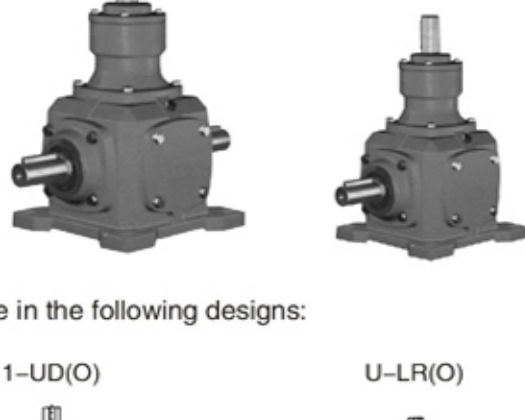


T系列螺旋锥齿轮减速机

T Spiral bevel gear units



T系列减速机有以下设计方案

T series gear units are available in the following designs:

1-LR(O)



1-UD(O)



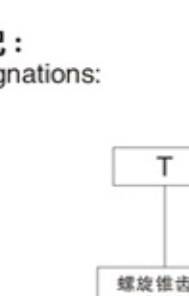
U-LR(O)



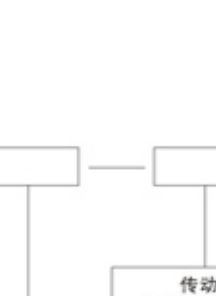
D-LR(O)



1-1-LR(O)



U-D-LR(O)

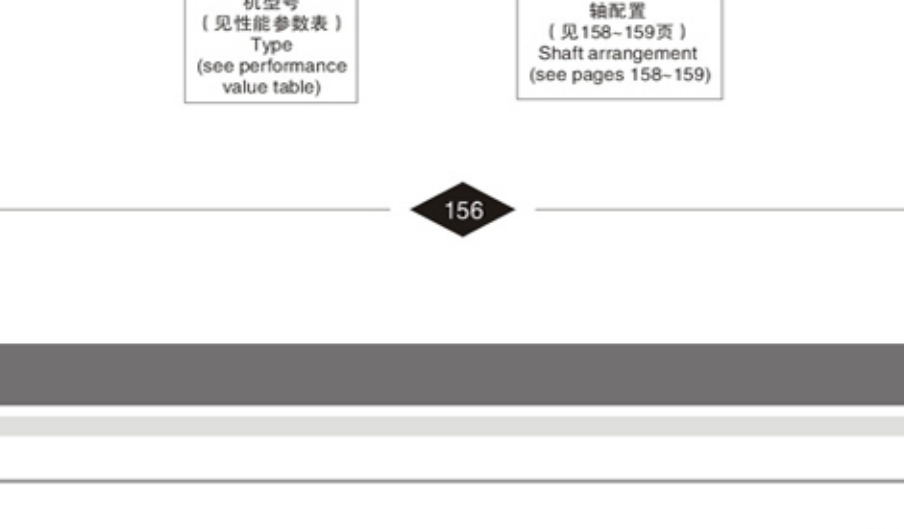


1-1-UD(O)



型号与标记：

Type Designations:



156



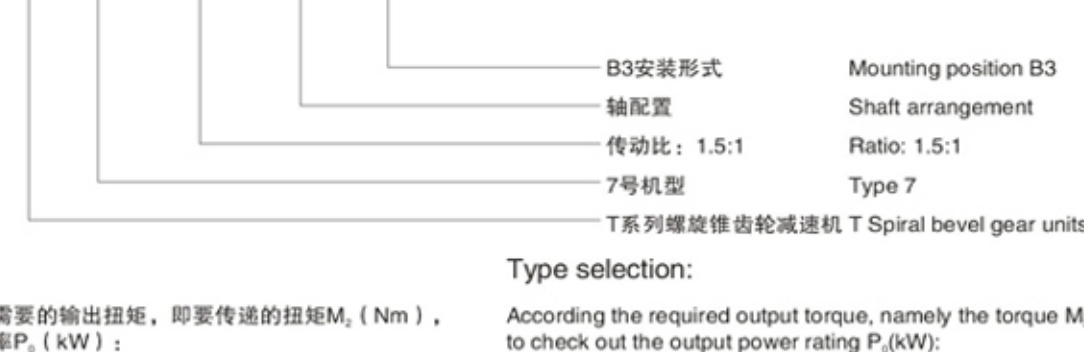
www.zgbode.com
坚守诚信、追求卓越

选型参数表

Selection Table

示例：

Example



选型：

选型时先根据需要的输出扭矩，即要传递的扭矩 M_2 (Nm)，

计算出输入功率 P_1 (kW)：

$$P_1 = \frac{M_2 \times n_1}{9550 \times i \times \eta}$$

n_1 —— 输入转速(r/min)

i —— 传动比

η —— 传动效率(一般为0.98)

确定合适工作系数 f_d (见第3页)使：

$$P_1 \geq f_d \times P_2$$

按实际输入功率 P_1 根据“性能参数表”选择合适

的机型。

Type selection:

According the required output torque, namely the torque M_2 (Nm),

to check out the output power rating P_2 (kW):

$$P_2 = \frac{M_2 \times n_1}{9550 \times i \times \eta}$$

n_1 —— Input speed(r/min)

i —— Ratio

η —— Transmission efficiency(0.98 as usual)

Determine the proper driven machine factor f_d (see page 3) making:

$$P_1 \geq f_d \times P_2$$

According the actual input power rating P_1 , to select the proper type from the "performance value table".

输入功率及许用转矩

Input power rating and permissible torque

机型号 Gear unit type	T2	T4	T6	T7	T8	T10	T12
结构形式 Structure	1-LR(O) 1-UD(O) U-LR(O) D-LR(O) 1-1-LR(O) 1-1-UD(O) U-D-LR(O)						
输入功率(kW) Input power rating	0.015-1.79	0.026-4.94	0.037-14.9	0.042-22	0.064-45.6	0.11-65.3	0.188-96
传动比 Ratio	1-2	1-2	1-3	1-3	1-3	1-3	1-3
许用转矩(N·m) Permissible torque	11	31	94	139	199	288	607

减速机重量

Gear unit weight

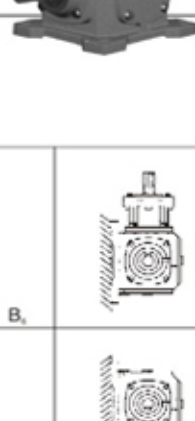
机型号 Gear unit type	T2	T4	T6	T7	T8	T10	T12
重量 (kg) Weight	2	10	21	32	49	78	124

所注重量为平均值，仅供参考。
The weights are mean values, only for reference.

157

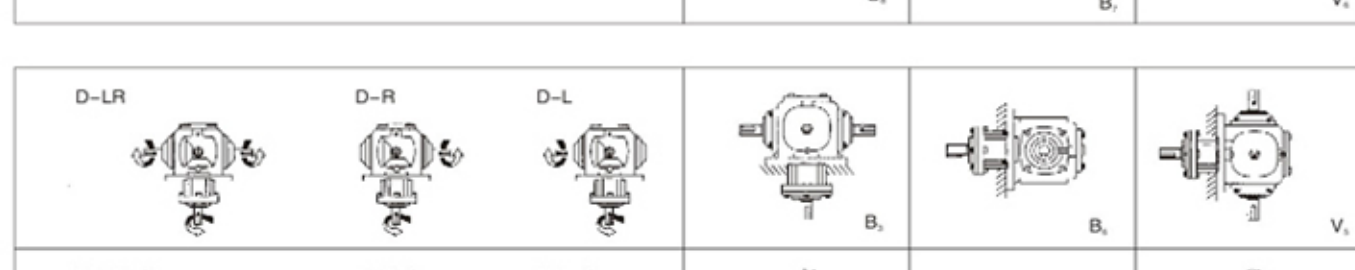
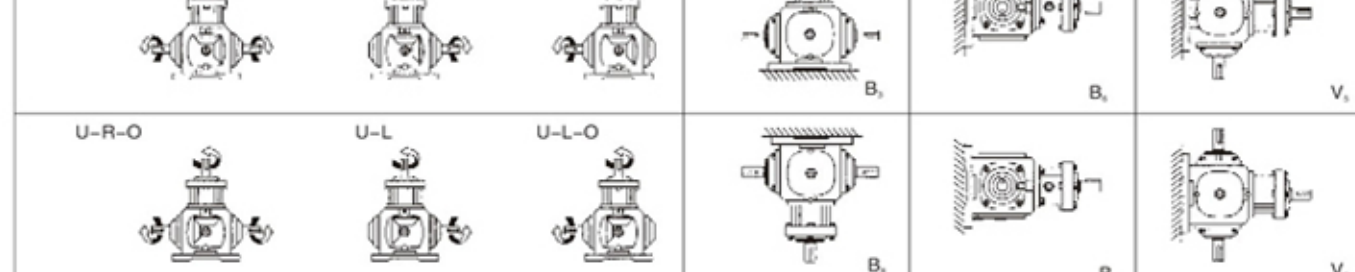
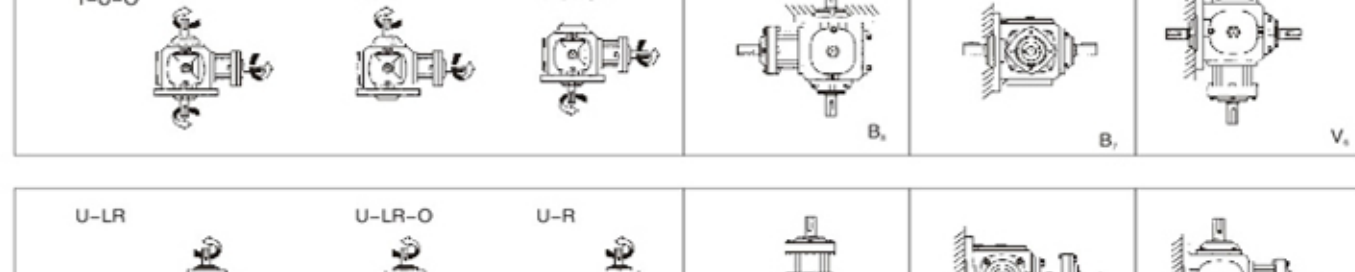
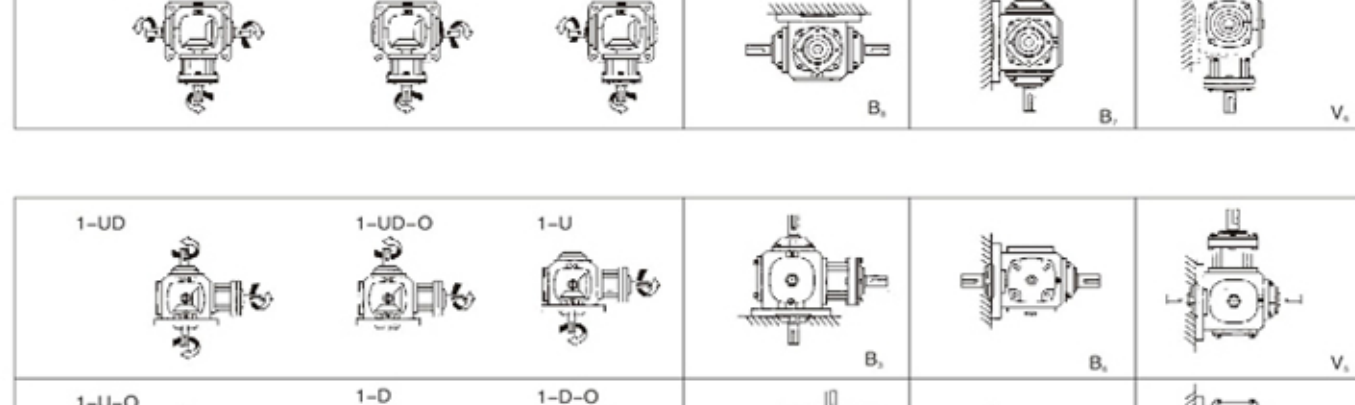
安装形式

Mounting Position



轴配置及轴旋转方向的关系

The relationship between shaft arrangement and direction of shaft rotation:



158



www.zgbode.com
坚守诚信、追求卓越

安装形式

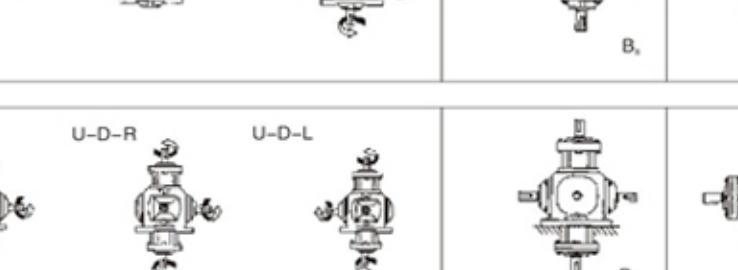
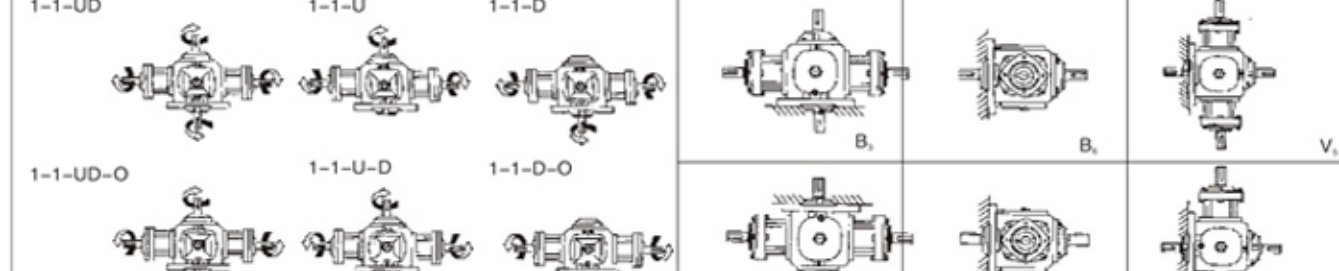
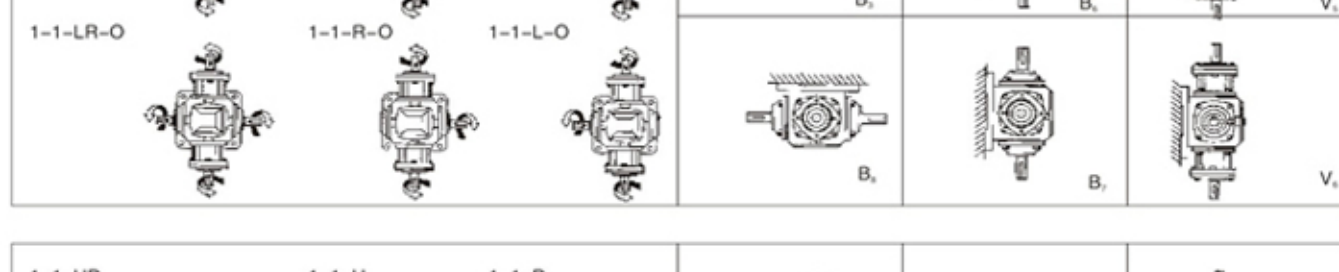
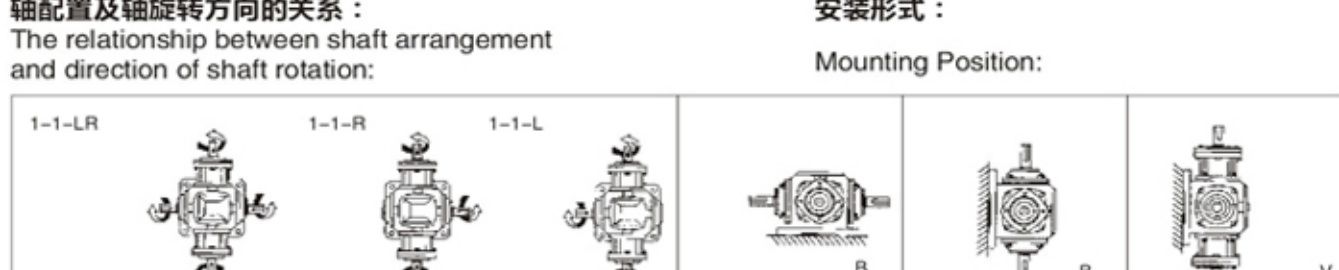
Mounting Position

轴配置及轴旋转方向的关系：

The relationship between shaft arrangement and direction of shaft rotation:

安装形式：

Mounting Position:



当Ⅱ型输入Ⅰ型轴输出时为减速

当Ⅰ型输入Ⅱ型轴输出时为增速

Output speed'll be reduced when the shaft

Ⅱ input and the shaft Ⅰ output

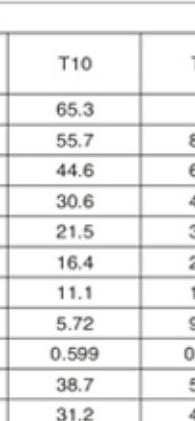
Output speed'll be increased when the shaft

Ⅰ input and the shaft Ⅱ output

159

性能参数表

Permmance value table



速比 Ratio	输入转速 Input speed r/min	输出转速 Output speed r/min	许用功率 Permissible power (kW)							
			T2	T4	T6	T7	T8	T10	T12	
1:1	1450	1450	1.79	4.49	14.9	22	45.6	65.3	96	
	1150	1150	1.43	4.19	12.7	18.4	37.5	55.7	81.1	
	870	870	1.12	3.46	10.5	15.2	29	44.6	67.5	
	480	580	0.747	2.45	7.35	11.4	19.8	30.6	49.7	
	400	400	0.524	1.72	5.2	8.34	14	21.5	35.1	
	300	300	0.396	1.3	3.93	6.35	10.6	16.4	26.8	
	200	200	0.266	0.88	2.66	4.3	7.23	11.1	18.2	
	100	100	0.136	0.448	1.36	2.2	3.7	5.72	9.36	
	10	10	0.014	0.046	0.141	0.228	0.386	0.599	0.983	
	1450	967			12.1	15	19.1	38.7	58.3	
1.5:1	1150	767			9.96	12	15.4	31.2	49.2	
	870	580			7.66	9.3	11.8	24.1	40.7	
	580	387			5.23	6.32	8.14	16.4	28.9	
	400	267			3.66	4.41	5.7	11.6	20.3	
	300	200			2.77	3.35	4.34	8.78	15.5	
	200	133			1.87	2.28	2.91	5.95	10.5	
	100	67			0.957	1.16	1.49	3.04	5.37	
	10	7			0.099	0.12	0.155	0.316	0.56	
	1450	75	0.94	3.32	7.9	10.6	14	23.6	40	
	1150	575	0.74	2.67	6.39	8.55	11.3	19	31.7	
2:1	870	435	0.56	2.04	4.88	6.56	8.7	14.6	24	
	580	290	0.37	1.38	3.34	4.47	5.92	10	16.3	
	400	200	0.26	0.96	2.33	3.12	4.15	7.02	11.5	
	300	150	0.19	0.73	1.76	2.37	3.14	5.33	8.71	
	200	100	0.13	0.49	1.18	1.59	2.12	3.61	5.89	
	100	50	0.06	0.3	0.608	0.812	1.08	1.84	3.01	
	10	5	0.015	0.026	0.062	0.084	0.112	0.191	0.313	
	1450	580			5.97	6.99	11.4	18.2	31.4	
	1150	460			4.78	5.64	9.11	14.7	25.3	
	870	348			3.68	4.3	7	11.2	19.5	
2.5:1	580	232			2.48	2.92	4.76	7.68	13.3	
	400	160			1.73	2.05	3.34	5.38	9.32	
	300	120			1.32	1.55	2.53	4.06	7.08	
	200	80			0.888	1.05	1.71	2.75	4.79	
	100	40			0.448	0.528	0.867	1.4	2.43	
	10	4			0.046	0.054	0.089	0.144	0.251	
	1450	483			4.84	5.42	8.2	14	23.6	
	1150	383			3.88	4.34	6.55	11.3	19	
	870	290			2.97	3.34	5.04	8.66	14.6	
	580	193			2.02	2.25	3.42	5.89	9.92	
3:1	400	133			1.41	1.58	2.39	4.11	6.98	
	300	100			1.07	1.18	1.8	3.11	5.29	
	200	67			0.712	0.803	1.22	2.1	3.57	
	100	33			0.363	0.409	0.618	1.07	1.82	
	10	3			0.037	0.042	0.064	0.11	0.188	

注：1.表中没有转数值的应插入注。

2.③轴转速超过1450r/min时，向贵公司咨询。

3.③轴转速未达到10r/min，请使用10r/min的数据。

4.本表使用系数一律为1.0。

5.本表全部为减速（即1：1的）传动的输入功率。

当需要增速时，输入功率的数据应除以减速比。

Note: 1. Use insert if without speed.

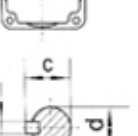
2. If the speed of shaft ③ is more than 1450r/min, please refer to us.

3. If the speed of shaft ③ is less than 10r/min, please use 10r/min.

4. All of the service factor is 1.0 in this table.

5. All of the input power ratings in this table are for the reduced transmission (expect 1:1), if required increasing, the input power rating divided by the reduced ratio.

160

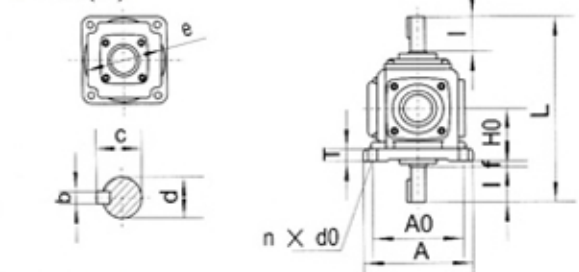


www.zgbode.com
坚守诚信、追求卓越

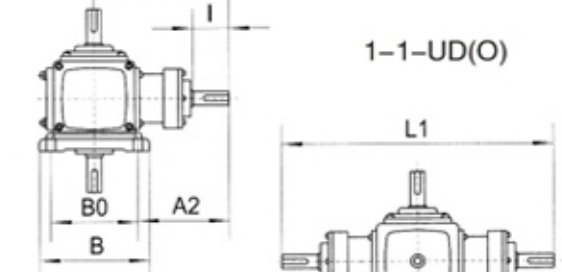
外形安装尺寸

MOUNTING Dimension Sheets-over view

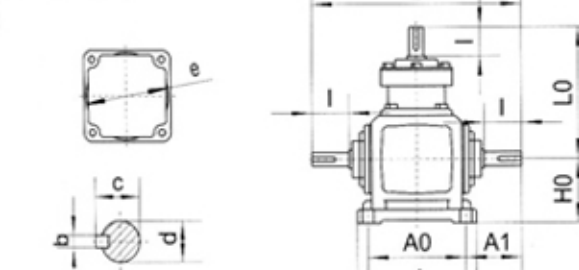
1-LR(O)



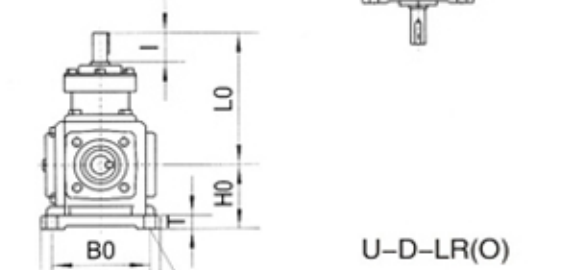
1-1-LR(O)



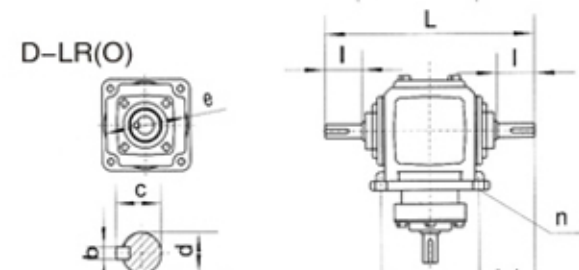
1-UD(O)



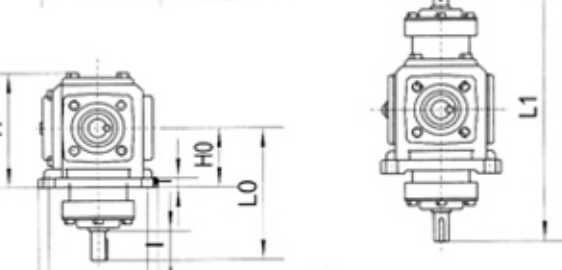
1-1-UD(O)



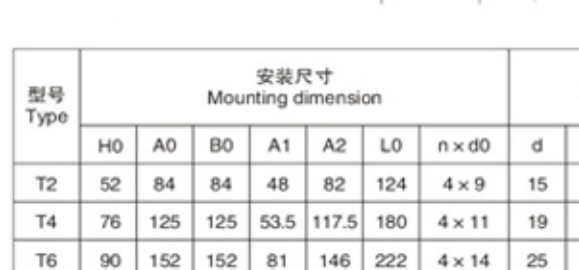
U-LR(O)



U-D-LR(O)



D-LR(O)



T7	100	174	174	86	171	265	4 × 14	32	10	35	60	M8	346	198	210	210	370	22	13	530	205 × 5
T8	115	195	195	110.5	210.5	308	4 × 14	40	12	43	75	M10	416	225	235	235	425.5	22	18	616	240 × 5
T10	140	240	240	120	240	360	4 × 16	45	14	48.5	90	M12	480	270	285	285	502.5	22	10	720	290 × 5
T12	175	290	290	130	270	415	4 × 21	50	14	53.5	100	M16	550	340	340	340	585	22	0	830	350 × 5

161