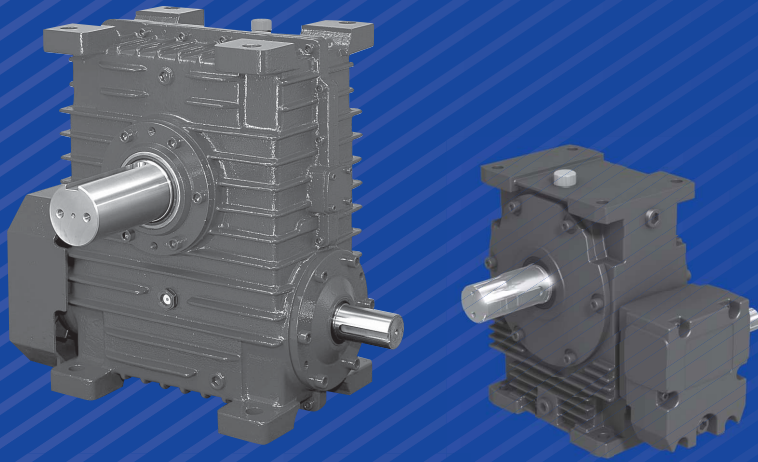
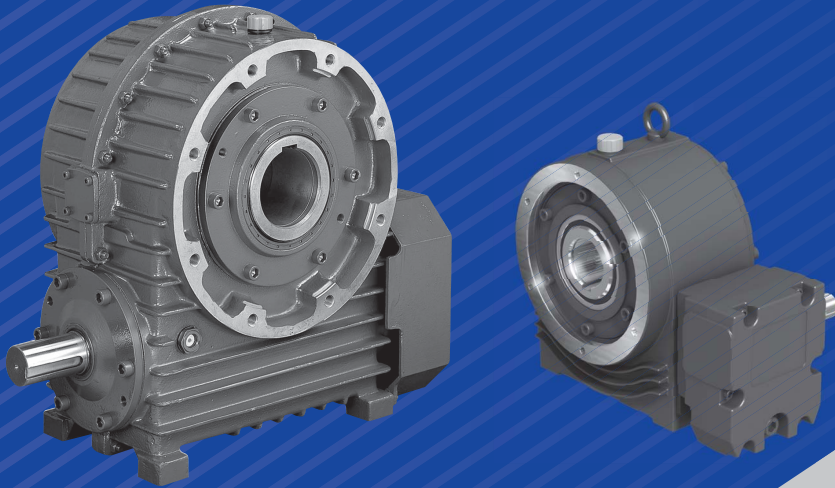




TD Series



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► Shaft Arrangement	122
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► Single Reduction (1/10 to 1/60)	124 - 144
► Double Reduction (1/100 to 1/3600)	146 - 168

Model

Series	Size	Output shaft style	Nominal reduction ratio	Installation direction	Shaft arrangement	Option
TD Series	Single Reduction					
	Output Solid shaft TD	280	S	30	B	R
	Output Hollow shaft TD	250	H	60	T	DF - K
	Double Reduction					
	Output Solid shaft TD	250	S	100	B	L-R
	Output Hollow shaft TD	250	H	300	B	R-LF - K
		125 150 175 200 225 250 280 315	S: Solid shaft H: Hollow shaft	(Single reduction) 10: 1/10 to 60: 1/60 (Double reduction) 100: 1/100 to 3600: 1/3600	T: T type B: B type V: V type * Double reduction models are limited to B and V types.	(Single reduction) — Solid output shaft — Single output shaft: L, R, LU, RU, LD, RD Double output shaft: LR, LUD, RUD — Hollow output shaft — LF, RF, DF See table on page 122 (Double reduction) — Solid output shaft — Single output shaft: L-R, R-L, L-RU, R-LU, L-RD, R-LD Double output shaft: L-LR, R-LR, R-LUD, L-RUD — Hollow output shaft — L-RF, R-LF, L-DF, R-DF See table on page 122
		Refer to pages 229 to 241				

Models

Size	Nominal reduction ratio	Single reduction (1/10 to 1/60)					Double reduction (1/100 to 1/3600)				
	Output shaft	Solid shaft (S type)			Hollow shaft (H type)		Solid shaft (S type)			Hollow shaft (H type)	
	Shaft arrangement	Standard shaft arrangement									
		BL, BR, TL, TR	VLU, VLD, VRU, VRD	Double output shaft	Hollow shaft	Power-Lock specification: K	BL-R, BR-L	VL-RU, VL-RD, VR-LD, R-LD	Double output shaft	Hollow shaft	Power-Lock specification: K
TD125	○	○	△	○	△	○	○	△	○	△	
TD150	○	○	△	○	△	○	○	△	○	△	
TD175	○	○	△	○	△	○	○	△	○	△	
TD200	○	○	△	○	△	○	○	△	○	△	
TD225	○	○	△	○	△	○	○	△	○	△	
TD250	○	○	△	○	△	○	○	△	○	△	
TD280	○	○	△	○	△	○	○	△	○	△	
TD315	○	○	△	○	△	○	○	△	○	△	

○: Standard product △: Option

*1) Applicable models correspond to all standard reduction ratios.

2) Contact Tsubaki representatives for double input shafts.

Shaft Arrangement (Relative Direction of Rotation)

Single Reduction

■ Solid Output Shaft (S Type) — Common for all sizes —

Arrows indicate direction of rotation.

B type	BL		BR		BLR	
T type	TL		TR		TLR	
V type	VLU		VLD		VLUD	
	VRU		VRD		VRUD	

Note) Keyway positions do not match one another on double output shafts. Please contact Tsubaki representative when required.

■ Hollow Output Shaft (H Type)

Arrows indicate direction of rotation.

B type	BLF (TD125 to TD200)		BRF (TD125 to TD200)		BDF (TD225 to TD315)	
T type	TLF (TD125 to TD200)		TRF (TD125 to TD200)		TDF (TD225 to TD315)	
V type	VLF (TD125 to TD315)		VRF (TD125 to TD315)			

Note) V: The installation face is designed to be facing the ground side. Please contact Tsubaki representative when mounting to the ceiling side.

Double Reduction

■ Solid Output Shaft (S Type) — Common for all sizes —

Arrows indicate direction of rotation.

B type	B L-R		B L-R	
	B R-L		B R-LR	
V type	V L-RU		V L-RD	
	V R-LU		V R-LD	
			V L-RUD	
			V R-LUD	

Note) Keyway positions do not match one another on double output shafts. Please contact Tsubaki representative when required.

■ Hollow Output Shaft (H Type)

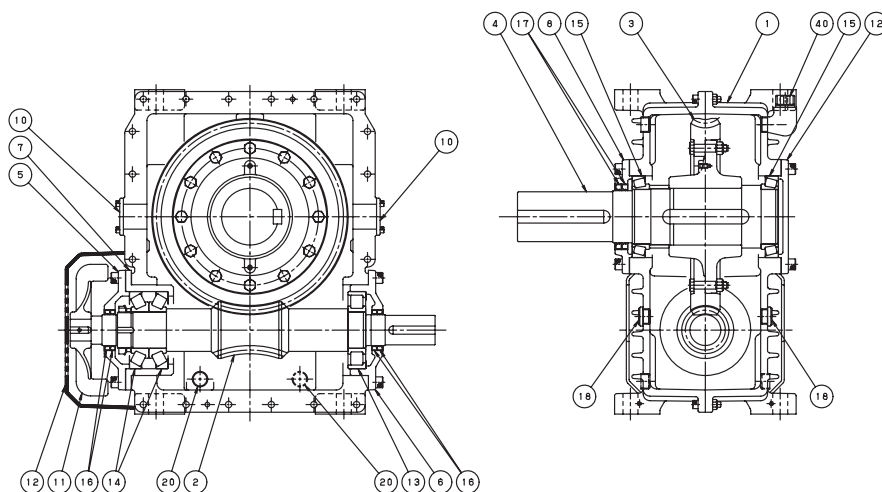
Arrows indicate direction of rotation.

B type	B L-RF (TD125 to TD200)		B L-DF (TD225 to TD315)		B R-LF (TD125 to TD200)		B R-DF (TD225 to TD315)	
V type	V L-RF (TD125 to TD315)		V R-LF (TD125 to TD315)					

Note) V: The installation face is designed to be facing the ground side. Please contact Tsubaki representative when mounting to the ceiling side.

Structure

Single Reduction

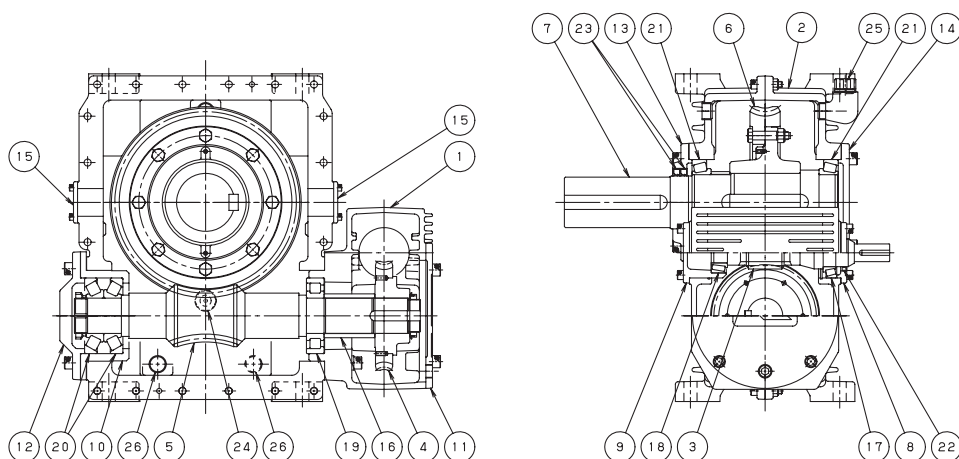


Drawing for reference, and it may differ by model and size.

Part list

No.	Part	No.	Part	No.	Part	No.	Part
1	Case	6	Input bearing support I	11	Fan	16	Input shaft oil seal
2	Worm shaft	7	Input bearing support III	12	Fan cover	17	Output shaft oil seal
3	Worm wheel	8	Output seal support	13	Input shaft bearing	18	Oil gauge
4	Output shaft	9	Output cap	14	Input shaft bearing	19	Pressure vent
5	Input seal support	10	Inspection cap	15	Output shaft bearing	20	Drain oil port

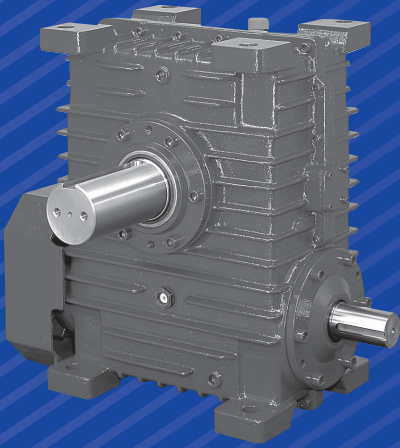
Double Reduction



Drawing for reference, and it may differ by model and size.

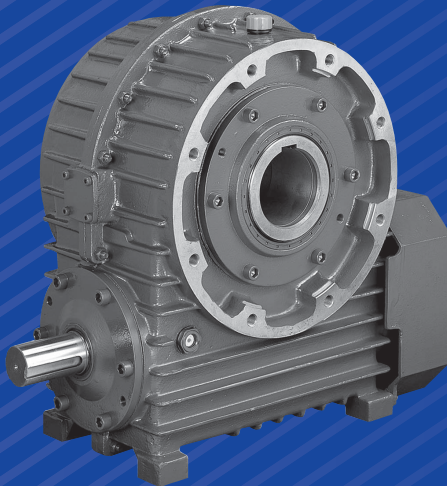
Part list

No.	Part	No.	Part	No.	Part	No.	Part
1	Input housing	8	Input seal support	15	Inspection cap	22	Input shaft oil seal
2	Case	9	Input bearing support II	16	Intermediate collar	23	Output shaft oil seal
3	I Worm	10	Intermediate bearing support III	17	Input shaft bearing	24	Oil gauge
4	I Wheel	11	Intermediate cap	18	Input shaft bearing	25	Pressure vent
5	II Worm	12	Intermediate seal support	19	Intermediate shaft bearing	26	Drain oil port
6	III Wheel	13	Output seal support	20	Intermediate shaft bearing		
7	Output shaft	14	Output cap	21	Output shaft bearing		



TD Series

Single Reduction (Nominal reduction ratio 1/10 to 1/60)



- ▶ Transfer Capacity Table 125 - 126
- ▶ Technical Data 127 - 128
 - Allowable Loads on Shafts
 - Actual Reduction Ratio
 - Moment of Inertia on Input Shaft
- ▶ Dimensional Drawings 129 - 144

Transfer Capacity Table

Refer to page 127 for actual reduction ratios.

Size	Input	1750 r/min		1450 r/min		1150 r/min		950 r/min		500 r/min		100 r/min	
	Reduction ratio	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}
TD125	10	21.0	1112 {113}	20.1	1285 {131}	19.0	1532 {156}	20.3	1766 {180}	13.0	2382 {243}	3.0	2671 { 273}
	20	15.1	1515 {155}	14.5	1748 {178}	13.7	2076 {212}	12.5	2290 {234}	8.1	2783 {284}	1.8	2948 { 301}
	30	10.9	1631 {166}	10.4	1880 {192}	9.6	2189 {223}	8.5	2318 {237}	5.5	2809 {287}	1.6	3889 { 397}
	40	9.7	1812 {185}	9.3	2083 {213}	7.9	2232 {228}	7.0	2364 {241}	4.5	2865 {292}	1.1	3146 { 321}
	50	8.3	1861 {190}	7.7	2086 {213}	6.6	2236 {228}	5.8	2368 {242}	3.8	2870 {293}	1.1	3870 { 395}
	60	7.0	1877 {192}	6.4	2067 {211}	5.5	2217 {226}	4.9	2348 {240}	3.2	2846 {290}	1.0	3889 { 397}
TD150	10	32.3	1717 {175}	31.0	1989 {203}	29.4	2377 {243}	28.1	2745 {280}	22.6	4157 {424}	5.4	4861 { 496}
	20	23.5	2426 {248}	22.5	2803 {286}	21.3	3337 {341}	19.9	3761 {384}	11.2	3995 {408}	2.4	3995 { 408}
	30	16.6	2505 {256}	15.9	2895 {295}	15.1	3448 {352}	13.7	3771 {385}	8.9	4570 {466}	2.5	6002 { 612}
	40	15.1	2917 {298}	14.5	3365 {343}	12.6	3665 {374}	11.0	3881 {396}	6.5	4290 {438}	1.4	4290 { 438}
	50	13.7	3151 {322}	12.5	3448 {352}	10.6	3696 {377}	9.4	3914 {399}	5.7	4397 {449}	1.2	4397 { 449}
	60	10.7	2889 {295}	10.3	3336 {340}	8.9	3610 {368}	7.8	3823 {390}	5.1	4634 {473}	1.5	6166 { 629}
TD175	10	44.9	2392 {244}	43.3	2776 {283}	41.1	3325 {339}	39.4	3847 {393}	31.2	5769 {589}	8.6	7764 { 792}
	20	34.2	3556 {363}	32.8	4113 {420}	31.1	4905 {501}	26.9	5127 {523}	14.3	5127 {523}	3.0	5127 { 523}
	30	24.5	3863 {394}	23.5	4467 {456}	21.2	5048 {515}	18.6	5346 {546}	12.0	6478 {661}	3.1	7903 { 806}
	40	22.1	4323 {441}	20.4	4802 {490}	17.4	5148 {525}	15.3	5451 {556}	8.4	5588 {570}	1.8	5588 { 570}
	50	18.4	4194 {428}	17.3	4755 {485}	14.8	5097 {520}	13.0	5398 {551}	8.5	6542 {668}	2.2	7903 { 806}
	60	15.2	4271 {436}	14.2	4785 {488}	12.1	5129 {523}	10.6	5432 {554}	7.0	6584 {672}	1.9	7903 { 806}
TD200	10	59.6	3174 {324}	57.5	3689 {376}	54.8	4428 {452}	52.5	5135 {524}	44.9	8286 {846}	11.5	10314 {1052}
	20	43.2	4347 {444}	41.5	5043 {515}	39.5	6037 {616}	37.8	6981 {712}	26.6	9236 {942}	6.7	11138 {1137}
	30	31.2	4717 {481}	29.7	5417 {553}	28.6	6547 {668}	27.3	7569 {772}	18.0	9352 {954}	4.6	11138 {1137}
	40	27.8	5220 {533}	26.7	6050 {617}	25.4	7232 {738}	22.9	7858 {802}	14.8	9525 {972}	3.7	11138 {1137}
	50	23.4	5344 {545}	22.5	6193 {632}	21.4	7404 {756}	18.8	7841 {800}	12.2	9505 {970}	3.1	11138 {1137}
	60	20.1	5445 {556}	19.3	6311 {644}	18.0	7390 {754}	15.9	7826 {799}	10.4	9486 {968}	2.7	11138 {1137}

Models in are limited by their thermal rating. Consult us if your application runs for short periods.

Refer to page 127 for actual reduction ratios.

Size	Input Reduction ratio	1750 r/min		1450 r/min		1150 r/min		950 r/min		500 r/min		100 r/min	
		Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}
TD225	10	78.0	4156 { 424}	75.3	4836 { 493}	71.8	5813 { 593}	68.9	6749 { 689}	54.4	10066 {1027}	15.0	13588 {1387}
	20	56.0	5793 { 591}	53.9	6727 { 686}	51.4	8063 { 823}	47.1	8928 { 911}	30.2	10795 {1102}	8.8	15179 {1549}
	30	43.6	6584 { 672}	42.0	7640 { 780}	37.5	8584 { 876}	32.8	9085 { 927}	21.2	10990 {1121}	6.7	16363 {1670}
	40	36.6	6924 { 707}	35.3	8033 { 820}	30.1	8617 { 879}	26.4	9121 { 931}	17.0	11036 {1126}	5.2	15762 {1608}
	50	31.5	7191 { 734}	29.3	8044 { 821}	25.0	8618 { 879}	21.9	9122 { 931}	14.2	11039 {1126}	4.7	16789 {1713}
	60	27.8	7380 { 753}	25.2	8032 { 820}	21.5	8606 { 878}	18.9	9109 { 929}	12.3	11024 {1125}	4.3	17542 {1790}
TD250	10	101.6	5421 { 553}	98.1	6312 { 644}	93.7	7596 { 775}	90.0	8827 { 901}	72.0	13352 {1362}	19.4	17560 {1792}
	20	73.5	7641 { 780}	70.8	8879 { 906}	67.5	10654 {1087}	62.5	11925 {1217}	40.0	14417 {1471}	9.7	16828 {1717}
	30	55.0	8297 { 847}	53.0	9641 { 984}	49.6	11351 {1158}	43.5	12014 {1226}	28.0	14534 {1483}	8.8	21558 {2200}
	40	48.7	9274 { 946}	46.9	10768 {1099}	40.0	11546 {1178}	35.1	12220 {1247}	22.6	14785 {1509}	6.1	18630 {1901}
	50	41.1	9434 { 963}	38.8	10737 {1096}	33.1	11503 {1174}	29.0	12175 {1242}	18.8	14733 {1503}	6.1	22147 {2260}
	60	35.3	9638 { 983}	32.6	10711 {1093}	27.8	11475 {1171}	24.4	12147 {1239}	15.8	14700 {1500}	5.4	22646 {2311}
TD280	10	-	-	125.7	8083 { 825}	120.3	9742 { 994}	115.7	11339 {1157}	98.1	18195 {1857}	27.4	24854 {2536}
	20	95.7	9932 {1013}	92.4	11556 {1179}	88.2	13890 {1417}	84.6	16124 {1645}	54.9	19714 {2012}	15.3	26445 {2698}
	30	73.0	10886 {1111}	70.5	12663 {1292}	67.3	15216 {1553}	60.3	16466 {1680}	38.7	19920 {2033}	11.7	28664 {2925}
	40	61.7	12006 {1225}	59.6	13958 {1424}	53.5	15759 {1608}	46.9	16679 {1702}	30.2	20181 {2059}	9.1	28392 {2897}
	50	54.3	12535 {1279}	52.5	14571 {1487}	45.2	15806 {1613}	39.6	16729 {1707}	25.6	20244 {2066}	8.1	29634 {3024}
	60	46.9	12687 {1295}	45.0	14685 {1498}	38.4	15734 {1606}	33.7	16654 {1699}	21.8	20155 {2057}	7.1	30110 {3072}
TD315	10	-	-	-	-	169.1	13723 {1400}	162.9	15989 {1632}	136.8	25438 {2596}	33.2	30270 {3089}
	20	-	-	129.6	16242 {1657}	123.8	19548 {1995}	119.0	22720 {2318}	79.6	28704 {2929}	20.1	35090 {3581}
	30	-	-	96.2	17551 {1791}	92.0	21123 {2155}	86.5	24015 {2451}	55.6	29053 {2965}	17.8	44420 {4533}
	40	-	-	85.0	19552 {1995}	79.6	23076 {2355}	69.8	24423 {2492}	44.9	29549 {3015}	11.8	36685 {3743}
	50	-	-	71.7	19898 {2030}	65.9	22993 {2346}	57.7	24337 {2483}	37.3	29450 {3005}	12.1	44546 {4546}
	60	-	-	61.7	20404 {2082}	55.2	22938 {2341}	48.4	24280 {2478}	31.3	29384 {2998}	10.8	46790 {4774}

Models in are limited by their thermal rating. Consult us if your application runs for short periods.

Technical Data

Allowable Loads on Shafts

■ Allowable Radial Load on Output Shaft

Solid Output Shaft (S Type)

N {kgf}

Size Output shaft speed	TD125S	TD150S	TD175S	TD200S	TD225S	TD250S	TD280S	TD315S
59 r/min or less	15700 {1602}	21600 {2204}	25500 {2602}	32400 {3306}	37000 {3776}	44000 {4490}	49000 {5000}	60800 {6204}
60 to 175 r/min	15700 {1602}	21600 {2204}	25500 {2602}	32400 {3306}	25000 {2551}	25000 {2551}	36000 {3673}	36500 {3724}

Hollow Output Shaft (H Type)

N {kgf}

Size Output shaft speed	TD125H	TD150H	TD175H	TD200H	TD225H	TD250H	TD280H	TD315H
59 r/min or less	29537 {3014}	25904 {2643}	32614 {3328}	38803 {3960}	45821 {4676}	64558 {6588}	65415 {6675}	127424 {13002}
60 to 175 r/min	20300 {2071}	17813 {1818}	24452 {2495}	26678 {2722}	31404 {3205}	44247 {4515}	65415 {6675}	87346 {8913}

■ Allowable Axial Load on Output Shaft

Solid Output Shaft (S Type)

N {kgf}

Size Output shaft speed	TD125S	TD150S	TD175S	TD200S	TD225S	TD250S	TD280S	TD315S
59 r/min or less	19241 {1963}	16607 {1695}	21034 {2146}	27161 {2772}	24373 {2487}	21906 {2235}	26492 {2703}	30202 {3082}
60 to 175 r/min	13274 {1354}	11477 {1171}	14520 {1482}	18737 {1912}	16686 {1703}	14957 {1526}	18085 {1845}	20567 {2099}

Hollow Output Shaft (H Type)

N {kgf}

Size Output shaft speed	TD125H	TD150H	TD175H	TD200H	TD225H	TD250H	TD280H	TD315H
59 r/min or less	29725 {3033}	26617 {2716}	34255 {3495}	37715 {3848}	40643 {4147}	57163 {5833}	100123 {10217}	108760 {11098}
60 to 175 r/min	20472 {2089}	18360 {1873}	23599 {2408}	25985 {2652}	27878 {2845}	39198 {4000}	68680 {7008}	77559 {7914}

Actual Reduction Ratio

Size Nominal reduction ratio	TD125	TD150	TD175	TD200	TD225	TD250	TD280	TD315
10	10.25	10.25	10.25	10.25	10.25	10.25	10.25	10.25
20	20.00	20.50	20.50	20.00	20.50	20.50	20.50	20.50
30	31.50	31.50	32.50	31.50	31.00	31.00	30.50	31.00
40	40.00	41.00	41.00	40.00	40.00	40.00	41.00	40.00
50	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00
60	63.00	63.00	65.00	63.00	60.00	62.00	61.00	62.00

Moment of Inertia on Input Shaft

Solid Output Shaft (S Type)

 Moment of inertia on input shaft $\{GD^2\}$: $\text{kg}\cdot\text{m}^2$ $\{\text{kgf}\cdot\text{m}^2\}$

Size Nominal reduction ratio	TD125S	TD150S	TD175S	TD200S	TD225S	TD250S	TD280S	TD315S
10	0.0049 {0.0197}	0.0094 {0.0377}	0.0171 {0.0683}	0.0322 {0.1287}	0.0528 {0.2113}	0.0945 {0.3780}	0.1669 {0.6676}	0.3173 {1.2692}
20	0.0044 {0.0175}	0.0081 {0.0323}	0.0138 {0.0553}	0.0267 {0.1070}	0.0448 {0.1792}	0.0805 {0.3220}	0.1413 {0.5651}	0.2738 {1.0952}
30	0.0043 {0.0172}	0.0080 {0.0322}	0.0133 {0.0534}	0.0258 {0.1033}	0.0417 {0.1667}	0.0782 {0.3129}	0.1353 {0.5413}	0.2673 {1.0694}
40	0.0043 {0.0171}	0.0078 {0.0312}	0.0132 {0.0530}	0.0256 {0.1025}	0.4320 {0.1728}	0.0777 {0.3107}	0.1364 {0.5457}	0.2657 {1.0626}
50	0.0043 {0.0170}	0.0076 {0.0304}	0.0135 {0.0540}	0.0255 {0.1019}	0.0423 {0.1693}	0.0773 {0.3093}	0.1337 {0.5348}	0.2645 {1.0582}
60	0.0042 {0.0170}	0.0079 {0.0318}	0.0131 {0.0525}	0.0254 {0.1016}	0.0423 {0.1692}	0.0771 {0.3085}	0.1332 {0.5328}	0.2639 {1.0556}

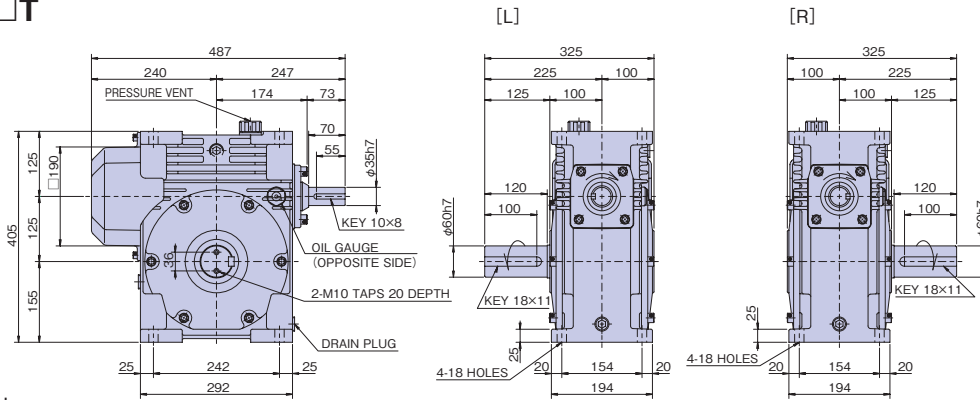
Hollow Output Shaft (H Type)

 Moment of inertia on input shaft $\{GD^2\}$: $\text{kg}\cdot\text{m}^2$ $\{\text{kgf}\cdot\text{m}^2\}$

Size Nominal reduction ratio	TD125H	TD150H	TD175H	TD200H	TD225H	TD250H	TD280H	TD315H
10	0.0052 {0.0208}	0.0098 {0.0391}	0.0177 {0.0706}	0.0332 {0.1327}	0.0534 {0.2136}	0.0953 {0.3812}	0.1723 {0.6893}	0.3251 {1.3003}
20	0.0045 {0.0178}	0.0082 {0.0327}	0.0140 {0.0559}	0.0270 {0.1081}	0.0450 {0.1798}	0.0807 {0.3230}	0.1427 {0.5708}	0.2758 {1.1034}
30	0.0043 {0.0173}	0.0081 {0.0323}	0.0134 {0.0536}	0.0259 {0.1038}	0.0417 {0.1670}	0.0783 {0.3133}	0.1360 {0.5439}	0.2682 {1.0730}
40	0.0043 {0.0172}	0.0078 {0.0313}	0.0133 {0.0531}	0.0257 {0.1028}	0.0433 {0.1730}	0.0777 {0.3110}	0.1368 {0.5471}	0.2662 {1.0648}
50	0.0043 {0.0171}	0.0076 {0.0305}	0.0135 {0.0541}	0.0255 {0.1021}	0.0424 {0.1694}	0.0774 {0.3095}	0.1339 {0.5358}	0.2649 {1.0596}
60	0.0043 {0.0170}	0.0080 {0.0318}	0.0131 {0.0526}	0.0254 {0.1017}	0.0423 {0.1692}	0.0771 {0.3086}	0.1334 {0.5335}	0.2641 {1.0565}

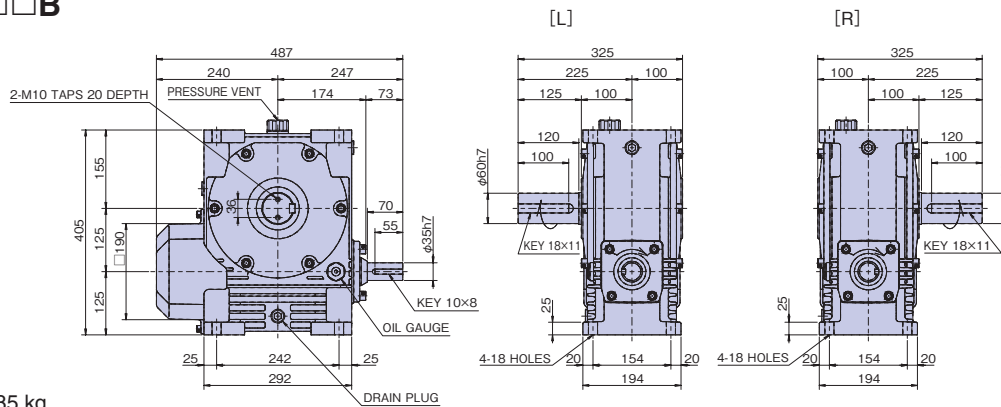
Dimensional Drawings TD125S

TD125S□□T



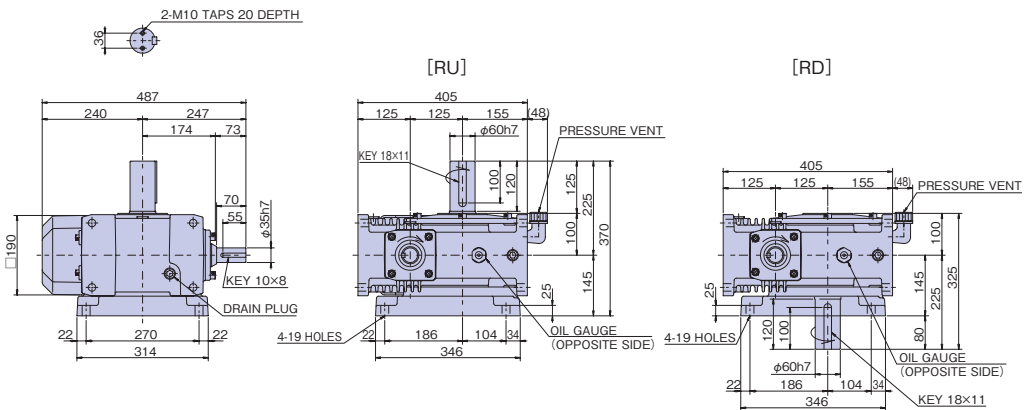
Estimated mass 89 kg

TD125S□□B



Estimated mass 85 kg

TD125S□□V



Estimated mass 97 kg

* Refer to page 122 for shaft arrangements and relative direction of rotation.

Transfer Capacity Table

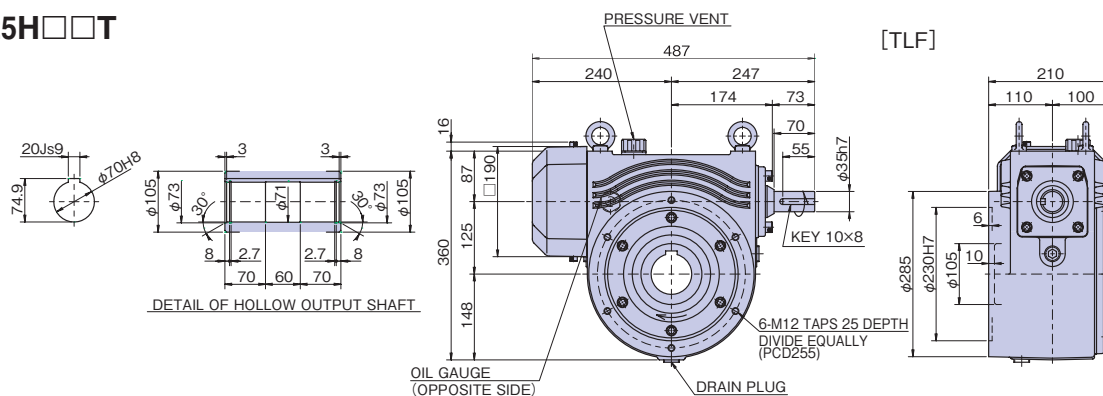
Refer to page 127 for actual reduction ratios.

Size	Input	1750 r/min		1450 r/min		1150 r/min		950 r/min		500 r/min		100 r/min	
	Reduction ratio	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}
TD125S	10	21.0	1112 {113}	20.1	1285 {131}	19.0	1532 {156}	20.3	1766 {180}	13.0	2382 {243}	3.0	2671 { 273}
	20	15.1	1515 {155}	14.5	1748 {178}	13.7	2076 {212}	12.5	2290 {234}	8.1	2783 {284}	1.8	2948 { 301}
	30	10.9	1631 {166}	10.4	1880 {192}	9.6	2189 {223}	8.5	2318 {237}	5.5	2809 {287}	1.6	3889 { 397}
	40	9.7	1812 {185}	9.3	2083 {213}	7.9	2232 {228}	7.0	2364 {241}	4.5	2865 {292}	1.1	3146 { 321}
	50	8.3	1861 {190}	7.7	2086 {213}	6.6	2236 {228}	5.8	2368 {242}	3.8	2870 {293}	1.1	3870 { 395}
	60	7.0	1877 {192}	6.4	2067 {211}	5.5	2217 {226}	4.9	2348 {240}	3.2	2846 {290}	1.0	3889 { 397}

Models in are limited by the thermal rating. Consult us if your application runs for short periods.

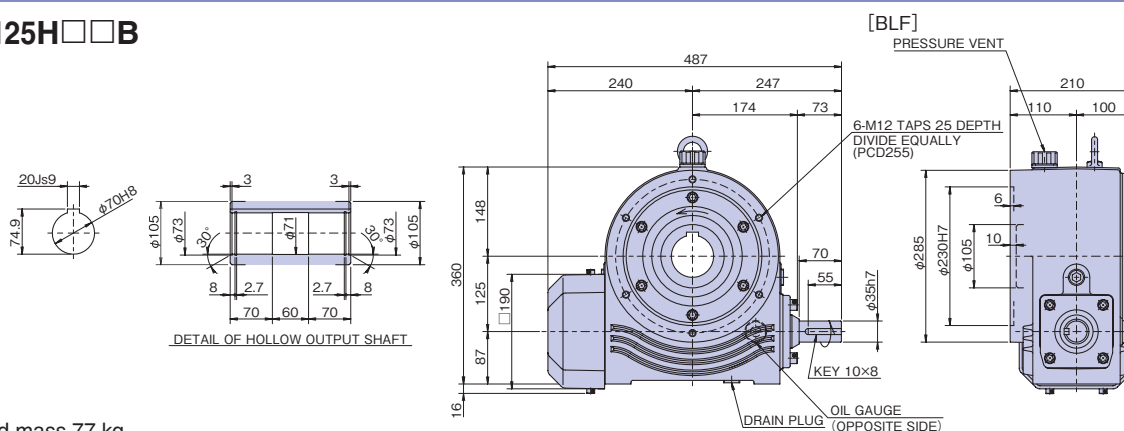
Dimensional Drawings TD125H

TD125H□□T



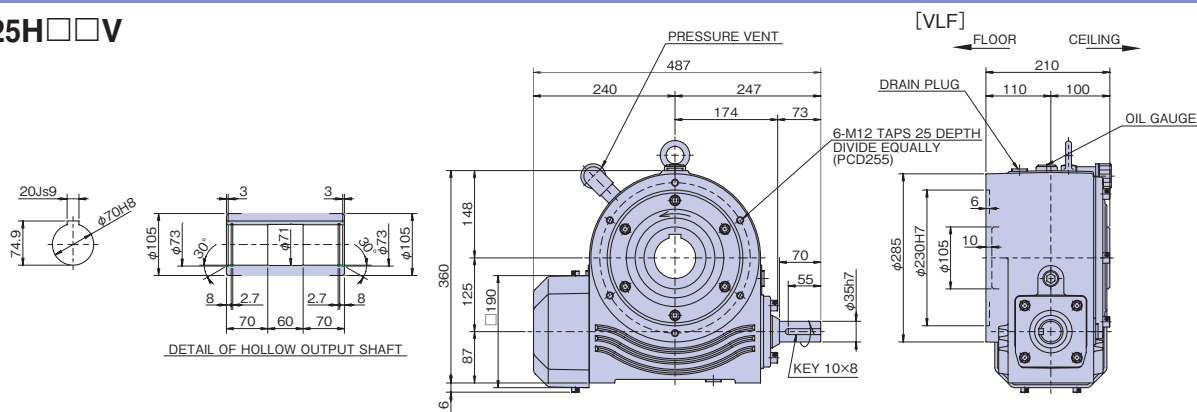
Estimated mass 80 kg

TD125H□□B



Estimated mass 77 kg

TD125H□□V



Estimated mass 78 kg

* Refer to page 122 for shaft arrangements and relative direction of rotation.

Transfer Capacity Table

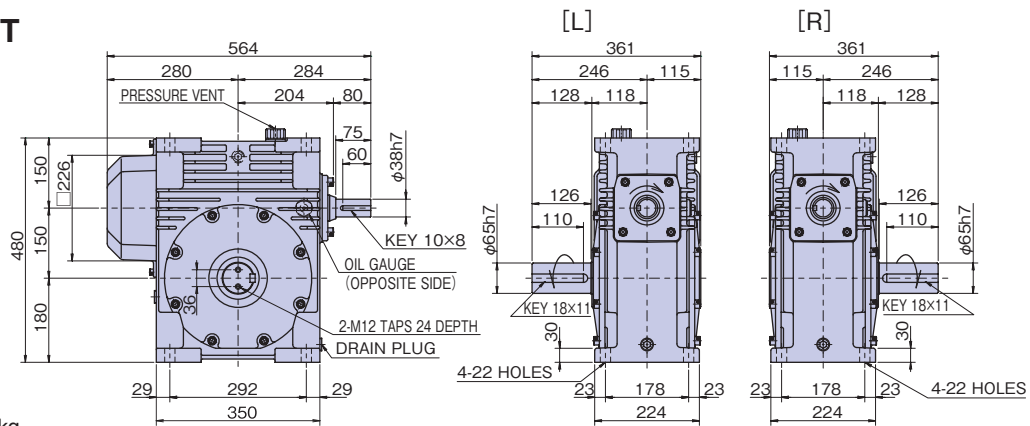
Refer to page 127 for actual reduction ratios.

Size	Input	1750 r/min		1450 r/min		1150 r/min		950 r/min		500 r/min		100 r/min	
	Reduction ratio	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}
TD125H	10	21.0	1112 {113}	20.1	1285 {131}	19.0	1532 {156}	20.3	1766 {180}	13.0	2382 {243}	3.0	2671 { 273}
	20	15.1	1515 {155}	14.5	1748 {178}	13.7	2076 {212}	12.5	2290 {234}	8.1	2783 {284}	1.8	2948 { 301}
	30	10.9	1631 {166}	10.4	1880 {192}	9.6	2189 {223}	8.5	2318 {237}	5.5	2809 {287}	1.6	3889 { 397}
	40	9.7	1812 {185}	9.3	2083 {213}	7.9	2232 {228}	7.0	2364 {241}	4.5	2865 {292}	1.1	3146 { 321}
	50	8.3	1861 {190}	7.7	2086 {213}	6.6	2236 {228}	5.8	2368 {242}	3.8	2870 {293}	1.1	3870 { 395}
	60	7.0	1877 {192}	6.4	2067 {211}	5.5	2217 {226}	4.9	2348 {240}	3.2	2846 {290}	1.0	3889 { 397}

Models in are limited by their thermal rating. Consult us if your application runs for short periods.

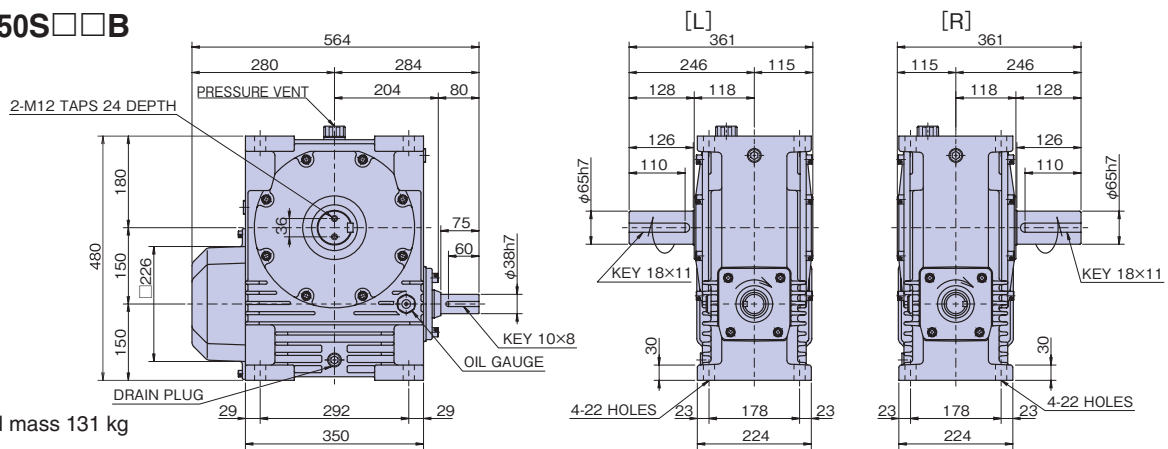
Dimensional Drawings TD150S

TD150S□□T



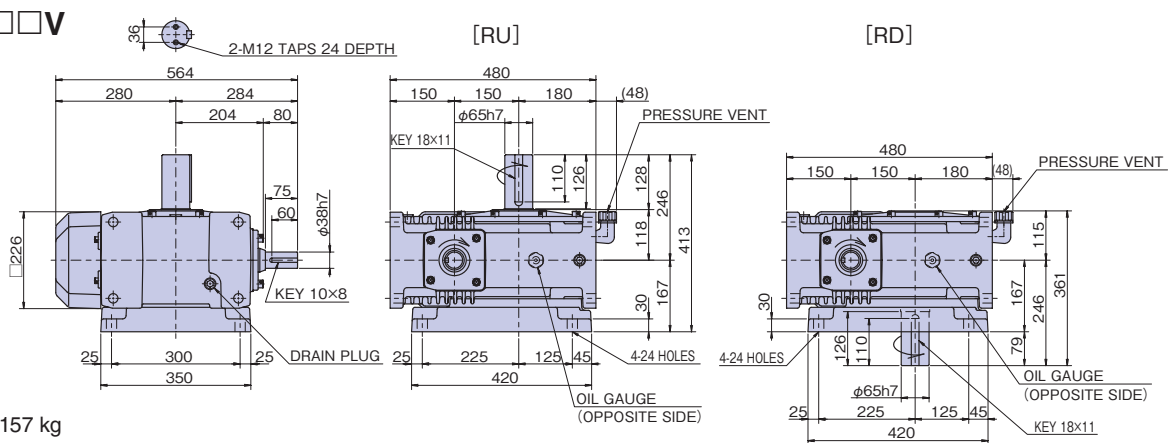
Estimated mass 137 kg

TD150S□□B



Estimated mass 131 kg

TD150S□□V



Estimated mass 157 kg

* Refer to page 122 for shaft arrangements and relative direction of rotation.

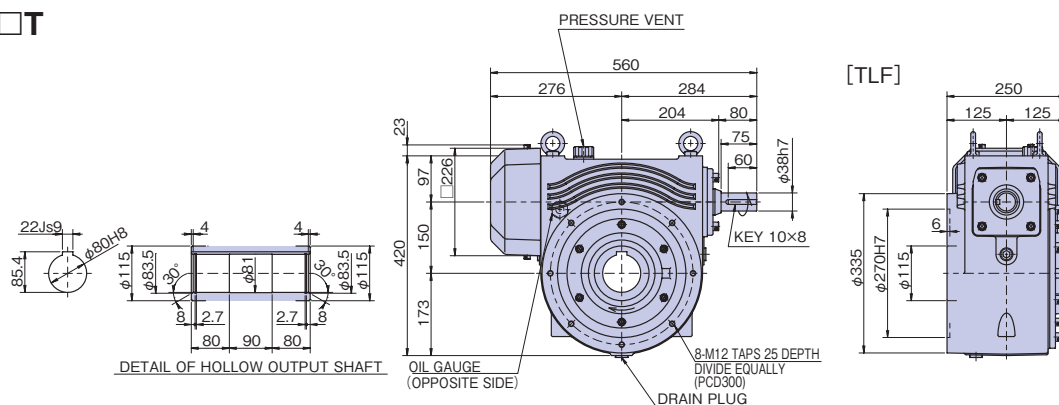
Transfer Capacity Table Refer to page 127 for actual reduction ratios.

Size	Input	1750 r/min		1450 r/min		1150 r/min		950 r/min		500 r/min		100 r/min	
	Reduction ratio	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}
TD150S	10	32.3	1717 {175}	31.0	1989 {203}	29.4	2377 {243}	28.1	2745 {280}	22.6	4157 {424}	5.4	4861 { 496}
	20	23.5	2426 {248}	22.5	2803 {286}	21.3	3337 {341}	19.9	3761 {384}	11.2	3995 {408}	2.4	3995 { 408}
	30	16.6	2505 {256}	15.9	2895 {295}	15.1	3448 {352}	13.7	3771 {385}	8.9	4570 {466}	2.5	6002 { 612}
	40	15.1	2917 {298}	14.5	3365 {343}	12.6	3665 {374}	11.0	3881 {396}	6.5	4290 {438}	1.4	4290 { 438}
	50	13.7	3151 {322}	12.5	3448 {352}	10.6	3696 {377}	9.4	3914 {399}	5.7	4397 {449}	1.2	4397 { 449}
	60	10.7	2889 {295}	10.3	3336 {340}	8.9	3610 {368}	7.8	3823 {390}	5.1	4634 {473}	1.5	6166 { 629}

Models in are limited by their thermal rating. Consult us if your application runs for short periods.

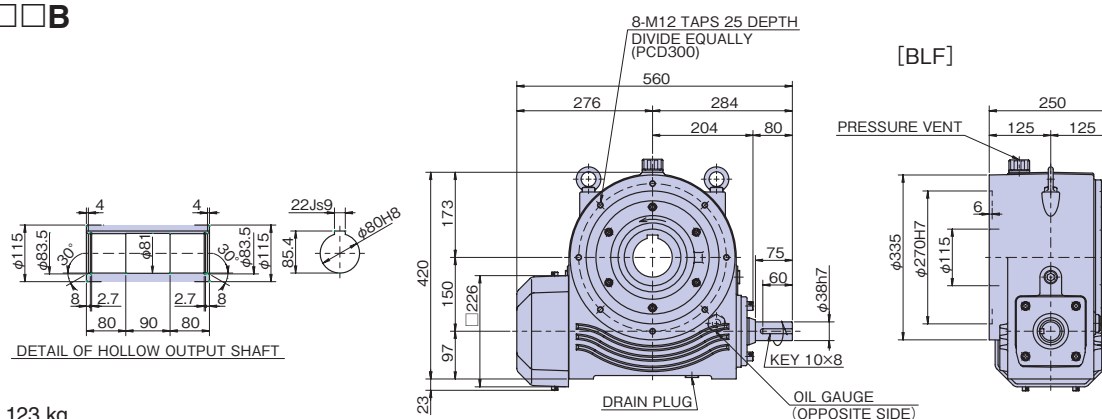
Dimensional Drawings TD150H

TD150H□□T



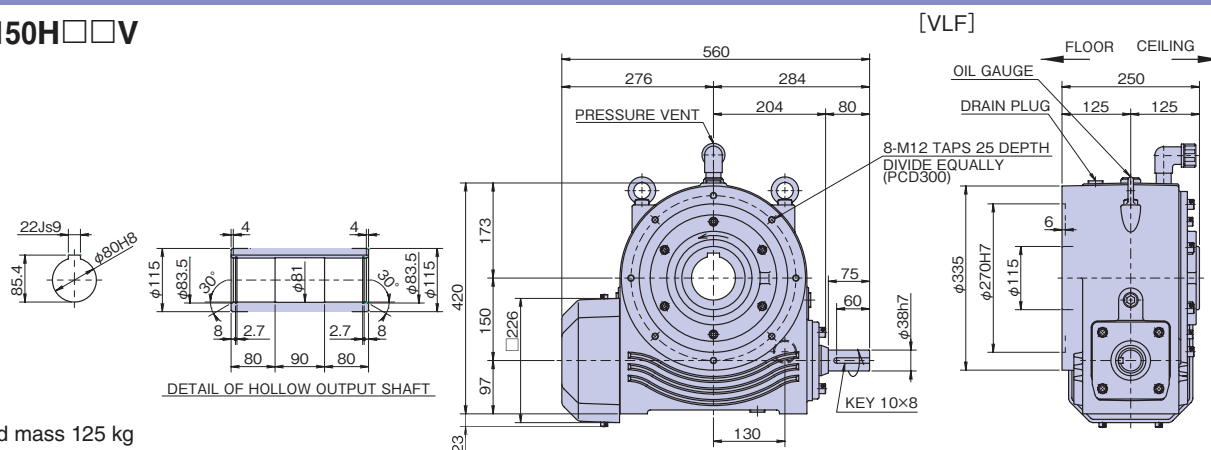
Estimated mass 127 kg

TD150H□□B



Estimated mass 123 kg

TD150H□□V



Estimated mass 125 kg

* Refer to page 122 for shaft arrangements and relative direction of rotation.

Transfer Capacity Table

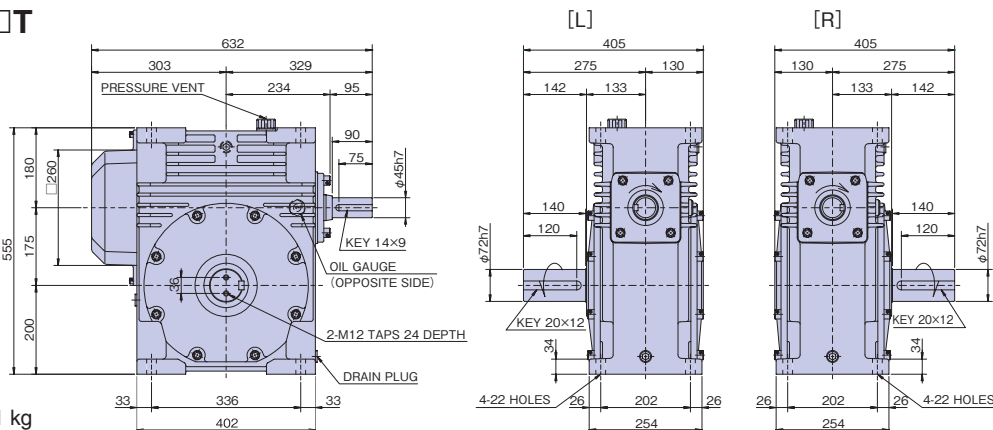
Refer to page 127 for actual reduction ratios.

Size	Input	1750 r/min		1450 r/min		1150 r/min		950 r/min		500 r/min		100 r/min	
	Reduction ratio	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}
TD150H	10	32.3	1717 {175}	31.0	1989 {203}	29.4	2377 {243}	28.1	2745 {280}	22.6	4157 {424}	5.4	4861 { 496}
	20	23.5	2426 {248}	22.5	2803 {286}	21.3	3337 {341}	19.9	3761 {384}	11.2	3995 {408}	2.4	3995 { 408}
	30	16.6	2505 {256}	15.9	2895 {295}	15.1	3448 {352}	13.7	3771 {385}	8.9	4570 {466}	2.5	6002 { 612}
	40	15.1	2917 {298}	14.5	3365 {343}	12.6	3665 {374}	11.0	3881 {396}	6.5	4290 {438}	1.4	4290 { 438}
	50	13.7	3151 {322}	12.5	3448 {352}	10.6	3696 {377}	9.4	3914 {399}	5.7	4397 {449}	1.2	4397 { 449}
	60	10.7	2889 {295}	10.3	3336 {340}	8.9	3610 {368}	7.8	3823 {390}	5.1	4634 {473}	1.5	6166 { 629}

Models in □ are limited by their thermal rating. Consult us if your application runs for short periods.

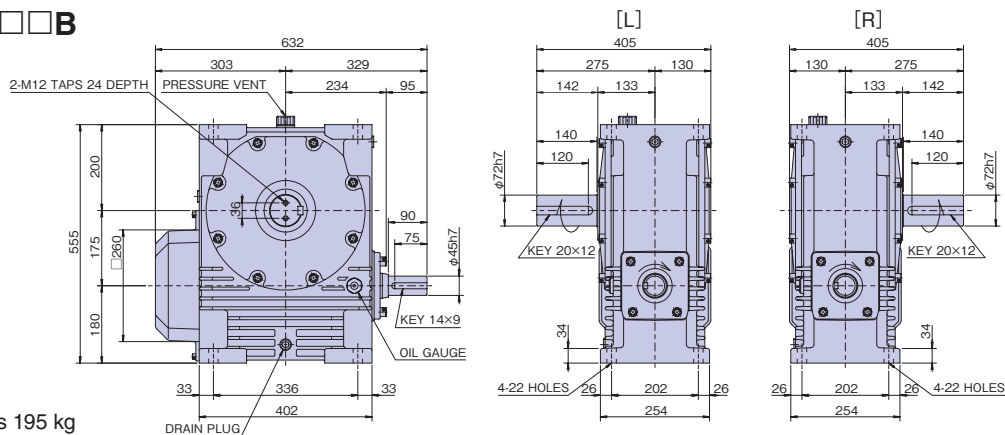
Dimensional Drawings TD175S

TD175S□□T



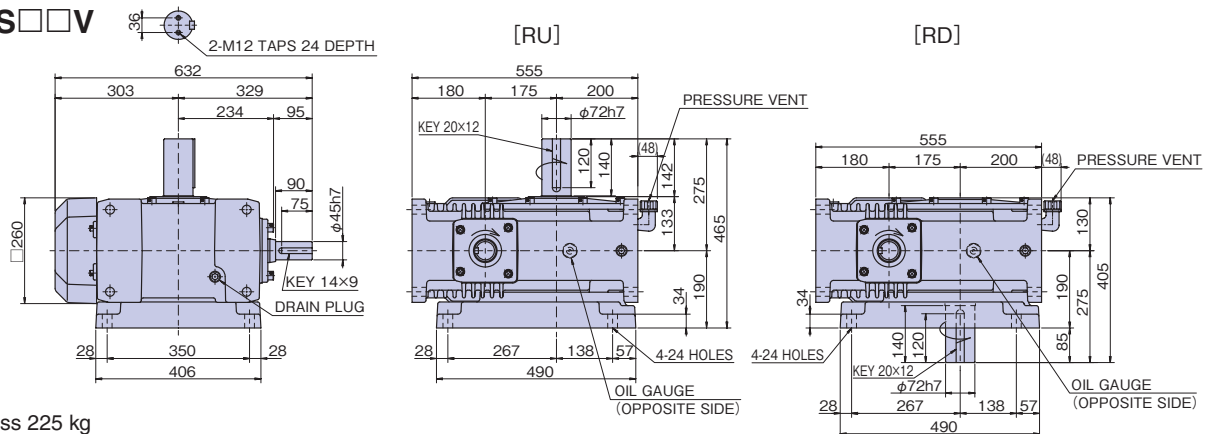
Estimated mass 201 kg

TD175S□□B



Estimated mass 195 kg

TD175S□□V



Estimated mass 225 kg

* Refer to page 122 for shaft arrangements and relative direction of rotation.

Transfer Capacity Table

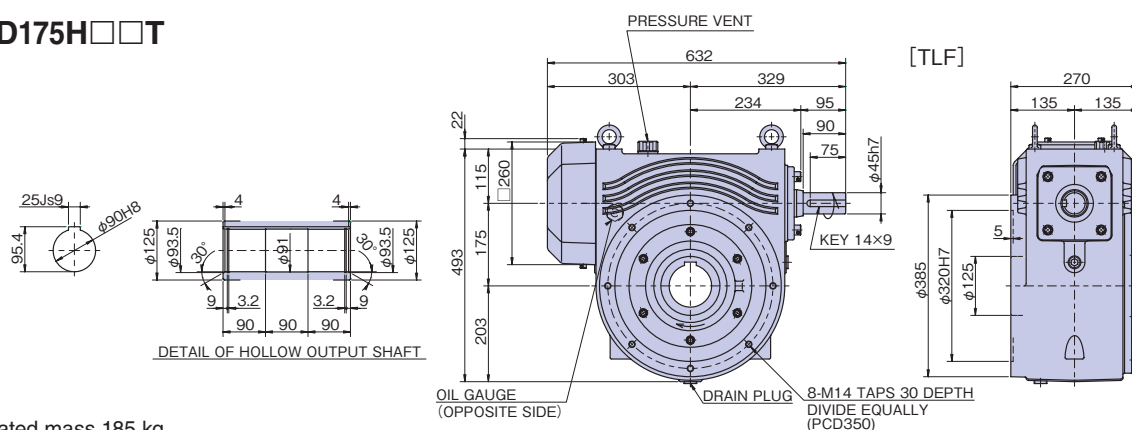
Refer to page 127 for actual reduction ratios.

Size	Input	1750 r/min		1450 r/min		1150 r/min		950 r/min		500 r/min		100 r/min	
	Reduction ratio	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}
TD175S	10	44.9	2392 {244}	43.3	2776 {283}	41.1	3325 {339}	39.4	3847 {393}	31.2	5769 {589}	8.6	7764 { 792}
	20	34.2	3556 {363}	32.8	4113 {420}	31.1	4905 {501}	26.9	5127 {523}	14.3	5127 {523}	3.0	5127 { 523}
	30	24.5	3863 {394}	23.5	4467 {456}	21.2	5048 {515}	18.6	5346 {546}	12.0	6478 {661}	3.1	7903 { 806}
	40	22.1	4323 {441}	20.4	4802 {490}	17.4	5148 {525}	15.3	5451 {556}	8.4	5588 {570}	1.8	5588 { 570}
	50	18.4	4194 {428}	17.3	4755 {485}	14.8	5097 {520}	13.0	5398 {551}	8.5	6542 {668}	2.2	7903 { 806}
	60	15.2	4271 {436}	14.2	4785 {488}	12.1	5129 {523}	10.6	5432 {554}	7.0	6584 {672}	1.9	7903 { 806}

Models in are limited by their thermal rating. Consult us if your application runs for short periods.

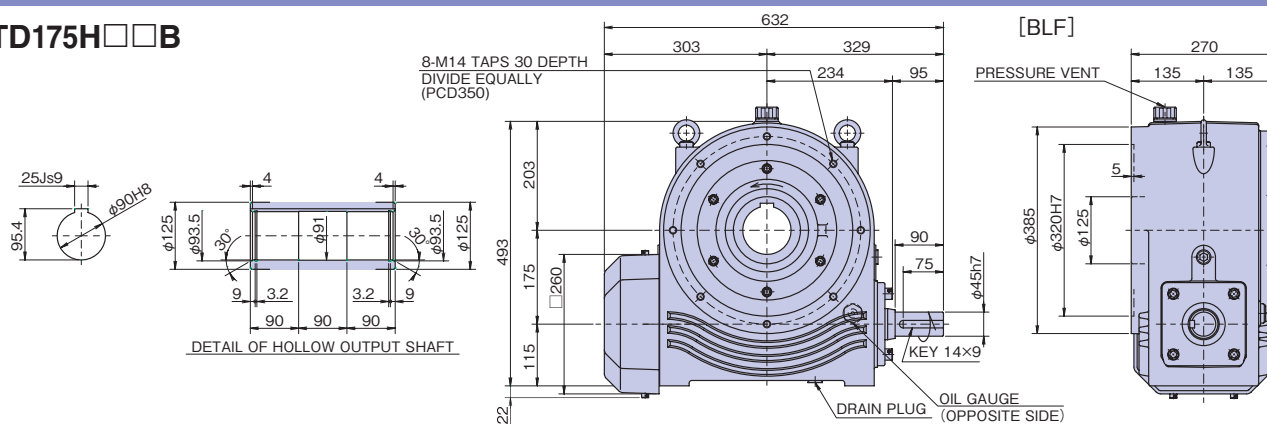
Dimensional Drawings TD175H

TD175H□□T



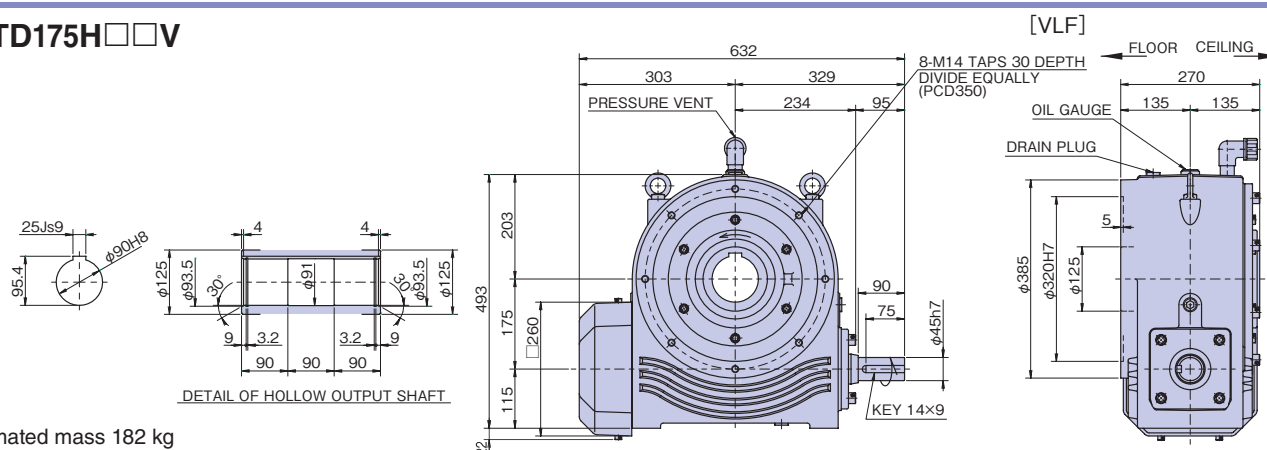
Estimated mass 185 kg

TD175H□□B



Estimated mass 179 kg

TD175H□□V



Estimated mass 182 kg

* Refer to page 122 for shaft arrangements and relative direction of rotation.

Transfer Capacity Table

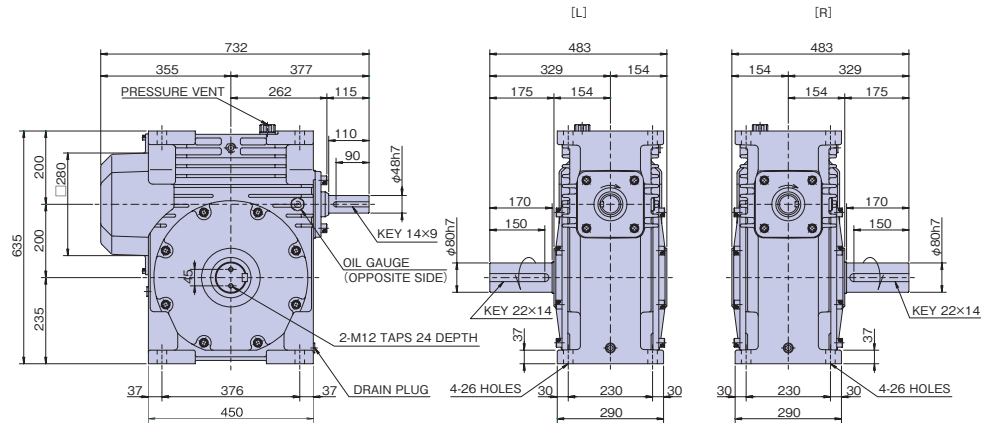
Refer to page 127 for actual reduction ratios.

Size	Input	1750 r/min		1450 r/min		1150 r/min		950 r/min		500 r/min		100 r/min	
	Reduction ratio	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}
TD175H	10	44.9	2392 {244}	43.3	2776 {283}	41.1	3325 {339}	39.4	3847 {393}	31.2	5769 {589}	8.6	7764 { 792}
	20	34.2	3556 {363}	32.8	4113 {420}	31.1	4905 {501}	26.9	5127 {523}	14.3	5127 {523}	3.0	5127 { 523}
	30	24.5	3863 {394}	23.5	4467 {456}	21.2	5048 {515}	18.6	5346 {546}	12.0	6478 {661}	3.1	7903 { 806}
	40	22.1	4323 {441}	20.4	4802 {490}	17.4	5148 {525}	15.3	5451 {556}	8.4	5588 {570}	1.8	5588 { 570}
	50	18.4	4194 {428}	17.3	4755 {485}	14.8	5097 {520}	13.0	5398 {551}	8.5	6542 {668}	2.2	7903 { 806}
	60	15.2	4271 {436}	14.2	4785 {488}	12.1	5129 {523}	10.6	5432 {554}	7.0	6584 {672}	1.9	7903 { 806}

Models in are limited by their thermal rating. Consult us if your application runs for short periods.

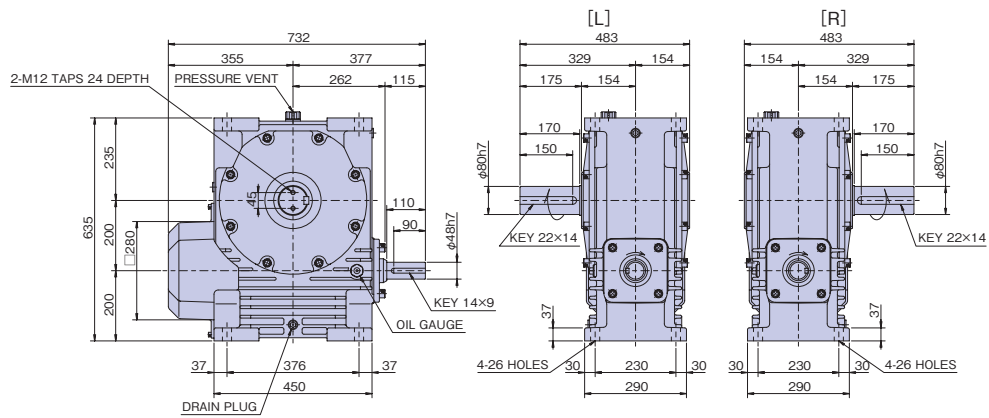
Dimensional Drawings TD200S

TD200S□□T



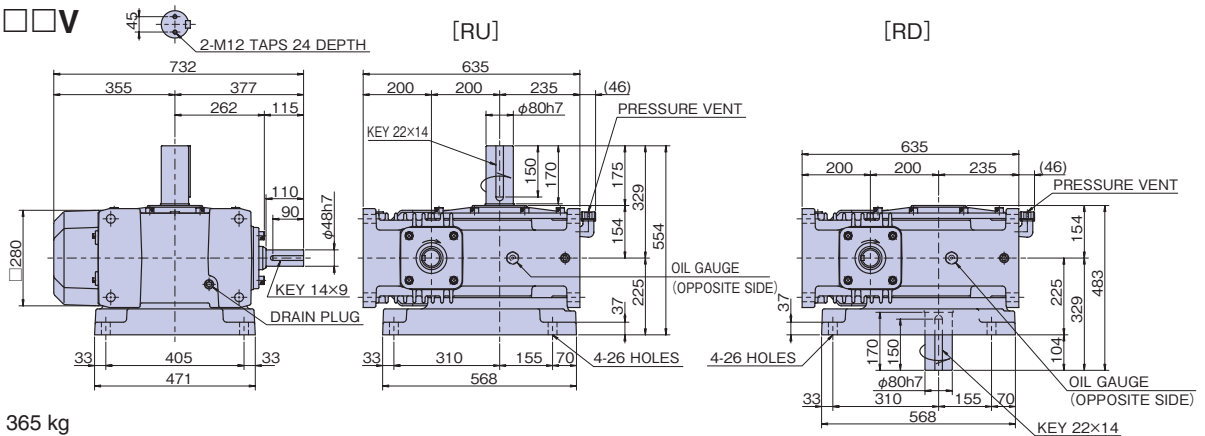
Estimated mass 321 kg

TD200S□□B



Estimated mass 309 kg

TD200S□□V



Estimated mass 365 kg

* Refer to page 122 for shaft arrangements and relative direction of rotation.

Transfer Capacity Table

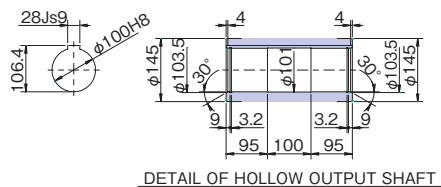
Refer to page 127 for actual reduction ratios.

Size	Input	1750 r/min		1450 r/min		1150 r/min		950 r/min		500 r/min		100 r/min	
	Reduction ratio	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}
TD200S	10	59.6	3174 {324}	57.5	3689 {376}	54.8	4428 {452}	52.5	5135 {524}	44.9	8286 {846}	11.5	10314 {1052}
	20	43.2	4347 {444}	41.5	5043 {515}	39.5	6037 {616}	37.8	6981 {712}	26.6	9236 {942}	6.7	11138 {1137}
	30	31.2	4717 {481}	29.7	5417 {553}	28.6	6547 {668}	27.3	7569 {772}	18.0	9352 {954}	4.6	11138 {1137}
	40	27.8	5220 {533}	26.7	6050 {617}	25.4	7232 {738}	22.9	7858 {802}	14.8	9525 {972}	3.7	11138 {1137}
	50	23.4	5344 {545}	22.5	6193 {632}	21.4	7404 {756}	18.8	7841 {800}	12.2	9505 {970}	3.1	11138 {1137}
	60	20.1	5445 {556}	19.3	6311 {644}	18.0	7390 {754}	15.9	7826 {799}	10.4	9486 {968}	2.7	11138 {1137}

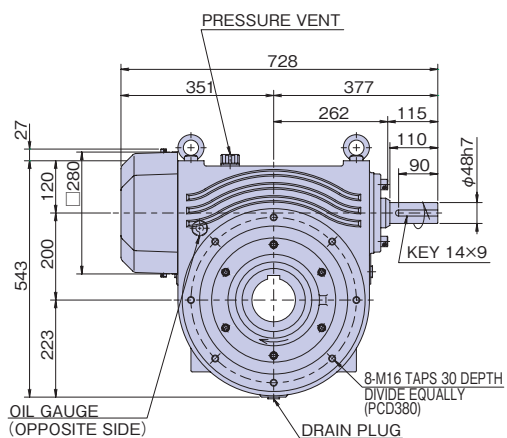
Models in are limited by their thermal rating. Consult us if your application runs for short periods.

Dimensional Drawings TD200H

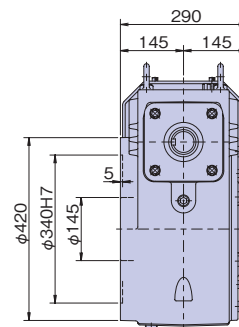
TD200H□□T



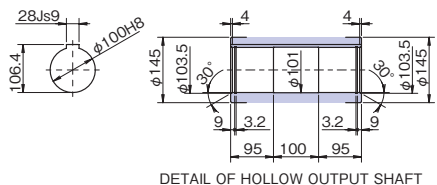
Estimated mass 255 kg



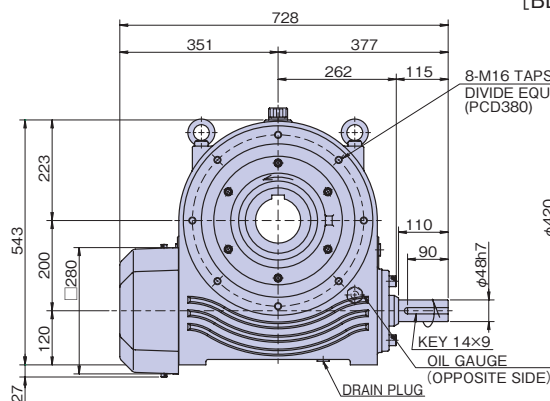
[TLF]



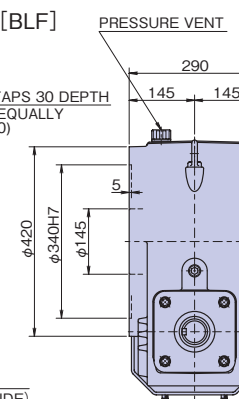
TD200H□□B



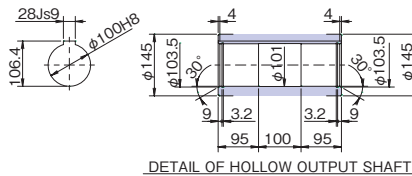
Estimated mass 249 kg



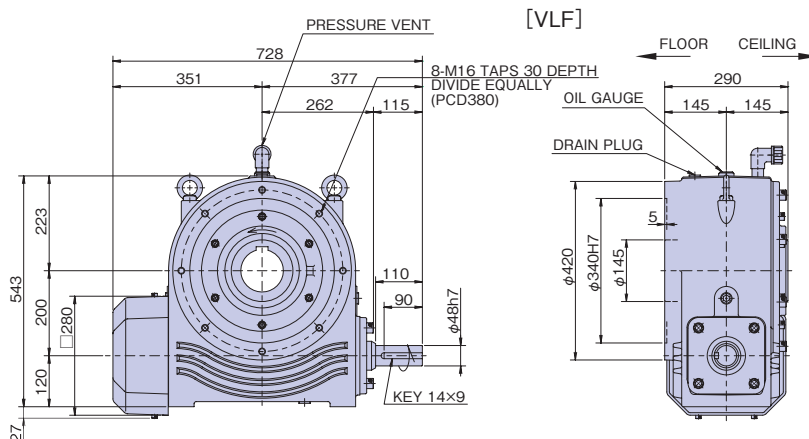
[BLF]



TD200H□□V



Estimated mass 252 kg



[VLF]

* Refer to page 122 for shaft arrangements and relative direction of rotation.

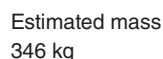
Transfer Capacity Table

Refer to page 127 for actual reduction ratios.

Size	Input	1750 r/min		1450 r/min		1150 r/min		950 r/min		500 r/min		100 r/min	
	Reduction ratio	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}
TD200H	10	59.6	3174 {324}	57.5	3689 {376}	54.8	4428 {452}	52.5	5135 {524}	44.9	8286 {846}	11.5	10314 {1052}
	20	43.2	4347 {444}	41.5	5043 {515}	39.5	6037 {616}	37.8	6981 {712}	26.6	9236 {942}	6.7	11138 {1137}
	30	31.2	4717 {481}	29.7	5417 {553}	28.6	6547 {668}	27.3	7569 {772}	18.0	9352 {954}	4.6	11138 {1137}
	40	27.8	5220 {533}	26.7	6050 {617}	25.4	7232 {738}	22.9	7858 {802}	14.8	9525 {972}	3.7	11138 {1137}
	50	23.4	5344 {545}	22.5	6193 {632}	21.4	7404 {756}	18.8	7841 {800}	12.2	9505 {970}	3.1	11138 {1137}
	60	20.1	5445 {556}	19.3	6311 {644}	18.0	7390 {754}	15.9	7826 {799}	10.4	9486 {968}	2.7	11138 {1137}

Models in are limited by their thermal rating. Consult us if your application runs for short periods.

TD225S□□T



Estimated mass 331 kg

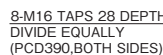
Estimated mass 336 kg

* Refer to page 122 for shaft arrangements and relative direction of rotation.

Refer to page 127 for actual reduction ratios.

Models in are limited by their thermal rating. Consult us if your application runs for short periods.

TD225H□□T



TD225H□□B



Estimated mass 304 kg



TD225H□□V



Estimated mass 310 kg

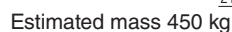
* Refer to page 122 for shaft arrangements and relative direction of rotation.

Transfer Capacity Table

Refer to page 127 for actual reduction ratios.

Models in are limited by their thermal rating. Consult us if your application runs for short periods.

TD250S□□T



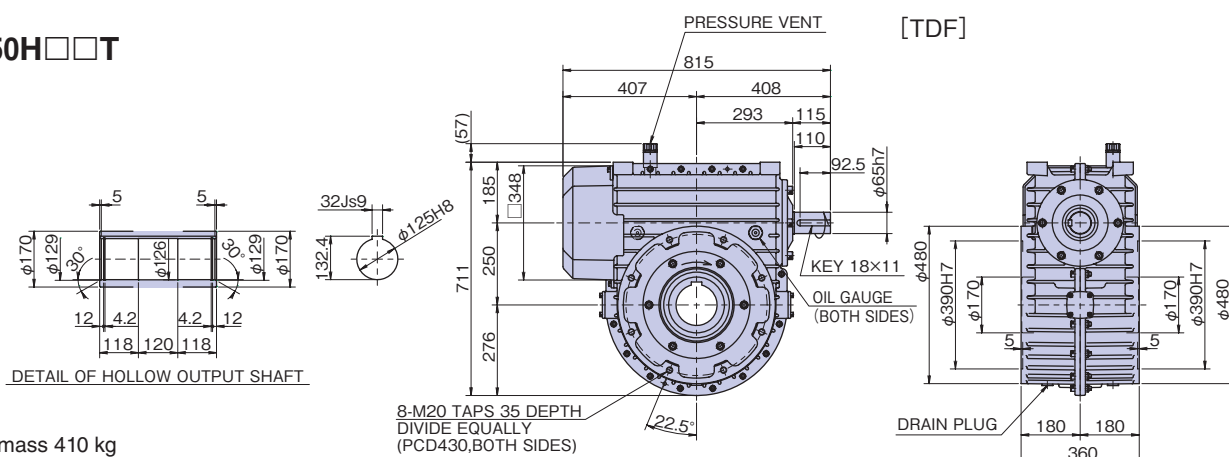
* Refer to page 122 for shaft arrangements and relative direction of rotation.

Size	Input	1750 r/min		1450 r/min		1150 r/min		950 r/min		500 r/min		100 r/min	
	Reduction ratio	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}
TD250S	10	101.6	5421 { 553}	98.1	6312 { 644}	93.7	7596 { 775}	90.0	8827 { 901}	72.0	13352 {1362}	19.4	17560 {1792}
	20	73.5	7641 { 780}	70.8	8879 { 906}	67.5	10654 {1087}	62.5	11925 {1217}	40.0	14417 {1471}	9.7	16828 {1717}
	30	55.0	8297 { 847}	53.0	9641 { 984}	49.6	11351 {1158}	43.5	12014 {1226}	28.0	14534 {1483}	8.8	21558 {2200}
	40	48.7	9274 { 946}	46.9	10768 {1099}	40.0	11546 {1178}	35.1	12220 {1247}	22.6	14785 {1509}	6.1	18630 {1901}
	50	41.1	9434 { 963}	38.8	10737 {1096}	33.1	11503 {1174}	29.0	12175 {1242}	18.8	14733 {1503}	6.1	22147 {2260}
	60	35.3	9638 { 983}	32.6	10711 {1093}	27.8	11475 {1171}	24.4	12147 {1239}	15.8	14700 {1500}	5.4	22646 {2311}

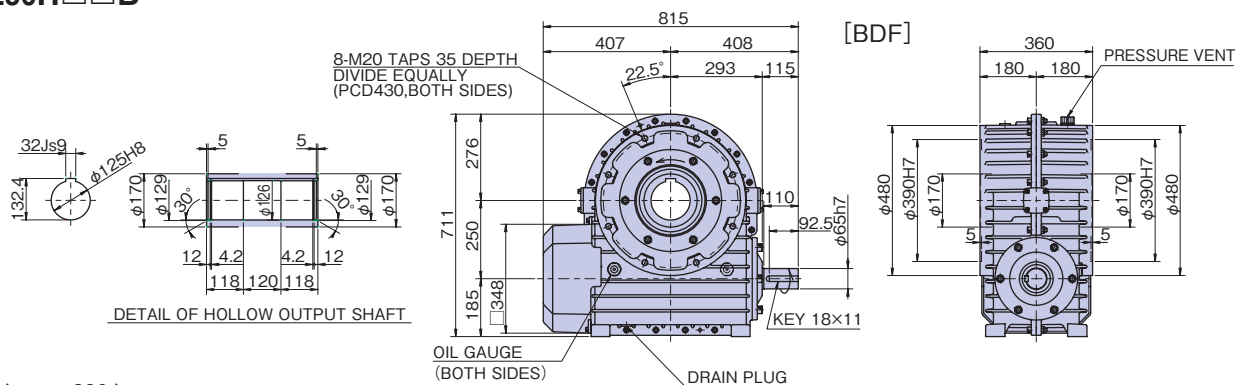
139

Dimensional Drawings TD250H

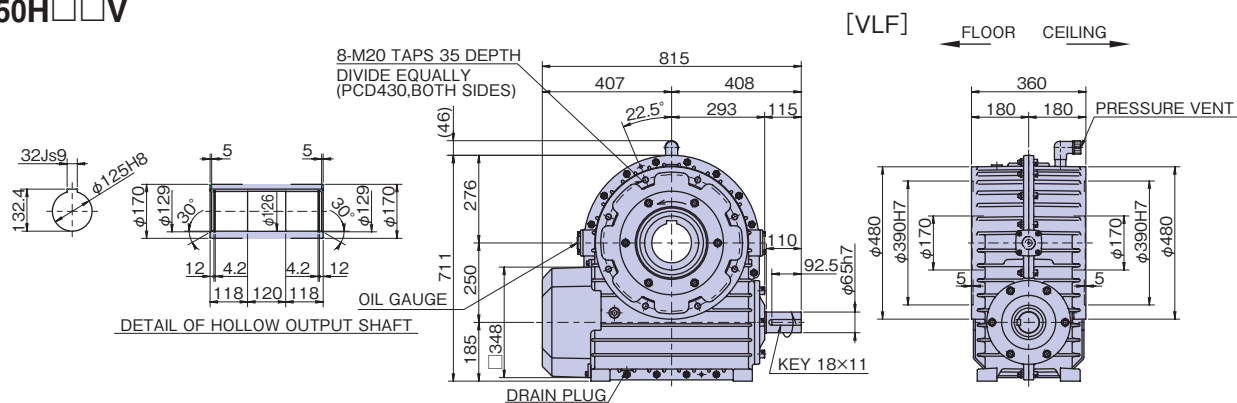
TD250H□□T



TD250H□□B



TD250H□□V



* Refer to page 122 for shaft arrangements and relative direction of rotation.

Transfer Capacity Table

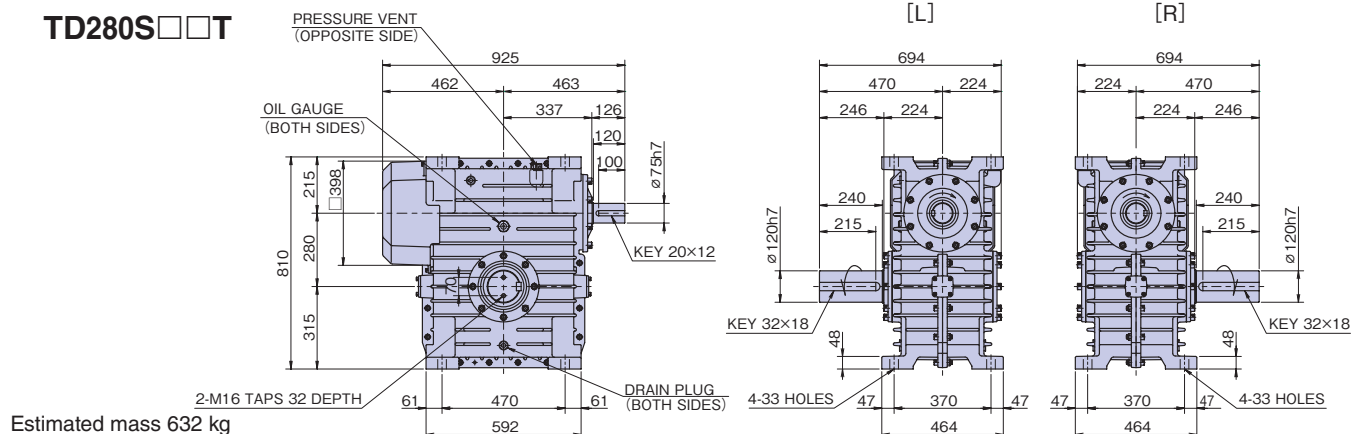
Refer to page 127 for actual reduction ratios.

Size	Input	1750 r/min		1450 r/min		1150 r/min		950 r/min		500 r/min		100 r/min	
	Reduction ratio	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}
TD250H	10	101.6	5421 { 553}	98.1	6312 { 644}	93.7	7596 { 775}	90.0	8827 { 901}	72.0	13352 {1362}	19.4	17560 {1792}
	20	73.5	7641 { 780}	70.8	8879 { 906}	67.5	10654 {1087}	62.5	11925 {1217}	40.0	14417 {1471}	9.7	16828 {1717}
	30	55.0	8297 { 847}	53.0	9641 { 984}	49.6	11351 {1158}	43.5	12014 {1226}	28.0	14534 {1483}	8.8	21558 {2200}
	40	48.7	9274 { 946}	46.9	10768 {1099}	40.0	11546 {1178}	35.1	12220 {1247}	22.6	14785 {1509}	6.1	18630 {1901}
	50	41.1	9434 { 963}	38.8	10737 {1096}	33.1	11503 {1174}	29.0	12175 {1242}	18.8	14733 {1503}	6.1	22147 {2260}
	60	35.3	9638 { 983}	32.6	10711 {1093}	27.8	11475 {1171}	24.4	12147 {1239}	15.8	14700 {1500}	5.4	22646 {2311}

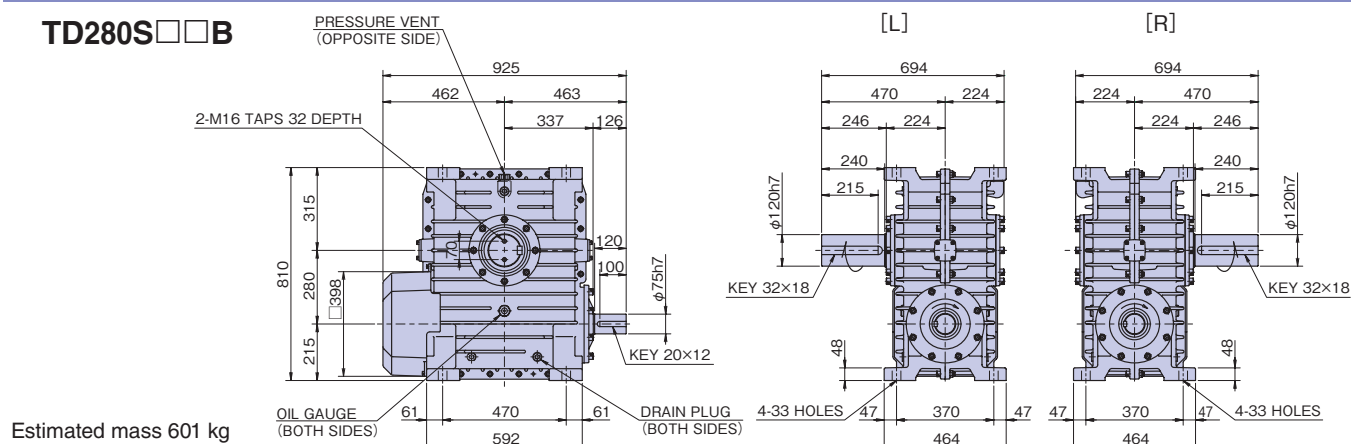
Models in □ are limited by their thermal rating. Consult us if your application runs for short periods.

Dimensional Drawings TD280S

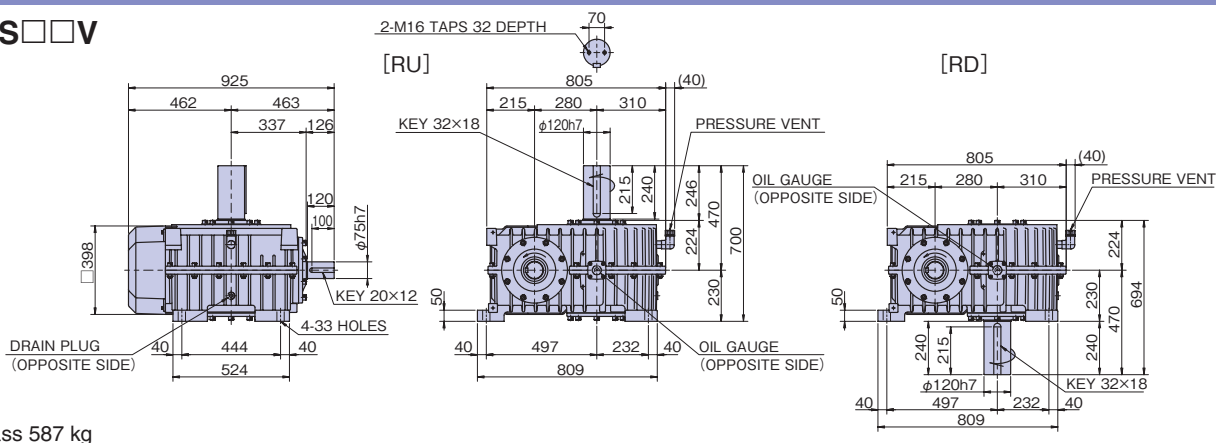
TD280S□□T



TD280S□□B



TD280S□□V



* Refer to page 122 for shaft arrangements and relative direction of rotation.

Transfer Capacity Table

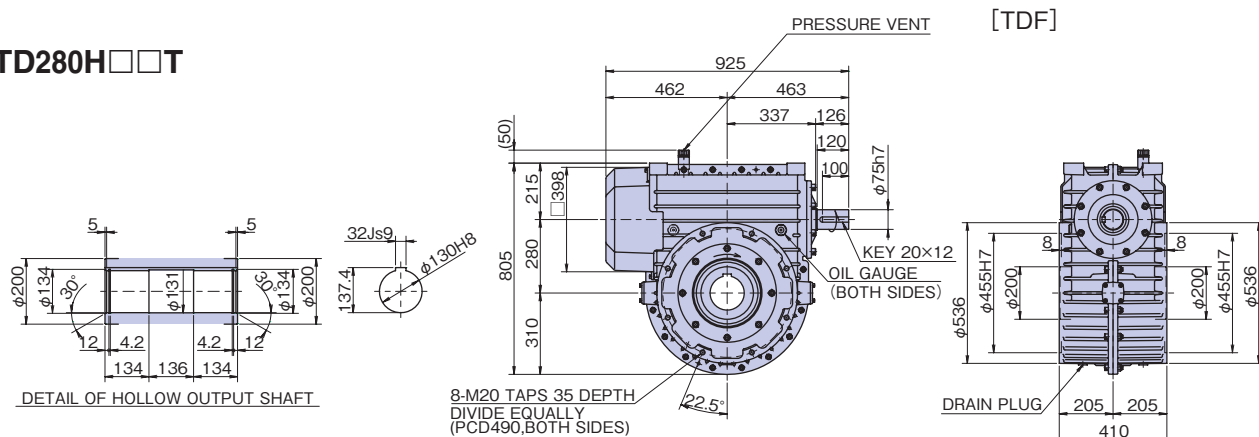
Refer to page 127 for actual reduction ratios.

Size	Input	1750 r/min		1450 r/min		1150 r/min		950 r/min		500 r/min		100 r/min	
	Reduction ratio	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}
TD280S	10	-	-	125.7	8083 { 825}	120.3	9742 { 994}	115.7	11339 {1157}	98.1	18195 {1857}	27.4	24854 {2536}
	20	95.7	9932 {1013}	92.4	11556 {1179}	88.2	13890 {1417}	84.6	16124 {1645}	54.9	19714 {2012}	15.3	26445 {2698}
	30	73.0	10886 {1111}	70.5	12663 {1292}	67.3	15216 {1553}	60.3	16466 {1680}	38.7	19920 {2033}	11.7	28664 {2925}
	40	61.7	12006 {1225}	59.6	13958 {1424}	53.5	15759 {1608}	46.9	16679 {1702}	30.2	20181 {2059}	9.1	28392 {2897}
	50	54.3	12535 {1279}	52.5	14571 {1487}	45.2	15806 {1613}	39.6	16729 {1707}	25.6	20244 {2066}	8.1	29634 {3024}
	60	46.9	12687 {1295}	45.0	14685 {1498}	38.4	15734 {1606}	33.7	16654 {1699}	21.8	20155 {2057}	7.1	30110 {3072}

Models in are limited by their thermal rating. Consult us if your application runs for short periods.

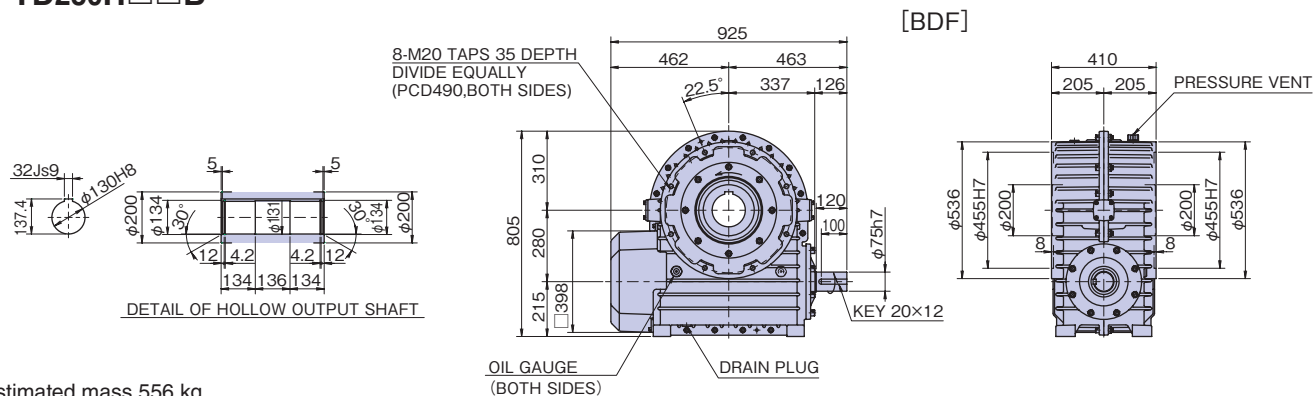
Dimensional Drawings TD280H

TD280H□□T



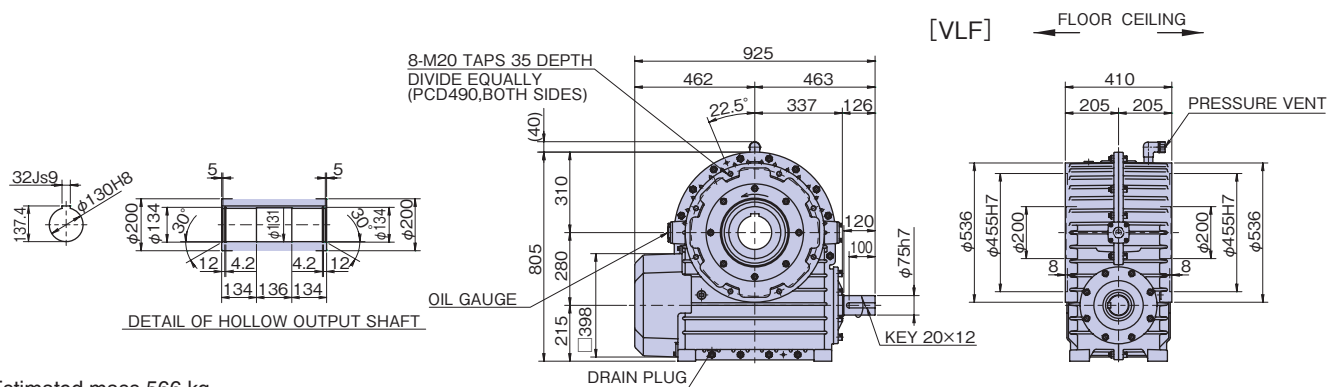
Estimated mass 576 kg

TD280H□□B



Estimated mass 556 kg

TD280H□□V



Estimated mass 566 kg

* Refer to page 122 for shaft arrangements and relative direction of rotation.

Transfer Capacity Table

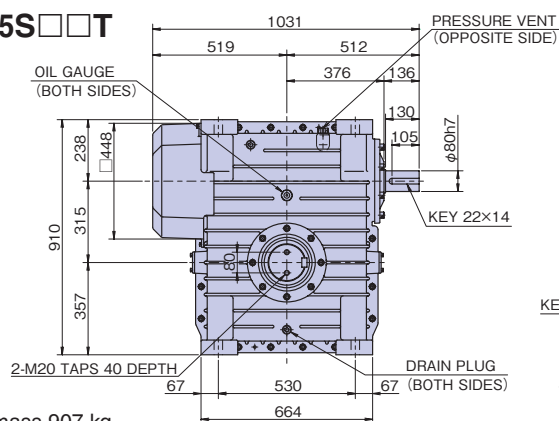
Refer to page 127 for actual reduction ratios.

Size	Input	1750 r/min		1450 r/min		1150 r/min		950 r/min		500 r/min		100 r/min	
	Reduction ratio	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}
TD280H	10	-	-	125.7	8083 { 825 }	120.3	9742 { 994 }	115.7	11339 {1157}	98.1	18195 {1857}	27.4	24854 {2536}
	20	95.7	9932 {1013}	92.4	11556 {1179}	88.2	13890 {1417}	84.6	16124 {1645}	54.9	19714 {2012}	15.3	26445 {2698}
	30	73.0	10886 {1111}	70.5	12663 {1292}	67.3	15216 {1553}	60.3	16466 {1680}	38.7	19920 {2033}	11.7	28664 {2925}
	40	61.7	12006 {1225}	59.6	13958 {1424}	53.5	15759 {1608}	46.9	16679 {1702}	30.2	20181 {2059}	9.1	28392 {2897}
	50	54.3	12535 {1279}	52.5	14571 {1487}	45.2	15806 {1613}	39.6	16729 {1707}	25.6	20244 {2066}	8.1	29634 {3024}
	60	46.9	12687 {1295}	45.0	14685 {1498}	38.4	15734 {1606}	33.7	16654 {1699}	21.8	20155 {2057}	7.1	30110 {3072}

Models in are limited by their thermal rating. Consult us if your application runs for short periods.

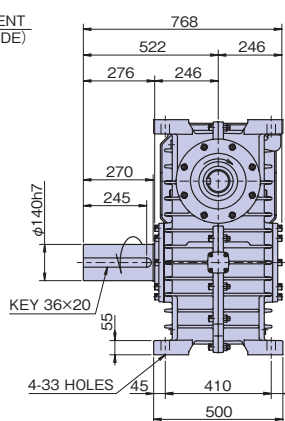
Dimensional Drawings TD315S

TD315S□□T

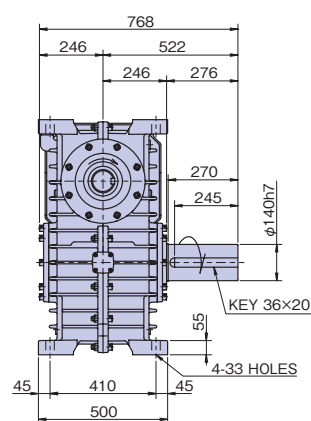


Estimated mass 907 kg

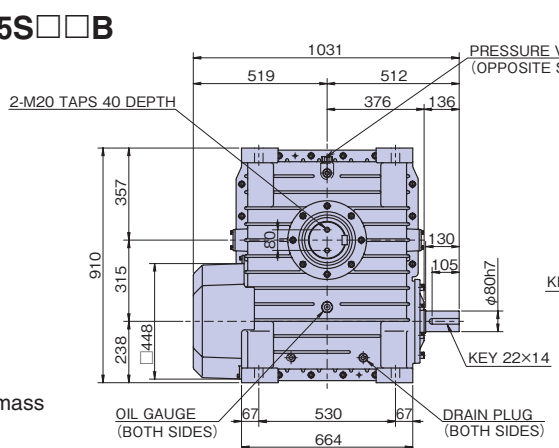
[L]



[R]

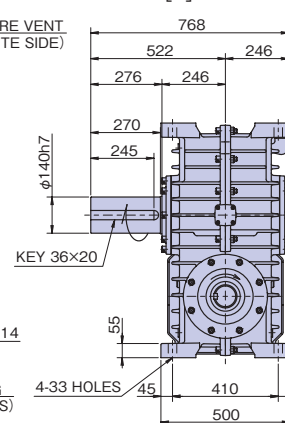


TD315S□□B

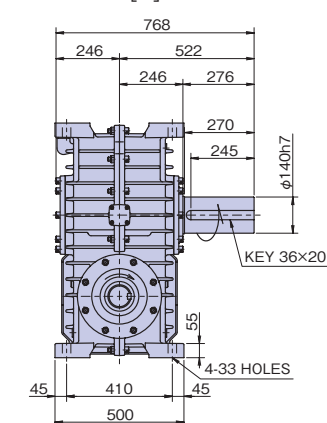


Estimated mass 861 kg

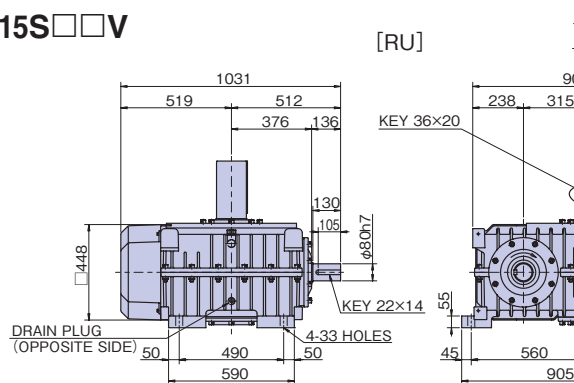
[L]



[R]

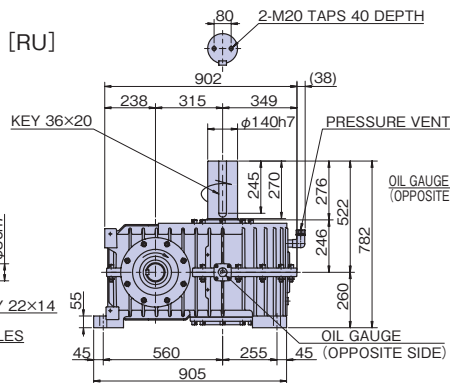


TD315S□□V

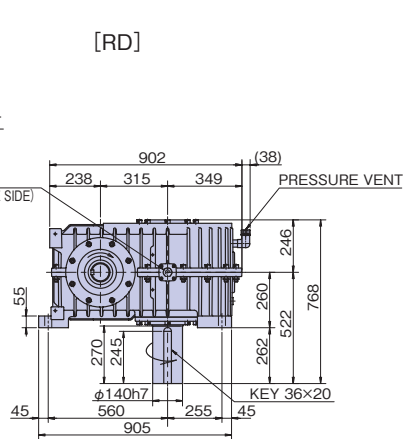


Estimated mass 869 kg

[RU]



[RD]



* Refer to page 122 for shaft arrangements and relative direction of rotation.

Transfer Capacity Table

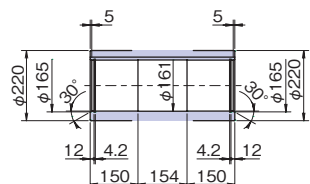
Refer to page 127 for actual reduction ratios.

Size	Input Reduction ratio	1750 r/min		1450 r/min		1150 r/min		950 r/min		500 r/min		100 r/min	
		Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}
TD315S	10	-	-	-	-	169.1	13723 {1400}	162.9	15989 {1632}	136.8	25438 {2596}	33.2	30270 {3089}
	20	-	-	129.6	16242 {1657}	123.8	19548 {1995}	119.0	22720 {2318}	79.6	28704 {2929}	20.1	35090 {3581}
	30	-	-	96.2	17551 {1791}	92.0	21123 {2155}	86.5	24015 {2451}	55.6	29053 {2965}	17.8	44420 {4533}
	40	-	-	85.0	19552 {1995}	79.6	23076 {2355}	69.8	24423 {2492}	44.9	29549 {3015}	11.8	36685 {3743}
	50	-	-	71.7	19898 {2030}	65.9	22993 {2346}	57.7	24337 {2483}	37.3	29450 {3005}	12.1	44546 {4546}
	60	-	-	61.7	20404 {2082}	55.2	22938 {2341}	48.4	24280 {2478}	31.3	29384 {2998}	10.8	46790 {4774}

Models in are limited by their thermal rating. Consult us if your application runs for short periods.

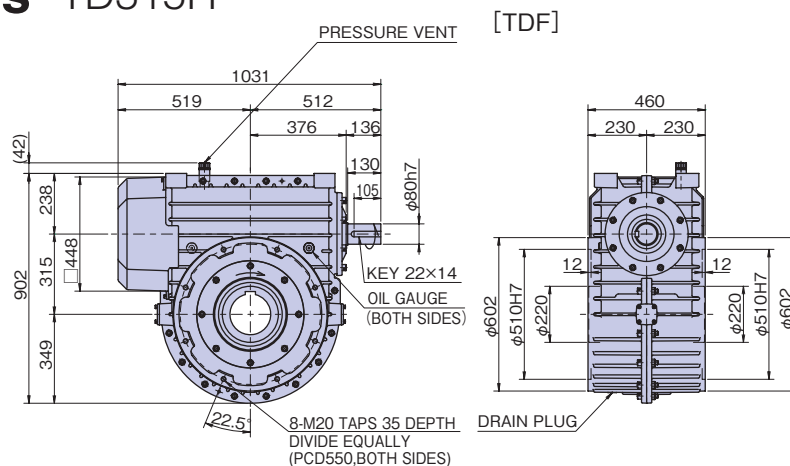
Dimensional Drawings TD315H

TD315H□□T

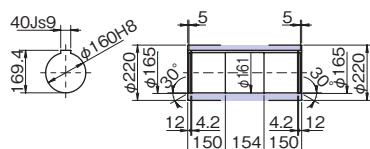


DETAIL OF HOLLOW OUTPUT SHAFT

Estimated mass 812 kg

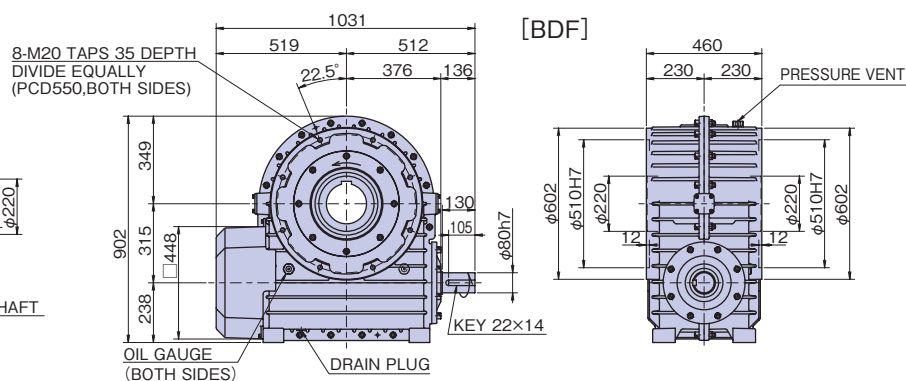


TD315H□□B

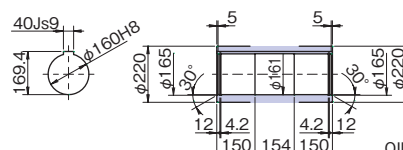


DETAIL OF HOLLOW OUTPUT SHAFT

Estimated mass 783 kg

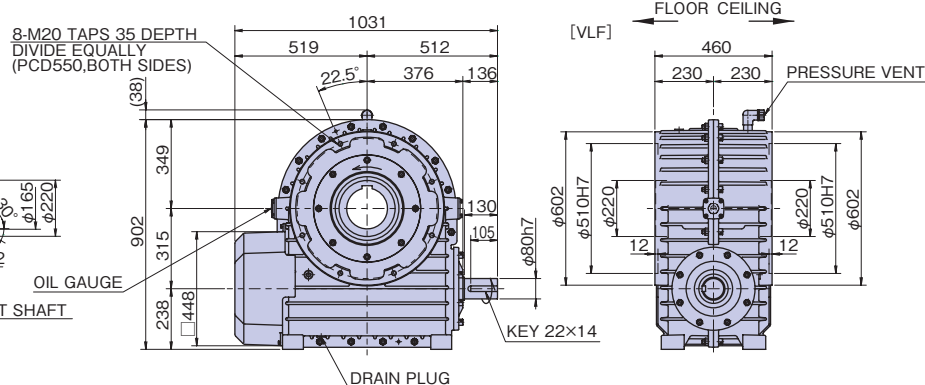


TD315H□□V



DETAIL OF HOLLOW OUTPUT SHAFT

Estimated mass 798 kg



* Refer to page 122 for shaft arrangements and relative direction of rotation.

Transfer Capacity Table

Refer to page 127 for actual reduction ratios.

Size	Input	1750 r/min		1450 r/min		1150 r/min		950 r/min		500 r/min		100 r/min	
	Reduction ratio	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}
TD315H	10	-	-	-	-	169.1	13723 {1400}	162.9	15989 {1632}	136.8	25438 {2596}	33.2	30270 {3089}
	20	-	-	129.6	16242 {1657}	123.8	19548 {1995}	119.0	22720 {2318}	79.6	28704 {2929}	20.1	35090 {3581}
	30	-	-	96.2	17551 {1791}	92.0	21123 {2155}	86.5	24015 {2451}	55.6	29053 {2965}	17.8	44420 {4533}
	40	-	-	85.0	19552 {1995}	79.6	23076 {2355}	69.8	24423 {2492}	44.9	29549 {3015}	11.8	36685 {3743}
	50	-	-	71.7	19898 {2030}	65.9	22993 {2346}	57.7	24337 {2483}	37.3	29450 {3005}	12.1	44546 {4546}
	60	-	-	61.7	20404 {2082}	55.2	22938 {2341}	48.4	24280 {2478}	31.3	29384 {2998}	10.8	46790 {4774}

Models in are limited by their thermal rating. Consult us if your application runs for short periods.



TD Series

Double Reduction (Nominal reduction ratio 1/100 to 1/3600)



- ▶ **Transfer Capacity Table** 147 - 150
- ▶ **Technical Data** 151 - 152
 - Allowable Loads on Shafts
 - Actual Reduction Ratio
 - Moment of Inertia on Input Shaft
- ▶ **Dimensional Drawings** 153 - 168

Transfer Capacity Table

Refer to page 151 for actual reduction ratios.

Size	Nominal Reduction ratio	1750 r/min		1450 r/min		1150 r/min		950 r/min		500 r/min		100 r/min	
		Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}
TD125	100	4.04	1900 {194}	3.76	2107 {215}	3.39	2354 {240}	3.06	2537 {259}	1.77	2644 {270}	0.38	2511 {256}
	150	3.02	2034 {208}	2.81	2244 {229}	2.54	2511 {256}	2.28	2671 {273}	1.28	2671 {273}	0.29	2644 {270}
	200	2.41	2083 {213}	2.24	2297 {234}	1.99	2511 {256}	1.78	2671 {273}	1.01	2671 {273}	0.23	2564 {262}
	250	1.99	2083 {213}	1.83	2270 {232}	1.63	2484 {253}	1.47	2644 {270}	0.83	2618 {267}	0.19	2484 {253}
	300	2.88	3668 {374}	2.49	3759 {384}	2.09	3875 {395}	1.76	3889 {397}	1.00	3889 {397}	0.24	3889 {397}
	450	2.15	3866 {394}	1.83	3889 {397}	1.49	3889 {397}	1.27	3889 {397}	0.73	3889 {397}	0.18	3889 {397}
	600	1.69	3889 {397}	1.44	3889 {397}	1.18	3889 {397}	1.00	3889 {397}	0.58	3889 {397}	0.14	3889 {397}
	750	1.41	3889 {397}	1.20	3889 {397}	0.99	3889 {397}	0.84	3889 {397}	0.49	3889 {397}	0.12	3889 {397}
	900	1.26	3889 {397}	1.07	3889 {397}	0.89	3889 {397}	0.76	3889 {397}	0.45	3889 {397}	0.12	3889 {397}
	1200	1.01	3889 {397}	0.87	3889 {397}	0.72	3889 {397}	0.62	3889 {397}	0.37	3889 {397}	0.10	3889 {397}
	1500	0.86	3889 {397}	0.74	3889 {397}	0.61	3889 {397}	0.52	3889 {397}	0.31	3889 {397}	0.08	3889 {397}
	1800	0.77	3889 {397}	0.67	3889 {397}	0.56	3889 {397}	0.48	3889 {397}	0.29	3889 {397}	0.08	3889 {397}
	2400	0.63	3889 {397}	0.54	3889 {397}	0.45	3889 {397}	0.39	3889 {397}	0.24	3889 {397}	0.07	3889 {397}
	3000	0.54	3889 {397}	0.47	3889 {397}	0.39	3889 {397}	0.34	3889 {397}	0.21	3889 {397}	0.06	3889 {397}
	3600	0.48	3889 {397}	0.41	3889 {397}	0.35	3889 {397}	0.30	3889 {397}	0.19	3889 {397}	0.05	3889 {397}
TD150	100	5.63	2688 {274}	5.29	3014 {308}	4.76	3362 {343}	4.15	3500 {357}	2.61	3986 {407}	0.56	3792 {387}
	150	4.26	2926 {299}	3.87	3160 {322}	3.42	3451 {352}	2.99	3597 {367}	1.94	4180 {427}	0.43	3986 {407}
	200	3.41	3014 {308}	3.11	3257 {332}	2.71	3500 {357}	2.41	3694 {377}	1.50	4083 {417}	0.34	3937 {402}
	250	2.81	3014 {308}	2.60	3305 {337}	2.27	3549 {362}	2.02	3743 {382}	1.20	3937 {402}	0.27	3792 {387}
	300	4.31	5601 {572}	3.72	5733 {585}	3.10	5899 {602}	2.66	6002 {612}	1.50	6002 {612}	0.36	6002 {612}
	450	3.18	5887 {601}	2.75	6002 {612}	2.24	6002 {612}	1.89	6002 {612}	1.08	6002 {612}	0.26	6002 {612}
	600	2.54	6002 {612}	2.16	6002 {612}	1.77	6002 {612}	1.50	6002 {612}	0.86	6002 {612}	0.21	6002 {612}
	750	2.11	6002 {612}	1.80	6002 {612}	1.47	6002 {612}	1.25	6002 {612}	0.72	6002 {612}	0.18	6002 {612}
	900	1.86	6002 {612}	1.59	6002 {612}	1.31	6002 {612}	1.12	6002 {612}	0.66	6002 {612}	0.17	6002 {612}
	1200	1.50	6002 {612}	1.28	6002 {612}	1.06	6002 {612}	0.91	6002 {612}	0.54	6002 {612}	0.14	6002 {612}
	1500	1.32	6166 {629}	1.13	6166 {629}	0.93	6166 {629}	0.80	6166 {629}	0.47	6166 {629}	0.12	6166 {629}
	1800	1.17	6166 {629}	1.01	6166 {629}	0.84	6166 {629}	0.72	6166 {629}	0.43	6166 {629}	0.12	6166 {629}
	2400	0.95	6166 {629}	0.82	6166 {629}	0.68	6166 {629}	0.59	6166 {629}	0.36	6166 {629}	0.10	6166 {629}
	3000	0.81	6166 {629}	0.70	6166 {629}	0.59	6166 {629}	0.51	6166 {629}	0.31	6166 {629}	0.09	6166 {629}
	3600	0.71	6166 {629}	0.62	6166 {629}	0.52	6166 {629}	0.45	6166 {629}	0.28	6166 {629}	0.08	6166 {629}

Refer to page 151 for actual reduction ratios.

Size	Nominal Reduction ratio	1750 r/min		1450 r/min		1150 r/min		950 r/min		500 r/min		100 r/min	
		Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}
TD175	100	9.36	4524 { 462}	8.52	4917 { 502}	7.88	5657 { 577}	6.96	5978 { 610}	4.58	7143 { 729}	0.99	6832 { 697}
	150	6.99	4883 { 498}	6.44	5357 { 547}	5.72	5901 { 602}	4.99	6134 { 626}	3.34	7376 { 753}	0.75	7221 { 737}
	200	5.51	4969 { 507}	5.08	5435 { 555}	4.53	5978 { 610}	4.00	6289 { 642}	2.66	7453 { 761}	0.61	7221 { 737}
	250	4.45	4891 { 499}	4.23	5512 { 562}	3.78	6056 { 618}	3.35	6366 { 650}	2.12	7143 { 729}	0.48	6832 { 697}
	300	5.91	7903 { 806}	4.97	7903 { 806}	4.02	7903 { 806}	3.38	7903 { 806}	1.90	7903 { 806}	0.45	7903 { 806}
	450	4.00	7903 { 806}	3.38	7903 { 806}	2.74	7903 { 806}	2.32	7903 { 806}	1.31	7903 { 806}	0.32	7903 { 806}
	600	3.13	7903 { 806}	2.65	7903 { 806}	2.16	7903 { 806}	1.83	7903 { 806}	1.05	7903 { 806}	0.26	7903 { 806}
	750	2.58	7903 { 806}	2.19	7903 { 806}	1.79	7903 { 806}	1.52	7903 { 806}	0.87	7903 { 806}	0.22	7903 { 806}
	900	2.26	7903 { 806}	1.92	7903 { 806}	1.58	7903 { 806}	1.34	7903 { 806}	0.78	7903 { 806}	0.20	7903 { 806}
	1200	1.81	7903 { 806}	1.55	7903 { 806}	1.28	7903 { 806}	1.09	7903 { 806}	0.65	7903 { 806}	0.17	7903 { 806}
	1500	1.54	7903 { 806}	1.32	7903 { 806}	1.09	7903 { 806}	0.93	7903 { 806}	0.55	7903 { 806}	0.14	7903 { 806}
	1800	1.36	7903 { 806}	1.16	7903 { 806}	0.96	7903 { 806}	0.82	7903 { 806}	0.49	7903 { 806}	0.13	7903 { 806}
	2400	1.10	7903 { 806}	0.95	7903 { 806}	0.79	7903 { 806}	0.68	7903 { 806}	0.41	7903 { 806}	0.11	7903 { 806}
	3000	0.93	7903 { 806}	0.80	7903 { 806}	0.67	7903 { 806}	0.58	7903 { 806}	0.35	7903 { 806}	0.10	7903 { 806}
	3600	0.82	7903 { 806}	0.71	7903 { 806}	0.59	7903 { 806}	0.51	7903 { 806}	0.31	7903 { 806}	0.09	7903 { 806}
TD200	100	15.33	7462 { 761}	14.23	8285 { 845}	12.79	9271 { 946}	11.90	10314 {1052}	6.54	10314 {1052}	1.48	10314 {1052}
	150	11.38	8036 { 820}	10.66	8973 { 916}	9.58	10005 {1021}	8.28	10314 {1052}	4.60	10314 {1052}	1.07	10314 {1052}
	200	9.00	8251 { 842}	8.32	9076 { 926}	7.57	10211 {1042}	6.42	10314 {1052}	3.59	10314 {1052}	0.84	10314 {1052}
	250	7.41	8251 { 842}	6.70	8870 { 905}	6.32	10314 {1052}	5.32	10314 {1052}	3.00	10314 {1052}	0.72	10314 {1052}
	300	8.31	11138 {1137}	6.98	11138 {1137}	5.66	11138 {1137}	4.75	11138 {1137}	2.67	11138 {1137}	0.64	11138 {1137}
	450	5.80	11138 {1137}	4.89	11138 {1137}	3.97	11138 {1137}	3.35	11138 {1137}	1.90	11138 {1137}	0.47	11138 {1137}
	600	4.50	11138 {1137}	3.81	11138 {1137}	3.01	11138 {1137}	2.62	11138 {1137}	1.50	11138 {1137}	0.37	11138 {1137}
	750	3.73	11138 {1137}	3.16	11138 {1137}	2.59	11138 {1137}	2.19	11138 {1137}	1.26	11138 {1137}	0.32	11138 {1137}
	900	3.25	11138 {1137}	2.77	11138 {1137}	2.27	11138 {1137}	1.93	11138 {1137}	1.13	11138 {1137}	0.29	11138 {1137}
	1200	2.58	11138 {1137}	2.20	11138 {1137}	1.81	11138 {1137}	1.55	11138 {1137}	0.91	11138 {1137}	0.24	11138 {1137}
	1500	2.24	11138 {1137}	1.91	11138 {1137}	1.58	11138 {1137}	1.35	11138 {1137}	0.79	11138 {1137}	0.21	11138 {1137}
	1800	1.97	11138 {1137}	1.68	11138 {1137}	1.39	11138 {1137}	1.19	11138 {1137}	0.71	11138 {1137}	0.19	11138 {1137}
	2400	1.57	11138 {1137}	1.35	11138 {1137}	1.12	11138 {1137}	0.97	11138 {1137}	0.58	11138 {1137}	0.16	11138 {1137}
	3000	1.34	11138 {1137}	1.16	11138 {1137}	0.97	11138 {1137}	0.83	11138 {1137}	0.51	11138 {1137}	0.14	11138 {1137}
	3600	1.18	11138 {1137}	1.02	11138 {1137}	0.85	11138 {1137}	0.74	11138 {1137}	0.45	11138 {1137}	0.13	11138 {1137}

Transfer Capacity Table

Refer to page 151 for actual reduction ratios.

Size	Nominal Reduction ratio	1750 r/min		1450 r/min		1150 r/min		950 r/min		500 r/min		100 r/min	
		Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}
TD225	100	15.39	7520 { 767 }	14.19	8289 { 846 }	12.71	9240 { 943 }	12.02	10463 {1068 }	8.15	12909 {1317 }	1.84	12909 {1317 }
	150	11.50	8153 { 832 }	10.61	8968 { 915 }	9.59	10055 {1026 }	8.80	11006 {1123 }	5.92	13316 {1359 }	1.38	13452 {1373 }
	200	9.00	8289 { 846 }	8.31	9104 { 929 }	7.62	10327 {1054 }	7.07	11414 {1165 }	4.71	13588 {1387 }	1.06	13044 {1331 }
	250	7.41	8289 { 846 }	6.64	8832 { 901 }	6.30	10327 {1054 }	5.86	11414 {1165 }	3.93	13588 {1387 }	0.89	12909 {1317 }
	300	10.97	14993 {1530 }	9.73	15849 {1617 }	8.04	16204 {1653 }	6.82	16363 {1670 }	3.81	16363 {1670 }	0.90	16363 {1670 }
	450	8.37	16185 {1652 }	7.13	16363 {1670 }	5.78	16363 {1670 }	4.87	16363 {1670 }	2.76	16363 {1670 }	0.67	16363 {1670 }
	600	6.56	16363 {1670 }	5.54	16363 {1670 }	4.51	16363 {1670 }	3.81	16363 {1670 }	2.17	16363 {1670 }	0.53	16363 {1670 }
	750	5.43	16363 {1670 }	4.59	16363 {1670 }	3.75	16363 {1670 }	3.18	16363 {1670 }	1.83	16363 {1670 }	0.46	16363 {1670 }
	900	4.73	16363 {1670 }	4.02	16363 {1670 }	3.29	16363 {1670 }	2.80	16363 {1670 }	1.63	16363 {1670 }	0.42	16363 {1670 }
	1200	3.74	16363 {1670 }	3.19	16363 {1670 }	2.62	16363 {1670 }	2.24	16363 {1670 }	1.32	16363 {1670 }	0.34	16363 {1670 }
	1500	3.55	17542 {1790 }	3.02	17542 {1790 }	2.49	17542 {1790 }	2.12	17542 {1790 }	1.25	17542 {1790 }	0.33	17542 {1790 }
	1800	3.10	17542 {1790 }	2.66	17542 {1790 }	2.20	17542 {1790 }	1.88	17542 {1790 }	1.12	17542 {1790 }	0.30	17542 {1790 }
	2400	2.48	17542 {1790 }	2.13	17542 {1790 }	1.77	17542 {1790 }	1.52	17542 {1790 }	0.91	17542 {1790 }	0.25	17542 {1790 }
	3000	2.11	17542 {1790 }	1.82	17542 {1790 }	1.51	17542 {1790 }	1.31	17542 {1790 }	0.79	17542 {1790 }	0.22	17542 {1790 }
	3600	1.86	17542 {1790 }	1.60	17542 {1790 }	1.34	17542 {1790 }	1.16	17542 {1790 }	0.71	17542 {1790 }	0.20	17542 {1790 }
TD250	100	22.82	11238 {1147 }	21.46	12643 {1290 }	19.35	14224 {1451 }	17.75	15628 {1595 }	10.95	17560 {1792 }	2.47	17560 {1792 }
	150	17.15	12292 {1254 }	15.82	13521 {1380 }	14.54	15453 {1577 }	13.30	16858 {1720 }	7.68	17560 {1792 }	1.77	17560 {1792 }
	200	13.38	12468 {1272 }	12.50	13872 {1416 }	10.99	15102 {1541 }	10.51	17209 {1756 }	5.99	17560 {1792 }	1.41	17560 {1792 }
	250	10.91	12468 {1272 }	10.08	13697 {1398 }	9.20	15453 {1577 }	8.61	17209 {1756 }	4.94	17560 {1792 }	1.17	17560 {1792 }
	300	14.41	19831 {2024 }	12.78	20964 {2139 }	10.50	21354 {2179 }	8.89	21558 {2200 }	4.97	21558 {2200 }	1.18	21558 {2200 }
	450	10.93	21329 {2176 }	9.30	21558 {2200 }	7.53	21558 {2200 }	6.35	21558 {2200 }	3.59	21558 {2200 }	0.87	21558 {2200 }
	600	8.57	21558 {2200 }	7.22	21558 {2200 }	5.87	21558 {2200 }	4.95	21558 {2200 }	2.83	21558 {2200 }	0.70	21558 {2200 }
	750	7.02	21558 {2200 }	5.94	21558 {2200 }	4.84	21558 {2200 }	4.09	21558 {2200 }	2.34	21558 {2200 }	0.58	21558 {2200 }
	900	6.14	21558 {2200 }	5.21	21558 {2200 }	4.26	21558 {2200 }	3.62	21558 {2200 }	2.11	21558 {2200 }	0.54	21558 {2200 }
	1200	4.85	21558 {2200 }	4.13	21558 {2200 }	3.39	21558 {2200 }	2.89	21558 {2200 }	1.70	21558 {2200 }	0.45	21558 {2200 }
	1500	4.34	22646 {2311 }	3.70	22646 {2311 }	3.03	22646 {2311 }	2.59	22646 {2311 }	1.52	22646 {2311 }	0.40	22646 {2311 }
	1800	3.82	22646 {2311 }	3.26	22646 {2311 }	2.69	22646 {2311 }	2.30	22646 {2311 }	1.37	22646 {2311 }	0.37	22646 {2311 }
	2400	3.05	22646 {2311 }	2.61	22646 {2311 }	2.16	22646 {2311 }	1.86	22646 {2311 }	1.12	22646 {2311 }	0.31	22646 {2311 }
	3000	2.55	22646 {2311 }	2.20	22646 {2311 }	1.83	22646 {2311 }	1.57	22646 {2311 }	0.95	22646 {2311 }	0.26	22646 {2311 }
	3600	2.25	22646 {2311 }	1.94	22646 {2311 }	1.62	22646 {2311 }	1.39	22646 {2311 }	0.85	22646 {2311 }	0.24	22646 {2311 }

Refer to page 151 for actual reduction ratios.

Size	Nominal Reduction ratio	1750 r/min		1450 r/min		1150 r/min		950 r/min		500 r/min		100 r/min	
		Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}
TD280	100	32.11	15895 {1622}	29.72	17623 {1798}	26.54	19613 {2001}	23.28	20629 {2105}	15.36	24854 {2536}	3.46	24854 {2536}
	150	23.75	17137 {1749}	21.35	18392 {1877}	18.78	20132 {2054}	16.50	21126 {2156}	10.73	24854 {2536}	2.48	24854 {2536}
	200	18.79	17646 {1801}	17.07	19138 {1953}	14.86	20629 {2105}	13.05	21623 {2206}	8.37	24854 {2536}	1.96	24854 {2536}
	250	14.72	16901 {1725}	13.65	18641 {1902}	12.36	20877 {2130}	10.87	21872 {2232}	6.94	24854 {2536}	1.65	24854 {2536}
	300	18.59	25900 {2643}	16.12	26798 {2734}	13.56	27947 {2852}	11.65	28664 {2925}	6.49	28664 {2925}	1.53	28664 {2925}
	450	14.28	27860 {2843}	12.37	28664 {2925}	10.01	28664 {2925}	8.41	28664 {2925}	4.73	28664 {2925}	1.15	28664 {2925}
	600	11.38	28664 {2925}	9.58	28664 {2925}	7.78	28664 {2925}	6.55	28664 {2925}	3.73	28664 {2925}	0.91	28664 {2925}
	750	9.35	28664 {2925}	7.91	28664 {2925}	6.43	28664 {2925}	5.43	28664 {2925}	3.11	28664 {2925}	0.77	28664 {2925}
	900	8.12	28664 {2925}	6.87	28664 {2925}	5.61	28664 {2925}	4.76	28664 {2925}	2.75	28664 {2925}	0.71	28664 {2925}
	1200	6.39	28664 {2925}	5.43	28664 {2925}	4.45	28664 {2925}	3.79	28664 {2925}	2.22	28664 {2925}	0.58	28664 {2925}
	1500	5.74	30110 {3072}	4.88	30110 {3072}	4.00	30110 {3072}	3.40	30110 {3072}	1.99	30110 {3072}	0.52	30110 {3072}
	1800	5.01	30110 {3072}	4.27	30110 {3072}	3.52	30110 {3072}	3.00	30110 {3072}	1.78	30110 {3072}	0.48	30110 {3072}
	2400	3.99	30110 {3072}	3.41	30110 {3072}	2.82	30110 {3072}	2.41	30110 {3072}	1.45	30110 {3072}	0.40	30110 {3072}
	3000	3.36	30110 {3072}	2.89	30110 {3072}	2.39	30110 {3072}	2.05	30110 {3072}	1.25	30110 {3072}	0.35	30110 {3072}
	3600	2.92	30110 {3072}	2.51	30110 {3072}	2.09	30110 {3072}	1.80	30110 {3072}	1.10	30110 {3072}	0.31	30110 {3072}
TD315	100	32.13	15957 {1628}	29.82	17738 {1810}	26.51	19679 {2008}	23.16	20584 {2100}	15.27	24821 {2533}	4.19	30270 {3089}
	150	23.82	17261 {1761}	21.35	18465 {1884}	18.84	20281 {2069}	16.48	21189 {2162}	10.93	25427 {2595}	3.00	30270 {3089}
	200	18.61	17557 {1791}	16.96	19070 {1946}	14.76	20584 {2100}	13.10	21794 {2224}	8.73	26032 {2656}	2.37	30270 {3089}
	250	14.70	16951 {1730}	13.68	18767 {1915}	12.31	20886 {2131}	10.93	22097 {2255}	7.31	26335 {2687}	2.00	30270 {3089}
	300	28.16	39325 {4013}	24.69	41146 {4199}	20.89	43159 {4404}	18.00	44420 {4533}	10.03	44420 {4533}	2.37	44420 {4533}
	450	21.64	43006 {4388}	18.82	44420 {4533}	15.20	44420 {4533}	12.79	44420 {4533}	7.20	44420 {4533}	1.74	44420 {4533}
	600	17.28	44420 {4533}	14.57	44420 {4533}	11.83	44420 {4533}	9.97	44420 {4533}	5.66	44420 {4533}	1.39	44420 {4533}
	750	14.23	44420 {4533}	12.03	44420 {4533}	9.78	44420 {4533}	8.25	44420 {4533}	4.72	44420 {4533}	1.18	44420 {4533}
	900	12.33	44420 {4533}	10.45	44420 {4533}	8.53	44420 {4533}	7.23	44420 {4533}	4.19	44420 {4533}	1.08	44420 {4533}
	1200	9.71	44420 {4533}	8.25	44420 {4533}	6.77	44420 {4533}	5.76	44420 {4533}	3.38	44420 {4533}	0.89	44420 {4533}
	1500	8.75	46790 {4774}	7.43	46790 {4774}	6.10	46790 {4774}	5.18	46790 {4774}	3.03	46790 {4774}	0.80	46790 {4774}
	1800	7.63	46790 {4774}	6.50	46790 {4774}	5.35	46790 {4774}	4.57	46790 {4774}	2.71	46790 {4774}	0.74	46790 {4774}
	2400	6.07	46790 {4774}	5.19	46790 {4774}	4.29	46790 {4774}	3.68	46790 {4774}	2.20	46790 {4774}	0.61	46790 {4774}
	3000	5.12	46790 {4774}	4.40	46790 {4774}	3.65	46790 {4774}	3.13	46790 {4774}	1.90	46790 {4774}	0.54	46790 {4774}
	3600	4.45	46790 {4774}	3.83	46790 {4774}	3.18	46790 {4774}	2.74	46790 {4774}	1.64	46790 {4774}	0.47	46790 {4774}

Technical Data

Allowable Loads on Shafts

■ Allowable Radial Load on Output Shaft

Solid Output Shaft (S Type)

N {kgf}

Size	TD125S	TD150S	TD175S	TD200S	TD225S	TD250S	TD280S	TD315S
Allowable radial load	15700 {1602}	21600 {2204}	25500 {2602}	32400 {3306}	37000 {3776}	44000 {4490}	49000 {5000}	60800 {6204}

Hollow Output Shaft (H Type)

N {kgf}

Size	TD125H	TD150H	TD175H	TD200H	TD225H	TD250H	TD280H	TD315H
Allowable radial load	29537 {3014}	25904 {2643}	32614 {3328}	38803 {3960}	45821 {4676}	64558 {6588}	65415 {6675}	127424 {13002}

■ Allowable Axial Load on Output Shaft

Solid Output Shaft (S Type)

N {kgf}

Size	TD125S	TD150S	TD175S	TD200S	TD225S	TD250S	TD280S	TD315S
Allowable axial load	19241 {1963}	16607 {1695}	21034 {2146}	27161 {2772}	24373 {2487}	21906 {2235}	26492 {2703}	30202 {3082}

Hollow Output Shaft (H Type)

N {kgf}

Size	TD125H	TD150H	TD175H	TD200H	TD225H	TD250H	TD280H	TD315H
Allowable axial load	29725 {3033}	26617 {2716}	34255 {3495}	37715 {3848}	40643 {4147}	57163 {5833}	100123 {10217}	108760 {11098}

Actual Reduction Ratio

Size	TD125	TD150	TD175	TD200	TD225	TD250	TD280	TD315
Nominal reduction ratio								
100	102.50	102.50	102.50	102.50	102.50	102.50	102.50	102.50
150	153.75	153.75	153.75	153.75	153.75	153.75	153.75	153.75
200	205.00	205.00	205.00	205.00	205.00	205.00	205.00	205.00
250	256.25	256.25	256.25	256.25	256.25	256.25	256.25	256.25
300	315.00	315.00	325.00	315.00	310.00	310.00	305.00	310.00
450	472.50	472.50	487.50	472.50	465.00	465.00	457.50	465.00
600	630.00	630.00	650.00	630.00	620.00	620.00	610.00	620.00
750	787.50	787.50	812.50	787.50	775.00	775.00	762.50	775.00
900	945.00	945.00	975.00	945.00	930.00	930.00	915.00	930.00
1200	1260.00	1260.00	1300.00	1260.00	1240.00	1240.00	1220.00	1240.00
1500	1575.00	1575.00	1625.00	1575.00	1500.00	1550.00	1525.00	1550.00
1800	1890.00	1890.00	1950.00	1890.00	1800.00	1860.00	1830.00	1860.00
2400	2520.00	2520.00	2600.00	2520.00	2400.00	2480.00	2440.00	2480.00
3000	3150.00	3150.00	3250.00	3150.00	3000.00	3100.00	3050.00	3100.00
3600	3780.00	3780.00	3900.00	3780.00	3600.00	3720.00	3660.00	3720.00

* Refer to page 217 for reduction ratio combinations for double reduction models.

Moment of Inertia on Input Shaft

Solid Output Shaft (S Type)

Moment of inertia on input shaft {GD²} : kg·m² {kgf·m²}

Size Nominal reduction ratio	TD125S	TD150S	TD175S	TD200S	TD225S	TD250S	TD280S	TD315S
100	0.0006 {0.0027}	0.0009 {0.0036}	0.0022 {0.0087}	0.0047 {0.0188}	0.0049 {0.0196}	0.0097 {0.0391}	0.0176 {0.0703}	0.0191 {0.0763}
150	0.0006 {0.0026}	0.0008 {0.0033}	0.0020 {0.0078}	0.0041 {0.0165}	0.0042 {0.0168}	0.0084 {0.0335}	0.0147 {0.0591}	0.0154 {0.0617}
200	0.0006 {0.0023}	0.0007 {0.0029}	0.0018 {0.0072}	0.0036 {0.0141}	0.0036 {0.0143}	0.0069 {0.0275}	0.0117 {0.0470}	0.0121 {0.0485}
250	0.0006 {0.0022}	0.0007 {0.0028}	0.0017 {0.0067}	0.0034 {0.0132}	0.0034 {0.0133}	0.0061 {0.0243}	0.0104 {0.0414}	0.0106 {0.0423}
300	0.0006 {0.0027}	0.0009 {0.0035}	0.0021 {0.0085}	0.0047 {0.0185}	0.0048 {0.0192}	0.0096 {0.0384}	0.0173 {0.0690}	0.0186 {0.0743}
450	0.0006 {0.0026}	0.0008 {0.0032}	0.0020 {0.0077}	0.0041 {0.0164}	0.0042 {0.0166}	0.0083 {0.0332}	0.0146 {0.0585}	0.0152 {0.0609}
600	0.0006 {0.0023}	0.0007 {0.0029}	0.0018 {0.0071}	0.0036 {0.0141}	0.0036 {0.0142}	0.0069 {0.0274}	0.0116 {0.0467}	0.0120 {0.0480}
750	0.0006 {0.0022}	0.0007 {0.0028}	0.0017 {0.0067}	0.0033 {0.0132}	0.0034 {0.0133}	0.0060 {0.0242}	0.0103 {0.0412}	0.0105 {0.0420}
900	0.0006 {0.0024}	0.0008 {0.0030}	0.0018 {0.0073}	0.0038 {0.0151}	0.0038 {0.0152}	0.0075 {0.0299}	0.0131 {0.0521}	0.0132 {0.0527}
1200	0.0006 {0.0023}	0.0007 {0.0028}	0.0017 {0.0068}	0.0033 {0.0134}	0.0033 {0.0134}	0.0064 {0.0256}	0.0108 {0.0431}	0.0109 {0.0435}
1500	0.0006 {0.0022}	0.0007 {0.0028}	0.0017 {0.0067}	0.0033 {0.0132}	0.0034 {0.0133}	0.0060 {0.0242}	0.0103 {0.0412}	0.0105 {0.0420}
1800	0.0006 {0.0024}	0.0008 {0.0030}	0.0018 {0.0073}	0.0038 {0.0151}	0.0038 {0.0152}	0.0075 {0.0299}	0.0130 {0.0521}	0.0132 {0.0527}
2400	0.0006 {0.0023}	0.0007 {0.0028}	0.0017 {0.0068}	0.0034 {0.0134}	0.0034 {0.0134}	0.0066 {0.0256}	0.0110 {0.0431}	0.0114 {0.0435}
3000	0.0006 {0.0022}	0.0007 {0.0027}	0.0016 {0.0065}	0.0032 {0.0127}	0.0032 {0.0128}	0.0057 {0.0230}	0.0098 {0.0391}	0.0098 {0.0393}
3600	0.0006 {0.0022}	0.0006 {0.0025}	0.0016 {0.0062}	0.0031 {0.0123}	0.0031 {0.0123}	0.0056 {0.0223}	0.0091 {0.0365}	0.0092 {0.0367}

Hollow Output Shaft (H Type)

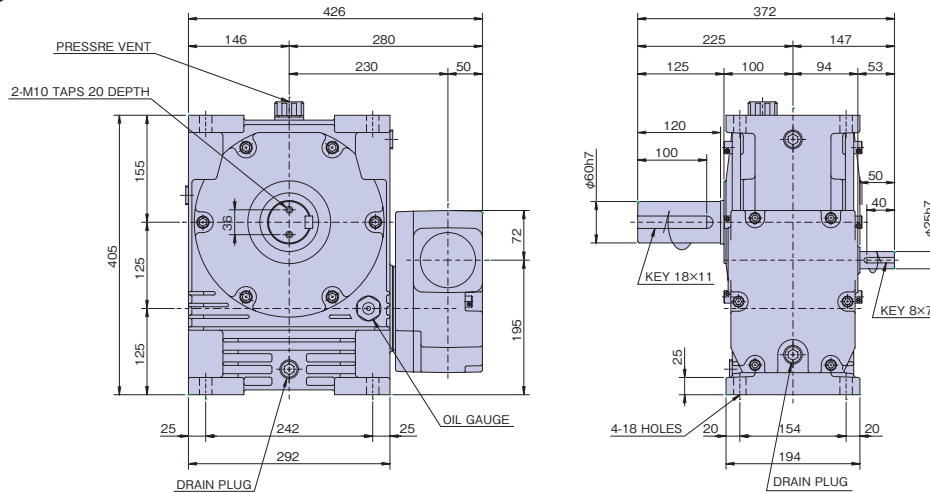
Moment of inertia on input shaft {GD²} : kg·m² {kgf·m²}

Size Nominal reduction ratio	TD125H	TD150H	TD175H	TD200H	TD225H	TD250H	TD280H	TD315H
100	0.0007 {0.0027}	0.0009 {0.0036}	0.0022 {0.0087}	0.0047 {0.0188}	0.0049 {0.0196}	0.0098 {0.0391}	0.0176 {0.0705}	0.0192 {0.0766}
150	0.0006 {0.0026}	0.0008 {0.0033}	0.0020 {0.0078}	0.0041 {0.0165}	0.0042 {0.0168}	0.0084 {0.0335}	0.0148 {0.0592}	0.0154 {0.0619}
200	0.0006 {0.0024}	0.0007 {0.0029}	0.0018 {0.0072}	0.0036 {0.0141}	0.0036 {0.0143}	0.0069 {0.0276}	0.0117 {0.0470}	0.0121 {0.0486}
250	0.0006 {0.0022}	0.0007 {0.0028}	0.0017 {0.0067}	0.0034 {0.0132}	0.0034 {0.0133}	0.0061 {0.0243}	0.0104 {0.0414}	0.0106 {0.0424}
300	0.0006 {0.0027}	0.0009 {0.0035}	0.0021 {0.0085}	0.0047 {0.0185}	0.0048 {0.0192}	0.0096 {0.0384}	0.0173 {0.0690}	0.0186 {0.0743}
450	0.0006 {0.0026}	0.0008 {0.0032}	0.0020 {0.0077}	0.0041 {0.0164}	0.0042 {0.0166}	0.0083 {0.0332}	0.0146 {0.0585}	0.0152 {0.0609}
600	0.0006 {0.0023}	0.0007 {0.0029}	0.0018 {0.0071}	0.0036 {0.0141}	0.0036 {0.0142}	0.0069 {0.0274}	0.0116 {0.0467}	0.0120 {0.0480}
750	0.0006 {0.0022}	0.0007 {0.0028}	0.0017 {0.0067}	0.0033 {0.0132}	0.0034 {0.0133}	0.0060 {0.0242}	0.0103 {0.0412}	0.0105 {0.0420}
900	0.0006 {0.0024}	0.0008 {0.0030}	0.0018 {0.0073}	0.0038 {0.0151}	0.0038 {0.0152}	0.0075 {0.0299}	0.0131 {0.0521}	0.0132 {0.0527}
1200	0.0006 {0.0023}	0.0007 {0.0028}	0.0017 {0.0068}	0.0033 {0.0134}	0.0033 {0.0134}	0.0064 {0.0256}	0.0108 {0.0431}	0.0109 {0.0435}
1500	0.0006 {0.0022}	0.0007 {0.0028}	0.0017 {0.0067}	0.0033 {0.0132}	0.0034 {0.0133}	0.0060 {0.0242}	0.0103 {0.0412}	0.0105 {0.0420}
1800	0.0006 {0.0024}	0.0008 {0.0030}	0.0018 {0.0073}	0.0038 {0.0151}	0.0038 {0.0152}	0.0075 {0.0299}	0.0130 {0.0521}	0.0132 {0.0527}
2400	0.0006 {0.0023}	0.0007 {0.0028}	0.0017 {0.0068}	0.0034 {0.0134}	0.0034 {0.0134}	0.0066 {0.0256}	0.0110 {0.0431}	0.0114 {0.0435}
3000	0.0006 {0.0022}	0.0007 {0.0027}	0.0016 {0.0065}	0.0032 {0.0127}	0.0032 {0.0128}	0.0057 {0.0230}	0.0098 {0.0391}	0.0098 {0.0393}
3600	0.0006 {0.0022}	0.0006 {0.0025}	0.0016 {0.0062}	0.0031 {0.0123}	0.0031 {0.0123}	0.0056 {0.0223}	0.0091 {0.0365}	0.0092 {0.0367}

Dimensional Drawings TD125S

TD125S□□B

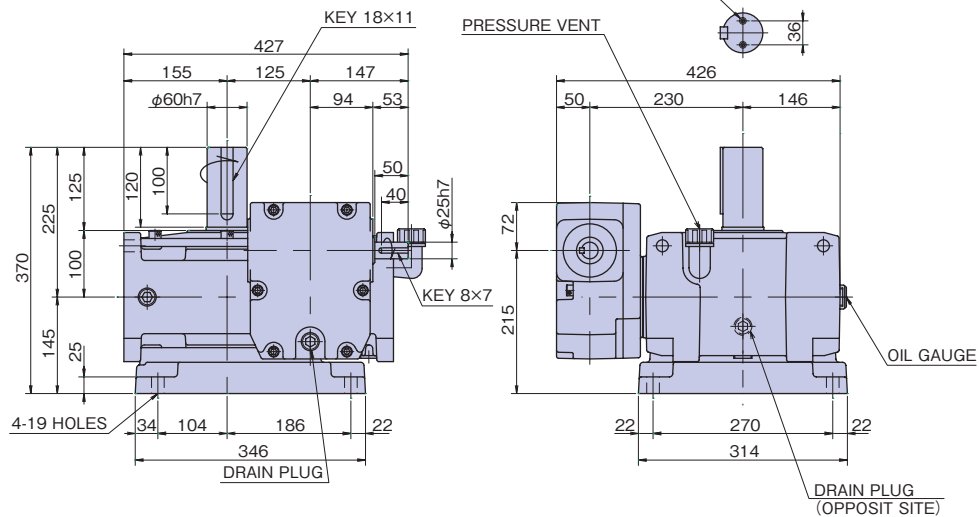
[BR-L]



Estimated mass 98 kg

TD125S□□V

[VR-LU] 2-M10 TAPS 20 DEPTH



Estimated mass 109 kg

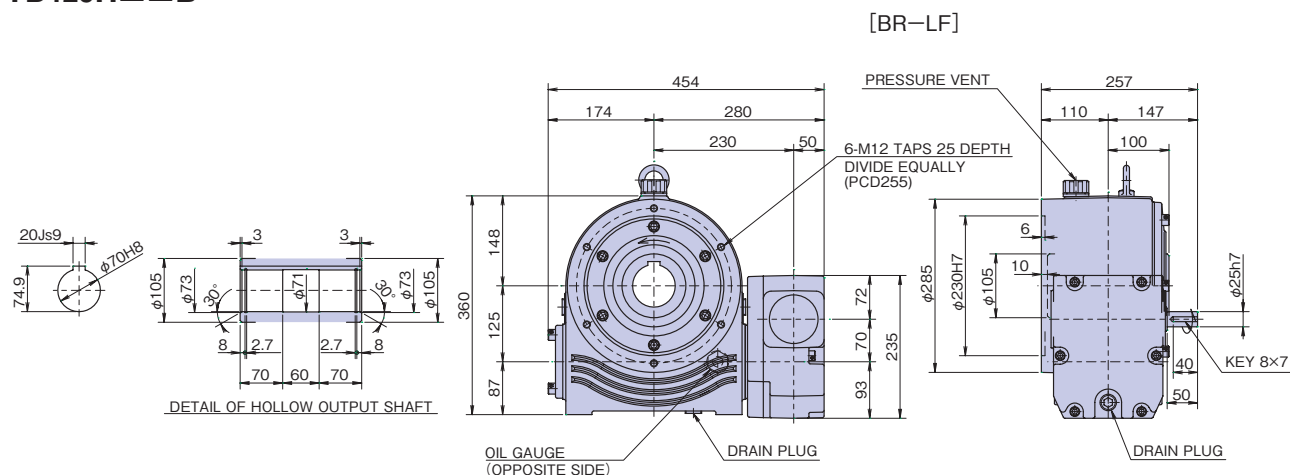
* Refer to page 122 for shaft arrangements and relative direction of rotation.

Transfer Capacity Table Refer to page 151 for actual reduction ratios.

Size	Input	1750 r/min		1450 r/min		1150 r/min		950 r/min		500 r/min		100 r/min	
	Reduction ratio	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}
TD125S	100	4.04	1900 {194}	3.76	2107 {215}	3.39	2354 {240}	3.06	2537 {259}	1.77	2644 {270}	0.38	2511 {256}
	150	3.02	2034 {208}	2.81	2244 {229}	2.54	2511 {256}	2.28	2671 {273}	1.28	2671 {273}	0.29	2644 {270}
	200	2.41	2083 {213}	2.24	2297 {234}	1.99	2511 {256}	1.78	2671 {273}	1.01	2671 {273}	0.23	2564 {262}
	250	1.99	2083 {213}	1.83	2270 {232}	1.63	2484 {253}	1.47	2644 {270}	0.83	2618 {267}	0.19	2484 {253}
	300	2.88	3668 {374}	2.49	3759 {384}	2.09	3875 {395}	1.76	3889 {397}	1.00	3889 {397}	0.24	3889 {397}
	450	2.15	3866 {394}	1.83	3889 {397}	1.49	3889 {397}	1.27	3889 {397}	0.73	3889 {397}	0.18	3889 {397}
	600	1.69	3889 {397}	1.44	3889 {397}	1.18	3889 {397}	1.00	3889 {397}	0.58	3889 {397}	0.14	3889 {397}
	750	1.41	3889 {397}	1.20	3889 {397}	0.99	3889 {397}	0.84	3889 {397}	0.49	3889 {397}	0.12	3889 {397}
	900	1.26	3889 {397}	1.07	3889 {397}	0.89	3889 {397}	0.76	3889 {397}	0.45	3889 {397}	0.12	3889 {397}
	1200	1.01	3889 {397}	0.87	3889 {397}	0.72	3889 {397}	0.62	3889 {397}	0.37	3889 {397}	0.10	3889 {397}
	1500	0.86	3889 {397}	0.74	3889 {397}	0.61	3889 {397}	0.52	3889 {397}	0.31	3889 {397}	0.08	3889 {397}
	1800	0.77	3889 {397}	0.67	3889 {397}	0.56	3889 {397}	0.48	3889 {397}	0.29	3889 {397}	0.08	3889 {397}
	2400	0.63	3889 {397}	0.54	3889 {397}	0.45	3889 {397}	0.39	3889 {397}	0.24	3889 {397}	0.07	3889 {397}
	3000	0.54	3889 {397}	0.47	3889 {397}	0.39	3889 {397}	0.34	3889 {397}	0.21	3889 {397}	0.06	3889 {397}
	3600	0.48	3889 {397}	0.41	3889 {397}	0.35	3889 {397}	0.30	3889 {397}	0.19	3889 {397}	0.05	3889 {397}

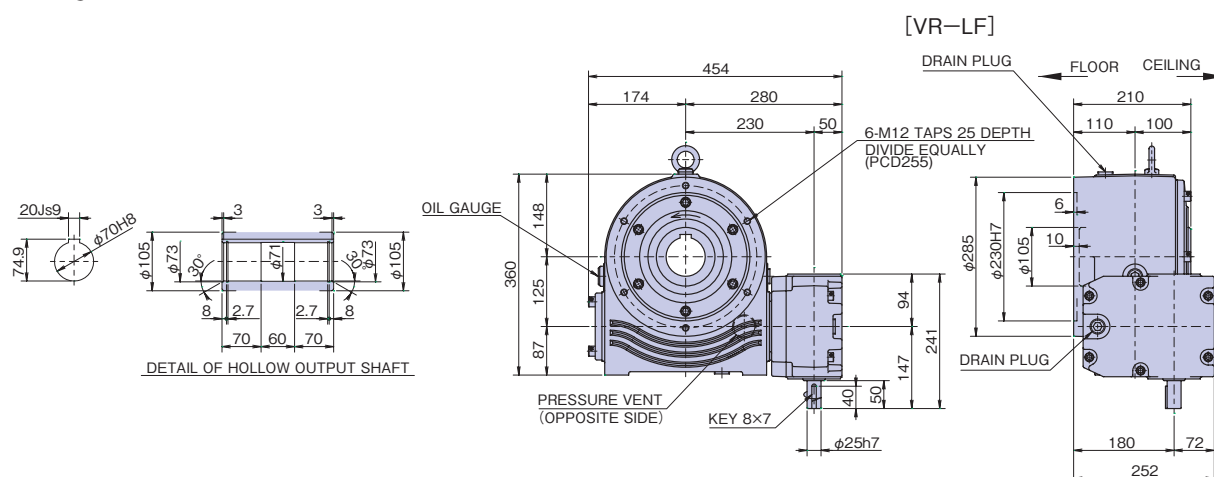
Dimensional Drawings TD125H

TD125H□□B



Estimated mass 89 kg

TD125H□□V



Estimated mass 90 kg

* Refer to page 122 for shaft arrangements and relative direction of rotation.

Transfer Capacity Table

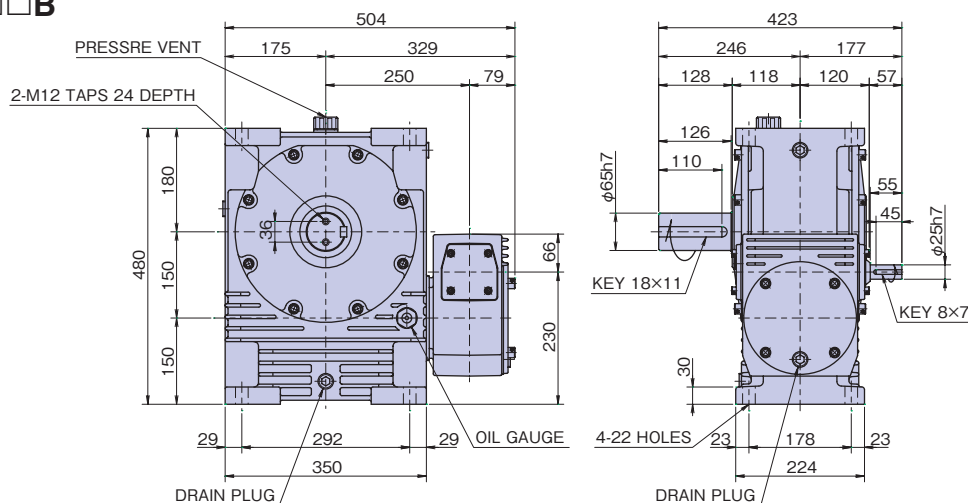
Refer to page 151 for actual reduction ratios.

Size	Input Reduction ratio	1750 r/min		1450 r/min		1150 r/min		950 r/min		500 r/min		100 r/min	
		Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}
TD125H	100	4.04	1900 {194}	3.76	2107 {215}	3.39	2354 {240}	3.06	2537 {259}	1.77	2644 {270}	0.38	2511 {256}
	150	3.02	2034 {208}	2.81	2244 {229}	2.54	2511 {256}	2.28	2671 {273}	1.28	2671 {273}	0.29	2644 {270}
	200	2.41	2083 {213}	2.24	2297 {234}	1.99	2511 {256}	1.78	2671 {273}	1.01	2671 {273}	0.23	2564 {262}
	250	1.99	2083 {213}	1.83	2270 {232}	1.63	2484 {253}	1.47	2644 {270}	0.83	2618 {267}	0.19	2484 {253}
	300	2.88	3668 {374}	2.49	3759 {384}	2.09	3875 {395}	1.76	3889 {397}	1.00	3889 {397}	0.24	3889 {397}
	450	2.15	3866 {394}	1.83	3889 {397}	1.49	3889 {397}	1.27	3889 {397}	0.73	3889 {397}	0.18	3889 {397}
	600	1.69	3889 {397}	1.44	3889 {397}	1.18	3889 {397}	1.00	3889 {397}	0.58	3889 {397}	0.14	3889 {397}
	750	1.41	3889 {397}	1.20	3889 {397}	0.99	3889 {397}	0.84	3889 {397}	0.49	3889 {397}	0.12	3889 {397}
	900	1.26	3889 {397}	1.07	3889 {397}	0.89	3889 {397}	0.76	3889 {397}	0.45	3889 {397}	0.12	3889 {397}
	1200	1.01	3889 {397}	0.87	3889 {397}	0.72	3889 {397}	0.62	3889 {397}	0.37	3889 {397}	0.10	3889 {397}
	1500	0.86	3889 {397}	0.74	3889 {397}	0.61	3889 {397}	0.52	3889 {397}	0.31	3889 {397}	0.08	3889 {397}
	1800	0.77	3889 {397}	0.67	3889 {397}	0.56	3889 {397}	0.48	3889 {397}	0.29	3889 {397}	0.08	3889 {397}
	2400	0.63	3889 {397}	0.54	3889 {397}	0.45	3889 {397}	0.39	3889 {397}	0.24	3889 {397}	0.07	3889 {397}
	3000	0.54	3889 {397}	0.47	3889 {397}	0.39	3889 {397}	0.34	3889 {397}	0.21	3889 {397}	0.06	3889 {397}
	3600	0.48	3889 {397}	0.41	3889 {397}	0.35	3889 {397}	0.30	3889 {397}	0.19	3889 {397}	0.05	3889 {397}

Dimensional Drawings TD150S

TD150S□□B

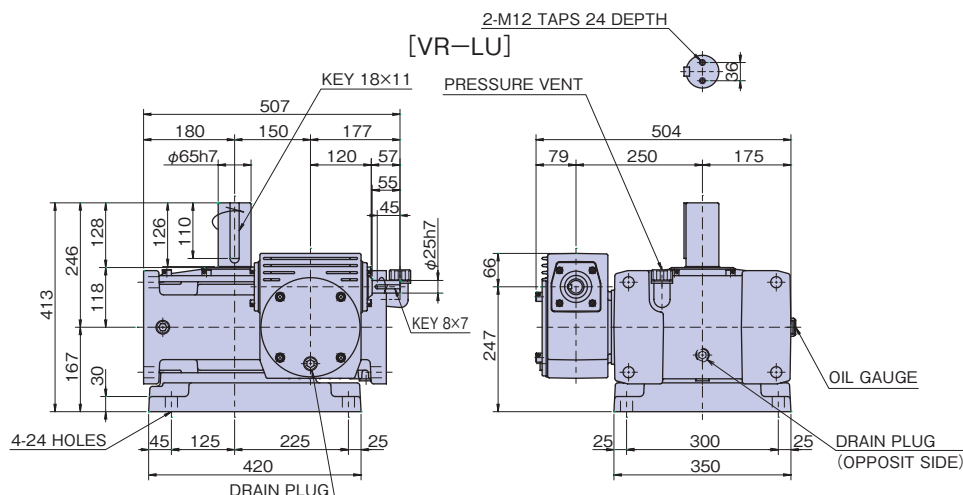
[BR-L]



Estimated mass 154 kg

TD150S□□V

[VR-LU]



Estimated mass 182 kg

* Refer to page 122 for shaft arrangements and relative direction of rotation.

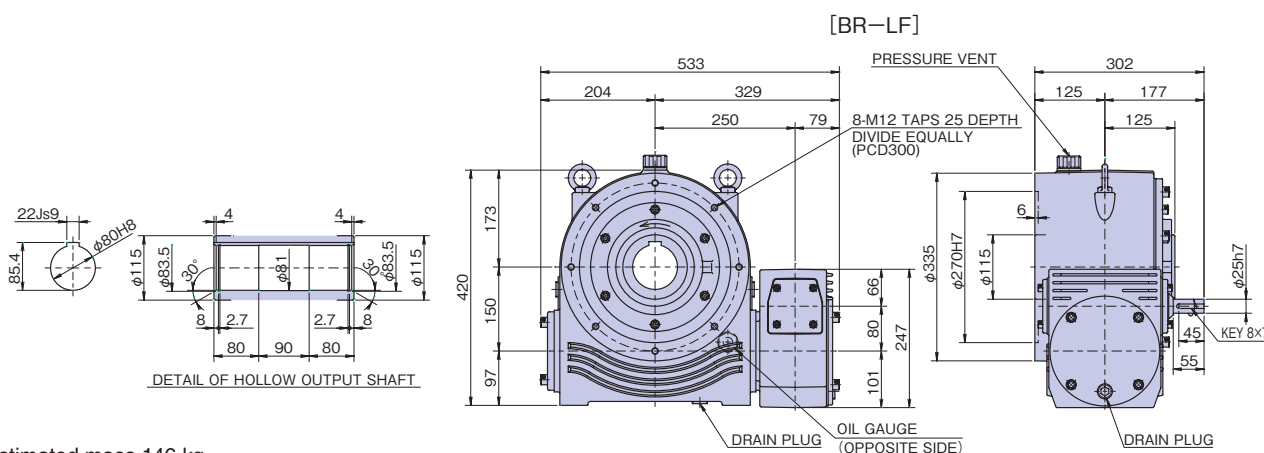
Transfer Capacity Table

Refer to page 151 for actual reduction ratios.

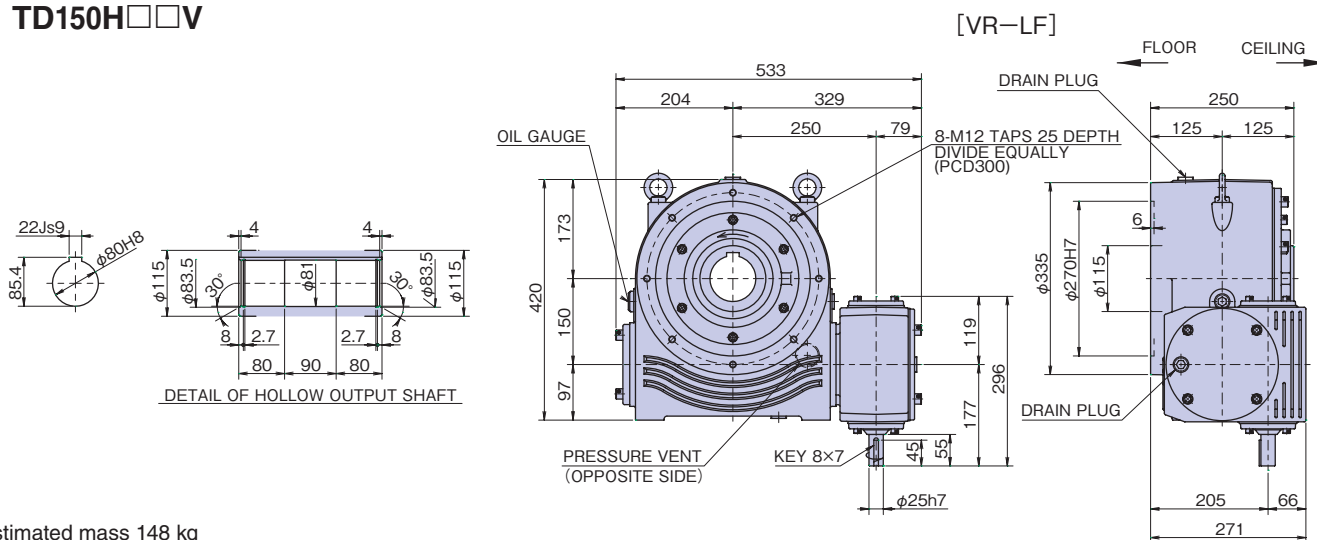
Size	Input Reduction ratio	1750 r/min		1450 r/min		1150 r/min		950 r/min		500 r/min		100 r/min	
		Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}
TD150S	100	5.63	2688 {274}	5.29	3014 {308}	4.76	3362 {343}	4.15	3500 {357}	2.61	3986 {407}	0.56	3792 {387}
	150	4.26	2926 {299}	3.87	3160 {322}	3.42	3451 {352}	2.99	3597 {367}	1.94	4180 {427}	0.43	3986 {407}
	200	3.41	3014 {308}	3.11	3257 {332}	2.71	3500 {357}	2.41	3694 {377}	1.50	4083 {417}	0.34	3937 {402}
	250	2.81	3014 {308}	2.60	3305 {337}	2.27	3549 {362}	2.02	3743 {382}	1.20	3937 {402}	0.27	3792 {387}
	300	4.31	5601 {572}	3.72	5733 {585}	3.10	5899 {602}	2.66	6002 {612}	1.50	6002 {612}	0.36	6002 {612}
	450	3.18	5887 {601}	2.75	6002 {612}	2.24	6002 {612}	1.89	6002 {612}	1.08	6002 {612}	0.26	6002 {612}
	600	2.54	6002 {612}	2.16	6002 {612}	1.77	6002 {612}	1.50	6002 {612}	0.86	6002 {612}	0.21	6002 {612}
	750	2.11	6002 {612}	1.80	6002 {612}	1.47	6002 {612}	1.25	6002 {612}	0.72	6002 {612}	0.18	6002 {612}
	900	1.86	6002 {612}	1.59	6002 {612}	1.31	6002 {612}	1.12	6002 {612}	0.66	6002 {612}	0.17	6002 {612}
	1200	1.50	6002 {612}	1.28	6002 {612}	1.06	6002 {612}	0.91	6002 {612}	0.54	6002 {612}	0.14	6002 {612}
	1500	1.32	6166 {629}	1.13	6166 {629}	0.93	6166 {629}	0.80	6166 {629}	0.47	6166 {629}	0.12	6166 {629}
	1800	1.17	6166 {629}	1.01	6166 {629}	0.84	6166 {629}	0.72	6166 {629}	0.43	6166 {629}	0.12	6166 {629}
	2400	0.95	6166 {629}	0.82	6166 {629}	0.68	6166 {629}	0.59	6166 {629}	0.36	6166 {629}	0.10	6166 {629}
	3000	0.81	6166 {629}	0.70	6166 {629}	0.59	6166 {629}	0.51	6166 {629}	0.31	6166 {629}	0.09	6166 {629}
	3600	0.71	6166 {629}	0.62	6166 {629}	0.52	6166 {629}	0.45	6166 {629}	0.28	6166 {629}	0.08	6166 {629}

Dimensional Drawings TD150H

TD150H□□B



TD150H□□V



* Refer to page 122 for shaft arrangements and relative direction of rotation.

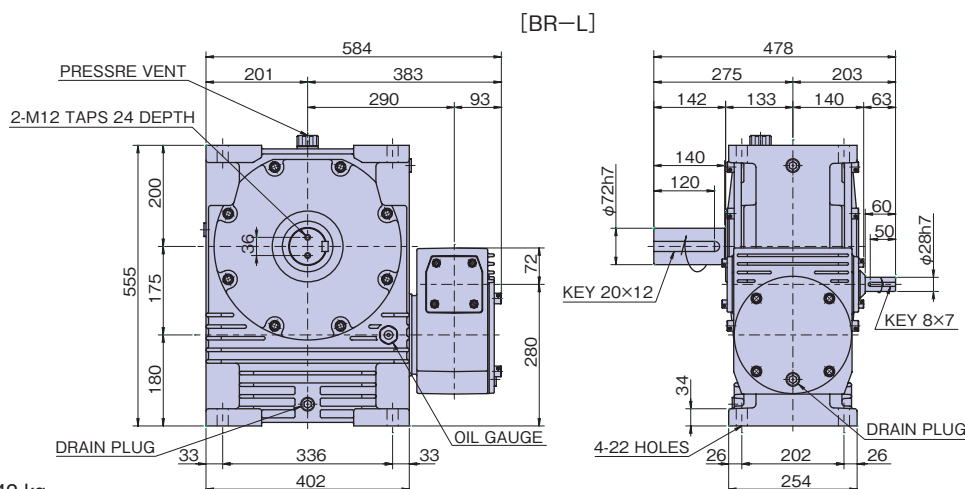
Transfer Capacity Table

Refer to page 151 for actual reduction ratios.

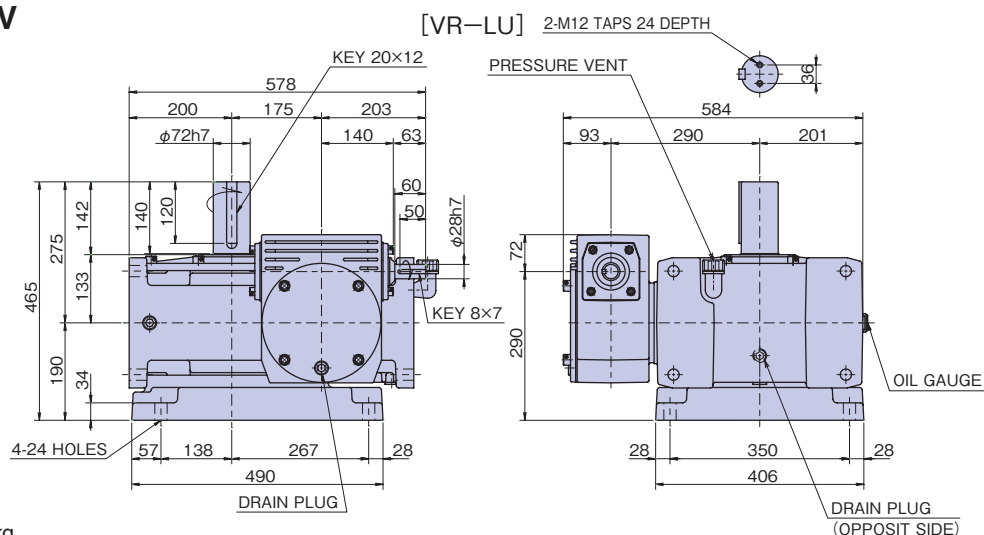
Size	Input Reduction ratio	1750 r/min		1450 r/min		1150 r/min		950 r/min		500 r/min		100 r/min	
		Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}
TD150H	100	5.63	2688 {274}	5.29	3014 {308}	4.76	3362 {343}	4.15	3500 {357}	2.61	3986 {407}	0.56	3792 {387}
	150	4.26	2926 {299}	3.87	3160 {322}	3.42	3451 {352}	2.99	3597 {367}	1.94	4180 {427}	0.43	3986 {407}
	200	3.41	3014 {308}	3.11	3257 {332}	2.71	3500 {357}	2.41	3694 {377}	1.50	4083 {417}	0.34	3937 {402}
	250	2.81	3014 {308}	2.60	3305 {337}	2.27	3549 {362}	2.02	3743 {382}	1.20	3937 {402}	0.27	3792 {387}
	300	4.31	5601 {572}	3.72	5733 {585}	3.10	5899 {602}	2.66	6002 {612}	1.50	6002 {612}	0.36	6002 {612}
	450	3.18	5887 {601}	2.75	6002 {612}	2.24	6002 {612}	1.89	6002 {612}	1.08	6002 {612}	0.26	6002 {612}
	600	2.54	6002 {612}	2.16	6002 {612}	1.77	6002 {612}	1.50	6002 {612}	0.86	6002 {612}	0.21	6002 {612}
	750	2.11	6002 {612}	1.80	6002 {612}	1.47	6002 {612}	1.25	6002 {612}	0.72	6002 {612}	0.18	6002 {612}
	900	1.86	6002 {612}	1.59	6002 {612}	1.31	6002 {612}	1.12	6002 {612}	0.66	6002 {612}	0.17	6002 {612}
	1200	1.50	6002 {612}	1.28	6002 {612}	1.06	6002 {612}	0.91	6002 {612}	0.54	6002 {612}	0.14	6002 {612}
	1500	1.32	6166 {629}	1.13	6166 {629}	0.93	6166 {629}	0.80	6166 {629}	0.47	6166 {629}	0.12	6166 {629}
	1800	1.17	6166 {629}	1.01	6166 {629}	0.84	6166 {629}	0.72	6166 {629}	0.43	6166 {629}	0.12	6166 {629}
	2400	0.95	6166 {629}	0.82	6166 {629}	0.68	6166 {629}	0.59	6166 {629}	0.36	6166 {629}	0.10	6166 {629}
	3000	0.81	6166 {629}	0.70	6166 {629}	0.59	6166 {629}	0.51	6166 {629}	0.31	6166 {629}	0.09	6166 {629}
	3600	0.71	6166 {629}	0.62	6166 {629}	0.52	6166 {629}	0.45	6166 {629}	0.28	6166 {629}	0.08	6166 {629}

Dimensional Drawings TD175S

TD175S□□B



TD175S□□V



* Refer to page 122 for shaft arrangements and relative direction of rotation.

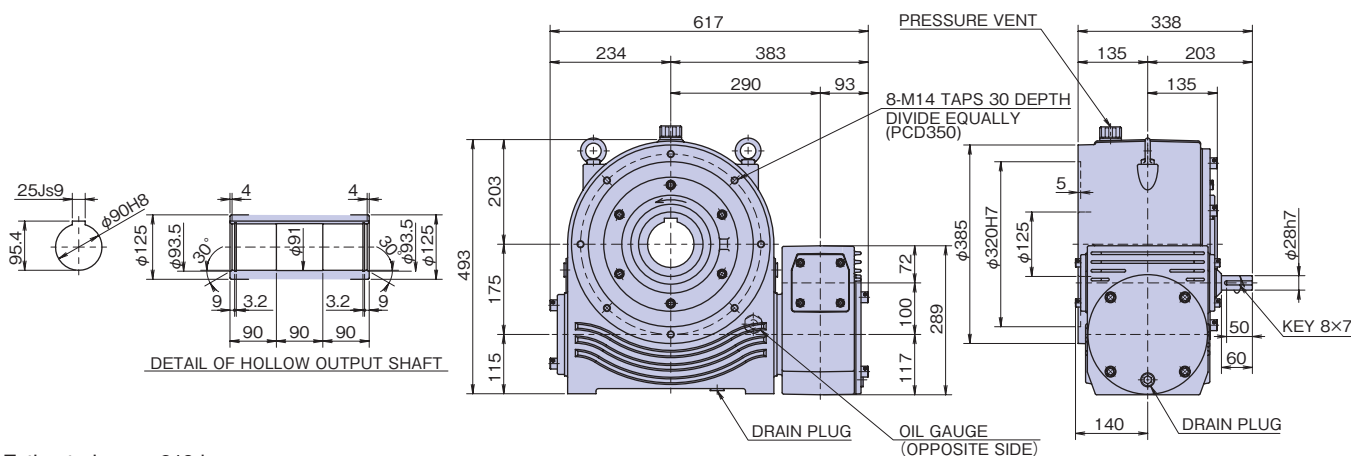
Transfer Capacity Table Refer to page 151 for actual reduction ratios.

Size	Input	1750 r/min		1450 r/min		1150 r/min		950 r/min		500 r/min		100 r/min	
	Reduction ratio	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}
TD175S	100	9.36	4524 { 462}	8.52	4917 { 502}	7.88	5657 { 577}	6.96	5978 { 610}	4.58	7143 { 729}	0.99	6832 { 697}
	150	6.99	4883 { 498}	6.44	5357 { 547}	5.72	5901 { 602}	4.99	6134 { 626}	3.34	7376 { 753}	0.75	7221 { 737}
	200	5.51	4969 { 507}	5.08	5435 { 555}	4.53	5978 { 610}	4.00	6289 { 642}	2.66	7453 { 761}	0.61	7221 { 737}
	250	4.45	4891 { 499}	4.23	5512 { 562}	3.78	6056 { 618}	3.35	6366 { 650}	2.12	7143 { 729}	0.48	6832 { 697}
	300	5.91	7903 { 806}	4.97	7903 { 806}	4.02	7903 { 806}	3.38	7903 { 806}	1.90	7903 { 806}	0.45	7903 { 806}
	450	4.00	7903 { 806}	3.38	7903 { 806}	2.74	7903 { 806}	2.32	7903 { 806}	1.31	7903 { 806}	0.32	7903 { 806}
	600	3.13	7903 { 806}	2.65	7903 { 806}	2.16	7903 { 806}	1.83	7903 { 806}	1.05	7903 { 806}	0.26	7903 { 806}
	750	2.58	7903 { 806}	2.19	7903 { 806}	1.79	7903 { 806}	1.52	7903 { 806}	0.87	7903 { 806}	0.22	7903 { 806}
	900	2.26	7903 { 806}	1.92	7903 { 806}	1.58	7903 { 806}	1.34	7903 { 806}	0.78	7903 { 806}	0.20	7903 { 806}
	1200	1.81	7903 { 806}	1.55	7903 { 806}	1.28	7903 { 806}	1.09	7903 { 806}	0.65	7903 { 806}	0.17	7903 { 806}
	1500	1.54	7903 { 806}	1.32	7903 { 806}	1.09	7903 { 806}	0.93	7903 { 806}	0.55	7903 { 806}	0.14	7903 { 806}
	1800	1.36	7903 { 806}	1.16	7903 { 806}	0.96	7903 { 806}	0.82	7903 { 806}	0.49	7903 { 806}	0.13	7903 { 806}
	2400	1.10	7903 { 806}	0.95	7903 { 806}	0.79	7903 { 806}	0.68	7903 { 806}	0.41	7903 { 806}	0.11	7903 { 806}
	3000	0.93	7903 { 806}	0.80	7903 { 806}	0.67	7903 { 806}	0.58	7903 { 806}	0.35	7903 { 806}	0.10	7903 { 806}
	3600	0.82	7903 { 806}	0.71	7903 { 806}	0.59	7903 { 806}	0.51	7903 { 806}	0.31	7903 { 806}	0.09	7903 { 806}

Dimensional Drawings TD175H

TD175H□□B

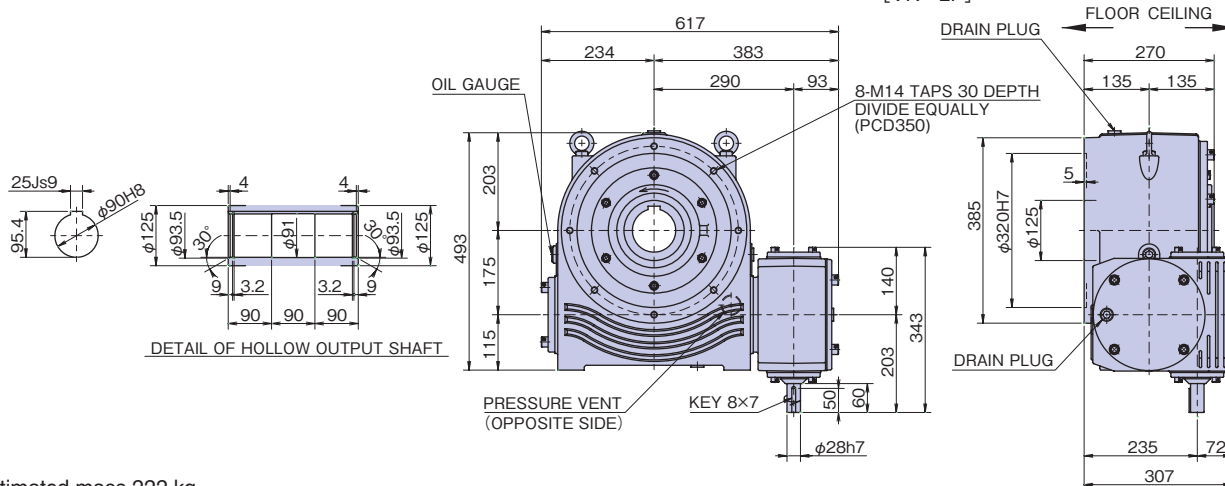
[BR-LF]



Estimated mass 219 kg

TD175H□□V

[VR-LF]



Estimated mass 222 kg

* Refer to page 122 for shaft arrangements and relative direction of rotation.

Transfer Capacity Table

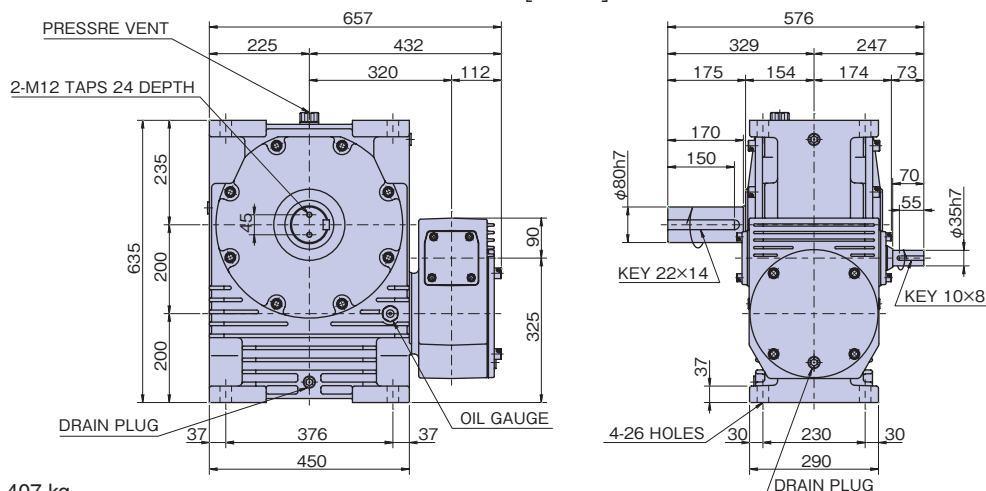
Refer to page 151 for actual reduction ratios.

Size	Input	1750 r/min		1450 r/min		1150 r/min		950 r/min		500 r/min		100 r/min	
	Reduction ratio	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}
TD175H	100	9.36	4524 { 462}	8.52	4917 { 502}	7.88	5657 { 577}	6.96	5978 { 610}	4.58	7143 { 729}	0.99	6832 { 697}
	150	6.99	4883 { 498}	6.44	5357 { 547}	5.72	5901 { 602}	4.99	6134 { 626}	3.34	7376 { 753}	0.75	7221 { 737}
	200	5.51	4969 { 507}	5.08	5435 { 555}	4.53	5978 { 610}	4.00	6289 { 642}	2.66	7453 { 761}	0.61	7221 { 737}
	250	4.45	4891 { 499}	4.23	5512 { 562}	3.78	6056 { 618}	3.35	6366 { 650}	2.12	7143 { 729}	0.48	6832 { 697}
	300	5.91	7903 { 806}	4.97	7903 { 806}	4.02	7903 { 806}	3.38	7903 { 806}	1.90	7903 { 806}	0.45	7903 { 806}
	450	4.00	7903 { 806}	3.38	7903 { 806}	2.74	7903 { 806}	2.32	7903 { 806}	1.31	7903 { 806}	0.32	7903 { 806}
	600	3.13	7903 { 806}	2.65	7903 { 806}	2.16	7903 { 806}	1.83	7903 { 806}	1.05	7903 { 806}	0.26	7903 { 806}
	750	2.58	7903 { 806}	2.19	7903 { 806}	1.79	7903 { 806}	1.52	7903 { 806}	0.87	7903 { 806}	0.22	7903 { 806}
	900	2.26	7903 { 806}	1.92	7903 { 806}	1.58	7903 { 806}	1.34	7903 { 806}	0.78	7903 { 806}	0.20	7903 { 806}
	1200	1.81	7903 { 806}	1.55	7903 { 806}	1.28	7903 { 806}	1.09	7903 { 806}	0.65	7903 { 806}	0.17	7903 { 806}
	1500	1.54	7903 { 806}	1.32	7903 { 806}	1.09	7903 { 806}	0.93	7903 { 806}	0.55	7903 { 806}	0.14	7903 { 806}
	1800	1.36	7903 { 806}	1.16	7903 { 806}	0.96	7903 { 806}	0.82	7903 { 806}	0.49	7903 { 806}	0.13	7903 { 806}
	2400	1.10	7903 { 806}	0.95	7903 { 806}	0.79	7903 { 806}	0.68	7903 { 806}	0.41	7903 { 806}	0.11	7903 { 806}
	3000	0.93	7903 { 806}	0.80	7903 { 806}	0.67	7903 { 806}	0.58	7903 { 806}	0.35	7903 { 806}	0.10	7903 { 806}
	3600	0.82	7903 { 806}	0.71	7903 { 806}	0.59	7903 { 806}	0.51	7903 { 806}	0.31	7903 { 806}	0.09	7903 { 806}

Dimensional Drawings TD200S

TD200S□□B

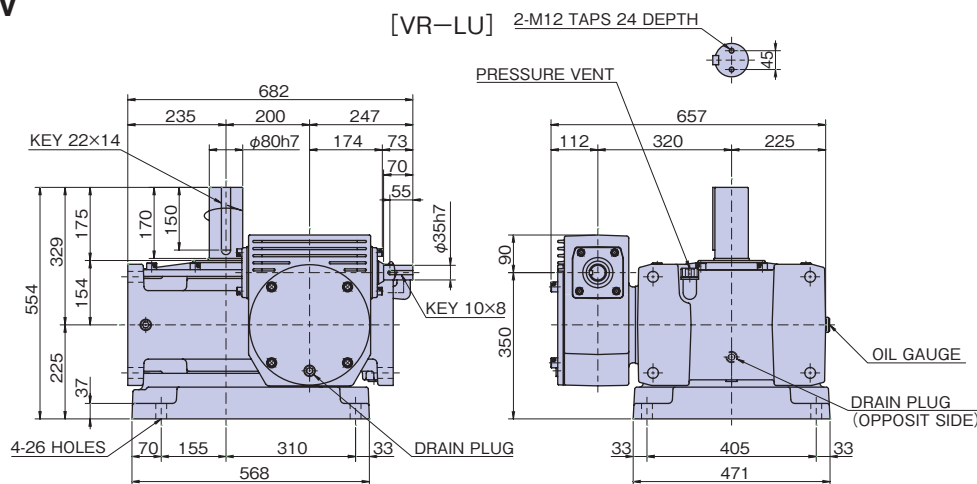
[BR-L]



Estimated mass 407 kg

TD200S□□V

[VR-LU]



Estimated mass 462 kg

* Refer to page 122 for shaft arrangements and relative direction of rotation.

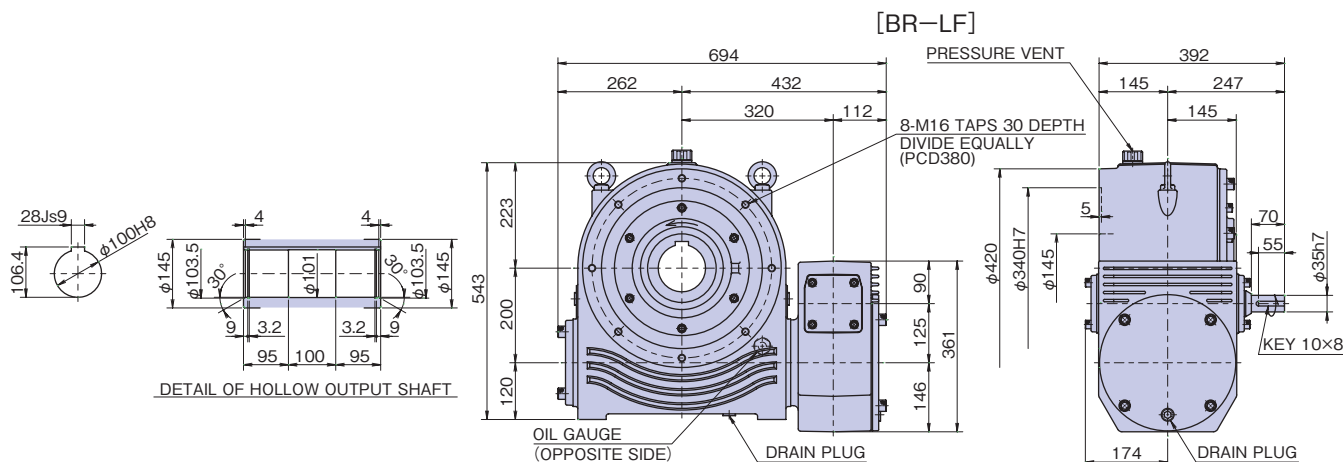
Transfer Capacity Table

Refer to page 151 for actual reduction ratios.

Size	Input	1750 r/min		1450 r/min		1150 r/min		950 r/min		500 r/min		100 r/min	
	Reduction ratio	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}
TD200S	100	15.33	7462 { 761 }	14.23	8285 { 845 }	12.79	9271 { 946 }	11.90	10314 {1052}	6.54	10314 {1052}	1.48	10314 {1052}
	150	11.38	8036 { 820 }	10.66	8973 { 916 }	9.58	10005 {1021}	8.28	10314 {1052}	4.60	10314 {1052}	1.07	10314 {1052}
	200	9.00	8251 { 842 }	8.32	9076 { 926 }	7.57	10211 {1042}	6.42	10314 {1052}	3.59	10314 {1052}	0.84	10314 {1052}
	250	7.41	8251 { 842 }	6.70	8870 { 905 }	6.32	10314 {1052}	5.32	10314 {1052}	3.00	10314 {1052}	0.72	10314 {1052}
	300	8.31	11138 {1137}	6.98	11138 {1137}	5.66	11138 {1137}	4.75	11138 {1137}	2.67	11138 {1137}	0.64	11138 {1137}
	450	5.80	11138 {1137}	4.89	11138 {1137}	3.97	11138 {1137}	3.35	11138 {1137}	1.90	11138 {1137}	0.47	11138 {1137}
	600	4.50	11138 {1137}	3.81	11138 {1137}	3.01	11138 {1137}	2.62	11138 {1137}	1.50	11138 {1137}	0.37	11138 {1137}
	750	3.73	11138 {1137}	3.16	11138 {1137}	2.59	11138 {1137}	2.19	11138 {1137}	1.26	11138 {1137}	0.32	11138 {1137}
	900	3.25	11138 {1137}	2.77	11138 {1137}	2.27	11138 {1137}	1.93	11138 {1137}	1.13	11138 {1137}	0.29	11138 {1137}
	1200	2.58	11138 {1137}	2.20	11138 {1137}	1.81	11138 {1137}	1.55	11138 {1137}	0.91	11138 {1137}	0.24	11138 {1137}
	1500	2.24	11138 {1137}	1.91	11138 {1137}	1.58	11138 {1137}	1.35	11138 {1137}	0.79	11138 {1137}	0.21	11138 {1137}
	1800	1.97	11138 {1137}	1.68	11138 {1137}	1.39	11138 {1137}	1.19	11138 {1137}	0.71	11138 {1137}	0.19	11138 {1137}
	2400	1.57	11138 {1137}	1.35	11138 {1137}	1.12	11138 {1137}	0.97	11138 {1137}	0.58	11138 {1137}	0.16	11138 {1137}
	3000	1.34	11138 {1137}	1.16	11138 {1137}	0.97	11138 {1137}	0.83	11138 {1137}	0.51	11138 {1137}	0.14	11138 {1137}
	3600	1.18	11138 {1137}	1.02	11138 {1137}	0.85	11138 {1137}	0.74	11138 {1137}	0.45	11138 {1137}	0.13	11138 {1137}

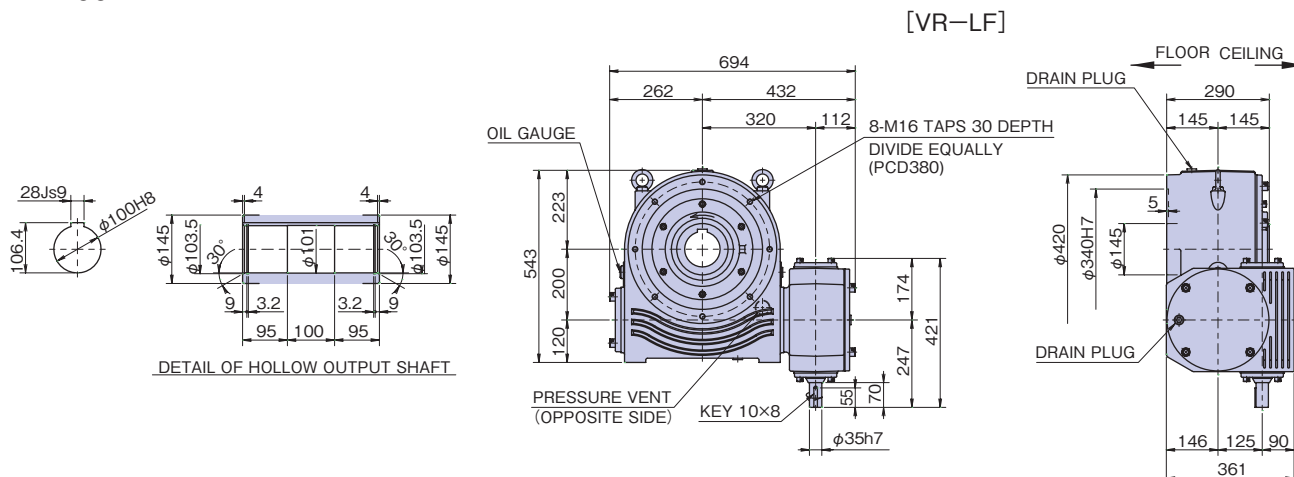
Dimensional Drawings TD200H

TD200H□□B



Estimated mass 327 kg

TD200H□□V



Estimated mass 330 kg

* Refer to page 122 for shaft arrangements and relative direction of rotation.

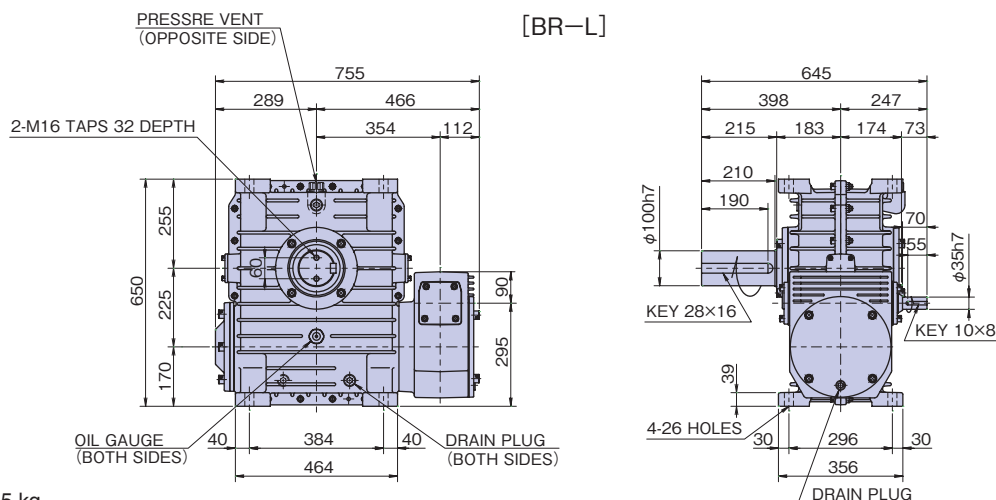
Transfer Capacity Table

Refer to page 151 for actual reduction ratios.

Size	Input	1750 r/min		1450 r/min		1150 r/min		950 r/min		500 r/min		100 r/min	
	Reduction ratio	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}
TD200H	100	15.33	7462 { 761 }	14.23	8285 { 845 }	12.79	9271 { 946 }	11.90	10314 { 1052 }	6.54	10314 { 1052 }	1.48	10314 { 1052 }
	150	11.38	8036 { 820 }	10.66	8973 { 916 }	9.58	10005 { 1021 }	8.28	10314 { 1052 }	4.60	10314 { 1052 }	1.07	10314 { 1052 }
	200	9.00	8251 { 842 }	8.32	9076 { 926 }	7.57	10211 { 1042 }	6.42	10314 { 1052 }	3.59	10314 { 1052 }	0.84	10314 { 1052 }
	250	7.41	8251 { 842 }	6.70	8870 { 905 }	6.32	10314 { 1052 }	5.32	10314 { 1052 }	3.00	10314 { 1052 }	0.72	10314 { 1052 }
	300	8.31	11138 { 1137 }	6.98	11138 { 1137 }	5.66	11138 { 1137 }	4.75	11138 { 1137 }	2.67	11138 { 1137 }	0.64	11138 { 1137 }
	450	5.80	11138 { 1137 }	4.89	11138 { 1137 }	3.97	11138 { 1137 }	3.35	11138 { 1137 }	1.90	11138 { 1137 }	0.47	11138 { 1137 }
	600	4.50	11138 { 1137 }	3.81	11138 { 1137 }	3.01	11138 { 1137 }	2.62	11138 { 1137 }	1.50	11138 { 1137 }	0.37	11138 { 1137 }
	750	3.73	11138 { 1137 }	3.16	11138 { 1137 }	2.59	11138 { 1137 }	2.19	11138 { 1137 }	1.26	11138 { 1137 }	0.32	11138 { 1137 }
	900	3.25	11138 { 1137 }	2.77	11138 { 1137 }	2.27	11138 { 1137 }	1.93	11138 { 1137 }	1.13	11138 { 1137 }	0.29	11138 { 1137 }
	1200	2.58	11138 { 1137 }	2.20	11138 { 1137 }	1.81	11138 { 1137 }	1.55	11138 { 1137 }	0.91	11138 { 1137 }	0.24	11138 { 1137 }
	1500	2.24	11138 { 1137 }	1.91	11138 { 1137 }	1.58	11138 { 1137 }	1.35	11138 { 1137 }	0.79	11138 { 1137 }	0.21	11138 { 1137 }
	1800	1.97	11138 { 1137 }	1.68	11138 { 1137 }	1.39	11138 { 1137 }	1.19	11138 { 1137 }	0.71	11138 { 1137 }	0.19	11138 { 1137 }
	2400	1.57	11138 { 1137 }	1.35	11138 { 1137 }	1.12	11138 { 1137 }	0.97	11138 { 1137 }	0.58	11138 { 1137 }	0.16	11138 { 1137 }
	3000	1.34	11138 { 1137 }	1.16	11138 { 1137 }	0.97	11138 { 1137 }	0.83	11138 { 1137 }	0.51	11138 { 1137 }	0.14	11138 { 1137 }
	3600	1.18	11138 { 1137 }	1.02	11138 { 1137 }	0.85	11138 { 1137 }	0.74	11138 { 1137 }	0.45	11138 { 1137 }	0.13	11138 { 1137 }

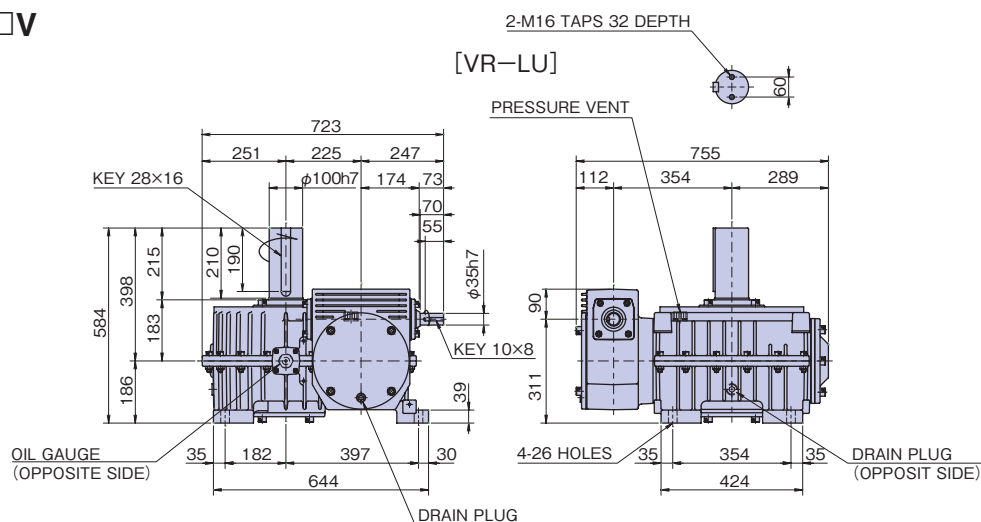
Dimensional Drawings TD225S

TD225S□□B



Estimated mass 415 kg

TD225S□□V



Estimated mass 420 kg

* Refer to page 122 for shaft arrangements and relative direction of rotation.

Transfer Capacity Table

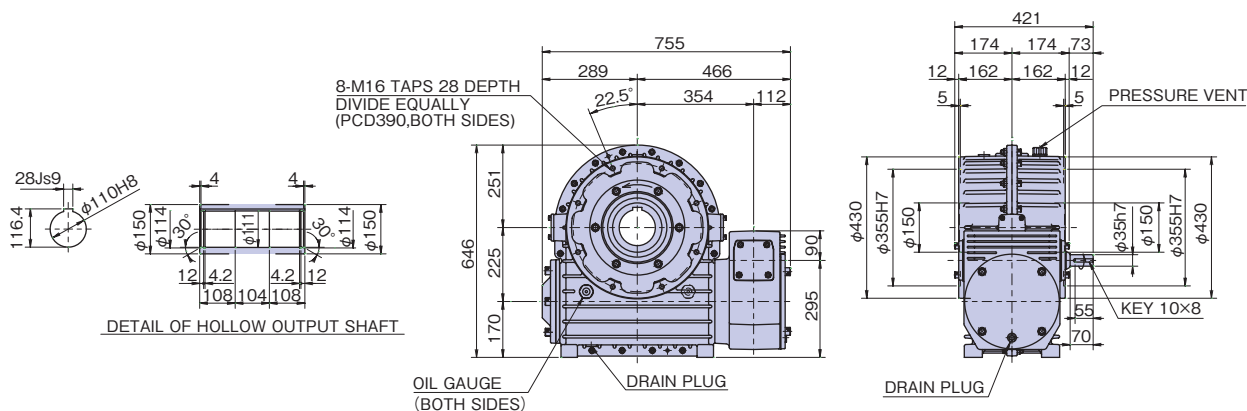
Refer to page 151 for actual reduction ratios.

Size	Input Reduction ratio	1750 r/min		1450 r/min		1150 r/min		950 r/min		500 r/min		100 r/min	
		Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}
TD225S	100	15.39	7520 { 767 }	14.19	8289 { 846 }	12.71	9240 { 943 }	12.02	10463 {1068 }	8.15	12909 {1317 }	1.84	12909 {1317 }
	150	11.50	8153 { 832 }	10.61	8968 { 915 }	9.59	10055 {1026 }	8.80	11006 {1123 }	5.92	13316 {1359 }	1.38	13452 {1373 }
	200	9.00	8289 { 846 }	8.31	9104 { 929 }	7.62	10327 {1054 }	7.07	11414 {1165 }	4.71	13588 {1387 }	1.06	13044 {1331 }
	250	7.41	8289 { 846 }	6.64	8832 { 901 }	6.30	10327 {1054 }	5.86	11414 {1165 }	3.93	13588 {1387 }	0.89	12909 {1317 }
	300	10.97	14993 {1530 }	9.73	15849 {1617 }	8.04	16204 {1653 }	6.82	16363 {1670 }	3.81	16363 {1670 }	0.90	16363 {1670 }
	450	8.37	16185 {1652 }	7.13	16363 {1670 }	5.78	16363 {1670 }	4.87	16363 {1670 }	2.76	16363 {1670 }	0.67	16363 {1670 }
	600	6.56	16363 {1670 }	5.54	16363 {1670 }	4.51	16363 {1670 }	3.81	16363 {1670 }	2.17	16363 {1670 }	0.53	16363 {1670 }
	750	5.43	16363 {1670 }	4.59	16363 {1670 }	3.75	16363 {1670 }	3.18	16363 {1670 }	1.83	16363 {1670 }	0.46	16363 {1670 }
	900	4.73	16363 {1670 }	4.02	16363 {1670 }	3.29	16363 {1670 }	2.80	16363 {1670 }	1.63	16363 {1670 }	0.42	16363 {1670 }
	1200	3.74	16363 {1670 }	3.19	16363 {1670 }	2.62	16363 {1670 }	2.24	16363 {1670 }	1.32	16363 {1670 }	0.34	16363 {1670 }
	1500	3.55	17542 {1790 }	3.02	17542 {1790 }	2.49	17542 {1790 }	2.12	17542 {1790 }	1.25	17542 {1790 }	0.33	17542 {1790 }
	1800	3.10	17542 {1790 }	2.66	17542 {1790 }	2.20	17542 {1790 }	1.88	17542 {1790 }	1.12	17542 {1790 }	0.30	17542 {1790 }
	2400	2.48	17542 {1790 }	2.13	17542 {1790 }	1.77	17542 {1790 }	1.52	17542 {1790 }	0.91	17542 {1790 }	0.25	17542 {1790 }
	3000	2.11	17542 {1790 }	1.82	17542 {1790 }	1.51	17542 {1790 }	1.31	17542 {1790 }	0.79	17542 {1790 }	0.22	17542 {1790 }
	3600	1.86	17542 {1790 }	1.60	17542 {1790 }	1.34	17542 {1790 }	1.16	17542 {1790 }	0.71	17542 {1790 }	0.20	17542 {1790 }

Dimensional Drawings TD225H

TD225H□□B

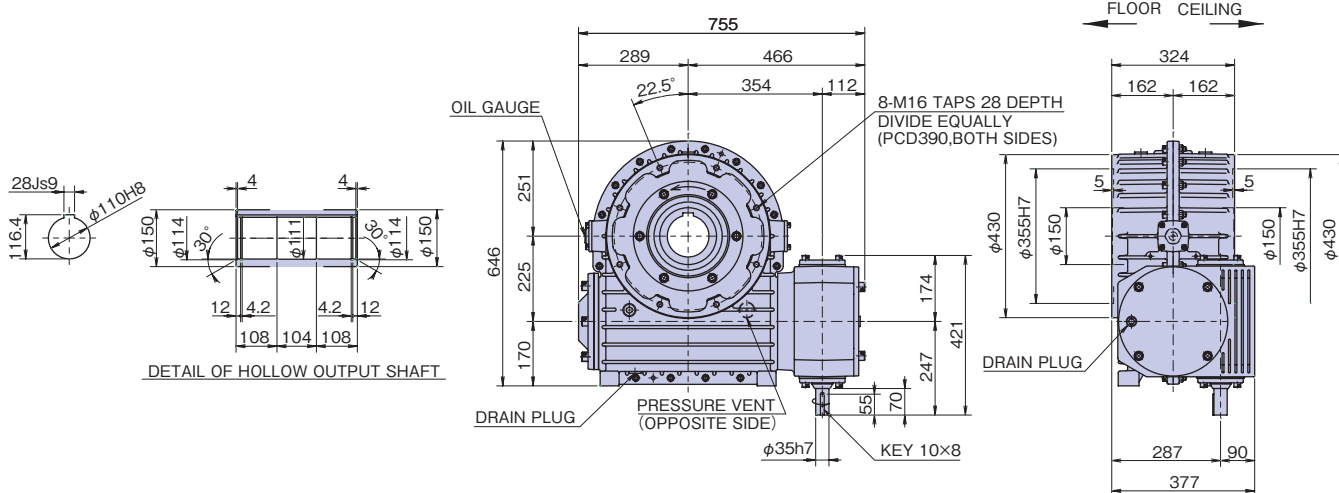
[BR-DF]



Estimated mass 388 kg

TD225H□□V

[VR-LF]



Estimated mass 394 kg

* Refer to page 122 for shaft arrangements and relative direction of rotation.

Transfer Capacity Table

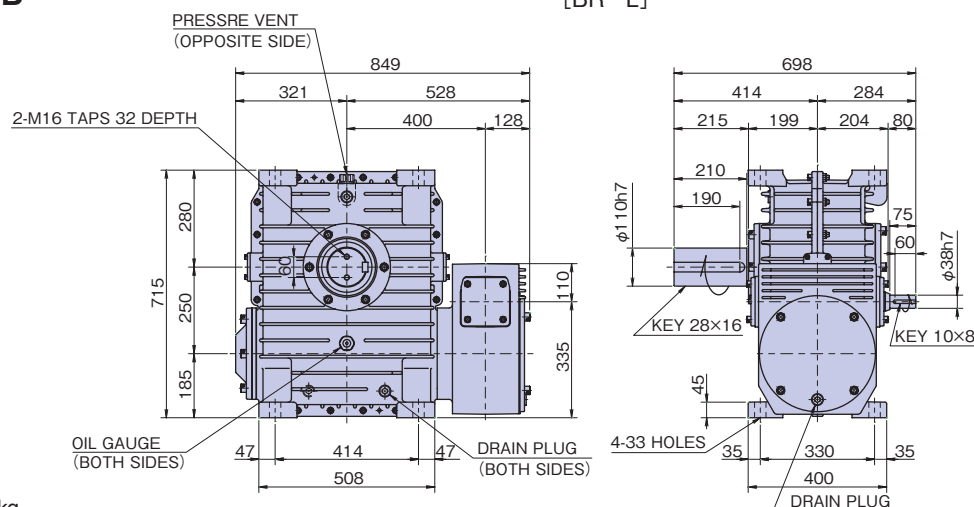
Refer to page 151 for actual reduction ratios.

Size	Input	1750 r/min		1450 r/min		1150 r/min		950 r/min		500 r/min		100 r/min	
	Reduction ratio	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}
TD225H	100	15.39	7520 { 767 }	14.19	8289 { 846 }	12.71	9240 { 943 }	12.02	10463 {1068 }	8.15	12909 {1317 }	1.84	12909 {1317 }
	150	11.50	8153 { 832 }	10.61	8968 { 915 }	9.59	10055 {1026 }	8.80	11006 {1123 }	5.92	13316 {1359 }	1.38	13452 {1373 }
	200	9.00	8289 { 846 }	8.31	9104 { 929 }	7.62	10327 {1054 }	7.07	11414 {1165 }	4.71	13588 {1387 }	1.06	13044 {1331 }
	250	7.41	8289 { 846 }	6.64	8832 { 901 }	6.30	10327 {1054 }	5.86	11414 {1165 }	3.93	13588 {1387 }	0.89	12909 {1317 }
	300	10.97	14993 {1530 }	9.73	15849 {1617 }	8.04	16204 {1653 }	6.82	16363 {1670 }	3.81	16363 {1670 }	0.90	16363 {1670 }
	450	8.37	16185 {1652 }	7.13	16363 {1670 }	5.78	16363 {1670 }	4.87	16363 {1670 }	2.76	16363 {1670 }	0.67	16363 {1670 }
	600	6.56	16363 {1670 }	5.54	16363 {1670 }	4.51	16363 {1670 }	3.81	16363 {1670 }	2.17	16363 {1670 }	0.53	16363 {1670 }
	750	5.43	16363 {1670 }	4.59	16363 {1670 }	3.75	16363 {1670 }	3.18	16363 {1670 }	1.83	16363 {1670 }	0.46	16363 {1670 }
	900	4.73	16363 {1670 }	4.02	16363 {1670 }	3.29	16363 {1670 }	2.80	16363 {1670 }	1.63	16363 {1670 }	0.42	16363 {1670 }
	1200	3.74	16363 {1670 }	3.19	16363 {1670 }	2.62	16363 {1670 }	2.24	16363 {1670 }	1.32	16363 {1670 }	0.34	16363 {1670 }
	1500	3.55	17542 {1790 }	3.02	17542 {1790 }	2.49	17542 {1790 }	2.12	17542 {1790 }	1.25	17542 {1790 }	0.33	17542 {1790 }
	1800	3.10	17542 {1790 }	2.66	17542 {1790 }	2.20	17542 {1790 }	1.88	17542 {1790 }	1.12	17542 {1790 }	0.30	17542 {1790 }
	2400	2.48	17542 {1790 }	2.13	17542 {1790 }	1.77	17542 {1790 }	1.52	17542 {1790 }	0.91	17542 {1790 }	0.25	17542 {1790 }
	3000	2.11	17542 {1790 }	1.82	17542 {1790 }	1.51	17542 {1790 }	1.31	17542 {1790 }	0.79	17542 {1790 }	0.22	17542 {1790 }
	3600	1.86	17542 {1790 }	1.60	17542 {1790 }	1.34	17542 {1790 }	1.16	17542 {1790 }	0.71	17542 {1790 }	0.20	17542 {1790 }

Dimensional Drawings TD250S

TD250S□□B

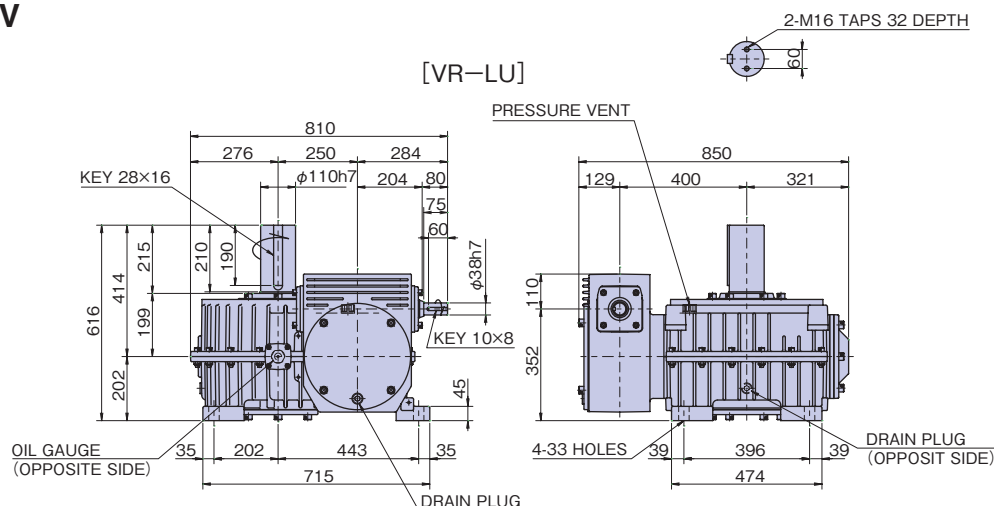
[BR-L]



Estimated mass 554 kg

TD250S□□V

[VR-LU]



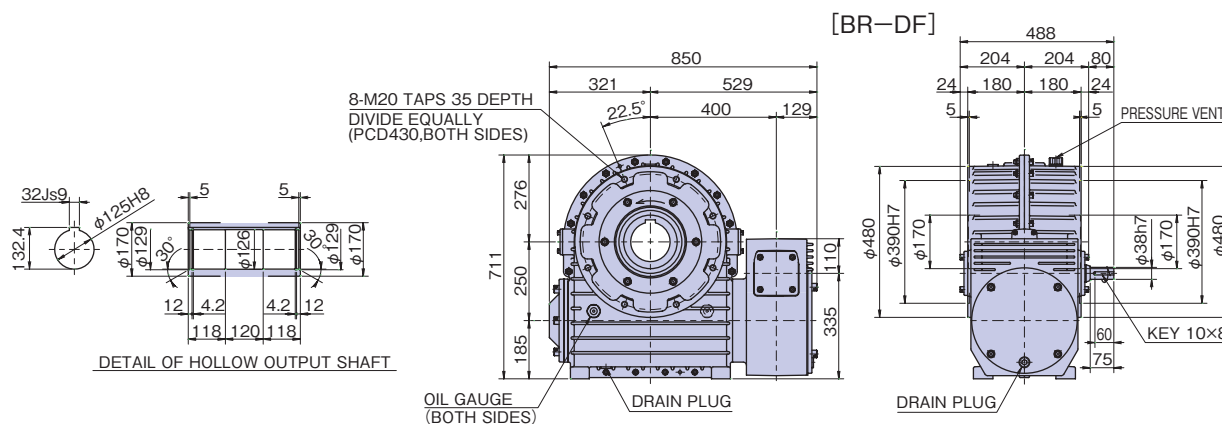
Estimated mass 544 kg

* Refer to page 122 for shaft arrangements and relative direction of rotation.

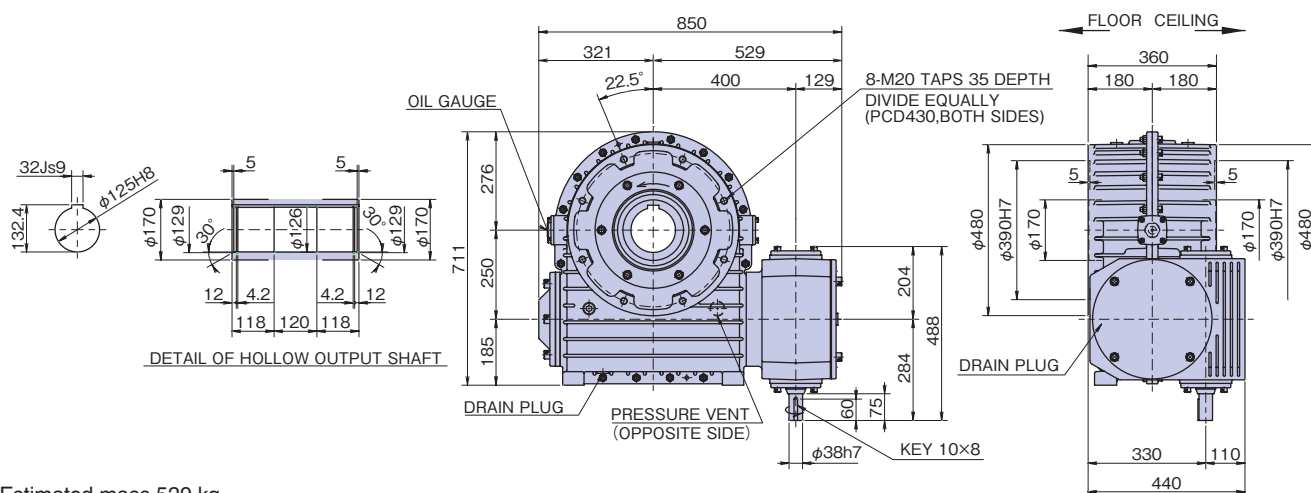
Transfer Capacity Table Refer to page 151 for actual reduction ratios.

Size	Input	1750 r/min		1450 r/min		1150 r/min		950 r/min		500 r/min		100 r/min	
	Reduction ratio	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}
TD250S	100	22.82	11238 {1147}	21.46	12643 {1290}	19.35	14224 {1451}	17.75	15628 {1595}	10.95	17560 {1792}	2.47	17560 {1792}
	150	17.15	12292 {1254}	15.82	13521 {1380}	14.54	15453 {1577}	13.30	16858 {1720}	7.68	17560 {1792}	1.77	17560 {1792}
	200	13.38	12468 {1272}	12.50	13872 {1416}	10.99	15102 {1541}	10.51	17209 {1756}	5.99	17560 {1792}	1.41	17560 {1792}
	250	10.91	12468 {1272}	10.08	13697 {1398}	9.20	15453 {1577}	8.61	17209 {1756}	4.94	17560 {1792}	1.17	17560 {1792}
	300	14.41	19831 {2024}	12.78	20964 {2139}	10.50	21354 {2179}	8.89	21558 {2200}	4.97	21558 {2200}	1.18	21558 {2200}
	450	10.93	21329 {2176}	9.30	21558 {2200}	7.53	21558 {2200}	6.35	21558 {2200}	3.59	21558 {2200}	0.87	21558 {2200}
	600	8.57	21558 {2200}	7.22	21558 {2200}	5.87	21558 {2200}	4.95	21558 {2200}	2.83	21558 {2200}	0.70	21558 {2200}
	750	7.02	21558 {2200}	5.94	21558 {2200}	4.84	21558 {2200}	4.09	21558 {2200}	2.34	21558 {2200}	0.58	21558 {2200}
	900	6.14	21558 {2200}	5.21	21558 {2200}	4.26	21558 {2200}	3.62	21558 {2200}	2.11	21558 {2200}	0.54	21558 {2200}
	1200	4.85	21558 {2200}	4.13	21558 {2200}	3.39	21558 {2200}	2.89	21558 {2200}	1.70	21558 {2200}	0.45	21558 {2200}
	1500	4.34	22646 {2311}	3.70	22646 {2311}	3.03	22646 {2311}	2.59	22646 {2311}	1.52	22646 {2311}	0.40	22646 {2311}
	1800	3.82	22646 {2311}	3.26	22646 {2311}	2.69	22646 {2311}	2.30	22646 {2311}	1.37	22646 {2311}	0.37	22646 {2311}
	2400	3.05	22646 {2311}	2.61	22646 {2311}	2.16	22646 {2311}	1.86	22646 {2311}	1.12	22646 {2311}	0.31	22646 {2311}
	3000	2.55	22646 {2311}	2.20	22646 {2311}	1.83	22646 {2311}	1.57	22646 {2311}	0.95	22646 {2311}	0.26	22646 {2311}
	3600	2.25	22646 {2311}	1.94	22646 {2311}	1.62	22646 {2311}	1.39	22646 {2311}	0.85	22646 {2311}	0.24	22646 {2311}

Dimensional Drawings TD250H

TD250H□□B


Estimated mass 522 kg

TD250H□□V


Estimated mass 529 kg

* Refer to page 122 for shaft arrangements and relative direction of rotation.

Transfer Capacity Table

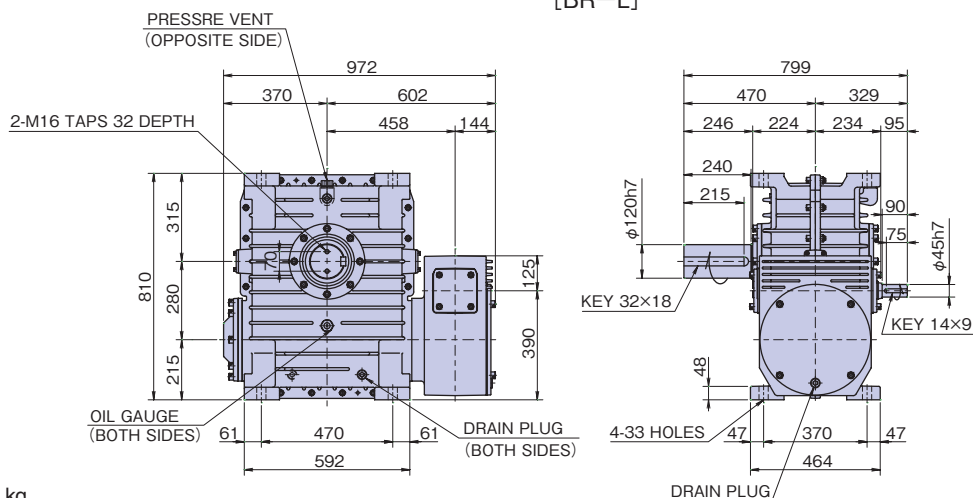
Refer to page 151 for actual reduction ratios.

Size	Input Reduction ratio	1750 r/min		1450 r/min		1150 r/min		950 r/min		500 r/min		100 r/min	
		Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}
TD250H	100	22.82	11238 {1147}	21.46	12643 {1290}	19.35	14224 {1451}	17.75	15628 {1595}	10.95	17560 {1792}	2.47	17560 {1792}
	150	17.15	12292 {1254}	15.82	13521 {1380}	14.54	15453 {1577}	13.30	16858 {1720}	7.68	17560 {1792}	1.77	17560 {1792}
	200	13.38	12468 {1272}	12.50	13872 {1416}	10.99	15102 {1541}	10.51	17209 {1756}	5.99	17560 {1792}	1.41	17560 {1792}
	250	10.91	12468 {1272}	10.08	13697 {1398}	9.20	15453 {1577}	8.61	17209 {1756}	4.94	17560 {1792}	1.17	17560 {1792}
	300	14.41	19831 {2024}	12.78	20964 {2139}	10.50	21354 {2179}	8.89	21558 {2200}	4.97	21558 {2200}	1.18	21558 {2200}
	450	10.93	21329 {2176}	9.30	21558 {2200}	7.53	21558 {2200}	6.35	21558 {2200}	3.59	21558 {2200}	0.87	21558 {2200}
	600	8.57	21558 {2200}	7.22	21558 {2200}	5.87	21558 {2200}	4.95	21558 {2200}	2.83	21558 {2200}	0.70	21558 {2200}
	750	7.02	21558 {2200}	5.94	21558 {2200}	4.84	21558 {2200}	4.09	21558 {2200}	2.34	21558 {2200}	0.58	21558 {2200}
	900	6.14	21558 {2200}	5.21	21558 {2200}	4.26	21558 {2200}	3.62	21558 {2200}	2.11	21558 {2200}	0.54	21558 {2200}
	1200	4.85	21558 {2200}	4.13	21558 {2200}	3.39	21558 {2200}	2.89	21558 {2200}	1.70	21558 {2200}	0.45	21558 {2200}
	1500	4.34	22646 {2311}	3.70	22646 {2311}	3.03	22646 {2311}	2.59	22646 {2311}	1.52	22646 {2311}	0.40	22646 {2311}
	1800	3.82	22646 {2311}	3.26	22646 {2311}	2.69	22646 {2311}	2.30	22646 {2311}	1.37	22646 {2311}	0.37	22646 {2311}
	2400	3.05	22646 {2311}	2.61	22646 {2311}	2.16	22646 {2311}	1.86	22646 {2311}	1.12	22646 {2311}	0.31	22646 {2311}
	3000	2.55	22646 {2311}	2.20	22646 {2311}	1.83	22646 {2311}	1.57	22646 {2311}	0.95	22646 {2311}	0.26	22646 {2311}
	3600	2.25	22646 {2311}	1.94	22646 {2311}	1.62	22646 {2311}	1.39	22646 {2311}	0.85	22646 {2311}	0.24	22646 {2311}

Dimensional Drawings TD280S

TD280S□□B

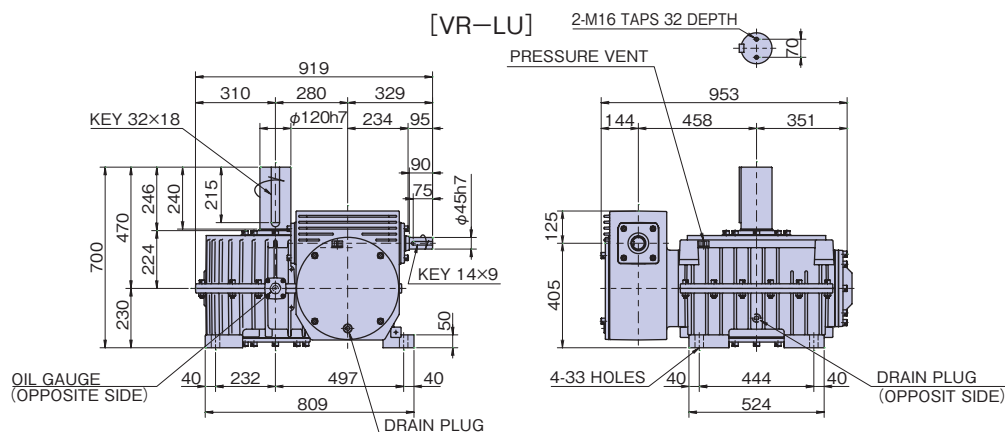
[BR-L]



Estimated mass 793 kg

TD280S□□V

[VR-LU]



Estimated mass 779 kg

* Refer to page 122 for shaft arrangements and relative direction of rotation.

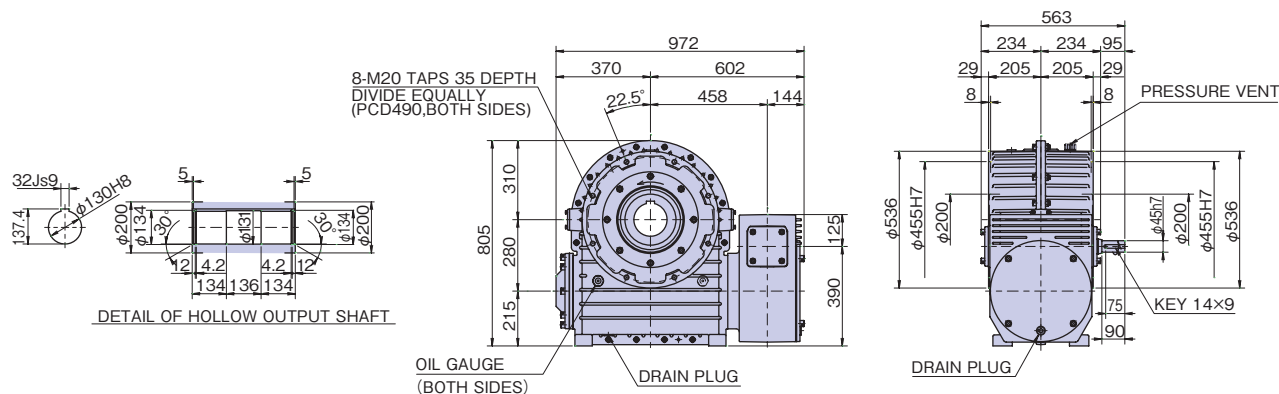
Transfer Capacity Table Refer to page 151 for actual reduction ratios.

Size	Input	1750 r/min		1450 r/min		1150 r/min		950 r/min		500 r/min		100 r/min	
	Reduction ratio	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}
TD280S	100	32.11	15895 {1622}	29.72	17623 {1798}	26.54	19613 {2001}	23.28	20629 {2105}	15.36	24854 {2536}	3.46	24854 {2536}
	150	23.75	17137 {1749}	21.35	18392 {1877}	18.78	20132 {2054}	16.50	21126 {2156}	10.73	24854 {2536}	2.48	24854 {2536}
	200	18.79	17646 {1801}	17.07	19138 {1953}	14.86	20629 {2105}	13.05	21623 {2206}	8.37	24854 {2536}	1.96	24854 {2536}
	250	14.72	16901 {1725}	13.65	18641 {1902}	12.36	20877 {2130}	10.87	21872 {2232}	6.94	24854 {2536}	1.65	24854 {2536}
	300	18.59	25900 {2643}	16.12	26798 {2734}	13.56	27947 {2852}	11.65	28664 {2925}	6.49	28664 {2925}	1.53	28664 {2925}
	450	14.28	27860 {2843}	12.37	28664 {2925}	10.01	28664 {2925}	8.41	28664 {2925}	4.73	28664 {2925}	1.15	28664 {2925}
	600	11.38	28664 {2925}	9.58	28664 {2925}	7.78	28664 {2925}	6.55	28664 {2925}	3.73	28664 {2925}	0.91	28664 {2925}
	750	9.35	28664 {2925}	7.91	28664 {2925}	6.43	28664 {2925}	5.43	28664 {2925}	3.11	28664 {2925}	0.77	28664 {2925}
	900	8.12	28664 {2925}	6.87	28664 {2925}	5.61	28664 {2925}	4.76	28664 {2925}	2.75	28664 {2925}	0.71	28664 {2925}
	1200	6.39	28664 {2925}	5.43	28664 {2925}	4.45	28664 {2925}	3.79	28664 {2925}	2.22	28664 {2925}	0.58	28664 {2925}
	1500	5.74	30110 {3072}	4.88	30110 {3072}	4.00	30110 {3072}	3.40	30110 {3072}	1.99	30110 {3072}	0.52	30110 {3072}
	1800	5.01	30110 {3072}	4.27	30110 {3072}	3.52	30110 {3072}	3.00	30110 {3072}	1.78	30110 {3072}	0.48	30110 {3072}
	2400	3.99	30110 {3072}	3.41	30110 {3072}	2.82	30110 {3072}	2.41	30110 {3072}	1.45	30110 {3072}	0.40	30110 {3072}
	3000	3.36	30110 {3072}	2.89	30110 {3072}	2.39	30110 {3072}	2.05	30110 {3072}	1.25	30110 {3072}	0.35	30110 {3072}
	3600	2.92	30110 {3072}	2.51	30110 {3072}	2.09	30110 {3072}	1.80	30110 {3072}	1.10	30110 {3072}	0.31	30110 {3072}

Dimensional Drawings TD280H

TD280H□□B

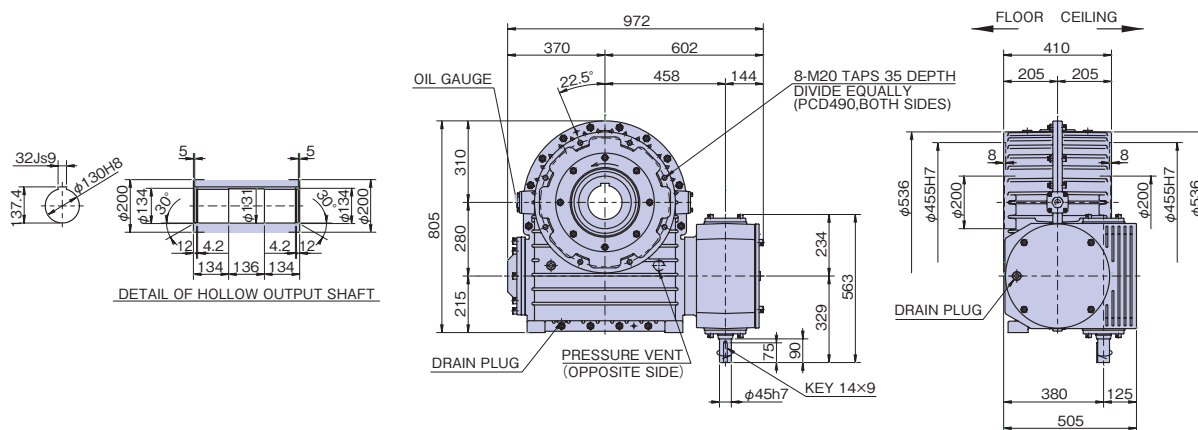
[BR-DF]



Estimated mass 748 kg

TD280H□□V

[VR-LF]



Estimated mass 758 kg

* Refer to page 122 for shaft arrangements and relative direction of rotation.

Transfer Capacity Table

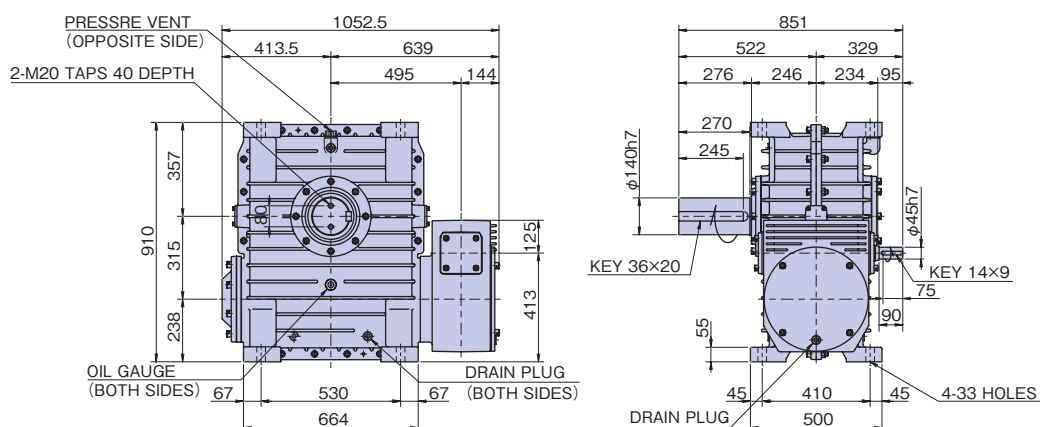
Refer to page 151 for actual reduction ratios.

Size	Input Reduction ratio	1750 r/min		1450 r/min		1150 r/min		950 r/min		500 r/min		100 r/min	
		Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}
TD280H	100	32.11	15895 {1622}	29.72	17623 {1798}	26.54	19613 {2001}	23.28	20629 {2105}	15.36	24854 {2536}	3.46	24854 {2536}
	150	23.75	17137 {1749}	21.35	18392 {1877}	18.78	20132 {2054}	16.50	21126 {2156}	10.73	24854 {2536}	2.48	24854 {2536}
	200	18.79	17646 {1801}	17.07	19138 {1953}	14.86	20629 {2105}	13.05	21623 {2206}	8.37	24854 {2536}	1.96	24854 {2536}
	250	14.72	16901 {1725}	13.65	18641 {1902}	12.36	20877 {2130}	10.87	21872 {2232}	6.94	24854 {2536}	1.65	24854 {2536}
	300	18.59	25900 {2643}	16.12	26798 {2734}	13.56	27947 {2852}	11.65	28664 {2925}	6.49	28664 {2925}	1.53	28664 {2925}
	450	14.28	27860 {2843}	12.37	28664 {2925}	10.01	28664 {2925}	8.41	28664 {2925}	4.73	28664 {2925}	1.15	28664 {2925}
	600	11.38	28664 {2925}	9.58	28664 {2925}	7.78	28664 {2925}	6.55	28664 {2925}	3.73	28664 {2925}	0.91	28664 {2925}
	750	9.35	28664 {2925}	7.91	28664 {2925}	6.43	28664 {2925}	5.43	28664 {2925}	3.11	28664 {2925}	0.77	28664 {2925}
	900	8.12	28664 {2925}	6.87	28664 {2925}	5.61	28664 {2925}	4.76	28664 {2925}	2.75	28664 {2925}	0.71	28664 {2925}
	1200	6.39	28664 {2925}	5.43	28664 {2925}	4.45	28664 {2925}	3.79	28664 {2925}	2.22	28664 {2925}	0.58	28664 {2925}
	1500	5.74	30110 {3072}	4.88	30110 {3072}	4.00	30110 {3072}	3.40	30110 {3072}	1.99	30110 {3072}	0.52	30110 {3072}
	1800	5.01	30110 {3072}	4.27	30110 {3072}	3.52	30110 {3072}	3.00	30110 {3072}	1.78	30110 {3072}	0.48	30110 {3072}
	2400	3.99	30110 {3072}	3.41	30110 {3072}	2.82	30110 {3072}	2.41	30110 {3072}	1.45	30110 {3072}	0.40	30110 {3072}
	3000	3.36	30110 {3072}	2.89	30110 {3072}	2.39	30110 {3072}	2.05	30110 {3072}	1.25	30110 {3072}	0.35	30110 {3072}
	3600	2.92	30110 {3072}	2.51	30110 {3072}	2.09	30110 {3072}	1.80	30110 {3072}	1.10	30110 {3072}	0.31	30110 {3072}

Dimensional Drawings TD315S

TD315S□□B

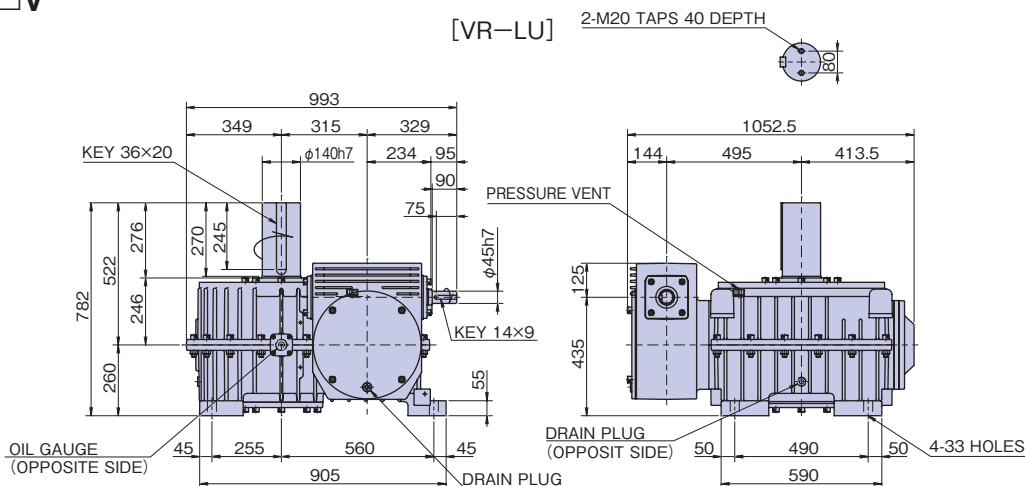
[BR—L]



Estimated mass 1053 kg

TD315S□□V

[VR—LU]



Estimated mass 1061 kg

* Refer to page 122 for shaft arrangements and relative direction of rotation.

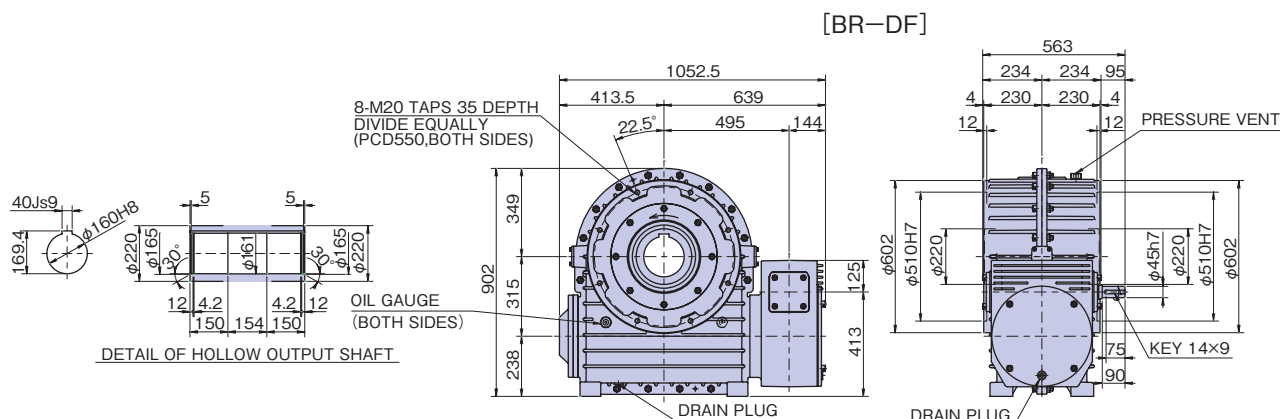
Transfer Capacity Table

Refer to page 151 for actual reduction ratios.

Size	Input Reduction ratio	1750 r/min		1450 r/min		1150 r/min		950 r/min		500 r/min		100 r/min	
		Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}
TD315S	100	32.13	15957 {1628}	29.82	17738 {1810}	26.51	19679 {2008}	23.16	20584 {2100}	15.27	24821 {2533}	4.19	30270 {3089}
	150	23.82	17261 {1761}	21.35	18465 {1884}	18.84	20281 {2069}	16.48	21189 {2162}	10.93	25427 {2595}	3.00	30270 {3089}
	200	18.61	17557 {1791}	16.96	19070 {1946}	14.76	20584 {2100}	13.10	21794 {2224}	8.73	26032 {2656}	2.37	30270 {3089}
	250	14.70	16951 {1730}	13.68	18767 {1915}	12.31	20886 {2131}	10.93	22097 {2255}	7.31	26335 {2687}	2.00	30270 {3089}
	300	28.16	39325 {4013}	24.69	41146 {4199}	20.89	43159 {4404}	18.00	44420 {4533}	10.03	44420 {4533}	2.37	44420 {4533}
	450	21.64	43006 {4388}	18.82	44420 {4533}	15.20	44420 {4533}	12.79	44420 {4533}	7.20	44420 {4533}	1.74	44420 {4533}
	600	17.28	44420 {4533}	14.57	44420 {4533}	11.83	44420 {4533}	9.97	44420 {4533}	5.66	44420 {4533}	1.39	44420 {4533}
	750	14.23	44420 {4533}	12.03	44420 {4533}	9.78	44420 {4533}	8.25	44420 {4533}	4.72	44420 {4533}	1.18	44420 {4533}
	900	12.33	44420 {4533}	10.45	44420 {4533}	8.53	44420 {4533}	7.23	44420 {4533}	4.19	44420 {4533}	1.08	44420 {4533}
	1200	9.71	44420 {4533}	8.25	44420 {4533}	6.77	44420 {4533}	5.76	44420 {4533}	3.38	44420 {4533}	0.89	44420 {4533}
	1500	8.75	46790 {4774}	7.43	46790 {4774}	6.10	46790 {4774}	5.18	46790 {4774}	3.03	46790 {4774}	0.80	46790 {4774}
	1800	7.63	46790 {4774}	6.50	46790 {4774}	5.35	46790 {4774}	4.57	46790 {4774}	2.71	46790 {4774}	0.74	46790 {4774}
	2400	6.07	46790 {4774}	5.19	46790 {4774}	4.29	46790 {4774}	3.68	46790 {4774}	2.20	46790 {4774}	0.61	46790 {4774}
	3000	5.12	46790 {4774}	4.40	46790 {4774}	3.65	46790 {4774}	3.13	46790 {4774}	1.90	46790 {4774}	0.54	46790 {4774}
	3600	4.45	46790 {4774}	3.83	46790 {4774}	3.18	46790 {4774}	2.74	46790 {4774}	1.64	46790 {4774}	0.47	46790 {4774}

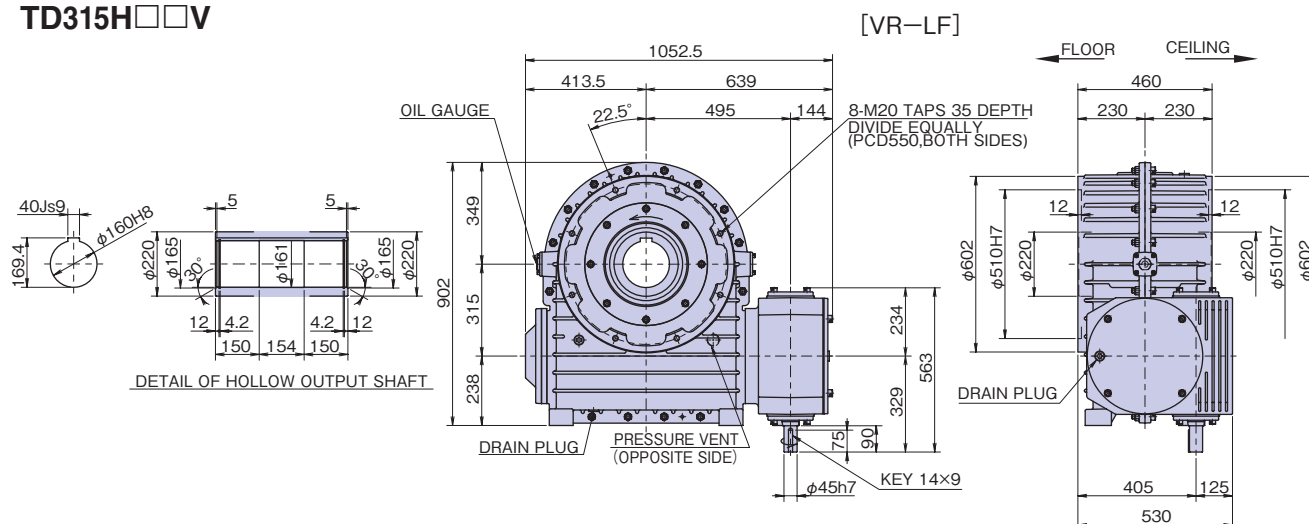
Dimensional Drawings TD315H

TD315H□□B



Estimated mass 975 kg

TD315H□□V



Estimated mass 990 kg

* Refer to page 122 for shaft arrangements and relative direction of rotation.

Transfer Capacity Table

Refer to page 151 for actual reduction ratios.

Size	Input Reduction ratio	1750 r/min		1450 r/min		1150 r/min		950 r/min		500 r/min		100 r/min	
		Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}	Input kW	Output torque N·m {kgf·m}
TD315H	100	32.13	15957 {1628}	29.82	17738 {1810}	26.51	19679 {2008}	23.16	20584 {2100}	15.27	24821 {2533}	4.19	30270 {3089}
	150	23.82	17261 {1761}	21.35	18465 {1884}	18.84	20281 {2069}	16.48	21189 {2162}	10.93	25427 {2595}	3.00	30270 {3089}
	200	18.61	17557 {1791}	16.96	19070 {1946}	14.76	20584 {2100}	13.10	21794 {2224}	8.73	26032 {2656}	2.37	30270 {3089}
	250	14.70	16951 {1730}	13.68	18767 {1915}	12.31	20886 {2131}	10.93	22097 {2255}	7.31	26335 {2687}	2.00	30270 {3089}
	300	28.16	39325 {4013}	24.69	41146 {4199}	20.89	43159 {4404}	18.00	44420 {4533}	10.03	44420 {4533}	2.37	44420 {4533}
	450	21.64	43006 {4388}	18.82	44420 {4533}	15.20	44420 {4533}	12.79	44420 {4533}	7.20	44420 {4533}	1.74	44420 {4533}
	600	17.28	44420 {4533}	14.57	44420 {4533}	11.83	44420 {4533}	9.97	44420 {4533}	5.66	44420 {4533}	1.39	44420 {4533}
	750	14.23	44420 {4533}	12.03	44420 {4533}	9.78	44420 {4533}	8.25	44420 {4533}	4.72	44420 {4533}	1.18	44420 {4533}
	900	12.33	44420 {4533}	10.45	44420 {4533}	8.53	44420 {4533}	7.23	44420 {4533}	4.19	44420 {4533}	1.08	44420 {4533}
	1200	9.71	44420 {4533}	8.25	44420 {4533}	6.77	44420 {4533}	5.76	44420 {4533}	3.38	44420 {4533}	0.89	44420 {4533}
	1500	8.75	46790 {4774}	7.43	46790 {4774}	6.10	46790 {4774}	5.18	46790 {4774}	3.03	46790 {4774}	0.80	46790 {4774}
	1800	7.63	46790 {4774}	6.50	46790 {4774}	5.35	46790 {4774}	4.57	46790 {4774}	2.71	46790 {4774}	0.74	46790 {4774}
	2400	6.07	46790 {4774}	5.19	46790 {4774}	4.29	46790 {4774}	3.68	46790 {4774}	2.20	46790 {4774}	0.61	46790 {4774}
	3000	5.12	46790 {4774}	4.40	46790 {4774}	3.65	46790 {4774}	3.13	46790 {4774}	1.90	46790 {4774}	0.54	46790 {4774}
	3600	4.45	46790 {4774}	3.83	46790 {4774}	3.18	46790 {4774}	2.74	46790 {4774}	1.64	46790 {4774}	0.47	46790 {4774}



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