

ACE CRANES &
COMPONENTS LLC

BROCHURE

ACH –S / D HOISTS



ACH-1S / 2S / 3S

Low-headroom Electric Wire Rope Hoist
Upto 12.5T Capacity

SINGLE GIRDER HOIST

Electronic unit

- Stable and durable contactor control, reliably work in bad condition
- Standard three phase voltage: 380~415V, 50Hz (440~480V, 60Hz)
- Standard control voltage: 48V
- Sturdy and durable control panel, IP54 protecting level



Control System

- Automatic orientation
- Automatic centering
- Automatic rectify deviation
- Inch moving /joggle
- Anti-shock
- Regional Protection
- Electronic anti-sway
- Remote communication, digital maintenance



Travelling driving unit

- Motor , gearbox and brake three-in-one
- Compact structure , small size and light weight
- Direct drive flexible design, stable torque transfer
- 30% rotational efficiency higher than traditional coupling
- Suitable for frequency reverse switching
- Squirrel cage variable frequency motor 60% ED
- IP55 protecting level, H level insulation
- Safe and reliable DC brake
- Aluminum alloy shell, hard tooth surface reducer, well sealing without oil leakage



Hook Assembly

- Match to the standard of DIN15400/15401, forged by high strength alloy steel
- With safety latch to protect safely
- 360° horizontal and 130° vertical rotations operation easily
- High strength extrusion pulley, high finish rope groove to avoid friction with wire rope



Rope guider

- High performance engineering material, light self-weight, sturdy and reliable
- Circular design
- Precise rope guide system



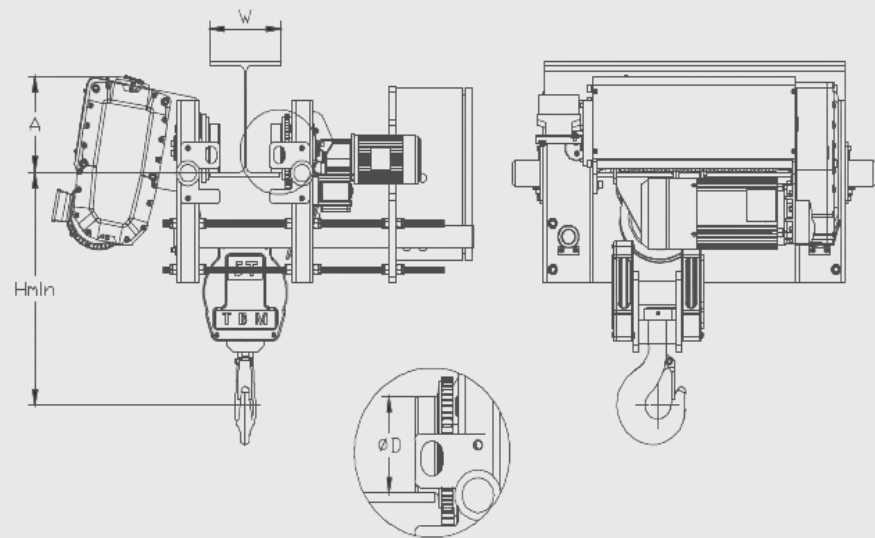
Lifting drive unit

- IP55 protecting level, F level insulation
- High efficiency double speed lifting motor, ratio 6:1
- 60% ED, strong power and sufficient stock
- With thermal protecting function to prevent from over temperature
- Sturdy and durable aluminum alloy motor, light weight, good heat dissipation
- High-tech totally enclosed aluminum alloy gearbox
- Quenched and fine ground gear makes motor stable and low noise
- Free maintenance design: no need to change lubrication oil in lifetime
- DC brake, quick response
- The safety factor of brake is higher than 180%, With self-adjust function
- More than onet function
- More than one million times brake operation

Imported Wire Rope

- High strength pressed solid galvanized wire rope
- 2160N/mm² tensile strength
- 40% smaller than traditional wire rope
- Good flexibility and long service life
- Press rope block for special use, intensively layout to prevent from loose, fastening is more reliable
- Fusible cutout rope technology, fusible surface is firm
- Effectively prevent from loose to extend service life





The **ACH-1S / 2S / 3S** series from **Ace Cranes** is a range of low-headroom electric wire rope hoist units designed for reliable, efficient, and compact lifting performance. These hoists are **designed in the UAE** and **assembled in China**, combining regional engineering requirements with established manufacturing capabilities.

Model	Capacity(t)	Duty	Rope Reevining	Lifting Speed (m/min)	Lifting Motor (Kw)	Travelling Speed (m/min)	Travelling Motor (Kw)	Rail width range W(mm)		Wire Rope Diameter (mm)	Wheel Diameter D(mm)	A (mm)	Hmin (mm)	Lifting height (m)
								I Beam	H Beam					
ACH-1S	1	M7	2/1	10/1.6	3.6/0.55	20/5	2*0.37 + inverter	100~180	100~400	7	100	220	600	12/18/24/30
	1.25	M6	2/1	10/1.6										
	1.6	M5	2/1	10/1.6									510	6/9/12/15
	2	M7	4/1	5/0.8										
	2.5	M6	4/1	5/0.8										
	3.2	M5	4/1	5/0.8										
ACH-2S	2	M6	2/1	10/1.6	6.1/0.9	20/5	2*0.37 + inverter	110~180	110~460	9	125	249	700	12/18/24/30
	2.5	M5	2/1	10/1.6										
	3.2	M4	2/1	10/1.6									600	6/9/12/15
	4	M6	4/1	5/0.8										
	5	M5	4/1	5/0.8										
	6.3	M4	4/1	5/0.8										
ACH-3S	4	M6	2/1	10/1.6	11/1.8	20/5	2*0.37 + inverter	120~180	120~460	13	150	336	900	12/18/24/30
	5	M5	2/1	10/1.6										
	6.3	M4	2/1	10/1.6									800	6/9/12/15
	8	M6	4/1	5/0.8										
	10	M5	4/1	5/0.8										
	12.5	M4	4/1	5/0.8			2*0.75 + inverter							

ACH – D DOUBLE GIRDER HOIST



Each ACH hoist unit is built with a strong focus on durability, safety, and long service life. The components used in the hoist are selected for their robust construction and ability to withstand demanding industrial operating conditions.

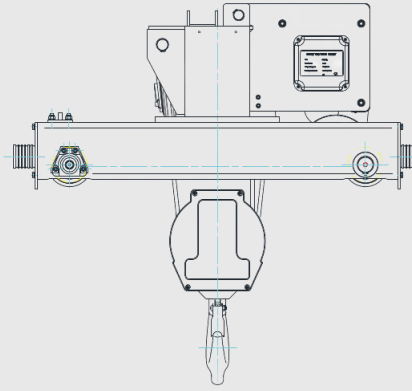
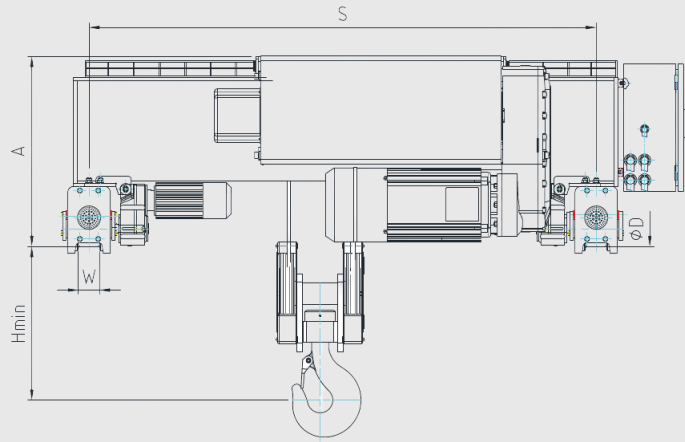
The hoist structure, travelling mechanism, rope guide, hook block, and control system are engineered to provide stable operation, smooth load handling, and reduced maintenance requirements. A key feature of the ACH series is the use of **SEW motors**, known for their reliability, efficiency, and proven performance in industrial drive applications.

With dependable lifting and travelling operation, compact low-headroom design, and rugged mechanical construction, the ACH-1S / 2S / 3S hoist units offer a practical and professional lifting solution for modern crane systems.

Maximum Capacity of **upto 100T** at **M4 Duty** Classification!

ACH 1D / 2D / 3D / 4D / 4DZ / 5D / 5DZ

ACH – D DOUBLE GIRDER HOIST



Type	Capacity (T)	Working class	Rope reeving	Lifting speed (M/Min)	Lifting power (Kw)	Travelling power (Kw)	Travelling speed (M/Min)	Wheel diameter D (mm)	Hmin (mm)	A (mm)	W (mm)	Rail gauge S (mm)	Lifting height (M)
ACH-1D	3.2	M5	4/1	5/0.8	3.6/0.55	2*0.37	0~20	125	350	477	65	1200~2000	6~15
ACH-2D	5	M5	4/1	5/0.8	6.1/0.9	2*0.37	0~20	125	350	595	65	1200~2000	6~15
ACH-3D	10	M5	4/1	5/0.8	11/1.8	2*0.55	0~20	125	550	619	65	1400~2000	6~15
ACH-4D	20	M5	4/1	4/0.7	17/2.8	2*1.1	0~20	200	700	817	80	1400~2600	6~18
	25	M4	4/1	3.5/0.63	17/2.8	2*1.1	0~20	200	700	817	80	1400~2600	6~18
ACH-4DZ	32	M5	12/2	2.7/0.4	17/2.8	2*1.1	0~20	200	1000	867	80	2000~3000	6~12
	40	M5	8/2D	4/0.7	17/2.8	2*1.5	0~20	250	1000	1100	85	1700~3400	6~18
	50	M5	10/2D	3.2/0.5	17/2.8	2*1.5	0~20	250	1300	1150	85	2000~3400	7~14.5
ACH-5D	32	M5	4/1	0.8~5	30	2*1.5	0~20	250	1000	1020	85	1700~3000	6~20
	40	M4	4/1	0.8~5	40	2*1.5	0~20	250	1000	1020	85	1700~3000	6~20
	50	M5	12/2	0.5~3.3	40	2*2.2	0~20	315	1500	1128	90	2000~3200	6~15
	63	M4	12/2	0.5~3.3	40	2*2.2	0~20	315	1500	1128	90	2000~3200	6~15
ACH-5DZ	80	M4	16/2	0.4~2.5	40	2*3	0~20	400	1200	1050	105	2000~3200	4.5~11
	80	M4	8/2D	0.8~4.9	40	2*3	0~20	400	1200	1400	105	2000~3400	6~20
	100	M4	10/2D	0.6~3.9	40	2*4	0~20	400	2000	1400	105	2000~3400	7~18