

ESD/ESI 7.5 to ESD/ESI 120

Self-aligning Roller Beds



ESD 7.5 to ESD 120 (Drive) and ESI 7.5 to ESI 120 (Idler) are standard self-aligning roller beds.

Self-Aligning is designed for safer handling and gives better side support in thinner wall thicknesses. It reduces time when different diameters need to be produced. Just like the ECD, they have the same smart and robust design made of high-quality key components including high-load polyurethane rollers as well as direct drive and a flexible integration.

- Interface connection to ESAB CaB equipped with weld controller PEK for complete integration
- Two wireless remote-control pendants using Radio Frequency (RF), and an inductive charger comes as standard
- Control panel with PLC and solid-state inverter for precise speed control
- Wheel holder C - C adjustable in steps to cover various work piece diameters
- High quality gear motors from a European supplier with a minimum of backlash
- Optional Motorised/Idler Rail Bogie versions

Visit esab.com for more information.



Industry

- Wind Tower Fabrication
- Offshore and Shipyards
- Pressure Vessels
- Pipelines

Specifications

| | ESD/ESI 7.5 | ESD/ESI 15 | ESD/ESI 30 | ESD/ESI 60 | ESD/ESI 90 | ESD/ESI 120 |
|---|------------------------------------|--------------------|---------------------|---------------------|---------------------|---------------------|
| Max Loading Capacity Drive/Idler Unit* | 3.75 ton | 7.5 ton | 15 ton | 30 ton | 45 ton | 60 ton |
| Max Turning Capacity Drive Unit | 11.25 ton | 22.5 ton | 45 ton | 90 ton | 135 ton | 180 ton |
| Turning Drive Motor | 2 x 0.25 kW | 2 x 0.18 kW | 2 x 0.37 kW | 2 x 0.75 kW | 2 x 1.00 kW | 2 x 1.50 kW |
| Turning Speed | 150 - 1500 mm/min | 200 - 2000 mm/min | | | | |
| Workpiece Diameter (all wheels) | 950 - 4000 mm | 1090 - 4400 mm | 1420 - 4900 mm | 1420 - 6300 mm | 2120 - 6200 mm | 2120 - 6200 mm |
| Workpiece Diameter (inner wheels) | 350 mm (max 3 ton) | 350 mm (max 7 ton) | 490 mm (max 15 ton) | 500 mm (max 30 ton) | 810 mm (max 45 ton) | 810 mm (max 60 ton) |
| Phases | 3 ph | | | | | |
| Input Voltage / Frequency | 380 - 440 V / 50 Hz | | | | | |
| Roller Type | Polyurethane (90° C / 92° A Shore) | | | | | |
| Roller Width / Diameter (mm (no. of wheels in width)) | 50 / 247 mm (1) | 90 / 300 mm (1) | 90 / 400 mm (1) | 90 / 400 mm (2) | 180 / 580 mm (1) | 180 / 580 mm (1) |
| Weight Drive Unit | 457 kg | 730 kg | 1095 kg | 2150 kg | 2730 kg | 3170 kg |
| Weight Idler Unit | 357 kg | 550 kg | 850 kg | 1805 kg | 2225 kg | 2435 kg |
| Dimensions Drive Unit LxWxH | 2777x777x810 mm | 3365x801x871 mm | 3358x817x911 mm | 4161x949x1158 mm | 4167x1043x1142 mm | 4313x1120x1220 mm |
| Dimensions Idler Unit LxWxH | 2200x500x721 mm | 2830x600x803 mm | 2848x700x859 mm | 3650x800x1039 mm | 3746x800x1136 mm | 3646x800x1142 mm |
| Control Voltage | 24 VDC | | | | | |

* per roller bed section. Mains cable not included in delivery.

Ordering Information

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| Roller Bed ESD 7.5, Drive Unit, with digital display | 0909252881 |
| Roller Bed ESI 7.5, Drive Unit, without digital display | 0909252880 |
| Roller Bed ESD 7.5, Idler Unit | 0909253880 |
| Roller Bed ESD 15, Drive Unit, with digital display | 0909010881 |
| Roller Bed ESD 15, Drive Unit, without digital display | 0909010880 |
| Roller Bed ESI 15, Idler Unit | 0909011880 |
| Roller Bed ESD 30, Drive Unit, with digital display | 0909012881 |
| Roller Bed ESD 30, Drive Unit, without digital display | 0909012880 |
| Roller Bed ESI 30, Idler Unit | 0909013880 |
| Roller Bed ESD 60, Drive Unit, with digital display | 0909014881 |
| Roller Bed ESD 60, Drive Unit, without digital display | 0909014880 |
| Roller Bed ESI 60, Idler Unit | 0909015880 |
| Roller Bed ESD 90, Drive Unit, with digital display | 0909016881 |
| Roller Bed ESD 90, Drive Unit, without digital display | 0909016880 |
| Roller Bed ESI 90, Idler Unit | 0909017880 |
| Roller Bed ESD 120, Drive Unit, with digital display | 0909018881 |
| Roller Bed ESD 120, Drive Unit, without digital display | 0909018880 |
| Roller Bed ESI 120, Idler Unit | 0909019880 |

Options and Accessories

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|---|------------------------------------|
| CaB integration cable 10 m, 20 m, 30 m, 40 m, 50m | 0909530880, -881, -882, -883, -884 |
| Synchronisation cable 10 m, 20 m, 30 m, 40 m, 50m | 0909530900, -901, -902, -903, -904 |



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