

# Gear broaching



## 双伺服数控立式内拉床

LG5740MS-2000

Double servo CNC vertical internal broaching machine



- 双电机同步伺服驱动，满足大吨位拉削
- Double-motor synchronous servo drive, meeting the needs of large-tonnage broaching
- 双床身对向布局，拉削在中间，受力与拉削中心在同一平面上
- Double lathe beds are arranged in opposite directions, broaching is in the middle, and the stress is on the same plane as the broaching center.

项目 ITEM	单位 UNIT	LG5740MS-2000
额定拉削力 Rated broaching force	kN	400
最大行程 Max.stroke	mm	2000
提刀行程 Lifting stroke	mm	1300
拉削速度 Broaching speed	m/min	1 ~ 8
返程速度 Return speed	m/min	1 ~ 13
适用拉刀长度 Applicable broach length	mm	1250 ~ 2000
最大工件外径 Max. workpiece outer diameter	mm	Φ360
主电机功率 Main motor power	kW	37×2
机床总功率 Total power	kW	80
机床外形 Machine tool shape	m	3.0×4.9×5.5
机床净重 Net weight	t	24



## 伺服上拉式立式内拉床

LG57AS 系列

Servo up-drawing type vertical internal broaching machine LG57AS Series



- 伺服驱动  
· Servo drive
- 上拉式作业，地面式安装  
· Pull-up operation, ground installation
- 系列产品多种多样，适宜自动化连线  
· Series products are various and suitable for automatic connection



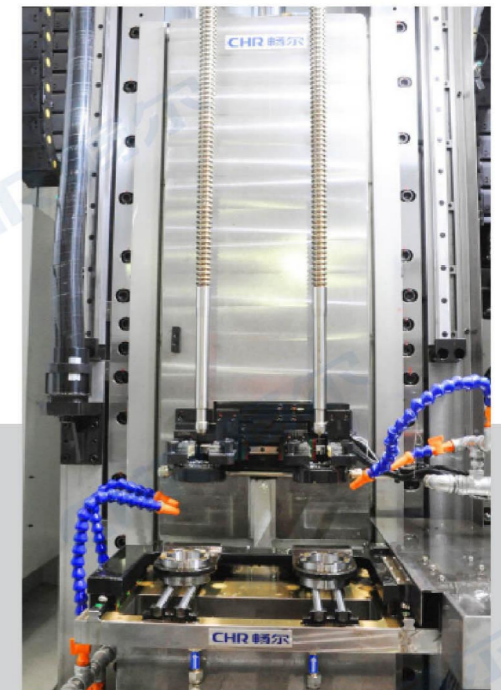
项目 ITEM	单位 UNIT	LG5710AS-1200	LG5720AS-1600	LG5730AS-2000
额定拉削力 Rated broaching force	kN	100	200	300
最大行程 Max.stroke	mm	1200	1600	2000
提刀行程 Lifting stroke	mm	1000	1000	1000
拉削速度 Broaching speed	m/min	1 ~ 7	1 ~ 7	1 ~ 7
返程速度 Return speed	m/min	1 ~ 10	1 ~ 10	1 ~ 10
适用拉刀长度 Applicable broach length	mm	750 ~ 1300	1100 ~ 1700	1300 ~ 2100
最大工件外径 Max. workpiece outer diameter	mm	Φ200(单工位) Φ150(双工位)	Φ240(单工位) Φ200(双工位) Φ160(三工位)	Φ260(单工位)
主电机功率 Main motor power	kW	15	22	37
机床总功率 Total power	kW	21	26	45
机床外形 Machine tool shape	m	3.6x4.6x4	3.8x5x5.5	5x5.5x5.1
机床净重 Net weight	t	9.2	12	20



## 液压上拉式立式内拉床

LG57RS 系列

Hydraulic pull-up type vertical internal broaching machine LG57RS Series



- 液压驱动  
· Fluid drive
- 上拉式作业，地面安装  
· Pull-up operation, ground installation

项目 ITEM	单位 UNIT	LG5710RS-1200	LG5720RS-1600	LG5730RS-1600
额定拉削力 Rated broaching force	kN	100	200	300
最大行程 Max.stroke	mm	1200	1600	1600
提刀行程 Lifting stroke	mm	1250	1250	1250
拉削速度 (分档调速) Broaching speed (Step speed regulation)	m/min	2.5 ~ 4.5 ~ 7	2.5 ~ 4.5 ~ 7	2.5 ~ 4.5 ~ 7
返程速度 Return speed	m/min	14	14	14
适用拉刀长度 Applicable broach length	mm	800 ~ 1300	1100 ~ 1700	1100 ~ 1600
最大工件外径 Max. workpiece outer diameter	mm	Φ200 (单工位 Single station) Φ160 (双工位 Duplex position) Φ110 (三工位 Three stations)	Φ240 (单工位 Single station) Φ160 (双工位 Duplex position) Φ110 (三工位 Three stations)	Φ240 (单工位 Single station) Φ160 (双工位 Duplex position) Φ110 (三工位 Three stations)
主电机功率 Main motor power	kW	15	22	30
机床总功率 Total power	kW	22	33	40
机床外形 Machine tool shape	m	4.3x4.8x4.4	5.3x3.7x4.6	6.5x4x5.1
机床净重 Net weight	t	9	15	18



## 双缸双立柱上拉式立式内拉床

Double-cylinder double-column pull-up type vertical internal broaching machine

LG557FA 系列

LG557FA Series



- 单床身结构  
· Single bed structure
- 双油缸驱动，满足大切削力需求  
· Double cylinder drive, meet the demand of large cutting force
- 机械臂实现独立换刀，操作便捷  
· The mechanical arm realizes independent tool change, which is convenient to operate.

项目 ITEM	单位 UNIT	LG55740FA-2000	LG55760FA-2000
额定拉削力 Rated broaching force	kN	400	600
最大行程 Max.stroke	mm	2000	2000
提刀行程 Lifting stroke	mm	1400	1400
拉削速度(分档调速) Broaching speed(Step speed regulation)	m/min	1 ~ 7	1 ~ 6
返程速度 Return speed	m/min	2 ~ 15	2 ~ 12
适用拉刀长度 Applicable broach length	mm	1050 ~ 2100	1050 ~ 2100
最大工件外径 Max. workpiece outer diameter	mm	Φ280(单工位 Single station) Φ240(双工位 Duplex position)	Φ300(单工位 Single station) Φ260(双工位 Duplex position)
主电机功率 Main motor power	kW	45	53.5
机床总功率 Total power	kW	67	76
机床外形 Machine tool shape	m	4.6×5.8×7.1	4.8×6×7.2
机床净重 Net weight	t	35	40



## 双缸双床身上拉式立式内拉床

Double-cylinder double-bed pull-up type vertical internal broaching machine

LG557MH 系列

LG557MH Series

- 双床身结构，双油缸驱动  
· Double bed structure, driven by double cylinders
- 适合加工精度高的各种较大内花键、内齿轮以及各种形状的内孔  
· Suitable for machining various large internal splines, internal gears and internal holes of various shapes with high precision



项目 ITEM	单位 UNIT	LG55740MH-2000	LG55760MH-2000
额定拉削力 Rated broaching force	kN	400	600
最大行程 Max.stroke	mm	2000	2000
提刀行程 Lifting stroke	mm	1400	1400
拉削速度(分档调速) Broaching speed(Step speed regulation)	m/min	1 ~ 7	1 ~ 6
返程速度 Return speed	m/min	2 ~ 15	2 ~ 12
适用拉刀长度 Applicable broach length	mm	1200 ~ 2000	1300 ~ 2000
最大工件外径 Max. workpiece outer diameter	mm	Φ280(单工位 Single station)	Φ300(单工位 Single station)
主电机功率 Main motor power	kW	45	54
机床总功率 Total power	kW	67	76
机床外形 Machine tool shape	m	5.3×6.5×6	5.5×7×6
机床净重 Net weight	t	24	26



## 液压下拉式立式内拉床

Hydraulic pull-down type vertical internal broaching machine

### LG51SH 系列

LG51SH Series

- 地坑安装或站架操作  
· Pit installation or stand operation
- 适用工件范围广，加工精度高，生产节拍快  
· Wide range of applicable workpieces, high machining accuracy and fast production tempo
- 拉刀全程护送，防止拉刀摆动，提高拉削精度  
· Broach is escorted in the whole process to prevent broach from swinging and improve broaching accuracy

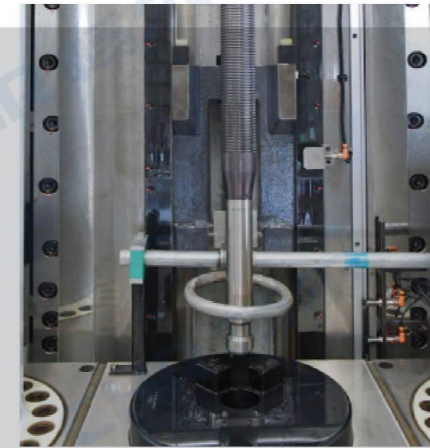


## 液压双缸下拉式立式内拉床

Hydraulic double-cylinder pull-down type vertical internal broaching machine LG55KH Series

### LG55KH 系列

- 液压双缸驱动，满足特大吨位工件加工  
· Hydraulic double-cylinder drive, meeting the processing of extra-large tonnage workpieces
- 拉刀全程护送，防止拉刀摆动，提高拉削精度  
· Broach is escorted in the whole process to prevent broach from swinging and improve broaching accuracy
- 双缸驱动，受力与拉削中心同面，拉削稳定  
· Driven by double cylinders, the stress is in the same plane as the broaching center, and broaching is stable



项目 ITEM	单位 UNIT	LG5120SH-1600	LG5130SH-1600	LG5140SH-2000
额定拉削力 Rated broaching force	kN	200	300	400
最大行程 Max. stroke	mm	1600	1600	2,000
提刀行程 Lifting stroke	mm	500	1200	1200
拉削速度 (分档调速) Broaching speed (Step speed regulation)	m/min	2.5 ~ 4.5 ~ 7	2.5 ~ 4.5 ~ 7	2 ~ 4 ~ 6
返程速度 Return speed	m/min	14	14	12
适用拉刀长度 Applicable broach length	mm	1200 ~ 1700	1100 ~ 1700	1200 ~ 2100
最大工件外径 Max. workpiece outer diameter	mm	Φ300	Φ300	Φ300
主电机功率 Main motor power	kW	22	37	45
机床总功率 Total power	kW	30	42	50
机床外形 Machine tool shape	m	3.5×5.0×5.8	4.0×5.8×6.7	4.0×6.0×8.0
机床净重 Net weight	t	15	18	20

项目 ITEM	单位 UNIT	LG5560KH-2000	LG55100KH-2000	LG55160KH-3000
额定拉削力 Rated broaching force	kN	600	1,000	1600
最大行程 Max. stroke	mm	2000	2,000	3000
提刀行程 Lifting stroke	mm	600	600	500
拉削速度 Broaching speed	m/min	1 ~ 5	1 ~ 5	0.5 ~ 3
返程速度 Return speed	m/min	10	10	2.5
适用拉刀长度 Applicable broach length	mm	1200 ~ 2000	1200 ~ 2000	1500 ~ 2400
最大工件外径 Max. workpiece outer diameter	mm	Φ400	Φ450	Φ450
主电机功率 Main motor power	kW	55	40×2	90
机床总功率 Total power	kW	70	97	110
机床外形 Machine tool shape	m	4.2×6.2×8.5	4.2×6.2×8.5	4.2×8.3×9.6
机床净重 Net weight	t	30	36	45