



Horizontal Lathe



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DMTG E-PC Series 2016-01

Horizontal
lathe

DALIAN MACHINE TOOL GROUP CORPORATION

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CDE Series



Product presentation

+ CDE-A Series horizontal lathe feature mature construction, a wide range of spindle speed, and is suitable for job shops with small volume production and machinery maintenance shops. This lathe can perform turning applications on I.D. & O.D. cylindrical surfaces, conical surface, end face, and also is capable of grooving, chamfering, drilling, reaming, tapping and oil grooving. Different metric, imperial, module, diametral and circular pitch threads can be produced on this lathe. The tolerance of machined parts in this machine mounts to Class IT7 and the surface roughness goes to Ra1.6.



PRODUCT NAME	Unit	CDE6140A	CDE6240A	CDE6150A	CDE6250A	CDE6166A	CDE6266A
Specification							
Max. swing over bed	mm	400		500		660	
Max. Swing over cross slide	mm	220		290		430	
Max. swing over in gap	mm	—	700	—	760	—	910
Gap length (from spindle nose)	mm	—	260	—	260	—	260
Max. workpiece length	mm	750/1000/1500/2000/3000					
Spindle							
Spindle nose		C6					
Spindle bore	mm	52					
Taper of spindle bore		MT 6					
Max. Spindle torque	Nm	1586					
Spindle speed ranges	rpm	11-1400 (22 Speeds)					
Spindle centre height	mm	220		250		325	
Spindle motor power		7.5kW/1440rpm(50HZ) OP:5.5kW/960rpm(60HZ)					
Tailstock							
Tailstock quill diameter	mm	75					
Tailstock quill travel	mm	150					
Tailstock quill taper		No 5 MT					
Feed box (metric ; inch screw)							
Longitudinal feed		0.035~2.842mm/r(63 Speeds)		*0.0013 ~ 0.1057in/r(63 Speeds)			
Cross feed		0.009 ~ 0.804 mm/r		*0.0003~0.0304in/r			
Metric Pitch	mm	0.5 ~ 240 (66 Kinds)		*0.5 ~ 160 (43 Kinds)			
Modular Pitch		0.25~120 (57 Kinds)		*0.25~80 (38 Kinds)			
Imperial Pitch	TPI	80 ~ 1/4(49 Kinds)		*80 ~ 1/4(47 Kinds)			
Diametrical Pitch	DP	160 ~ 7/16(50 Kinds)		*160 ~ 7/16(48 Kinds)			
Tool post							
Max. tool shank size	mm	25×25					
Travel of top slide	mm	150					
Swivel angle of top slide		±45°					
Max. Travel of Tool post	X-axis	mm	348			373	
	Z-axis	mm	700/950/1450/1950/2950				
Machine dimensions							
Overall dimensions(L×W×H)	mm	2400×1198×1362 (750)	2400×1198×1401 (750)	2400×1223×1545 (750)			
		2650×1198×1362(1000)	2650×1198×1401(1000)	2650×1223×1545(1000)			
		3150×1198×1362(1500)	3150×1198×1401(1500)	3150×1223×1545(1500)			
		3650×1198×1362(2000)	3650×1198×1401(2000)	3650×1223×1545(2000)			
		4650×1198×1362(3000)	4650×1198×1401(3000)	4650×1223×1545(3000)			
Machine weight	CDE61	kg	2000/2050/2100/2210/2410	2100/2140/2200/2310/2510	2165/2215/2265/2375/3145		
	CDE62	kg	2020/2070/2120/2230/2430	2120/2160/2220/2330/2530	2185/2235/2285/2395/3165		

*Inch screw lathes

Standard configurations

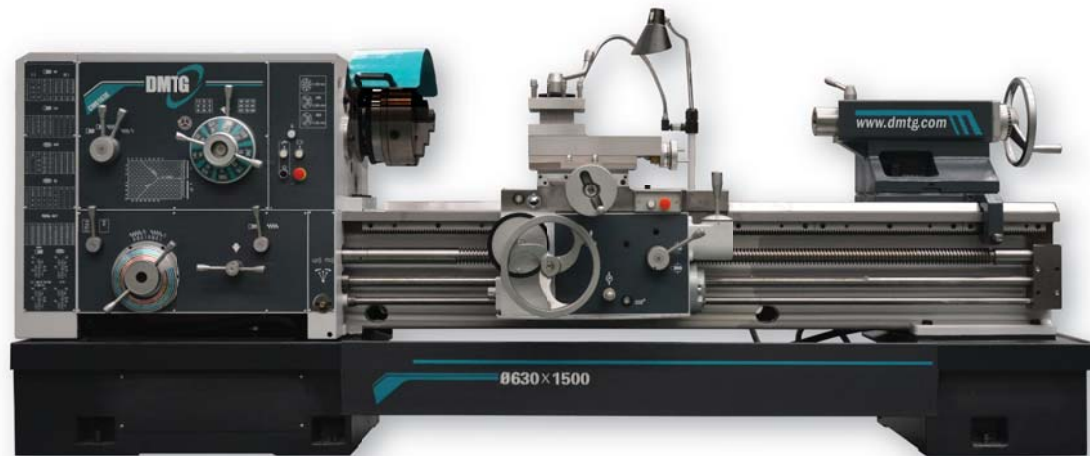
- 3-Jaw chuck
- Center used on the tailstock
- Φ30 ~ Φ160mm Steady rest (40A ≥1500mm Available)
- Φ30 ~ Φ200mm Steady rest (50A/66A ≥1500mm Available)
- Φ20 ~ Φ80mm Follower rest (40A ≥1500mm Available)
- Φ20 ~ Φ100mm Follower rest (50A/66A ≥1500mm Available)
- Chuck guard(foreign sales)
- Rear splash guard(foreign sales)
- 4-way tool post
- Standard toolkit

Optional configurations

- 4-Jaw chuck
- Rear splash guard
- Live center
- Face plate
- Drive plate
- DRO
- Anchor bolt
- Leveling pad
- American type quick-change tool post
- German type quick-change tool post
- Italy type quick-change tool post
- Thread dial
- Taper-turning attachment
- Vertical hard stop
- Spindle center and center sleeve
- Vertical and horizontal copper nut

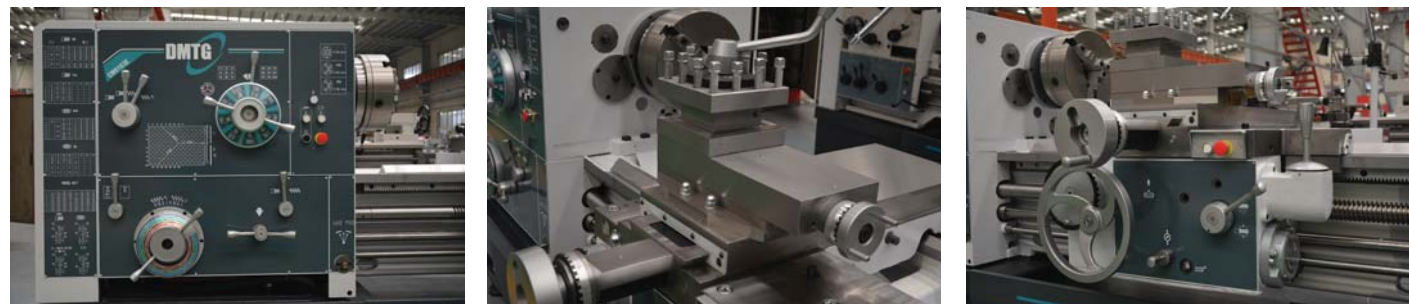
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CW-E Series



Product presentation

- + CW-E Series horizontal lathes are capable of various turning applications, mainly used for I.D. and O.D. cylindrical face, taper surface and other parts that features rotating surface. The lathe is suited for face turning, grooving, parting, drilling and other popular metric, inch, module and diametral pitch threads.
- + This machine is perfectly suitable for small volume production plant and machinery maintenance shops, and can machine a range of materials, including steel, cast iron and non-ferrous metals.
- + Gap lathe features a removable gap, which is the main difference between horizontal lathe and gap lathe, and can be adjusted to machine larger or longer workplaces, thus suitable for process disk parts and irregular shaped parts
- + Various combinations of metric, imperial lathes with miscellaneous functions are available upon request.



PRODUCT NAME	Unit	CW6163E	CW6263E	CW6180E	CW6280E	CW61100E	CW62100E
Specification							
Max. swing over bed	mm	Φ630		Φ800		Φ1000	
Max. Swing over cross slide	mm	Φ350		Φ480		Φ710	
Max. swing over in gap	mm	—	Φ800	—	Φ1000	—	Φ1230
Gap length (from spindle nose)	mm	—	350	—	350	—	350
Max. workpiece length	mm	1000/1500/2000/3000/4000/5000/6000/8000				1000/1500/2000/3000/4000/5000	
Spindle							
Spindle nose		C11 *D11					
Spindle bore	mm	Φ100(C11) *Φ105(D11) (OP:Φ130)					
Chuck size	mm	Φ315		Φ400		Φ400	
Taper of spindle bore		Metric 120(1:20)/* OP: Spindle bore 130mm Metric 140(1:20)					
Max. Spindle torque	Nm	2400					
Spindle speed ranges	rpm	7.5-1000(18 Speeds)					
Spindle centre height	mm	315		400		515	
Spindle motor power		11kW 1460r/min(50HZ) OP:15kW 1460r/min(50HZ)					
Tailstock							
Tailstock quill diameter	mm	Φ100 OP:Φ125					
Tailstock quill travel	mm	240					
Tailstock quill taper		No 6 MT					
Feed box (metric *inch screw)							
Longitudinal feed	mm/r	1/1 0.1~1.52 (64 Speed ranges) ; 16/1 1.6~24.3(64 Speed ranges)					
Cross feed		Transverse feeding is 1/2 times longitudinal feed					
Metric Pitch	mm	0.5~240 (52 Kinds) *1~256 (57 Kinds)		1~240 (50 Kinds) *1~256 (57 Kinds)		0.5~240 (52 Kinds) *1~256 (57 Kinds)	
Modular Pitch	mm	0.5 ~ 120(53 Kinds) *0.5 ~ 128(57 Kinds)					
Imperial Pitch	TPI	28~1(34 Kinds) *32~1/16(67 Kinds)		14~1(26 Kinds) *32~1/16(67 Kinds)		28~1(34 Kinds) *32~1/16(67 Kinds)	
Diametral Pitch	DP	28~1(24 Kinds) *32~1/8(57 Kinds)					
Tool post							
Tool shank size	mm	30×30					
Travel of top slide	mm	200					
Swivel angle of top slide		±90°					
Machine dimensions							
Overall dimensions(L×W×H)	mm	3180×1375×1830(1000) 3630×1375×1830(1500) 4230×1375×1830(2000) 5130×1375×1830(3000) 6040×1430×1830(4000) 7120×1430×1830(5000) 8240×1430×1830(6000) 10240×1430×1830(8000)		3180×1380×1830(1000) 3630×1380×1830(1500) 4230×1380×1830(2000) 5130×1380×1830(3000) 6040×1470×1830(4000) 7120×1470×1830(5000) 8240×1470×1830(6000) 10240×1470×1830(8000)		3180×1460×1830(1000) 3630×1460×1830(1500) 4230×1460×1830(2000) 5130×1460×1830(3000) 6040×1550×1830(4000) 7120×1550×1830(5000)	
Machine weight	kg	3900/4200/4500/5000/ 5800/6500/7300/10100		4100/4400/4700/5200/ 6500/7200/7700/10500		4350/4650/4950/ 5450/6800/7300	
		CW61		CW62			
		4050/4350/4650/5150/ 5950/6650/7450/10250		4250/4550/4850/5350/ 6600/7300/7850/10650		4500/4800/5100/ 5600/6950/7450	

*Inch screw lathes

Standard configurations

- 3-Jaw chuck + 4-Jaw chuck
- Center used on the tailstock
- Drive plate
- Φ20 ~ Φ170mm Steady rest (63E ≥3000mm Available)
- Φ40 ~ Φ250mm Steady rest (80E ≥3000mm Available)
- Φ150 ~ Φ400mm Steady rest (100E ≥3000mm Available)
- Φ20 ~ Φ100mm Follower rest (63E/80E ≥3000mm Available)
- Φ20 ~ Φ160mm Follower rest (100E ≥3000mm Available)
- 4-way tool post
- Standard toolkit
- Vertical and horizontal copper nut

Optional configurations

- Foot brake(750mm ~ 3000mm Available)
- Chuck guard
- Tool post guard
- Rear splash guard
- Live center
- Taper-turning attachment
- Vertical hard stop
- Steady rest, Follower rest (<3000mm Available)
- German type quick-change tool post
- Italy type quick-change tool post
- Ball screw cover
- Face plate(CW-62xxE)
- DRO
- Anchor bolt
- Rotatable tailstock
- Steel shields
- Thread dial

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CDS Series



Product presentation

+ CDS series compact laths can perform a variety of turning applications, for example: to produce internal and external cylindrical surface, end face and conical surface; Gap lathe is used to cut larger diameter or unusual shaped parts. Metric or imperial leadscrew lathe are available to produce metric, inch, module and diametral pitches upon the customer's request, and also accomplish drilling, reaming and oil grooving applications.



PRODUCT NAME	Unit	CDS6132	CDS6232	CDS6136	CDS6236
Specification					
Max. swing over bed	mm	Φ320		Φ360	
Max. Swing over cross slide	mm	Φ180		Φ220	
Max. swing over in gap	mm	—	Φ520	—	Φ560
Gap length (from spindle nose)	mm	—	200	—	200
Max. workpiece length	mm	500/750/1000			
Spindle					
Spindle nose		D6			
Spindle bore	mm	Φ52			
Chuck size	mm	Φ200 OP:Φ250			
Taper of spindle bore		MT 6			
Spindle speed ranges	rpm	44~1600 / 59-2100			
Spindle centre height	mm	160		180	
Spindle motor power	kW	Double speed motor 2.2/3.3 (3/4.5HP)			
Tailstock					
Tailstock quill diameter	mm	Φ50			
Tailstock quill travel	mm	125			
Tailstock quill taper		No 4 MT			
Feed box (metric ; inch screw)					
Longitudinal feed		0.025~0.84mm/rev			
Cross feed		0.006~0.21mm/rev			
Metric Pitch	mm	0.4~14 (40 Kinds)			
Modular Pitch	MOD	0.2~3.5 (46 Kinds)			
Imperial Pitch	TPI	2~56 (52 Kinds)			
Diametrical Pitch	DP	6~112 (33 Kinds)			
Tool post					
Max. tool shank size	mm	20×16			
Travel of top slide	mm	115			
Machine dimensions					
Overall dimensions(L×W×H)	mm	1610×910×1150 (500) 1860×910×1150(750) 2110×910×1150(1000)		1610×910×1170 (500) 1860×910×1170(750) 2110×910×1170(1000)	
Machine weight	kg	1200/1280/1340		1250/1330/1400	

Standard configurations

- 3-Jaw chuck
- Center used on the tailstock
- Rear splash guard
- Vertical and horizontal copper nut
- 4-way tool post
- Standard toolkit
- Ball screw cover

Optional configurations

- 4-Jaw chuck
- Chuck guard
- Tool post guard
- Foot brake
- Live center
- Drive plate
- Φ8 ~ Φ100mm Steady rest
- Vertical hard stop
- American type quick-change tool post
- German type quick-change tool post
- Italy type quick-change tool post
- Rear splash guard
- Face plate
- Taper-turning attachment
- Anchor bolt
- Thread dial
- DRO
- Φ8 ~ Φ56mm Follower rest
- Spindle center and center sleeve

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CDS-B/C Series



Product presentation

+ CDS B/C series compact laths can perform a variety of turning applications, for example: to produce internal and external cylindrical surface, end face and conical surface; Gap lathe is used to cut larger diameter or irregular shaped parts. Metric or imperial leadscrew lathe are available to produce metric, inch, module and diametral pitches upon the customer's request, and also accomplish drilling, reaming and oil grooving.



PRODUCT NAME	Unit	CDS6140B	CDS6240B	CDS6150B	CDS6250B	CDS6166B	CDS6266B	CDS6140C	CDS6240C	CDS6150C	CDS6250C	CDS6166C	CDS6266C
Specification													
Max. swing over bed	mm	Φ400	Φ500	Φ660	Φ400	Φ500	Φ660	Φ400	Φ500	Φ660	Φ400	Φ500	Φ660
Max. Swing over cross slide	mm	Φ230	Φ290	Φ440	Φ230	Φ290	Φ440	Φ230	Φ290	Φ440	Φ230	Φ290	Φ440
Max. swing over in gap	mm	—	Φ700	—	Φ760	—	Φ870	—	Φ700	—	Φ760	—	Φ870
Gap length (from spindle nose)	mm	—	280	—	280	—	280	—	280	—	280	—	280
Max. workpiece length	mm	750/1000/1500/2000/3000						750/1000/1500/2000/3000					
Spindle													
Spindle nose		D8						D8					
Spindle bore	mm	Φ82						Φ105					
Chuck size	mm	Φ250						Φ315					
Taper of spindle bore		90 mm / 1:20						110 mm / 1:20					
Max. Spindle torque	Nm	1000						1000					
Spindle speed ranges	rpm	26-2000(16 Speeds)						26-1700(16 Speeds)					
Spindle centre height	mm	220	250	325	220	250	325	220	250	325	220	250	325
Spindle motor power													
Tailstock													
Tailstock quill diameter	mm	Φ75						Φ75					
Tailstock quill travel	mm	150						150					
Tailstock quill taper		No 5 MT						No 5 MT					
Feed box (metric ; inch screw)													
Longitudinal feed		0.044~1.48mm/rev						0.044~1.48mm/rev					
Cross feed		0.022~0.74mm/rev						0.022~0.74mm/rev					
Metric Pitch	mm	0.35~80 (73 Kinds *53 Kinds)						0.35~80 (73 Kinds *53 Kinds)					
Modular Pitch	MOD	0.2~40 (45 Kinds *66 Kinds)						0.2~40 (45 Kinds *66 Kinds)					
Imperial Pitch	TPI	7/16~80 (47 Kinds)						7/16~80 (47 Kinds)					
Diametral Pitch	DP	7/8~160 (47 Kinds)						7/8~160 (47 Kinds)					
Tool post													
Max. tool shank size	mm	25×25						25×25					
Travel of top slide	mm	130						130					
Machine dimensions													
Overall dimensions(L×W×H)	mm	2350×1226×1390(750) 2600×1226×1390(1000) 3100×1226×1390(1500)	2350×1226×1440(750) 2600×1226×1440(1000) 3100×1226×1440(1500)	2350×1226×1520(750) 2600×1226×1520(1000) 3100×1226×1520(1500)	2350×1226×1390(750) 2600×1226×1390(1000) 3100×1226×1390(1500)	2350×1226×1440(750) 2600×1226×1440(1000) 3100×1226×1440(1500)	2350×1226×1520(750) 2600×1226×1520(1000) 3100×1226×1520(1500)	2350×1226×1390(750) 2600×1226×1390(1000) 3100×1226×1390(1500)	2350×1226×1440(750) 2600×1226×1440(1000) 3100×1226×1440(1500)	2350×1226×1520(750) 2600×1226×1520(1000) 3100×1226×1520(1500)	2350×1226×1390(750) 2600×1226×1390(1000) 3100×1226×1390(1500)	2350×1226×1440(750) 2600×1226×1440(1000) 3100×1226×1440(1500)	2350×1226×1520(750) 2600×1226×1520(1000) 3100×1226×1520(1500)
Machine weight	kg	2070/2120/2170/2280/3060	2120/2170/2220/2330/3110	2170/2220/2270/2380/3200	2070/2120/2170/2280/3110	2120/2170/2220/2330/3110	2170/2220/2270/2380/3200	2070/2120/2170/2280/3110	2120/2170/2220/2330/3110	2170/2220/2270/2380/3200	2070/2120/2170/2280/3110	2120/2170/2220/2330/3110	2170/2220/2270/2380/3200

Standard configurations

- 3-Jaw chuck
- Center used on the tailstock
- Foot brake
- Rear splash guard
- Φ30 ~ Φ200mm Steady rest
- Φ20 ~ Φ80mm Follower rest
- 4-way tool post
- Standard toolkit
- Ball screw cover

Optional configurations

- 4-Jaw chuck
- Chuck guard
- Tool post guard
- Live center
- Drive plate
- DRO
- Anchor bolt
- Steady rest, Follower rest (1000~3000mm Available)
- American type quick-change tool post
- German type quick-change tool post
- Italy type quick-change tool post
- Face plate
- Thread dial
- Taper-turning attachment
- Vertical hard stop
- Spindle center and center sleeve
- Leveling pad

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CDL Series



Product presentation

+ CDL series compact laths can perform a variety of turning applications, for example: to produce internal and external cylindrical surface, end face and conical surface; Gap lathe is used to cut larger diameter or irregular shaped parts. Metric or imperial leadscrew lathe are available to produce metric, inch, module and diametral pitches upon the customer's request, and also accomplish drilling, reaming and oil grooving.



PRODUCT NAME	CDL6136	CDL6236	CDL6141	CDL6241	CDL6146	CDL6246	CDL6151	CDL6251
Swing over bed	360mm		410mm		460mm		510mm	
Swing over cross slide	180mm		230mm		270mm		320mm	
Height of centers	1056mm		1081mm		1110mm		1131mm	
Swing in gap	—	590mm	—	640mm	—	675mm	—	735mm
Gap length (from spindle nose)	—	276mm	—	276mm	—	308mm	—	308mm
Max. turning length	700mm/950mm/1450mm							
Distance between centers	750mm/1000mm/1500mm							
SPINDLE								
Spindle nose	C6 (OP:D6)				D8			
Taper of spindle bore	M6				90 mm / 1:20			
Spindle centre height	186mm		211mm		240mm		261mm	
Spindle bore	48mm		52mm		82mm			
Max.bar diameter	46mm		50mm		80mm			
No.of Spindle speed	12							
Spindle speed ranges	32-2000 rpm				18 - 1600 rpm			
Maximum spindle motor power	3/4.5 kW (4/6 HP)				5.5 kW (7.5 HP)			
BED AND SLIDE								
Width over bedways	300mm							
Cross slide travel - X axis	240mm							
Travel of top slide	125mm				125mm			
Max.dimension of tool shank	20×20mm				25×25mm			
Cros feed	0.017-0.242mm/rev							
Longitudinalo feed	0.064-0.82mm/rev							
Number of Imperial Pitches	24							
Range of Imperial Pitches	2 - 56TPI							
Number of Diametral Pitches	44							
Range of Diametral Pitches	2 - 56DP							
Number of Metric Pitches	44							
Range of Metric Pitches	0.5 - 14mm							
Number of Module Pitches	24							
Range of Module Pitches	0.5 - 14 MOD							
TAILSTOCK								
Tailstock quill diameter	63mm							
Tailstock quill taper	No 4 MT							
Tailstock quill travel	150mm							
SPACE AND WEIGHT								
Overall machine length	2020mm/2270mm/2770mm				2005mm/2255mm/2755mm			
Overall machine width	1020mm				1010mm			
Overall machine height	1210mm		1235mm		1265mm		1280mm	
Overall machine weight	750mm	1228kg	1378kg	1820kg	1840kg			
	1000mm	1353kg	1553kg	2025kg	2045kg			
	1500mm	1593kg	1893kg	2230kg	2250kg			

Standard configurations

- 3-Jaw chuck
- Center used on the tailstock
- Φ10 ~ Φ120mm Steady rest (CDL6136/CDL6140)
- Φ80 ~ Φ200mm Steady rest (CDL6246/CDL6251)
- Φ10 ~ Φ90mm Follower rest
- Chuck guard
- 4-way tool post
- Standard toolkit
- Tool post guard
- Rear splash guard

Optional configurations

- 4-Jaw chuck
- German type quick-change tool post
- Live center
- Drive plate
- DRO
- Anchor bolt
- Vertical and horizontal copper nut
- Spindle center and center sleeve
- American type quick-change tool post
- Italy type quick-change tool post
- Face plate
- Thread dial
- Taper-turning attachment
- Vertical hard stop
- Leveling pad

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