

# WIRTH Gear-driven drawworks

## have created a new performance standard

For more than 50 years chain driven drawworks have been the state of the art – now they have been superseded by even better ones.

The essential advantages are:

- Four quadrant drive mode
- Higher safety
- Higher life-time and endurance
- Higher speeds by use of a frequency-controlled AC-motor
- Integrated autodriller
- Compact design with a width of only 2.50 - 3.50 m
- Drive options: DC, AC, hydraulic
- Full material traceability is standard

### Gear-driven means:

- high performance
- high availability
- less weight
- less noise and
- less vibration

Main features of the standard Feed Off Control System, 26 kW:  
AC frequency controlled drive

Optional Feed Off Control System 45 kW:

- max. lowering or hoisting speed up to 75 m/h
- max. hook load up to 520 t



Benefits of the WIRTH Feed Off Control System:

- Reduces wear of bit
- Achieves optimum rate of penetration
- Maximises drilling efficiency
- Smooth block control for safety
- Minimising downtime for semi sub operation
- Redundancy for the SCR-DRIVE
- Automatic drilling operation



Drawworks  
GH 2500 EG-DC  
long version

Drawworks completely containerized



# WIRTH Drawworks

Drawworks with 4-Q-Drive		MULTI-SPEED													
		type		GH 1250 EG DC-LV		GH 1500 EG AC-SV		GH 2000 EG AC-LV		GH 2000 EG AC-SV		GH 2500 EG DC-LV		GH 2500 EG DC-SV	
Power rating	HP	1250		1500		2000		2000		2500		2500		2500	
Eddy current brake	Baylor type	6032		6032		7040/7838		7040/7838		7040		7040/7838		7040/7838	
Hook load	kN	2776		2961		4536	5189	4536	5189	4766	5611	4766	5611	5248	6004
	lbs x 1000	624		665		1019	1166	1019	1166	1067	1261	1067	1261	1179	1349
		8-lines		8-lines		12-lines	14-lines	12-lines	14-lines	10-lines	12-lines	10-lines	12-lines	12-lines	14-lines
max. hook speed	m/s	1.81		1.81		1.54	1.32	1.54	1.32	1.73	1.44	1.73	1.44	1.54	1.32
	ft/s	5.9		5.9		5.0	4.3	5.0	4.3	5.6	4.7	5.6	4.7	5.0	4.3
Autodriller hook load	kN	1447		1447		2742	3138	2742	3138	2680	3160	2490	2930	2742	3138
	lbs x 1000	325		325		616	705	616	705	602	710	560	658	616	705
Autodriller speed	m/h	95		95		63	53	63	53	66	55	70	58	63	53
	ft/h	311		311		206	174	206	174	216	180	230	190	206	174
Dimensions	length mm	8200		~ 7200		9500		7800		9100		7800		7800	
	width mm	2500		~ 3500		3000		3500		2500		3500		3500	
	height mm	2400		~ 2350		2450		2400		2400		2400		2400	
Weight	t	35		~ 38		55/57		55/57		50		55/57		55/57	

Drawworks with 4-Q-Drive		SINGLE-SPEED							
		type		GH 1500 EG AC-1G		GH 3000 EG AC-1G		GH 6000 EG AC-1G	
Power rating	HP	1500		3000		6000			
Eddy current brake	Baylor type	6032		7838		—			
Hook load	kN	1720	2025	2815	3449	6900	8120		
	lbs x 1000	386	455	632	774	1550	1825		
		10-lines	12-lines	8-lines	10-lines	10-lines	12-lines		
max. hook speed	m/s	1.29	1.075	0.99	0.79	1.29	1.075		
	ft/s	4.23	3.52	3.22	2.57	4.23	3.52		
Dimensions	length mm	5350		5650		~ 9000			
	width mm	3300		3300		~ 3300			
	height mm	2750		2750		~ 2750			
Weight	t	~ 27		31		~ 56			

TWO-SPEED			
GH 2800 EG DC-2G		GH 3000 EG AC-2G	
2500		3000	
7040/7838		7838	
4349	4975	5558	6360
977	1118	1249	1429
12-lines	14-lines	12-lines	14-lines
1.24	1.06	1.24	1.06
4.06	3.05	4.06	3.05
7200		7200	
3500		3500	
2500		2500	
~ 51		~ 51	

# WIRTH Drawworks

Drawworks with 4-Q-Drive	type	MULTI-SPEED											
		GH 3000 EG AC-LV		GH 3000 EG AC-SV		GH 4000 EG DC-SV		GH 4500 EG AC-LV		GH 4500 EG AC-SV		GH 5000 EG DC-SV	GH 6000 EG AC-SV
Power rating	HP	3000		3000		3750		4500		4500		5000	6000
Eddy current brake	Baylor type	7838		7838		7838		7838		7838		7838	7838
Hook load	kN	6698	7663	6698	7663	6951	7953	8881	10161	7816	8942	9328	11900
	lbs x 1000	1505	1722	1505	1722	1562	1787	1996	2283	1756	2010	2097	2675
		12-lines	14-lines	14-lines	14-lines								
max. hook speed	m/s	1.54	1.32	1.54	1.32	1.75	1.5	1.75	1.5	1.98	1.7	1.7	1.7
	ft/s	5.0	4.3	5.0	4.3	5.7	4.9	5.7	4.9	6.5	5.5	5.5	5.5
Autodriller hook load	kN	2742	3138	2742	3138	3607	4127	3850	4490	3175	3632	4851	4851
	lbs x 1000	616	705	616	705	810	927	865	1009	713	816	1090	1090
Autodriller speed	m/h	63	53	63	53	71	60	71	60	80	69	69	69
	ft/h	206	174	206	174	233	197	233	197	262	226	226	226
Dimensions	length mm	9500		7800		~ 8900		11300		~ 8900		~ 8900	~ 9400
	with mm	3000		3500		~ 4600		3200		~ 4800		~ 4600	~ 4800
	height mm	2450		2400		~ 3000		4600		~ 3000		~ 3000	~ 3200
Weight	t	57		57		~ 87		87		~ 87		~ 95	~ 100

Two Speed Drawworks  
GH 2800 EG-DC-2G



Single Speed Drawworks  
GH 3000 EG-AC-1G



### New Generation

Multi Speed Drawworks GH 3000 EG-AC-SV short version for interchangeability with chain driven drawworks