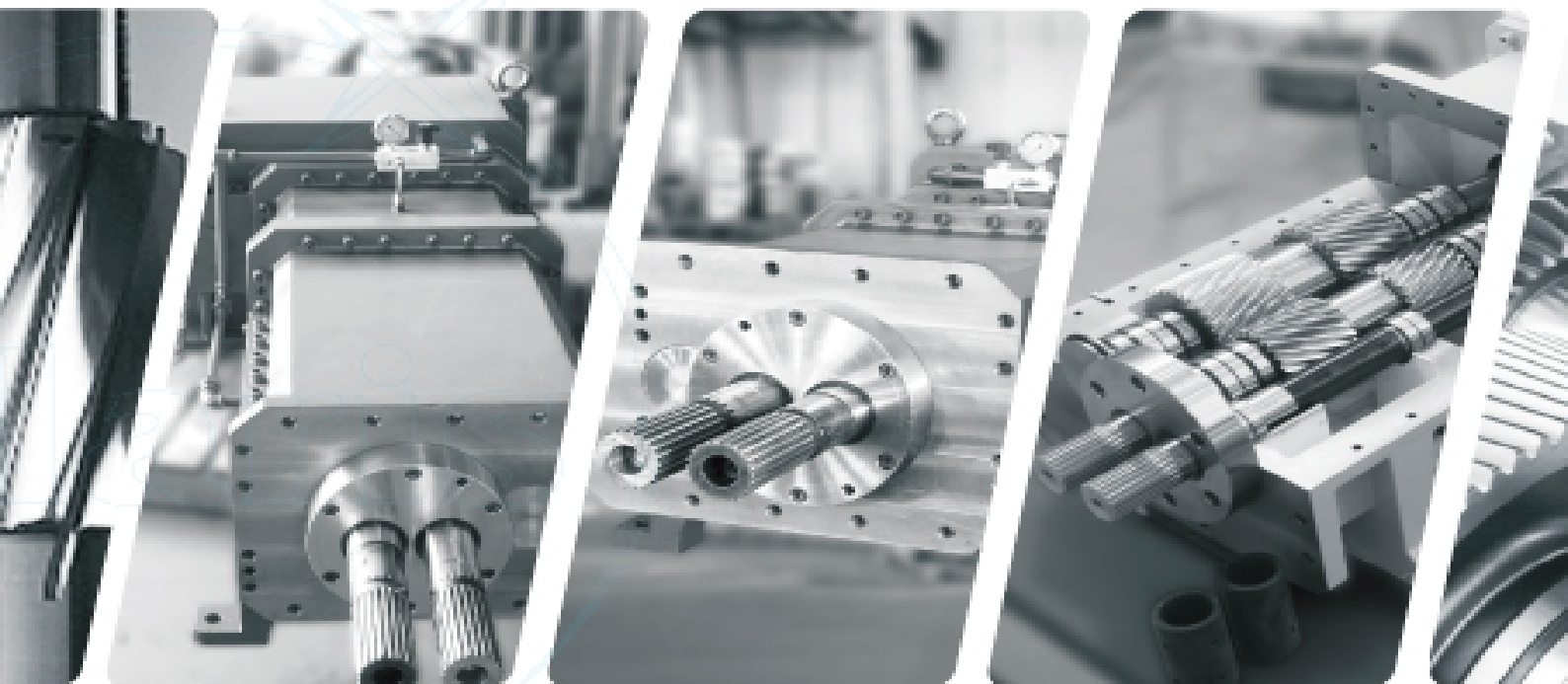




Gearbox for Twin-screw Extruder 雙螺桿押出機齒輪箱





Gearbox Selection Process

STEP	Gearbox for Co-Rotating Twin-screw Extruder	Gearbox for Counter-Rotating Twin-screw Extruder	REFERENCE
Step1	SELECT NOMINAL RATIO In $I_{Req} = n1/n2$ Example : $n1 = 1750 \text{ rpm}$: $n2 = 600 \text{ rpm}$ $I_{Req} = 1750/600 = 2.91$ Choose In close I_{Req} , see Tables 1, In = 3	SELECT NOMINAL RATIO In $I_{Req} = n1/n2$ Example : $n1 = 1000 \text{ rpm}$: $n2 = 50 \text{ rpm}$ $I_{Req} = 1000/50 = 20$ Choose In close I_{Req} , see Tables 2, In = 20	In = Nominal Ratio I_{Req} = Ratio (required) $n1$ = Input speed $n2$ = Driven machine speed
Step2	CALCULATE SINGLE SHAFT OUTPUT TORQUE T_{Req} $T_{Req} = \frac{P \times 9550 \times SF}{2 \times n2} \text{ Nm}$ Example : $P = 150 \text{ kw}$: $SF = 1.6$: $n2 = 600 \text{ rpm}$ $T_{Req} = 150 \times 9550 \times 1.6 / 2 \times 600 = 1910 \text{ Nm}$ For general conditions, our suggestion of SF is 1.6, if you have other different requirement, please contact with our Research & Development Dept.	CALCULATE SINGLE SHAFT OUTPUT TORQUE T_{Req} $T_{Req} = \frac{P \times 9550 \times SF}{2 \times n2} \text{ Nm}$ Example : $P = 22.5 \text{ kw}$: $SF = 1.6$: $n2 = 50 \text{ rpm}$ $T_{Req} = 22.5 \times 9550 \times 1.6 / 2 \times 50 = 3438 \text{ Nm}$ For general conditions, our suggestion of SF is 1.6, if you have other different requirement, please contact with our Research & Development Dept.	P = Power of Working Machine SF = Service Factor for Driven Machine $n2$ = Driven machine speed T_{Req} = Torsion of single shaft (required)
Step3	SELECT GEAR UNIT TYPE AND SIZE $T_n > T_{Req}$ Example : $T_{Req} = 1910 \text{ Nm}$ Gear unit type CDR 60/72 with Nominal Torque $T_n=3048 \text{ Nm}$ $T_n \geq T_{Req}$ CDR 60/72 Gear Unit is okay	SELECT GEAR UNIT TYPE AND SIZE $T_n > T_{Req}$ Example : $T_{Req} = 3438 \text{ Nm}$ Gear unit type CTR-H 55/65 with Nominal Torque $T_n=4104 \text{ Nm}$ $T_n \geq T_{Req}$ CTR-H 55/65 Gear Unit is okay	T_n = Nominal torsion T_{Req} = Torsion of single shaft (required)
Step4	CALCULATE THRUST LOAD $F_a = \pi \times \frac{ds^2 \times PS}{4 \times 10000} \text{ kN}$ Example : $ds = 72 \text{ mm}$: $PS = 150 \text{ Bar}$ $F_a = \pi \times \frac{72^2 \times 150}{4 \times 10000} = 61.07 \text{ kN}$	CALCULATE THRUST LOAD $F_a = \pi \times \frac{ds^2 \times PS}{4 \times 10000} \text{ kN}$ Example : $ds = 65 \text{ mm}$: $PS = 200 \text{ Bar}$ $F_a = \pi \times \frac{65^2 \times 200}{4 \times 10000} = 66.36 \text{ kN}$	ds = Screw Diameter PS = Pressure on screw F_a = Thrust Load 1 bar = 14.5 Psi
Step5	CALCULATE NOMINAL THRUST BEARING LIFE TIME $L_{h10} = \frac{10^6}{60 \times n2} \times \left[\frac{C_{dyn}}{F_a} \right]^{\left[\frac{10}{3} \right]} [\text{hr}]$ Example : $n2 = 600 \text{ rpm}$: $C_{dyn} = 471 \text{ kN}$: $F_a = 61.07 \text{ kN}$ $L_{h10} = \frac{10^6}{60 \times 600} \times \left[\frac{471}{61.07} \right]^{\left[\frac{10}{3} \right]} = 25177 [\text{hr}]$ NOMINAL THRUST BEARING LIFE TIME $\geq 25177 [\text{hr}]$	CALCULATE NOMINAL THRUST BEARING LIFE TIME $L_{h10} = \frac{10^6}{60 \times n2} \times \left[\frac{C_{dyn}}{F_a} \right]^{\left[\frac{10}{3} \right]} [\text{hr}]$ Example : $n2 = 50 \text{ rpm}$: $C_{dyn} = 471 \text{ kN}$: $F_a = 66.36 \text{ kN}$ $L_{h10} = \frac{10^6}{60 \times 50} \times \left[\frac{471}{66.36} \right]^{\left[\frac{10}{3} \right]} = 22904 [\text{hr}]$ NOMINAL THRUST BEARING LIFE TIME $\geq 22904 [\text{hr}]$	L_{h10} = LIFE TIME $n2$ = Driven machine speed C_{dyn} = Dyn.Capacity Thrust Bearing F_a = Thrust Load

同向 / 雙螺桿押出機齒輪箱選定方法

步驟	同向雙螺桿押出機齒輪箱	異向雙螺桿押出機齒輪箱	參照資料
步驟一	計算選用合適減速比 i_n $i_{Req} = n_1/n_2$ 範例： $n_1 = 1750 \text{ rpm}$; $n_2 = 600 \text{ rpm}$ $i_{Req} = 1750/600 = 2.91$ 選擇 i_n 並近似 i_{Req} , 由TABLE 1得知 $i_n = 3$	計算選用合適減速比 i_n $i_{Req} = n_1/n_2$ 範例： $n_1 = 1000 \text{ rpm}$; $n_2 = 50 \text{ rpm}$ $i_{Req} = 1000/50 = 20$ 選擇 i_n 並近似 i_{Req} , 由TABLE 2 得知 $i_n = 20$	i_n = 表定減速比 i_{Req} = 需求減速比 n_1 = 輸入端轉速 n_2 = 輸出端轉速
步驟二	計算單軸的輸出扭力 T_{Req} $T_{Req} = \frac{P \times 9550 \times SF}{2 \times n_2} \text{ Nm}$ 範例： $P = 150 \text{ kw}$; $SF = 1.6$; $n_2 = 600 \text{ rpm}$ $T_{Req} = 150 \times 9550 \times 1.6 / 2 \times 600 = 1910 \text{ Nm}$ 一般使用條件下，建議安全係數為1.6，如有不同技術要求，請與我司設計單位聯繫。	計算單軸的輸出扭力 T_{Req} $T_{Req} = \frac{P \times 9550 \times SF}{2 \times n_2} \text{ Nm}$ 範例： $P = 22.5 \text{ kw}$; $SF = 1.6$; $n_2 = 50 \text{ rpm}$ $T_{Req} = 22.5 \times 9550 \times 1.6 / 2 \times 50 = 3438 \text{ Nm}$ 一般使用條件下，建議安全係數為1.6，如有不同技術要求，請與我司設計單位聯繫。	P = 馬達功率 SF = 安全係數 n_2 = 輸出端轉速 T_{Req} = 單軸的需求輸出扭力
步驟三	選擇齒輪箱型號大小 Type $T_n > T_{Req}$ 範例： $T_{Req} = 1910 \text{ Nm}$ 對照其型號 COR 60/72，得知 $T_n = 3048 \text{ Nm}$。 $T_n \geq T_{Req}$ 故 COR 60/72 為合適的選擇！	選擇齒輪箱型號大小 Type $T_n > T_{Req}$ 範例： $T_{Req} = 3438 \text{ Nm}$ 對照其型號 CTR-H 55/65，得知 $T_n = 4104 \text{ Nm}$。 $T_n \geq T_{Req}$ 故 CTR-H 55/65 為合適的選擇！	T_n = 額定輸出扭力 T_{Req} = 單軸的需求輸出扭力
步驟四	計算止推軸承推力負荷 $F_a = \pi \times \frac{ds^2 \times PS}{4 \times 10000} \text{ kN}$ 範例： $ds = 72 \text{ mm}$; $PS = 150 \text{ Bar}$ $F_a = \pi \times \frac{72^2 \times 150}{4 \times 10000} = 61.07 \text{ kN}$	計算止推軸承推力負荷 $F_a = \pi \times \frac{ds^2 \times PS}{4 \times 10000} \text{ kN}$ 範例： $ds = 65 \text{ mm}$; $PS = 200 \text{ Bar}$ $F_a = \pi \times \frac{65^2 \times 200}{4 \times 10000} = 66.36 \text{ kN}$	ds = 螺桿直徑 PS = 螺桿承受壓力[Bar] F_a = 止推軸承推力負荷 $1 \text{ bar} = 14.5 \text{ Psi}$
步驟五	計算止推軸承的使用壽命時間 $L_{h10} = \frac{10^6}{60 \times n_2} \times \left(\frac{C_{dyn}}{F_a} \right)^{\left[\frac{10}{3} \right]} [\text{hr}]$ 範例： $n_2 = 600 \text{ rpm}$; $C_{dyn} = 471 \text{ kN}$; $F_a = 61.07 \text{ kN}$ $L_{h10} = \frac{10^6}{60 \times 600} \times \left(\frac{471}{61.07} \right)^{\left[\frac{10}{3} \right]} = 25177 [\text{hr}]$ 止推軸承使用壽命時間 $\geq 25177 [\text{hr}]$	計算止推軸承的使用壽命時間 $L_{h10} = \frac{10^6}{60 \times n_2} \times \left(\frac{C_{dyn}}{F_a} \right)^{\left[\frac{10}{3} \right]} [\text{hr}]$ 範例： $n_2 = 50 \text{ rpm}$; $C_{dyn} = 471 \text{ kN}$; $F_a = 66.36 \text{ kN}$ $L_{h10} = \frac{10^6}{60 \times 50} \times \left(\frac{471}{66.36} \right)^{\left[\frac{10}{3} \right]} = 22904 [\text{hr}]$ 止推軸承使用壽命時間 $\geq 22904 [\text{hr}]$	L_{h10} = 壽命 n_2 = 螺桿轉速 C_{dyn} = 止推軸承動額定荷重 F_a = 止推軸承推力負荷



Twin-Screw Extruder Features 雙螺桿特點

Twin-screw Extruder - Co-rotating

Double Helical Gear for Torsion.

It is manufactured as a single piece:

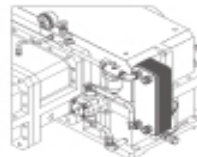
- No Axial Thrust Force
- achieves substantially more torque than other alternatives
- 100% Torque Output

Lower The Temperature Effectively

We Set up Cooling Pipe Inside to Lubricate Bearings, Gears and Other Parts It Will Ensure Your Gearbox operating under optimal temperature.

The Oil Cooling System Includes complete set:

- Oil pump system for forced lubrication
- Oil Pump (Heavy Oil Pump)
- Plate Heat Exchanger
- Oil Filter
- Pressure Gauge
- Oil Distributors
- Pressure switch
- Check Valve
- Lubrication Tube



The Spine with Cylinder Grinding

- gives you exceptional precision on positioning
- Minimal hindering on screw operation



同向 / 雙螺桿押出機齒輪箱

人字齒

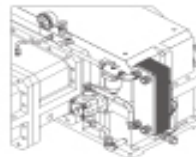
我們採用的是一體成形的人字齒

- 沒有軸向推力
- 扭力可達到最大
- 100% 完全扭力輸出

有效降低溫度

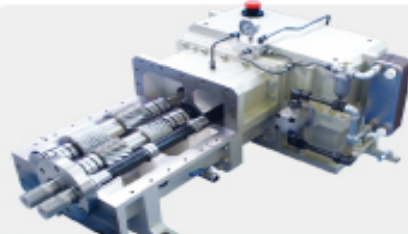
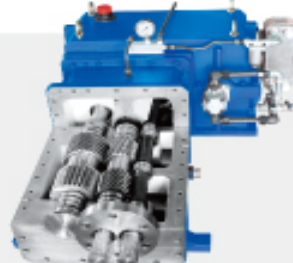
內部安裝了潤滑管路，可確實潤滑軸承、齒輪，以及其他零件，使齒輪箱運轉時可達到最佳的溫度狀態。我們包含了全套的冷卻系統裝置。

- 內部強制潤滑油管
- 幫浦 (重油幫浦)
- 板式熱交換器
- 自動潤滑油過濾器
- 壓力錶
- 分流排
- 壓力開關
- 透視逆止閥
- 潤滑管路



研磨花鍵

- 增強定位的精確度
- 讓螺桿運轉時更平順



Torque Data Sheet 扭力數據表

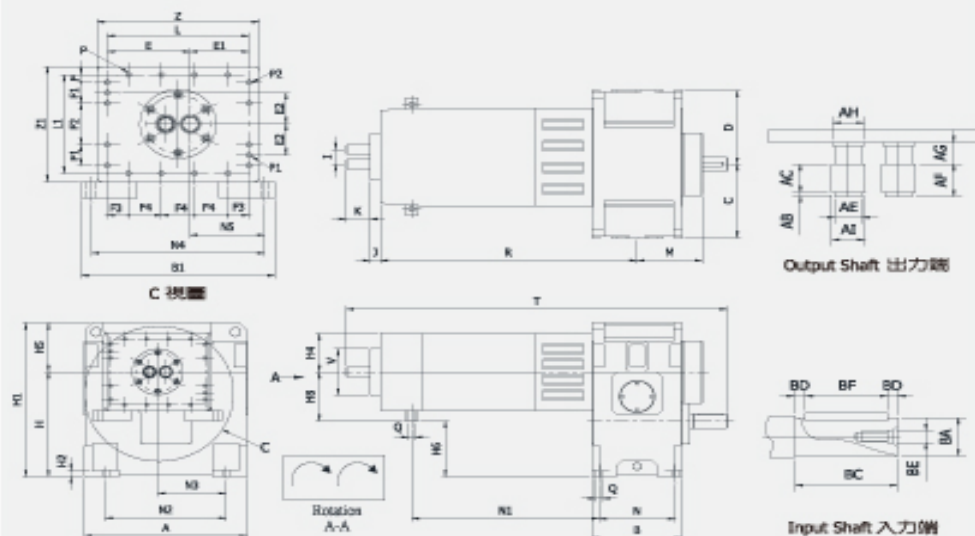
★Screw diameter as reference (★代表螺桿直徑)

Unit : mm

同向 / 雙螺桿押出機齒輪箱 Gearbox For Co-rotating Twin-screw Extruder (Table 1)						
型號 Type	減速比 Nominal Ratio [In]					
	2	3	5	2	3	5
	[Tn]額定輸出扭矩 Each shaft	[N2]輸出轉速 Driven machine speed [rpm]				
COR 26/32 ★	275	277	288	900	600	300
COR 35/42 ★	475	477	477	900	600	300
COR 48/58 ★	1534	1547	1585	900	600	300
COR 50/60 ★	1534	1547	1585	900	600	300
COR 58.5/70 ★	3049	3048	3151	900	600	300
COR 60/72 ★	3049	3048	3151	900	600	300
COR 64/77 ★	3767	3810	3915	800	600	300
COR 76/92 ★	5816	5892	6054	800	600	300
COR 78/95 ★	5816	5892	6054	800	600	300
COR 90/112 ★	-	9683	9970	-	600	300
COR 100/120 ★	-	14468	14916	-	600	300
COR 110/130 ★	-	22283	22385	-	600	300

同向 / 雙螺桿押出機齒輪箱 Gearbox For Co-rotating Twin-screw Extruder (Table 1)						
型號 Type	減速比 Nominal Ratio [In]			[Cdyn] 止推軸承 動額定荷重 [kN]	重量 Weight [KG]	潤滑容量 Oil Volume [LITER]
	2	3	5			
	[P] 額定馬力 Power of Working Machine [kw]					
COR 26/32 ★	52	35	18	73	95	6
COR 35/42 ★	90	60	30	170	240	13
COR 48/58 ★	289	194	100	349	415	22
COR 50/60 ★	289	194	100	349	415	22
COR 58.5/70 ★	575	388	198	471	760	24
COR 60/72 ★	575	388	198	471	760	24
COR 64/77 ★	631	479	246	577	1005	67
COR 76/92 ★	974	740	380	755	1380	92
COR 78/95 ★	974	740	380	755	1380	92
COR 90/112 ★	-	1217	626	1008	1825	82
COR 100/120 ★	-	1818	938	1263	2235	112
COR 110/130 ★	-	2800	1408	1580	4380	210

Overall Dimensions 機台三視圖



Specifications 規格表

★Screw diameter as reference (★代表螺桿直徑)

Unit : mm

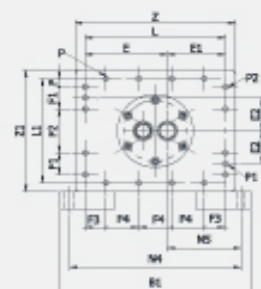
Type \ Size	A	B	C	D	H	H1	H2	H3	H4	I	J	K
CORH 26/32★	330	188	100	82.5	112	224	15	15	70	28.2	18	45
CORH 35/42★	405	240	125	100	140	280	18	18	90	35	24	61
CORH 48/58★	522	285	160	125	160	320	27	20	110	48	28	67
CORH 58.5/70★	655	350	200	160	200	400	30	25	130	58.5	30	85
CORH 64/77★	730	375	225	180	225	450	32	25	160	64	37	98
CORH 76/92★	800	415	250	200	250	500	35	28	180	76	28	127
CORH 90/112★	925	520	280	225	280	560	30	35	170	90	30	140
CORH 110/133★	1148	450	360	225	360	720	40	48	260	110	48	262

Type \ Size	M	M1	N	N1	N2	N3	Q	R	J	V	Weight 重量[kg]	Oil [kg] 英油油
CORH 26/32★	98	100	143	345	305	170	14	445	889	95	90	10
CORH 35/42★	132.5	134	205	493	370	208	18	628.5	927.5	120	220	15
CORH 48/59★	164	165	225	643	482	265	20	795.5	1155.5	150	380	20
CORH 58.5/70★	208	210	300	762	605	335	24	952	1402	180	680	40
CORH 64/77★	229	230	325	902	680	380	26	1010	1498.5	200	910	60
CORH 76/82★	260.5	262	365	977	750	425	26	1210	1756.5	220	1215	70
CORH 90/112★	295	296	466	984	870	478	28	1287	1933	260	1870	105
CORH 110/133★	271	285	360	1609	1089	555	30	2054	2869	330	4360	210

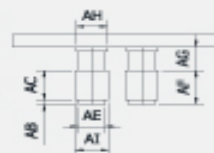
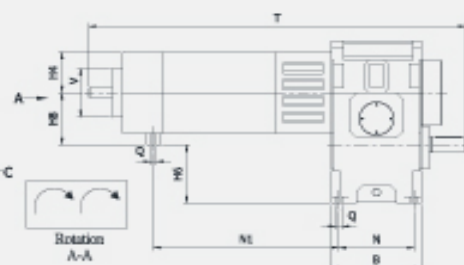
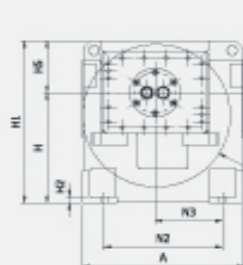
Type	Size	料管法蘭(客製化) Barrels Flange (customize)																	出力端 Output shaft							入力端 Input shaft					
		B1	E	E1	E2	F	F1	F2	L	F3	F4	L1	N4	N5	P n° 8	P1 H7	P2 n° 8	Z	Z1	Al (DIN5482)	AB	AC	AE	AH	AF	AG	BA	BC	BD	BE	BF
CORH 26/32 ★		280	95.1	88.9	42	15	30	54	164	22	40	144	235	104.4	M8	8	M8	180	180	17 x 14	4	21	12	14	25	-	28m6	63	6.5	M8	50
CORH 35/42 ★		280	119	84	54	17	36	72	203	26.5	50	178	250	107.5	M12	10	M12	225	200	22 x 19	5	35	19	20	30	18	35m6	80	10	M8	60
CORH 48/58 ★		380	163	115	67.5	24	45	90	278	41.5	65	228	340	146	M13	10	M12	300	250	32 x 28	5	34	26	30	38	22	45m6	100	10	M10	80
CORH 58.5/70 ★		480	199.25	140.75	82.5	30	55	110	340	35	90	280	425	183.25	M15	12	M14	370	320	40 x 36	6	42	35	38	48	27	55m6	125	13	M12	100
CORH 64/77 ★		520	222	158	90	40	60	120	380	40	100	320	470	203	M17	16	M16	410	350	48 x 44	6	50	42	44	56	30	55m6	125	13	M12	100
CORH 76/9 ★		584	248	172	97.5	40	65	130	420	45	110	340	534	229	M22	16	M20	460	380	60 x 55	8	50	53	54	58	52	60m6	130	10	M12	110
CORH 90/112 ★		618	272	182	97.5	47	65	130	454	62	110	354	560	235	M22	16	M20	500	400	62 x 57	8	62	55	57	70	50	80m6	180	10	M16	160
CORH 110/133 ★		845	370	280	157.5	55	105	210	630	52.5	175	530	760	325	M26	20	M24	680	580	80 x 74	10	90	70	75	100	60	90m6	200	10	M16	180



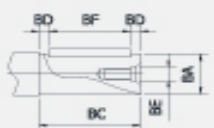
Overall Dimensions 機台三視圖



C 視圖



Output Shaft 出力端



Input Shaft 入力端

Specifications 規格表

★Screw diameter as reference (★代表螺桿直徑)

Unit : mm

Type	Size	A	B	C	D	H	H1	H2	H4	H5	H6	H8	I	J
COR-V 26/32 ★		300	168	150	150	212	324	16	70	112	100	112	26	16
COR-V 35/42 ★		380	225	190	190	265	405	20	90	140	125	140	35	24
COR-V 48/58 ★		480	265	240	240	340	500	23	110	160	160	160	48	28
COR-V 50/60 ★		480	265	240	240	340	500	23	110	160	160	160	50	28
COR-V 58.5/70 ★		580	350	295	295	425	650	31	130	225	225	200	59	30
COR-V 60/72 ★		580	350	295	295	425	650	31	130	225	225	200	60	30
COR-V 64/77 ★		650	375	325	325	475	725	35	160	250	250	225	64	37
COR-V 76/92 ★		700	415	350	350	530	810	40	180	280	280	250	76	28
COR-V 78/95 ★		700	415	350	350	530	810	40	180	280	280	250	78	28
COR-V 90/112 ★		885	485	325	340	555	835	45	170	260	275	280	90	30
COR-V 100/120 ★		710	485	355	355	596	878	45	195	280	371	225	100	30
COR-V 110/133 ★		-	-	-	-	-	-	-	280	-	-	380	110	48

Type	Size	K	M	N	N1	N2	N3	Q	R	T	V	Weight 重量[kg]	Oil [kg] 潤滑油
COR-V 26/32 ★		45	100	138	288.5	210	105	14	445	688	95	95	6
COR-V 35/42 ★		61	134	190	413.5	268	134	18	628.5	927.5	120	240	13
COR-V 48/58 ★		67	165	224	551	354	177	20	795.5	1115.5	150	415	22
COR-V 50/60 ★		67	165	224	551	354	177	20	795.5	1115.5	150	415	22
COR-V 58.5/70 ★		85	210	310	644	450	225	24	952	1402	180	780	24
COR-V 60/72 ★		85	210	310	644	450	225	24	952	1402	180	780	24
COR-V 64/77 ★		88	230	325	672	480	245	26	1008.5	1488.5	200	1005	67
COR-V 76/92 ★		127	262	355	840	500	250	26	1208.5	1758.5	220	1390	92
COR-V 78/95 ★		127	262	355	840	500	250	26	1208.5	1758.5	220	1390	92
COR-V 90/112 ★		140	288	431	878	475	192	28	1319.5	2028	260	1825	82
COR-V 100/120 ★		180	308	430	1172.5	520	210	28	1552.5	2345	280	2235	112
COR-V 110/133 ★		282	-	-	-	-	-	30	2054	2868	330	-	-

Type	Size	料管法蘭 (客製化) Barrele Flange (customize)																	出力端 Output shaft						入力端 Input shaft						
		B1	E	E1	E2	F	F1	F2	L	F3	F4	L1	N4	N5	P n° 8	P1 H7	P2 n° 8	Z	Z1	AI [DIN5482]	AB	AC	AE	AH	AF	AG	BA	BC	BD	BE	BF
COR-V 26/32 ★		260	95	89	42	15	30	54	164	22	40	144	235	104	M8	8	M8	180	180	17 x 14	4	21	12	-	25	-	28m6	63	6.5	M8	50
COR-V 35/42 ★		280	119	94	54	17	36	72	203	27	50	178	250	108	M12	10	M12	225	200	22 x 19	5	35	19	20	30	18	35m6	80	10	M8	80
COR-V 48/58 ★		380	163	115	67.5	24	45	90	278	42	65	228	340	146	M13	10	M12	300	250	32 x 28	5	34	26	30	38	22	45m6	100	10	M10	80
COR-V 50/60 ★		380	163	115	67.5	24	45	90	278	42	65	228	340	146	M13	10	M12	300	250	32 x 28	5	34	26	30	38	22	45m6	100	10	M10	80
COR-V 58.5/70 ★		480	199	141	82.5	30	55	110	340	35	90	280	425	183	M15	12	M14	370	320	40 x 36	6	42	35	38	48	27	55m6	125	13	M12	100
COR-V 60/72 ★		480	199	141	82.5	30	55	110	340	35	90	280	425	183	M15	12	M14	370	320	40 x 36	6	42	35	38	48	27	55m6	125	13	M12	100
COR-V 64/77 ★		520	222	158	90	40	60	120	380	40	100	320	470	203	M17	16	M16	410	350	48 x 44	6	50	42	44	56	30	55m6	125	13	M12	100
COR-V 76/92 ★		584	248	172	97.5	40	65	130	420	45	110	340	534	229	M22	16	M20	460	380	60 x 55	8	50	53	54	58	52	60m6	130	10	M12	110
COR-V 78/95 ★		584	248	172	97.5	40	65	130	420	45	110	340	534	229	M22	16	M20	460	380	60 x 55	8	50	53	54	58	52	60m6	130	10	M12	110
COR-V 90/112 ★		618	272	182	97.5	47	65	130	454	62	110	354	580	235	M22	16	M20	500	400	62 x 57	8	62	55	57	70	50	80m6	180	10	M16	160
COR-V 100/120 ★		-	310	210	112.5	50	75	150	520	85	130	400	325	85	M24	20	M24	570	450	72 x 66	10	90	80	85	100	57	90m6	180	10	M16	160
COR-V 110/133 ★		845	370	260	157.5	55	105	210	630	53	175	530	760	325	M26	20	M24	-	-	80 x 74	10	90	70	75	100	60	90m6	200	10	M16	180



Twin-Screw Extruder Features 雙螺桿特點

TWIN-SCREW EXTRUDER - COUNTER-ROTATING

Double Helical Gear for Torsion.

It is manufactured as a single piece:

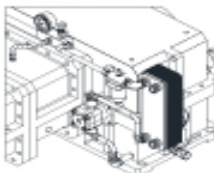
- No Axial Thrust Force
- achieves substantially more torque than other alternatives
- 100% Torque Output

Lower The Temperature Effectively

We Set up Cooling Pipe Inside to Lubricate Bearings, Gears and Other Parts It Will Ensure Your Gearbox operating under optimal temperature.

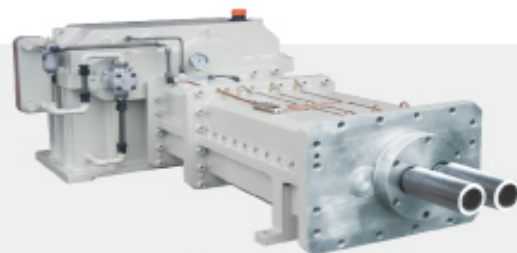
The Oil Cooling System Include complete set

- Oil pump system for forced lubrication
- Oil Pump (Heavy Oil Pump)
- Plate Heat Exchanger
- Oil Filter
- Pressure Gauge
- Oil Distributors
- Pressure switch
- Check Valve
- Lubrication Tube



The Spline with Cylinder Grinding

- gives you exceptional precision on positioning
- Minimal hindering on screw operation



異向 / 雙螺桿押出機齒輪箱

人字齒

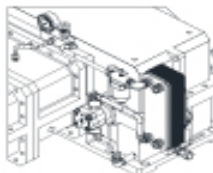
我們採用的是一體成形的人字齒

- 沒有軸向推力
- 扭力可達到最大
- 100% 完全扭力輸出

有效降低溫度

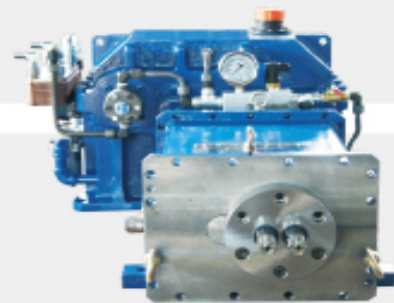
內部安裝了潤滑管路。可確實潤滑軸承、齒輪，以及其他零件。使齒輪箱運轉時可達到最佳的溫度狀態。我們包含了全套的冷卻系統裝置。

- 內部強制潤滑迴路
- 幫浦(重油幫浦)
- 板式熱交換器
- 自動潤滑油過濾器
- 壓力錶
- 分油排
- 壓力開關
- 透視逆止閥
- 潤滑管路



研磨花鍵

- 增強定位的精確度
- 讓螺桿運轉時更平順



Torque Data Sheet 扭力數據表

★Screw diameter as reference (★代表螺桿直徑)

Unit : mm

異向雙螺桿押出機齒輪箱
Gearbox for Counter-Rotating Twin-screw Extruder (Table 2)

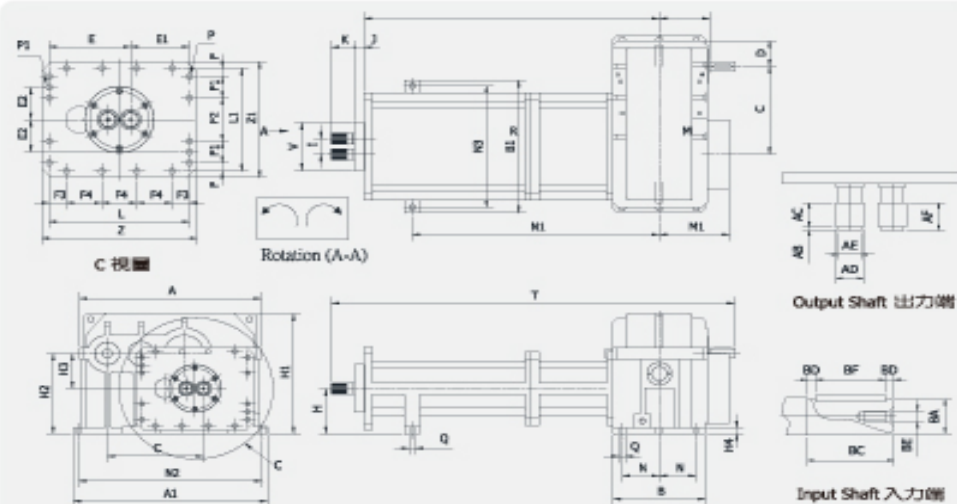
型號 Type	減速比 Nominal Ratio (In)	[Tn] 額定輸出扭矩 Each shaft	[N2]輸出轉速 Driven machine speed [rpm]
CTR 44/55 ★	20	1527	50
CTR 55/65 ★	20	4104	50
CTR 64/75 ★	20	6211	50
CTR 75/90 ★	20	10080	45
CTR 90/107 ★	20	17308	45
CTR 110/130 ★	20	31680	40
CTR 130/160 ★	20	47367	40

異向雙螺桿押出機齒輪箱
Gearbox for Counter-Rotating Twin-screw Extruder (Table 2)

型號 Type	[P] 額定馬力 Power of Working Machine [kw]	[Cdyn] 止推軸承 動額定荷重 [kN]	重量 Weight [KG]	潤滑容量 Oil Volume [LITER]
CTR 44/55 ★	13	349	290	18
CTR 55/65 ★	36	471	656	32
CTR 64/75 ★	54	577	805	47
CTR 75/90 ★	79	755	1085	67
CTR 90/107 ★	122	1008	2185	97
CTR 110/130 ★	181	1580	3250	135
CTR 130/160 ★	331	1992	5655	182



Specifications 規格表



Overall Dimensions 機台三視圖

★Screw diameter as reference (★代表螺桿直徑)

Unit : mm

Type	Size	A	A1	B	B1	C	D	H	H1	H2
CTR-H 44/55★		495	525	245	390	265	80	125	362	237
CTR-H 55/65★		589	630	300	470	312	90	160	425	283.7
CTR-H 64/75★		640	710	340	500	355.5	100	160	465	305
CTR-H 75/90★		735	800	380	560	401	125.5	180	521	341
CTR-H 90/107★		910	940	450	618	503.5	157.5	220	614.5	416.5
CTR-H 110/130★		1100	1155	550	750	637.5	180	280	815	535
CTR-H 130/160★		1220	1380	730	900	715	200	320	930	610

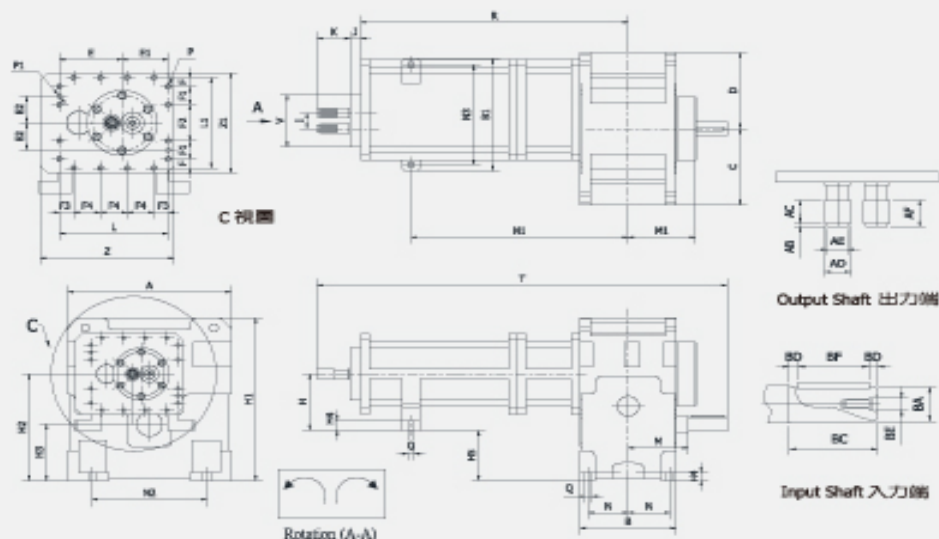
Type	Size	H3	H4	I	J	K	N1	N2	N3	Q
CTR-H 44/55★		112	20	44	20	60	553	496	350	16
CTR-H 55/65★		123.7	20	55	31	75	601	595	430	20
CTR-H 64/75★		145	26	64	44	86	632	672	465	20
CTR-H 75/90★		161	28	75	30	110	993	760	520	22
CTR-H 90/107★		196.5	35	90	57	93	1120	890	568	26
CTR-H 110/130★		255	45	110	33	160	1290	1090	685	30
CTR-H 130/160★		290	50	130	68	202	1885	1320	840	32

Type	Size	R	T	V	M	M1	N	Input shaft 入力端					Output shaft 出力端				
								BA	BC	BD	BE	BF	AD (DIN 5480)	AB	AC	AE	AF
CTR-H 44/55★		683	970.5	150	137.5	200	92.5	32m6	70	5	M8	60	W28 x 1.5 x 30 x 17	6.5	28.5	24	35
CTR-H 55/65★		957	1308	170	165	226	120	35m6	80	10	M10	60	W40 x 1.5 x 30 x 25	8	44	30	50
CTR-H 64/75★		992	1402	195	190	260	135	40m6	90	10	M10	70	W45 x 2 x 30 x 21	8	44	40	50
CTR-H 75/90★		1168	1623	220	215	305	150	45m6	100	10	M10	80	W55 x 3 x 30 x 17	8	53	48.5	60
CTR-H 90/107★		1320	1850	260	240	352	180	60m6	140	10	M12	120	W65 x 2.5 x 30 x 24	8	62	50	70
CTR-H 110/130★		1520	2198	300	325	410	225	75m6	160	10	M16	140	W75 x 2 x 30 x 36	8.5	73.5	70	76.5
CTR-H 130/160★		2160	3075	380	465	515	265	80m6	180	10	M16	160	W85 x 3 x 30 x 27	8	105	78	113

Type	Size	料管法蘭 (客製化)						Barrels [customize]							
		E	E1	E2	F	F4	L	L1	P	P1	Z	F1	F2	F3	Z1
CTR-H 44/55★		165	121	67.5	15	75	286	210	M12	12	310	45	90	30.5	240
CTR-H 55/65★		199	144	82.5	21.5	86	343	263	M18	16	380	55	110	42.5	295
CTR-H 64/75★		224	160	84	25	95	384	274	M16	16	420	56	112	49.5	305
CTR-H 75/90★		256.5	181.5	90	34	110	438	308	M20	16	475	60	120	54	345
CTR-H 90/107★		272	182	97.5	47	110	454	354	M22	16	500	65	130	62	400
CTR-H 110/130★		330	220	135	50	130	550	460	M24	16	600	90	180	80	510
CTR-H 130/160★		405	275	165	60	160	680	560	M30	20	740	110	220	100	620



Specifications 規格表



Overall Dimensions 機台三視圖

★Screw diameter as reference (★代表螺桿直徑)

Unit : mm

Type	Size	A	B	B1	C	D	H	H1	H2	H3
CTR-V 55/65 ★		400	290	470	157.5	242.5	160	610	477.5	125
CTR-V 64/75 ★		485	325	500	178	287	160	695	542.5	140
CTR-V 75/90 ★		520	360	560	200	320	180	770	597.5	160
CTR-V 90/107 ★		680	515	618	264.5	395.5	175	948	723	180
CTR-V 110/130 ★		710	564	750	232.5	477.5	230	1005	765	200

Type	Size	H4	I	J	K	N1	N2	N3	Q
CTR-V 55/65 ★		25	55	31	75	848	300	430	20
CTR-V 64/75 ★		21	64	44	86	884.5	355	465	20
CTR-V 75/90 ★		26	75	30	110	1048	400	520	22
CTR-V 90/107 ★		33	90	50	130	1305	500	620	31
CTR-V 110/130 ★		35	110	55	195	1591	652	567	32

Type	Size	R	T	V	M	M1	N	入力端 Input shaft					出力端 Output shaft				
								BA	BC	BD	BE	BF	AD (DIN 5480)	AB	AC	AE	AF
CTR-V 55/65 ★		957	1330	170	145	220	127	28	80	5	M8	60	W40 x 1.5 x 25	6	44	30	50
CTR-V 64/75 ★		1044.5	1427	195	176.5	252.5	142.5	32m6	70	5	M8	60	W45 x 2 x 21	6	44	40	50
CTR-V 75/90 ★		1223	1655.5	220	190	292.5	157.5	35m6	80	10	M10	60	W55 x 3 x 17	8	53	48.5	60
CTR-V 90/107 ★		1535	2132.5	270	275	417.5	227.5	45m6	100	10	M12	80	W65 x 2 x 31	8	62	50	70
CTR-V 110/130 ★		1821	2518	300	297	447	189	50m6	112	10	M12	120	W78 x 2 x 38	6.5	73.5	70	76.5

Type	Size	料管法蘭 (客製化)						Barrels [customize]							
		E	E1	E2	F	F4	L	L1	P	P1	Z	F1	F2	F3	Z1
CTR-V 55/65 ★		199	144	82.5	21.5	86	343	263	M18	16	380	55	110	42.5	295
CTR-V 64/75 ★		224	160	84	25	95	384	274	M16	16	420	56	112	49.5	305
CTR-V 75/90 ★		256.5	181.5	90	34	110	438	308	M20	16	475	60	120	54	345
CTR-V 90/107 ★		272	182	97.5	47	110	454	354	M22	16	500	65	130	62	400
CTR-V 110/130 ★		330	220	135	50	130	550	460	M24	16	600	90	180	80	510



Power Transmission Solution



Design by Polaris 2014-04, 1,000 pcs, +886-4-26917070



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