

Kinrei Double Twist Strander, model HK-560

Use:	Stranding of bare or plated wires in geometric patterns or bunched constructions.
Product Sizes:	From 7/25 or 19/29 down to 7/38 or 19/42
Speeds:	Machine is rated at 7000 twists per minute.
Takeup Reels:	Flange diameter: 560 mm max (22") Barrel diameter: 200 mm min (7.8") Overall width: 355 mm max (14") Traverse width: 330 mm max (13") Gross weight: 250 kg max (550 lb)
Lay Lengths:	3.0 – 30.6 mm (0.125" – 1.20") with standard gearing. 6.3 – 50.6 mm (0.25" – 2.00") with optional gearing. 34 – 136 mm (1.34" – 5.35") with extended gearing.
Lay Control:	Double capstan (one driven, one idler), mechanically interconnected to the bow via timing belts for precise control. No open gearing or grease. Capstans are precisely machined, and chrome plated for long life.
Tension Control:	Automatically controlled from empty reel to full reel by powder clutch and Tension Amplifier Module. Customer can choose feet or meters. Load cell measures tension between capstans and takeup reel. Tension can be controlled through closed loop feedback control, or open loop control based on diameter build of spool.
Traverse Control:	UHING traverse, with adjustable width and pitch. Unit has lever for "engaged" and "disengaged" modes. Reverse points can be controlled from the outside of the machine <u>during operation</u> via touchscreen.

Loading/Unloading:	Bows are locked in position to avoid damage during lift. Motor driven spool lift (no hoist is necessary) raises spool to the exact position with proximity sensors. Manually actuated pintles with interlock protection. Takeup spool is supported with pintles (no shaft), and driven with spring loaded drive pins.
Line Counter:	Non contact, model Line Seiki G-21. Standard to all Kinrei equipment since 1996.
Entry Plate / Die-holder:	Entry plate position is adjustable. Ceramic eyelets protect wire. Die holder is rotating, and holds 3/8" x 1" die case (other sizes upon request).
Bows:	Two dynamically balanced steel bows (interchangeable), with ceramic wire guides. Specially designed for insulated wire / precise lay control.
Motors:	7.5 kW induction motor for main spindles. 2.2 kW induction motor for exhaust fan. 0.15 kW geared motor for spool lift. Machine operates on 220/3/60. Isolation transformer provided, if necessary, at no additional charge.
Bearings:	Lubrication is through an oil mist system. Customer provides clean, dry, compressed air. Air is mixed with ISO 32 grade machine oil to form mist, which lubricates bearings. Cool air and mist allow for higher speeds and lower temperatures. Alarms for low oil level and insufficient air. NTN bearings ride in heavy duty, steel housings.
Electronics:	AC frequency control drives for main motor and for lift. Standard PLC for control and operation. Tension control amplifier. Digital length counter with twist speed.

Multi-function touchscreen for start, stop, jog, lift, speed setting, tension setting, diagnostics, etc.
E-STOP (5-6 seconds, with disk brake)
Clutch Amp Meter

Installation: Machine sits on leveling pads, and optional (customer supplied) vibration pads. Installation is directly on the factory floor with no bolting or foundation work necessary. 10 AWG minimum power cable.

Noise Level: 82 dB maximum.

Weight: 2800 kg / 6173 lb

Size: Length: 2773 mm / 109.2 in
Width: 1475 mm / 58.1 in
Height: 1662 mm / 65.4 in