjustment for a smooth transfer, coil handing, semi-finished product handling, brush adjustment belt cleaning, zinc pot lifting mechanism, air knife system adjustment, roll pass system, sizing stand and molten steel pot lifting system etc.

Permissible Buckling Load



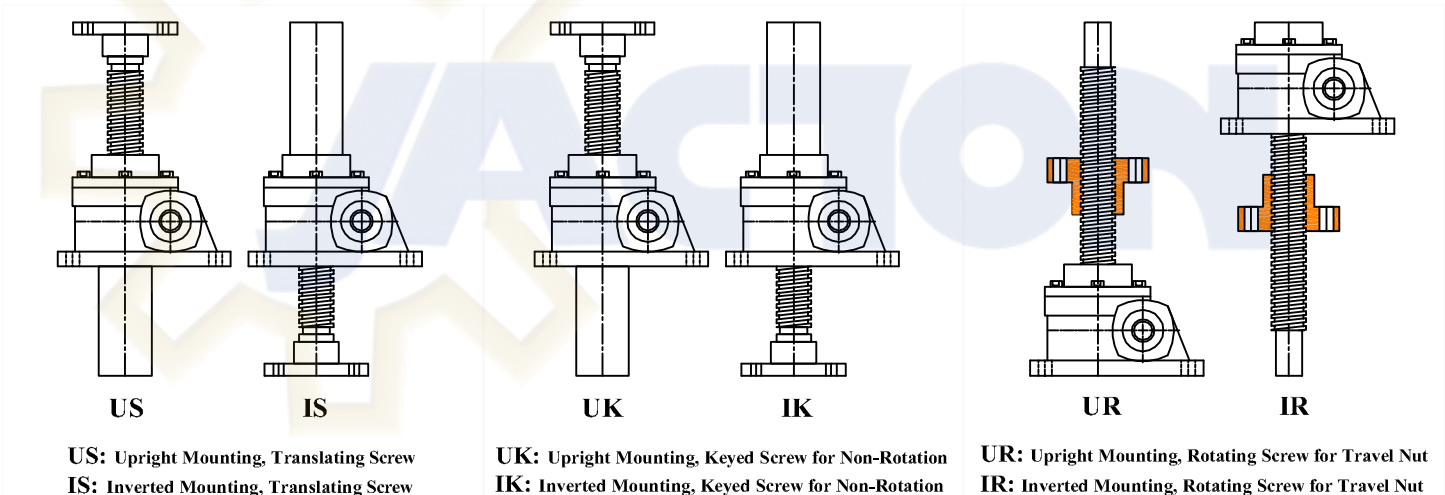
Sample Parts Numbers

Sample Parts Numbers: $\frac{JT-5T}{(1)} - \frac{US}{(2)} - \frac{300}{(3)} - \frac{H}{(4)} - \frac{I}{(5)} - \frac{C}{(6)} - \frac{PP}{(7)}$

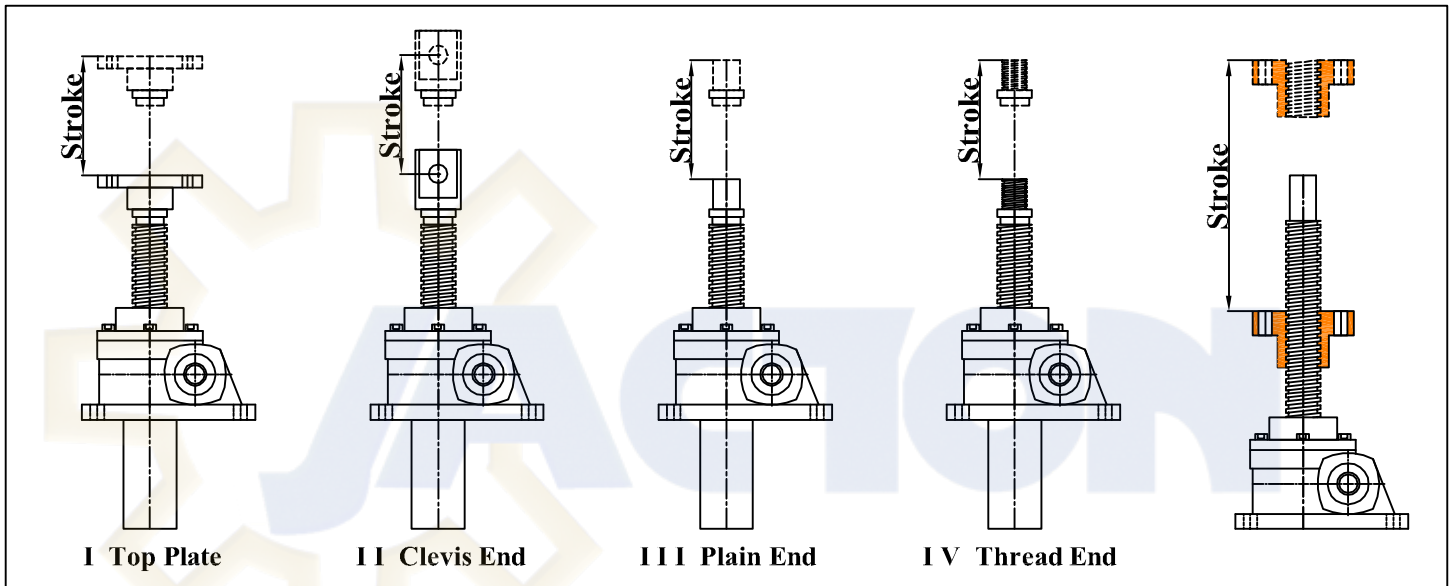
(1) Models & (4) Ratios

JT-0.5T (Tr20x5) H:1/5, M:1/10, L:1/20	JT-1T (Tr24x5) H:1/5, M:1/10, L:1/20	JT-2T (Tr26x5) H:1/5, M:1/10, L:1/20	JT-3T (Tr32x6) H:1/6, M:1/12, L:1/24	JT-5T (Tr38x6) H:1/6, M:1/12, L:1/24
JT-10T (Tr46x8) H:1/8, M:1/16, L:1/32	JT-15T (Tr52x8) H:1/8, M:1/16, L:1/32	JT-20T (Tr65x10) H:1/10, M:1/20, L:1/40	JT-30T (Tr75x12) H:1/12, M:1/18, L:1/36	JT-40T (Tr80x12) H:1/12, M:1/18, L:1/36
JT-50T (Tr90x14) H:1/7, M:1/14, L:1/28	JT-100T (Tr100x16) H:1/8, M:1/16, L:1/32	H: High Gear Ratio, M: Medium Gear Ratio, L: Low Gear Ratio		

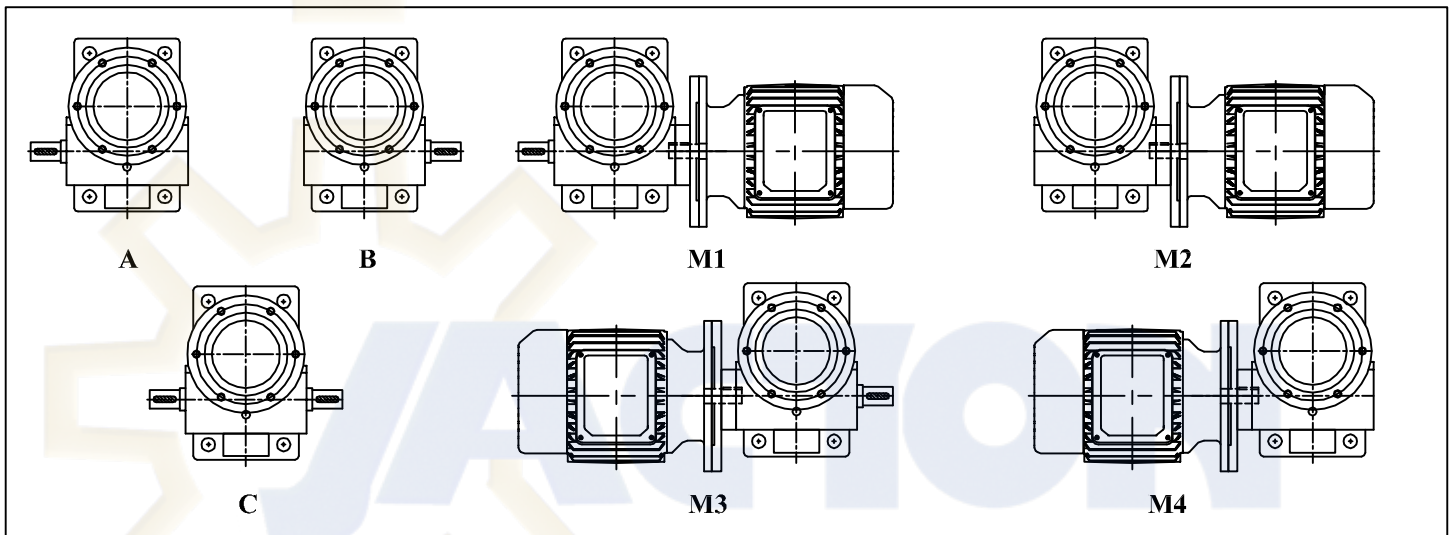
(2) Jack Design and Configuration



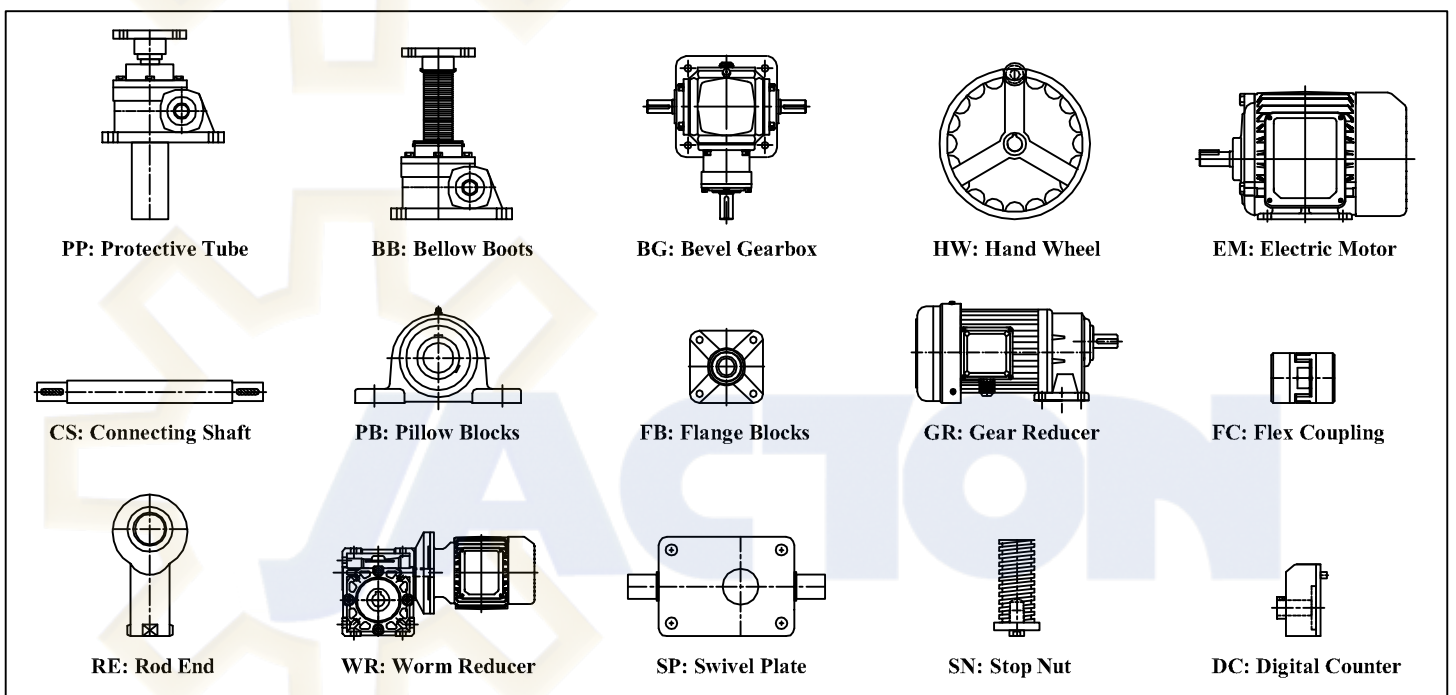
(3) Stroke & (5) Screw End Fittings



(6) Input Shafts Types & Motor Flange Types



(7) Accessories



JT-0.5T Performance Tables (Lift Screw Tr20x5)

Gear Ratio	Lift screw travel (mm), per turn of input shaft	Eff. %	1800 rpm			1500 rpm			1200 rpm		
			Power kw	Load ton	Speed m/min	Power kw	Load ton	Speed m/min	Power kw	Load ton	Speed m/min
H: 1/5	1.0	23	0.15	0.10	1.80	0.15	0.12	1.50	0.15	0.16	1.20
M: 1/10	0.5	22	0.08	0.10	0.90	0.14	0.16	0.75	0.10	0.19	0.60
L: 1/20	0.25	17	0.05	0.12	0.45	0.07	0.18	0.38	0.07	0.21	0.30
Gear Ratio	Lift screw travel (mm), per turn of input shaft	Eff. %	900 rpm			600 rpm			300 rpm		
			Power kw	Load ton	Speed m/min	Power kw	Load ton	Speed m/min	Power kw	Load ton	Speed m/min
H: 1/5	1.0	23	0.14	0.18	0.90	0.10	0.20	0.60	0.06	0.25	0.30
M: 1/10	0.5	22	0.08	0.20	0.45	0.06	0.23	0.30	0.04	0.28	0.15
L: 1/20	0.25	17	0.06	0.25	0.23	0.04	0.25	0.15	0.02	0.30	0.08

JT-1T Performance Tables (Lift Screw Tr24x5)

Gear Ratio	Lift screw travel (mm), per turn of input shaft	Eff. %	1800 rpm			1500 rpm			1200 rpm		
			Power kw	Load ton	Speed m/min	Power kw	Load ton	Speed m/min	Power kw	Load ton	Speed m/min
H: 1/5	1.0	23	0.38	0.25	1.80	0.38	0.30	1.50	0.38	0.36	1.20
M: 1/10	0.5	22	0.15	0.25	0.90	0.19	0.30	0.75	0.23	0.45	0.60
L: 1/20	0.25	17	0.15	0.30	0.45	0.12	0.36	0.38	0.14	0.50	0.30
Gear Ratio	Lift screw travel (mm), per turn of input shaft	Eff. %	900 rpm			600 rpm			300 rpm		
			Power kw	Load ton	Speed m/min	Power kw	Load ton	Speed m/min	Power kw	Load ton	Speed m/min
H: 1/5	1.0	23	0.30	0.40	0.90	0.23	0.50	0.60	0.14	0.55	0.30
M: 1/10	0.5	22	0.19	0.50	0.45	0.15	0.55	0.30	0.08	0.60	0.15
L: 1/20	0.25	17	0.11	0.55	0.23	0.08	0.60	0.15	0.04	0.60	0.08

JT-2T Performance Tables (Lift Screw Tr26x5)

Gear Ratio	Lift screw travel (mm), per turn of input shaft	Eff. %	1800 rpm			1500 rpm			1200 rpm		
			Power kw	Load ton	Speed m/min	Power kw	Load ton	Speed m/min	Power kw	Load ton	Speed m/min
H: 1/5	1.0	21	0.69	0.50	1.80	0.64	0.55	1.50	0.65	0.70	1.20
M: 1/10	0.5	18	0.37	0.50	0.90	0.37	0.55	0.75	0.37	0.70	0.60
L: 1/20	0.25	11	0.37	0.60	0.45	0.37	0.70	0.38	0.37	0.90	0.30
Gear Ratio	Lift screw travel (mm), per turn of input shaft	Eff. %	900 rpm			600 rpm			300 rpm		
			Power kw	Load ton	Speed m/min	Power kw	Load ton	Speed m/min	Power kw	Load ton	Speed m/min
H: 1/5	1.0	21	0.63	0.90	0.90	0.46	1.00	0.60	0.37	1.00	0.30
M: 1/10	0.5	18	0.37	0.95	0.45	0.37	1.00	0.30	0.19	1.35	0.15
L: 1/20	0.25	11	0.37	1.20	0.23	0.19	1.35	0.15	0.19	1.35	0.08

JT-3T Performance Tables (Lift Screw Tr32x6)

Gear Ratio	Lift screw travel (mm), per turn of input shaft	Eff. %	1800 rpm			1500 rpm			1200 rpm		
			Power kw	Load ton	Speed m/min	Power kw	Load ton	Speed m/min	Power kw	Load ton	Speed m/min
H: 1/6	1.0	21	0.98	0.70	1.80	0.93	0.80	1.50	0.88	0.95	1.20
M: 1/12	0.5	21	0.66	0.95	0.90	0.64	1.10	0.75	0.61	1.30	0.60
L: 1/24	0.25	17	0.37	0.95	0.45	0.37	1.10	0.38	0.37	1.30	0.30
Gear Ratio	Lift screw travel (mm), per turn of input shaft	Eff. %	900 rpm			600 rpm			300 rpm		
			Power kw	Load ton	Speed m/min	Power kw	Load ton	Speed m/min	Power kw	Load ton	Speed m/min
H: 1/6	1.0	21	0.91	1.30	0.90	0.84	1.80	0.60	0.42	1.80	0.30
M: 1/12	0.5	21	0.57	1.65	0.45	0.46	2.00	0.30	0.37	2.00	0.15
L: 1/24	0.25	17	0.37	1.65	0.23	0.37	2.00	0.15	0.19	2.00	0.08

JT-5T Performance Tables (Lift Screw Tr38x6)

Gear Ratio	Lift screw travel (mm), per turn of input shaft	Eff. %	1800 rpm			1500 rpm			1200 rpm		
			Power kw	Load ton	Speed m/min	Power kw	Load ton	Speed m/min	Power kw	Load ton	Speed m/min
H: 1/6	1.0	19	1.39	0.90	1.80	1.28	1.00	1.50	1.24	1.20	1.20
M: 1/12	0.5	18	1.10	1.35	0.90	1.01	1.50	0.75	0.98	1.80	0.60
L: 1/24	0.25	17	0.78	1.80	0.45	0.72	2.00	0.38	0.69	2.40	0.30
Gear Ratio	Lift screw travel (mm), per turn of input shaft	Eff. %	900 rpm			600 rpm			300 rpm		
			Power kw	Load ton	Speed m/min	Power kw	Load ton	Speed m/min	Power kw	Load ton	Speed m/min
H: 1/6	1.0	19	1.16	1.50	0.90	0.87	1.70	0.60	0.54	2.10	0.30
M: 1/12	0.5	18	0.87	2.15	0.45	0.58	2.15	0.30	0.37	2.50	0.15
L: 1/24	0.25	17	0.55	2.55	0.23	0.42	2.90	0.15	0.37	2.85	0.08

JT-10T Performance Tables (Lift Screw Tr46x8)

Gear Ratio	Lift screw travel (mm), per turn of input shaft	Eff. %	1800 rpm			1500 rpm			1200 rpm		
			Power kw	Load ton	Speed m/min	Power kw	Load ton	Speed m/min	Power kw	Load ton	Speed m/min
H: 1/8	1.0	18	2.12	1.30	1.80	1.97	1.45	1.50	1.85	1.70	1.20
M: 1/16	0.5	17	1.12	1.30	0.90	1.04	1.45	0.75	0.98	1.70	0.60
L: 1/32	0.25	16	0.80	1.75	0.45	0.75	1.95	0.38	0.69	2.25	0.30
Gear Ratio	Lift screw travel (mm), per turn of input shaft	Eff. %	900 rpm			600 rpm			300 rpm		
			Power kw	Load ton	Speed m/min	Power kw	Load ton	Speed m/min	Power kw	Load ton	Speed m/min
H: 1/8	1.0	18	1.72	2.10	0.90	1.66	3.05	0.60	1.31	4.80	0.30
M: 1/16	0.5	17	0.95	2.20	0.45	0.87	3.05	0.30	0.69	4.80	0.15
L: 1/32	0.25	16	0.64	2.80	0.23	0.63	4.10	0.15	0.48	6.40	0.08

JT-15T Performance Tables (Lift Screw Tr52x8)

Gear Ratio	Lift screw travel (mm), per turn of input shaft	Eff. %	1800 rpm			1500 rpm			1200 rpm		
			Power kw	Load ton	Speed m/min	Power kw	Load ton	Speed m/min	Power kw	Load ton	Speed m/min
H: 1/8	1.0	19	2.00	1.30	1.80	1.86	1.45	1.50	1.75	1.70	1.20
M: 1/16	0.5	18	1.06	1.30	0.90	0.98	1.45	0.75	0.93	1.70	0.60
L: 1/32	0.25	17	0.75	1.75	0.45	0.70	1.95	0.38	0.65	2.25	0.30
Gear Ratio	Lift screw travel (mm), per turn of input shaft	Eff. %	900 rpm			600 rpm			300 rpm		
			Power kw	Load ton	Speed m/min	Power kw	Load ton	Speed m/min	Power kw	Load ton	Speed m/min
H: 1/8	1.0	19	1.62	2.10	0.90	1.57	3.05	0.60	1.24	4.80	0.30
M: 1/16	0.5	18	0.89	2.20	0.45	0.83	3.05	0.30	0.65	4.80	0.15
L: 1/32	0.25	17	0.61	2.80	0.23	0.59	4.10	0.15	0.46	6.40	0.08

JT-20T Performance Tables (Lift Screw Tr65x10)

Gear Ratio	Lift screw travel (mm), per turn of input shaft	Eff. %	1800 rpm			1500 rpm			1200 rpm		
			Power kw	Load ton	Speed m/min	Power kw	Load ton	Speed m/min	Power kw	Load ton	Speed m/min
H: 1/10	1.0	15	2.66	1.40	1.80	2.42	1.85	1.50	2.25	1.95	1.20
M: 1/20	0.5	15	1.42	1.60	0.90	1.47	1.85	0.75	1.37	2.25	0.60
L: 1/40	0.25	15	1.14	2.40	0.45	1.17	2.80	0.38	1.09	3.35	0.30
Gear Ratio	Lift screw travel (mm), per turn of input shaft	Eff. %	900 rpm			600 rpm			300 rpm		
			Power kw	Load ton	Speed m/min	Power kw	Load ton	Speed m/min	Power kw	Load ton	Speed m/min
H: 1/10	1.0	15	2.12	2.45	0.90	1.93	3.35	0.60	1.41	4.90	0.30
M: 1/20	0.5	15	1.28	2.80	0.45	1.18	3.85	0.30	0.86	5.60	0.15
L: 1/40	0.25	15	1.07	4.40	0.23	0.93	5.75	0.15	0.69	8.40	0.08

JT-30T Performance Tables (Lift Screw Tr75x12)

Gear Ratio	Lift screw travel (mm), per turn of input shaft	Eff. %	1800 rpm			1500 rpm			1200 rpm		
			Power kw	Load ton	Speed m/min	Power kw	Load ton	Speed m/min	Power kw	Load ton	Speed m/min
H: 1/12	1.0	15	3.62	1.85	1.80	3.51	2.15	1.50	3.39	2.60	1.20
M: 1/18	0.67	14	2.65	1.90	1.20	2.68	2.30	1.00	2.57	2.75	0.80
L: 1/36	0.33	13	1.66	2.20	0.60	1.63	2.60	0.50	1.60	3.20	0.40
Gear Ratio	Lift screw travel (mm), per turn of input shaft	Eff. %	900 rpm			600 rpm			300 rpm		
			Power kw	Load ton	Speed m/min	Power kw	Load ton	Speed m/min	Power kw	Load ton	Speed m/min
H: 1/12	1.0	15	3.18	3.25	0.90	2.94	4.50	0.60	2.09	6.40	0.30
M: 1/18	0.67	14	2.45	3.50	0.60	2.19	4.70	0.40	1.56	6.70	0.20
L: 1/36	0.33	13	1.47	3.90	0.30	1.36	5.40	0.20	1.20	9.60	0.10

JT-40T Performance Tables (Lift Screw Tr80x12)

Gear Ratio	Lift screw travel (mm), per turn of input shaft	Eff. %	1800 rpm			1500 rpm			1200 rpm		
			Power kw	Load ton	Speed m/min	Power kw	Load ton	Speed m/min	Power kw	Load ton	Speed m/min
H: 1/12	1.0	14	4.15	1.98	1.80	4.02	2.30	1.50	3.81	2.73	1.20
M: 1/18	0.67	13	3.20	2.13	1.20	3.20	2.55	1.00	3.04	3.03	0.80
L: 1/36	0.33	12	2.14	2.63	0.60	2.07	3.05	0.50	1.98	3.65	0.40
Gear Ratio	Lift screw travel (mm), per turn of input shaft	Eff. %	900 rpm			600 rpm			300 rpm		
			Power kw	Load ton	Speed m/min	Power kw	Load ton	Speed m/min	Power kw	Load ton	Speed m/min
H: 1/12	1.0	14	3.80	3.63	0.90	3.48	4.98	0.60	2.48	7.05	0.30
M: 1/18	0.67	13	3.03	4.03	0.60	2.74	5.45	0.40	1.94	7.73	0.20
L: 1/36	0.33	12	1.99	4.88	0.30	1.80	6.60	0.20	1.40	10.30	0.10

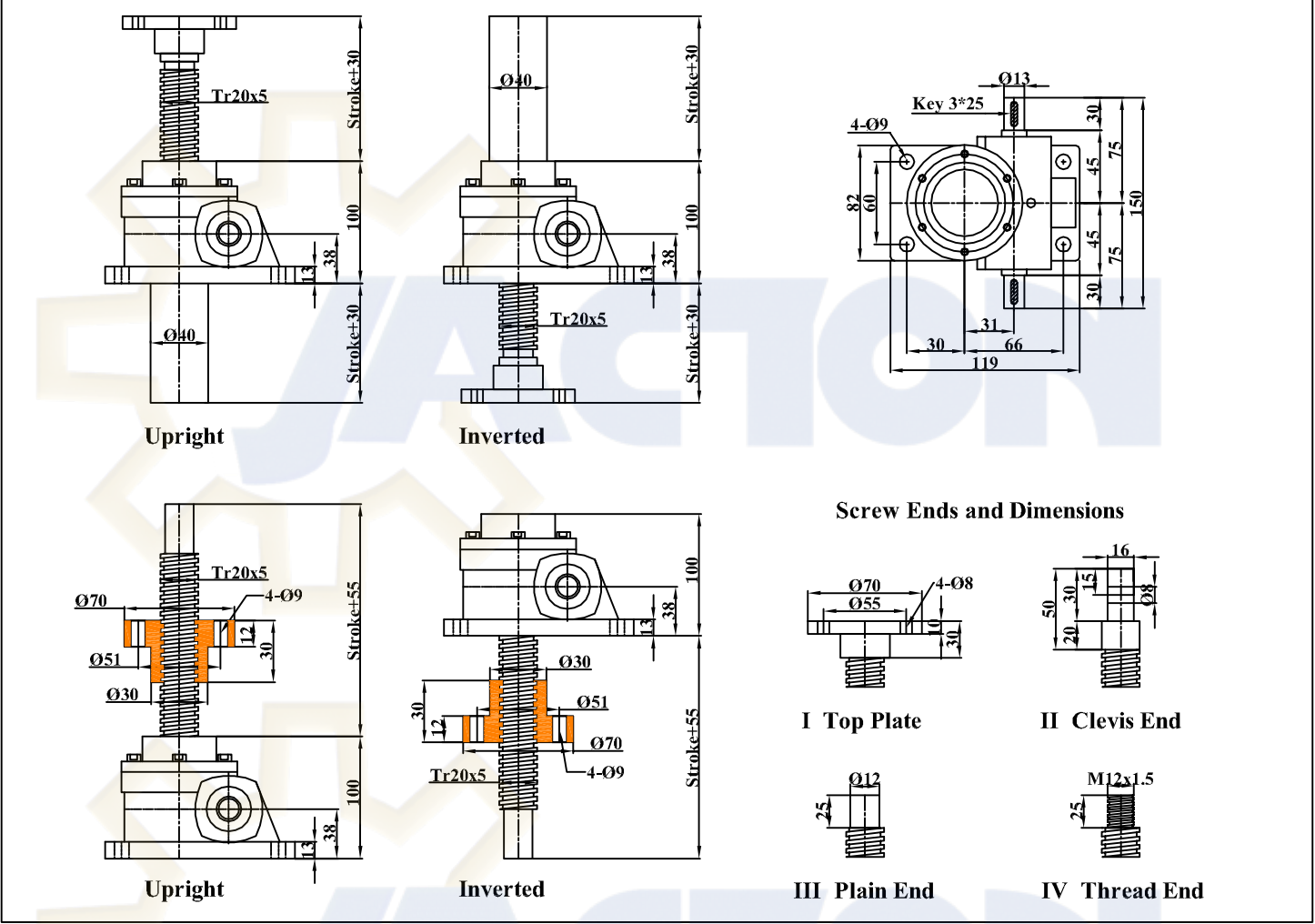
JT-50T Performance Tables (Lift Screw Tr90x14)

Gear Ratio	Lift screw travel (mm), per turn of input shaft	Eff. %	1800 rpm			1500 rpm			1200 rpm		
			Power kw	Load ton	Speed m/min	Power kw	Load ton	Speed m/min	Power kw	Load ton	Speed m/min
H: 1/7	2.0	12	9.47	2.10	3.60	9.17	2.45	3.00	9.02	2.85	2.40
M: 1/14	1.0	12	5.76	2.35	1.80	5.71	2.80	1.50	5.57	3.30	1.20
L: 1/28	0.5	10	4.08	3.05	0.90	3.89	3.50	0.75	3.91	4.10	0.60
Gear Ratio	Lift screw travel (mm), per turn of input shaft	Eff. %	900 rpm			600 rpm			300 rpm		
			Power kw	Load ton	Speed m/min	Power kw	Load ton	Speed m/min	Power kw	Load ton	Speed m/min
H: 1/7	2.0	12	8.58	4.00	1.80	8.20	5.45	1.20	5.84	7.75	0.60
M: 1/14	1.0	12	5.39	4.55	0.90	5.06	6.20	0.60	3.57	8.75	0.30
L: 1/28	0.5	10	3.65	5.85	0.45	3.48	7.80	0.30	2.45	11.00	0.15

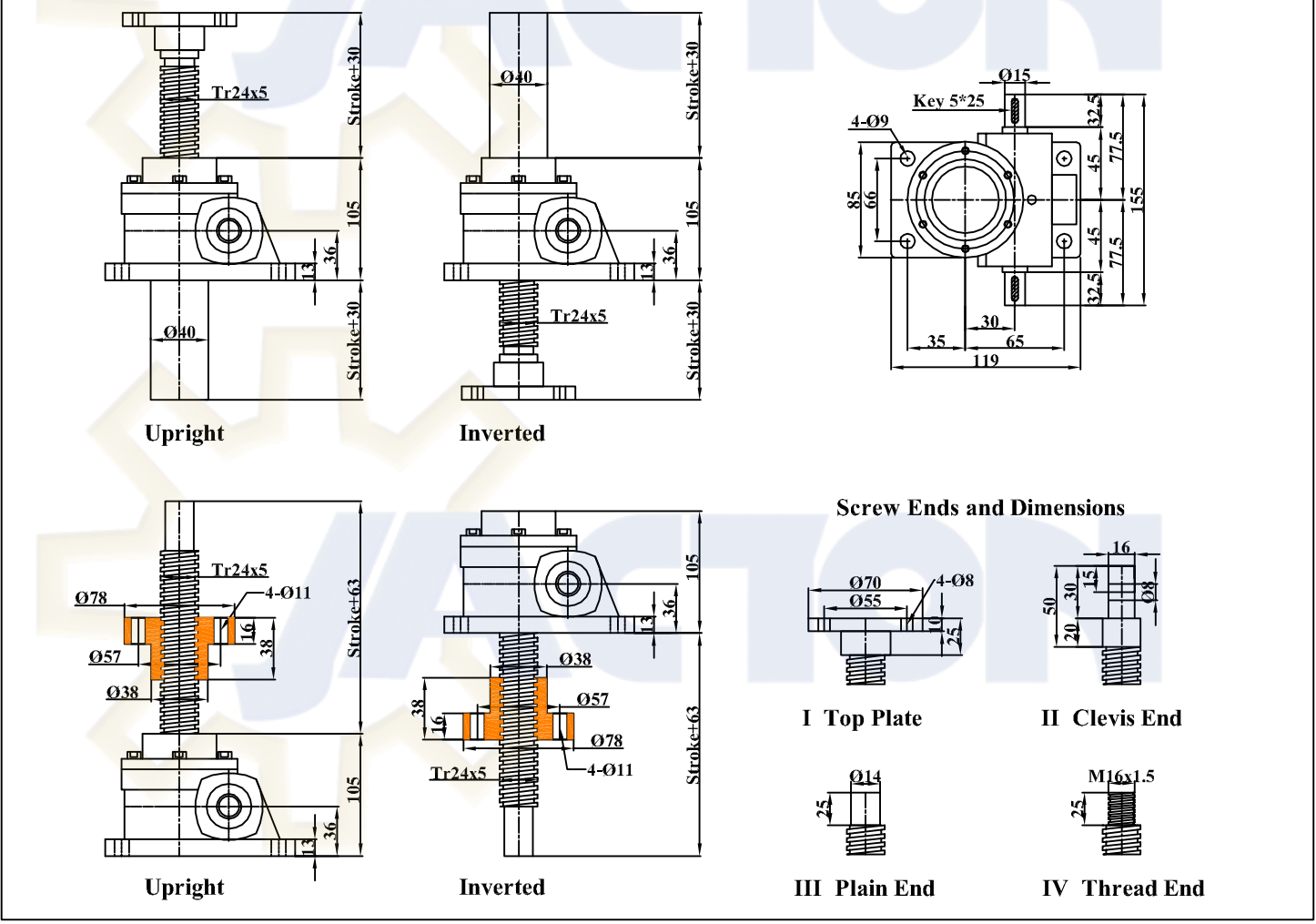
JT-100T Performance Tables (Lift Screw Tr100x16)

Gear Ratio	Lift screw travel (mm), per turn of input shaft	Eff. %	1800 rpm			1500 rpm			1200 rpm		
			Power kw	Load ton	Speed m/min	Power kw	Load ton	Speed m/min	Power kw	Load ton	Speed m/min
H: 1/8	2.0	12	16.30	3.50	3.60	16.10	4.00	3.00	15.80	5.40	2.40
M: 1/16	1.0	11	11.70	4.30	1.80	11.60	5.40	1.50	10.50	7.20	1.20
L: 1/32	0.5	9	8.65	5.50	0.90	9.55	6.80	0.75	7.35	10.00	0.60
Gear Ratio	Lift screw travel (mm), per turn of input shaft	Eff. %	900 rpm			600 rpm			300 rpm		
			Power kw	Load ton	Speed m/min	Power kw	Load ton	Speed m/min	Power kw	Load ton	Speed m/min
H: 1/8	2.0	12	15.10	7.10	1.80	14.80	9.85	1.20	9.70	12.95	0.60
M: 1/16	1.0	11	11.00	9.45	0.90	9.62	11.80	0.60	7.08	17.35	0.30
L: 1/32	0.5	9	7.53	14.30	0.45	7.02	15.75	0.30	5.80	26.05	0.15

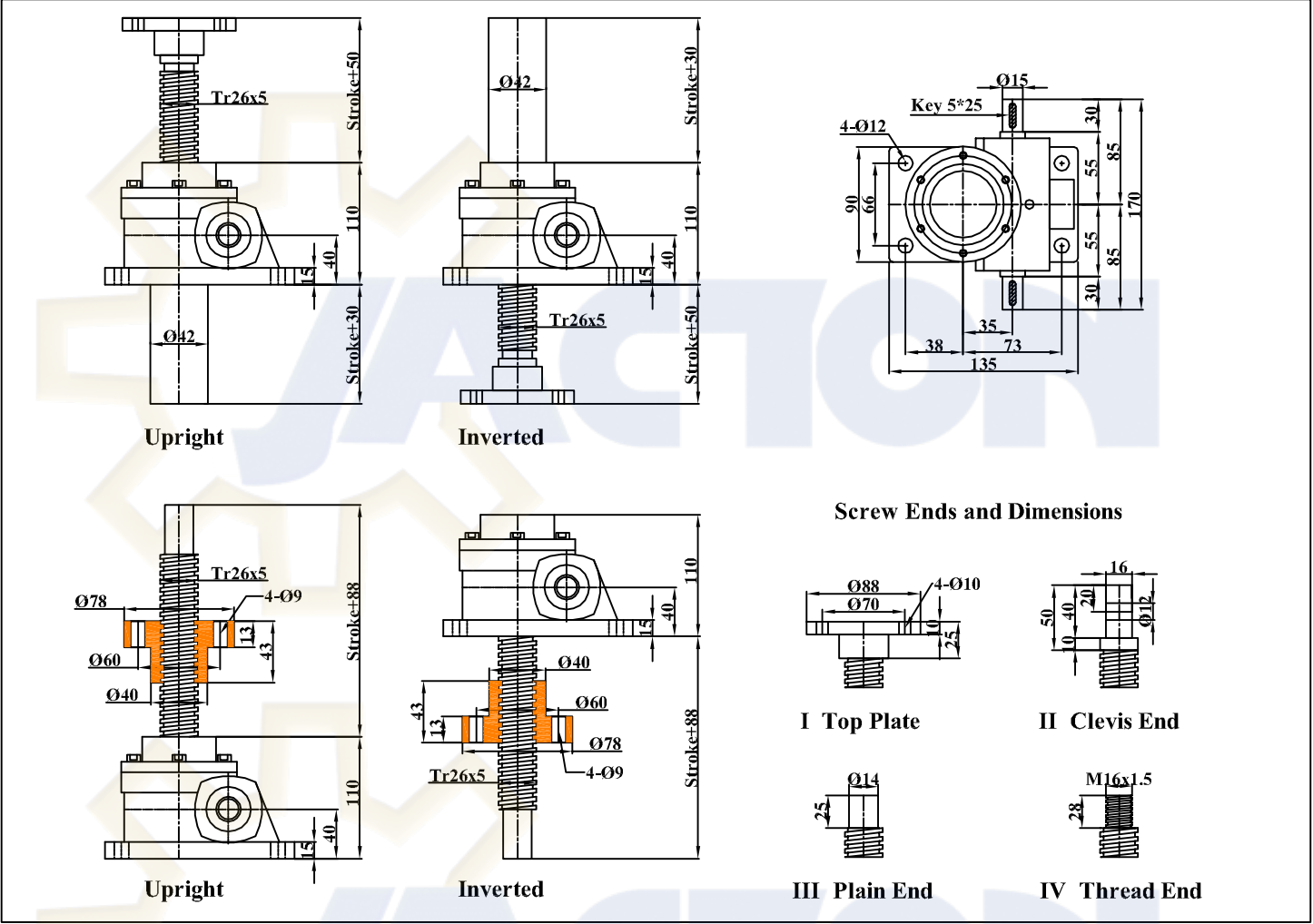
JT-0.5T



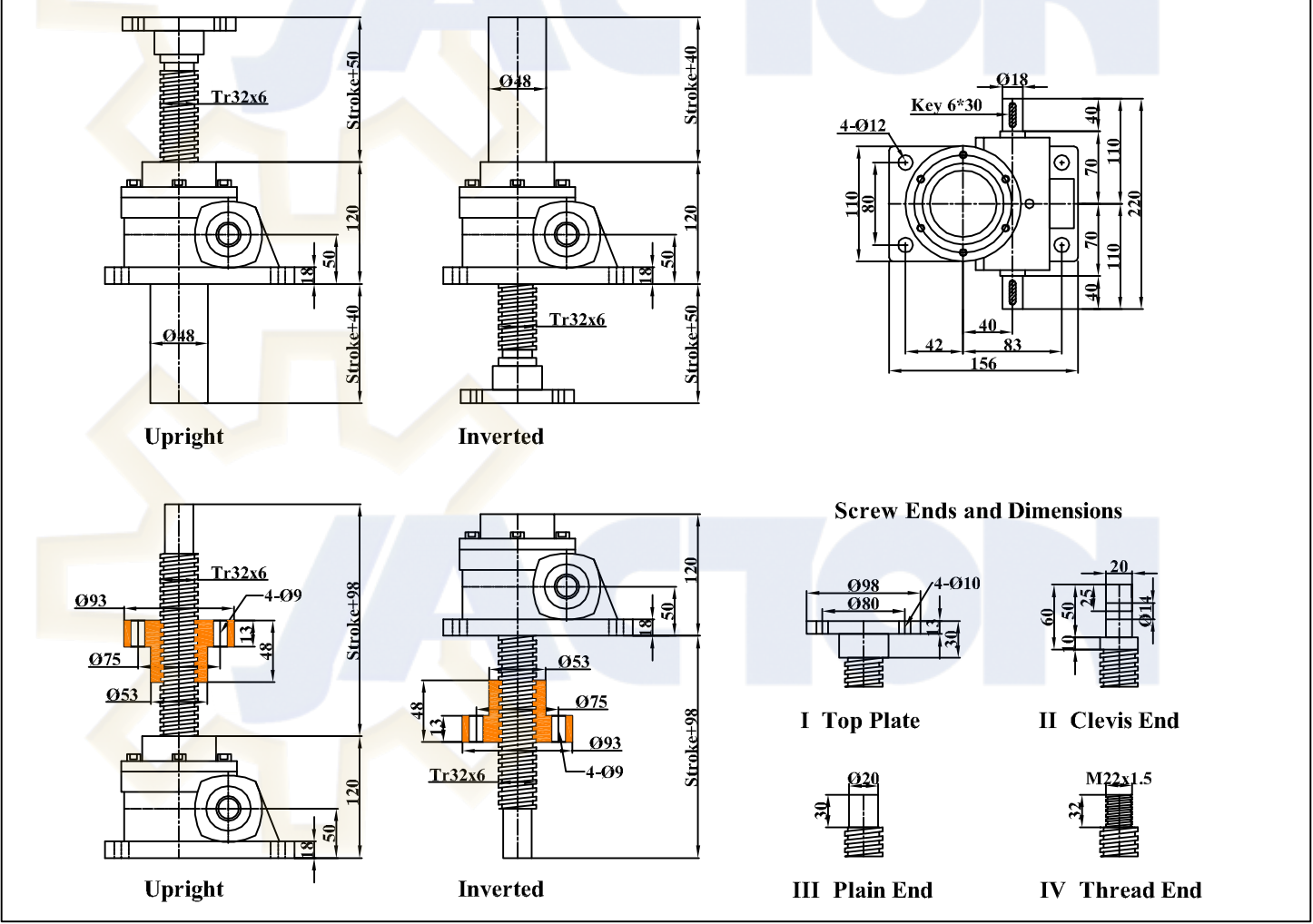
JT-1T



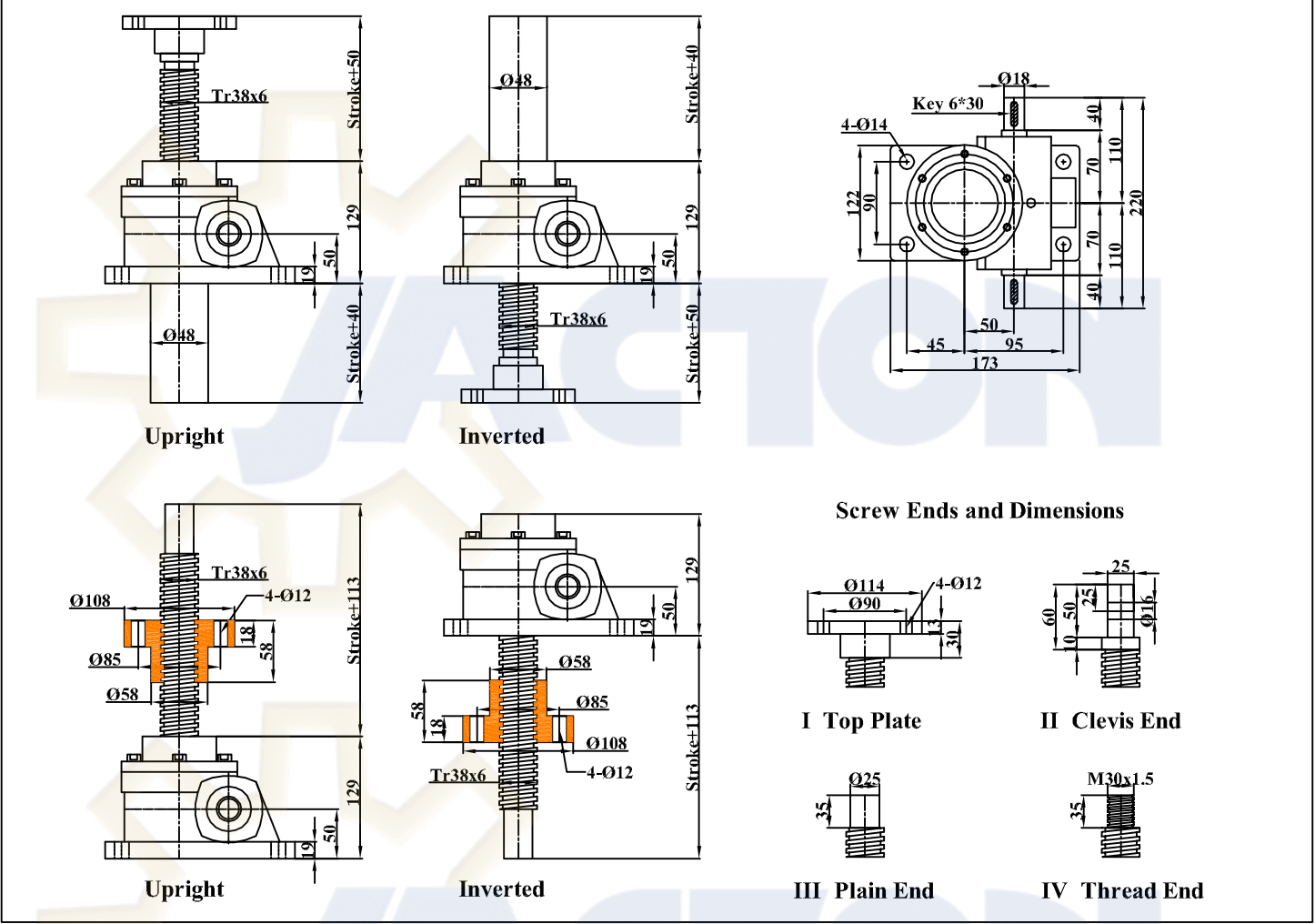
JT-2T



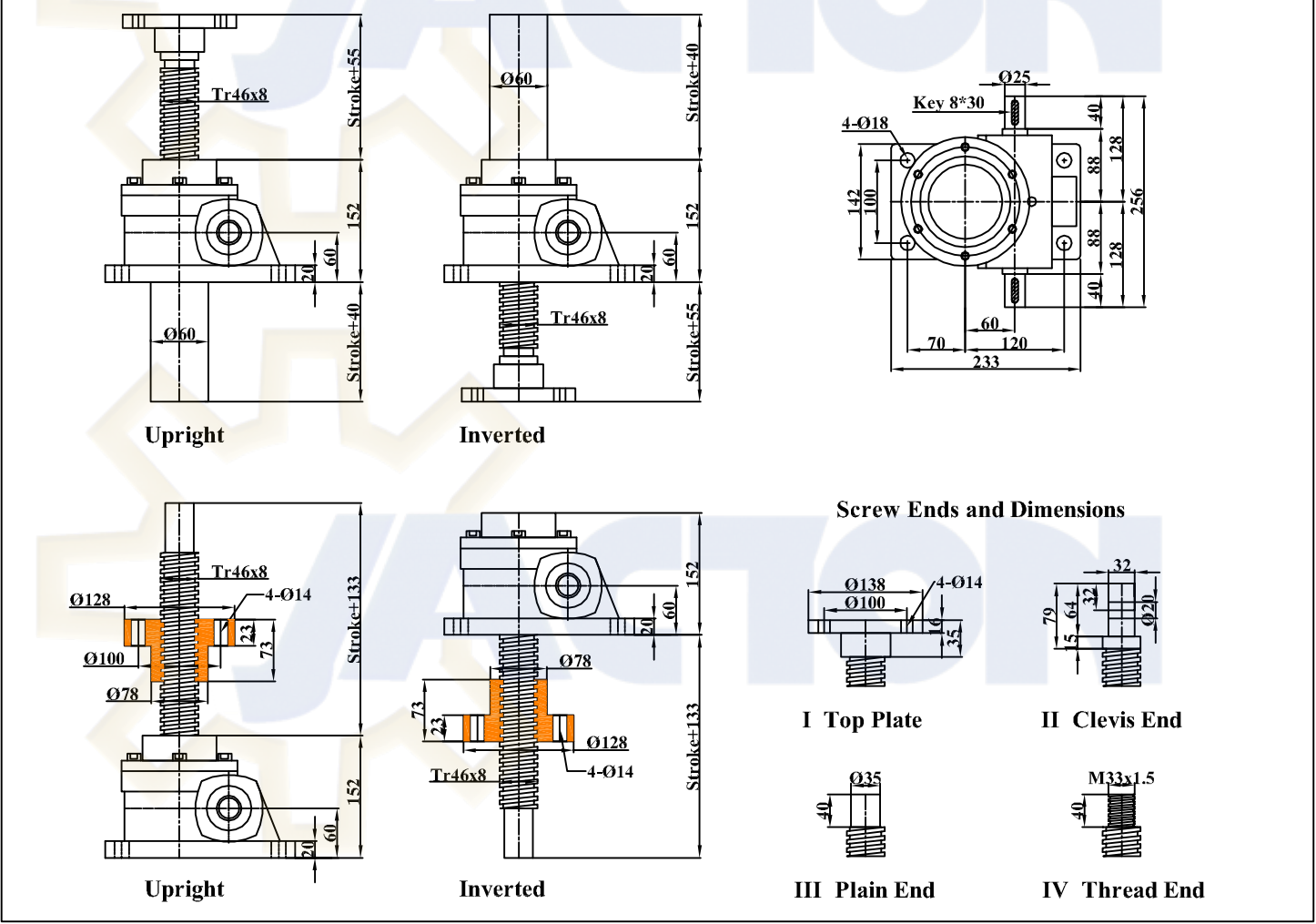
JT-3T



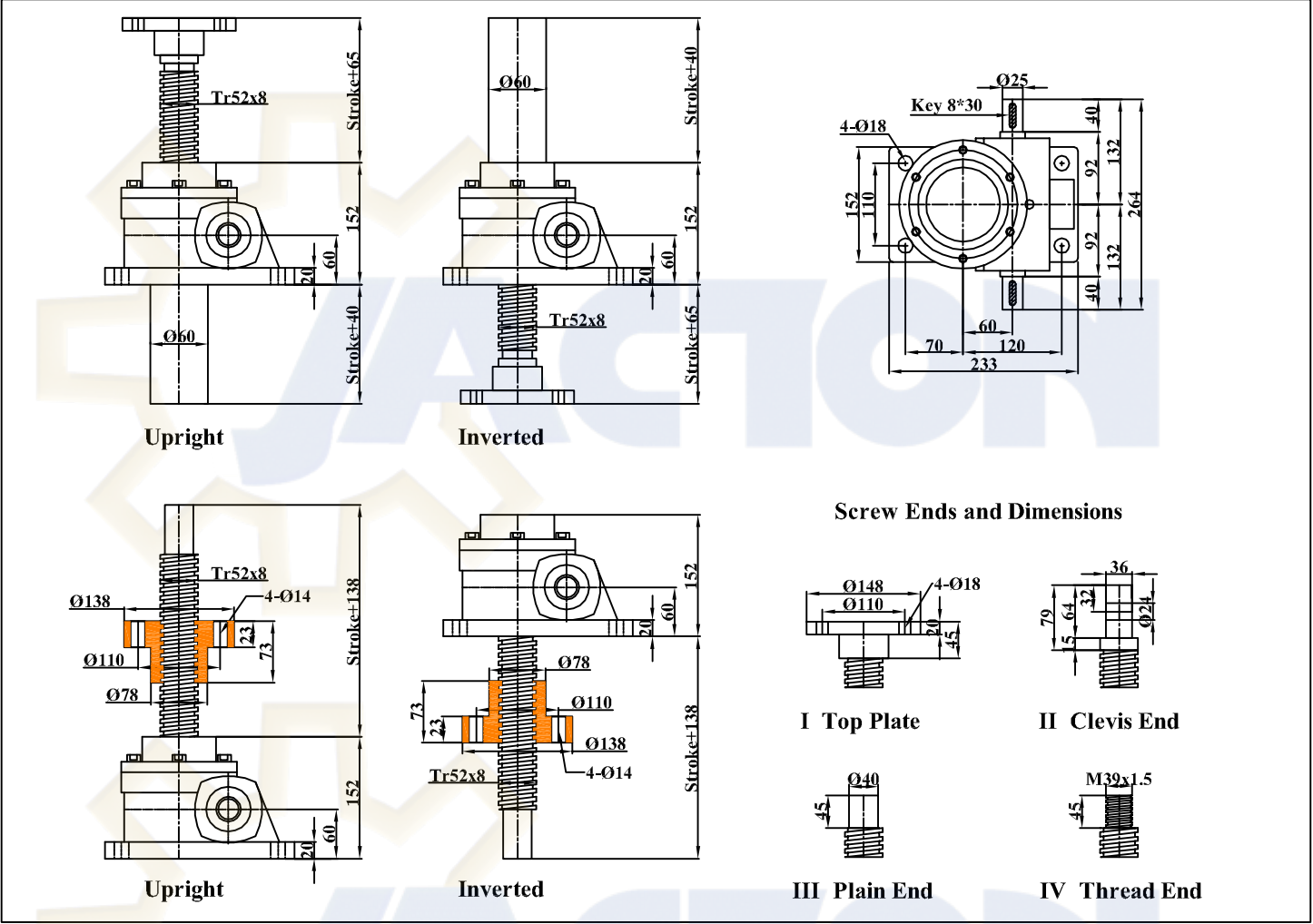
JT-5T



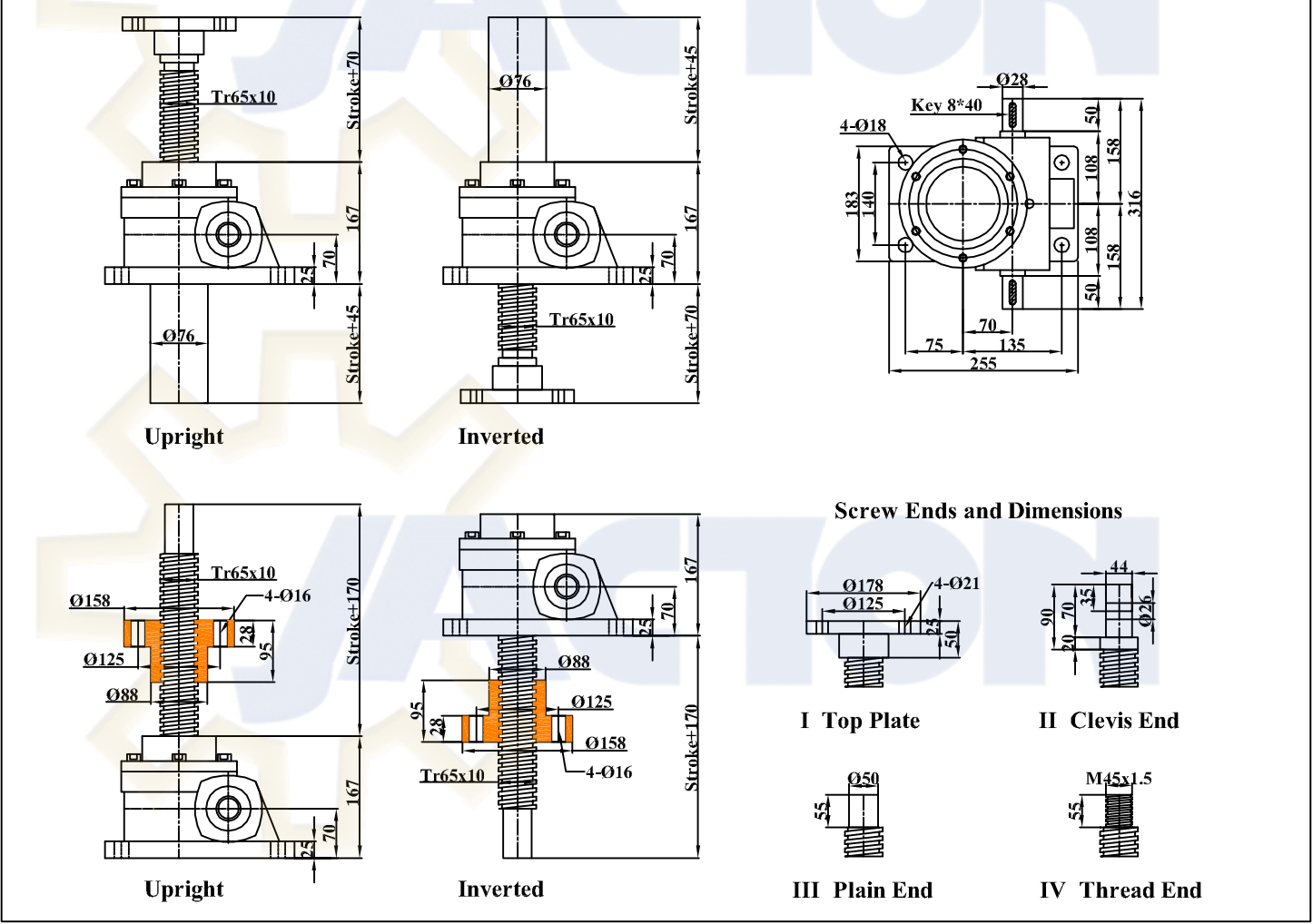
JT-10T



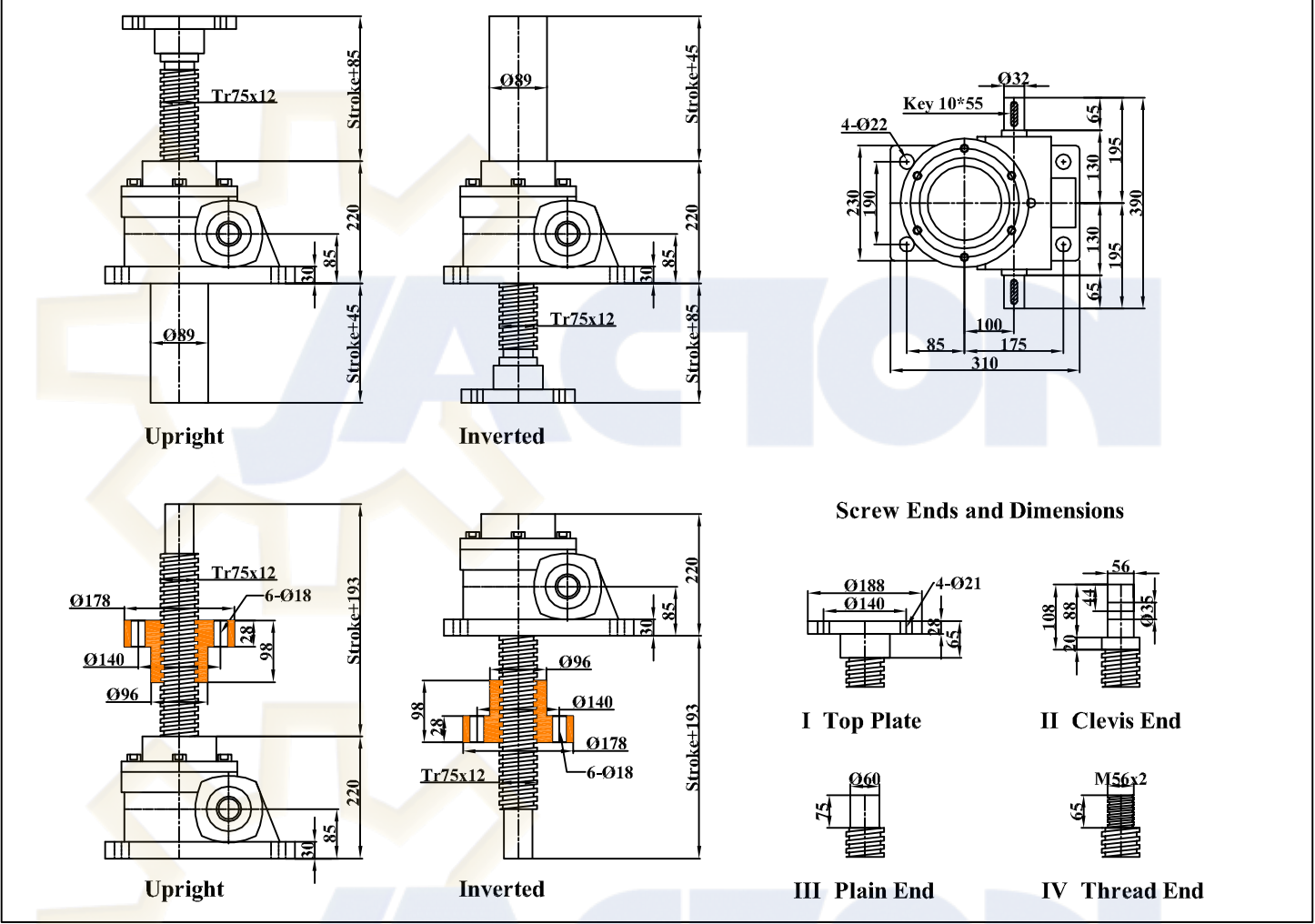
JT-15T



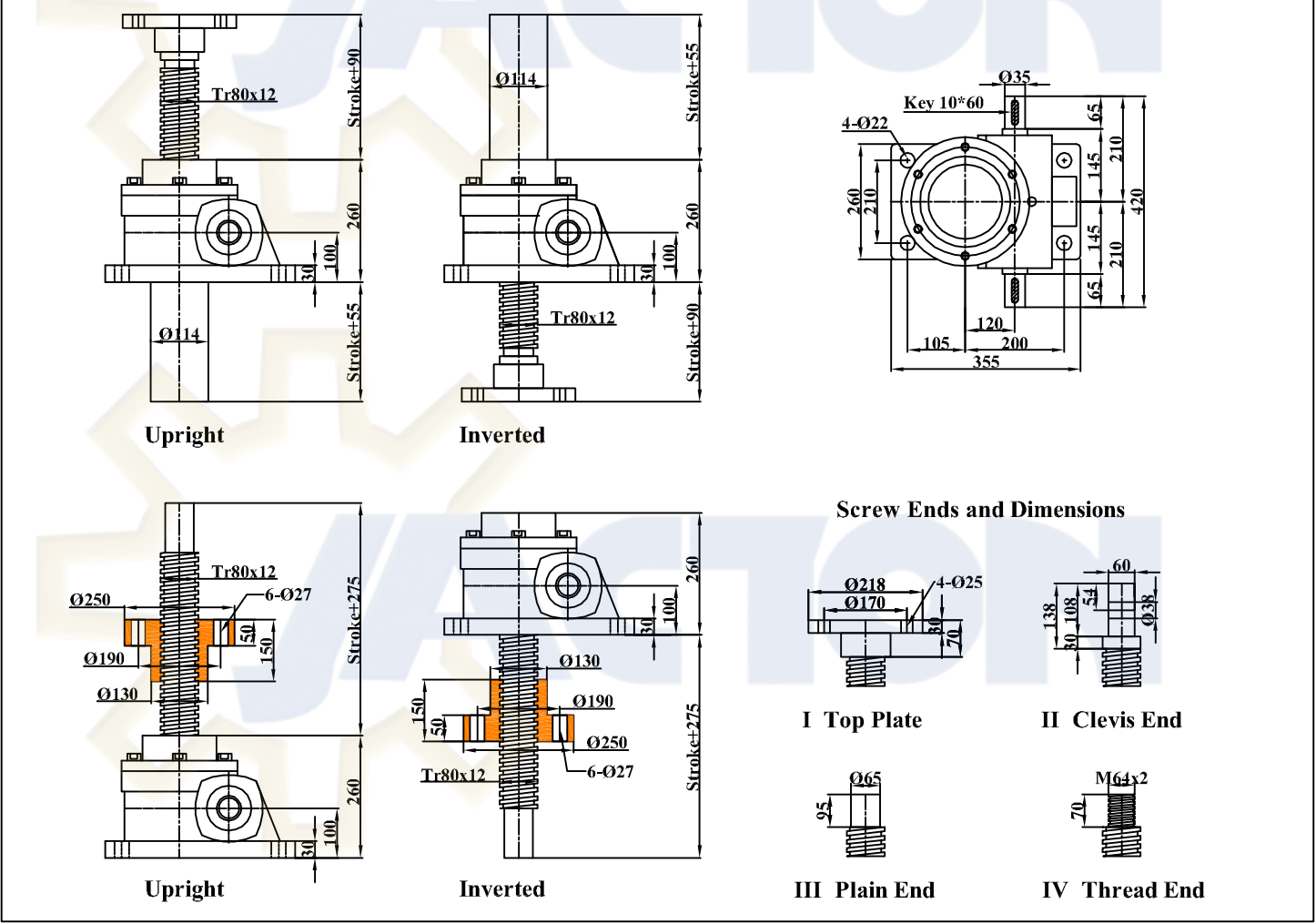
JT-20T



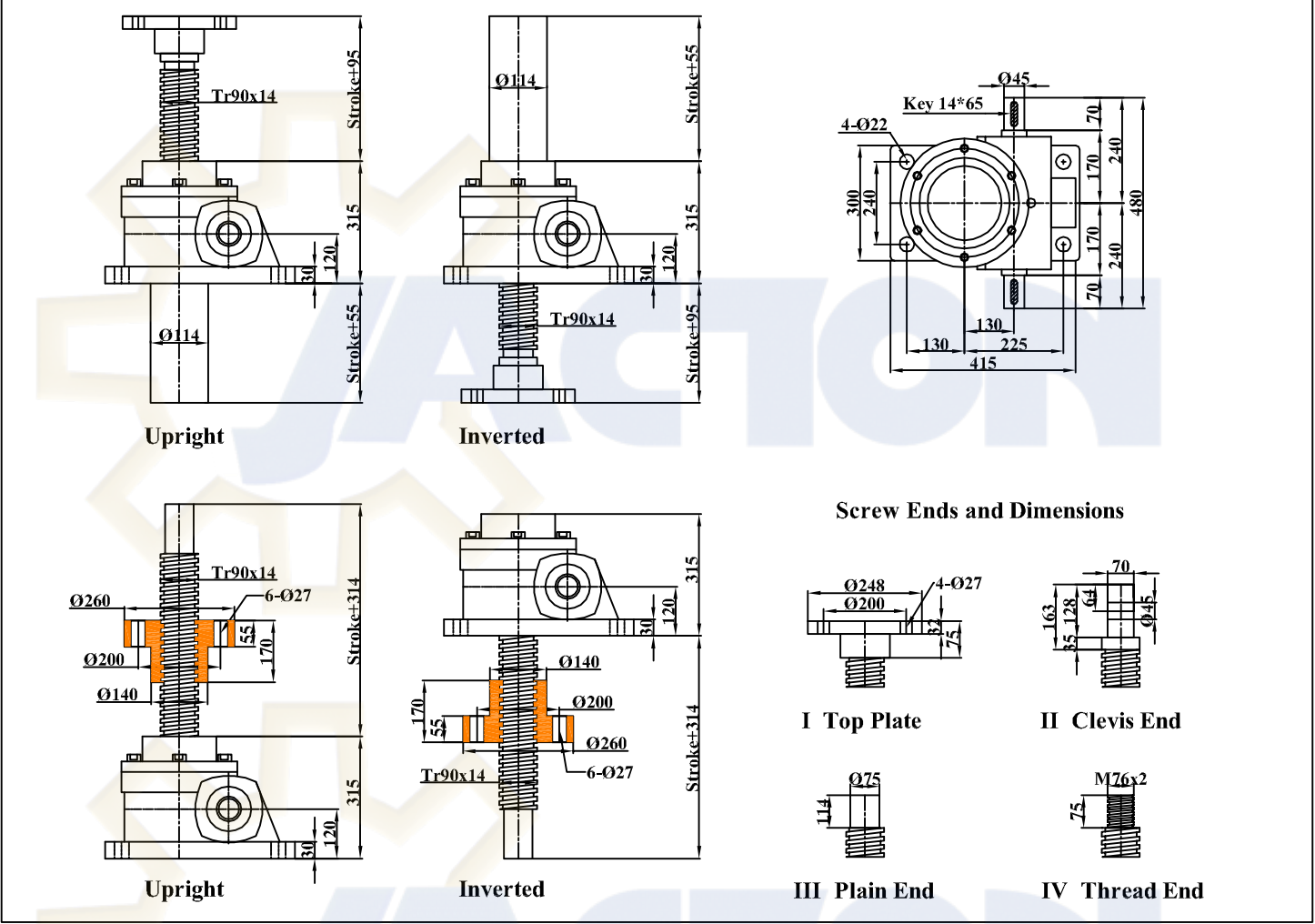
JT-30T



JT-40T



JT-50T



JT-100T

