

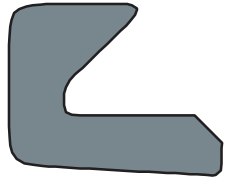


# PILING ACCESSORIES



**CLUTCHES**

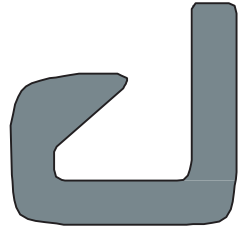
**ESC HOT ROLLED CLUTCHES**



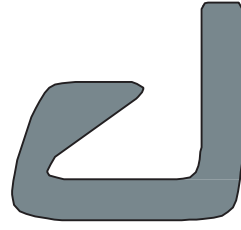
ESC-6E CLUTCH



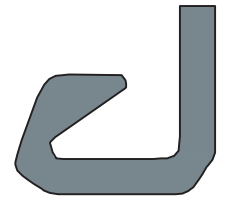
ESC-6J CLUTCH



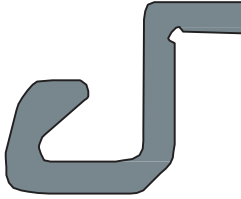
ESC-9E CLUTCH



ESC-9J CLUTCH



ESC-9HJ



ESC-10HJ





# PAINTING

ESC has professional in-house painting facilities that can provide a wide range of coating solutions from light shop primers to heavy duty marine protection systems.

These facilities allow ESC to tailor coatings to suit the client's requirements. A paint system can be recommended to suit the end use, or ESC can apply coatings to the Client's specification. ESC maintains working relationships with all major international paint suppliers, so virtually any paint system and product can be requested and provided.

Blasting and painting are conducted in accordance with the strict conditions specified by the Standards and the paint manufacturers. Additional requirements by clients can also be accommodated. On conclusion of the painting, the client receives a complete painting report, including QA/QC results of weather recordings, steel temperatures, surface roughness and wet and dry film thickness. Third party verification is also provided by the paint manufacturer.

After painting, ESC take extreme care in the packaging and delivery of the piles to protect coated surfaces during transit.

For assistance on paint system specification, please contact ESC and a technician will be able to recommend the correct paint application to suit the project requirements.

ESC can set up blasting and painting facilities on site at the clients request.



# WELDED ACCESSORIES

We can supply pipe piles with various welded accessories. All welding is performed strictly in accordance with AWS D1.1/ D1.1M. Other standards may be applied upon request. Non-destructive tests will be carried out when necessary. The accessories include but are not limited to:



**- Tie Rod Connector**



**Lifting Lugs -**



**- Internal Shear Keys**



**External Shear Keys -**



**- Cold Formed Clutch**



**Hot Rolled Clutch -**



**- Fender Connection**



**Pile Shoes -**

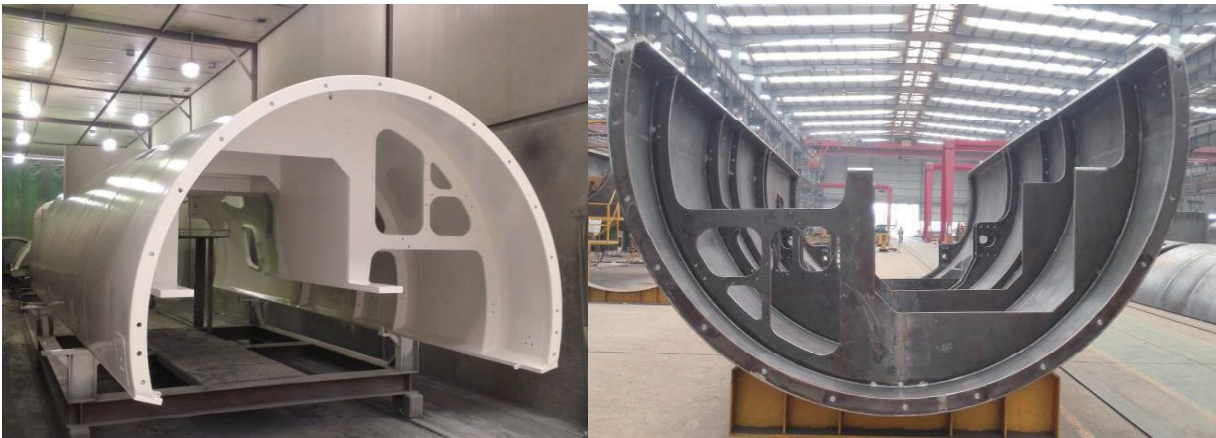


**-Sheet Pile Shoes**



# STEEL STRUCTURE CAPABILITY

Mechanical Structures



Building Structures



Offshore Structures



Drill Platform

Our main steel structure products include but are not limited to mechanical, building, offshore, and wharf structures. We are also capable of supplying other steel structures such as bridges and other products for marine and civil infrastructure.

**Wharf Structures**



**Headstock**



**Pile Caps**



**Dolphins**



**Pontoon**



**Gangway**



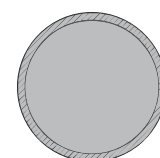
**Headstock**



### Threaded Casing for Micropile



Micropile Casing									
Outside Diameter	Thickness	Inside Diameter	Weight	Cross Sectional Area	Total Area of Shaft	Internal Volume	External Surface Area	Moment of Inertia	Section Modulus
in mm	in mm	in mm	lbs/ft kg/m	in <sup>2</sup> cm <sup>2</sup>	in <sup>2</sup> cm <sup>2</sup>	ft <sup>3</sup> /ft m <sup>3</sup> /m	ft <sup>2</sup> /ft m <sup>2</sup> /m	in <sup>4</sup> cm <sup>4</sup>	in <sup>3</sup> cm <sup>3</sup>
5.500 139.700	0.415 10.541	4.670 118.618	22.56 329.34	6.63 42.77	23.76 153.28	0.12 0.011	1.44 0.44	21.57 897.83	7.84 128.54
6.625 168.275	0.432 10.973	5.761 146.329	28.60 417.53	8.40 54.23	34.47 222.40	0.18 0.017	1.73 0.53	40.49 1685.34	12.22 200.31
7.000 177.800	0.408 10.363	6.184 157.073	28.75 419.74	8.45 54.51	38.48 248.29	0.21 0.019	1.83 0.56	46.07 1917.63	13.16 215.71
7.000 177.800	0.453 11.506	6.094 154.787	31.70 462.85	9.32 60.11	38.48 248.29	0.20 0.019	1.83 0.56	50.16 2087.81	14.33 234.85
7.000 177.800	0.500 12.700	6.000 152.400	34.74 507.21	10.21 65.87	38.48 248.29	0.20 0.018	1.83 0.56	54.24 2257.69	15.50 253.96
7.625 193.675	0.430 10.922	6.765 171.831	33.07 482.84	9.72 62.71	45.66 294.60	0.25 0.023	2.00 0.61	63.12 2627.25	16.56 271.31
7.625 193.675	0.500 12.700	6.625 168.275	38.08 555.98	11.19 72.21	45.66 294.60	0.24 0.022	2.00 0.61	71.37 2970.64	18.72 306.77
8.625 219.075	0.500 12.700	7.625 193.675	43.43 634.01	12.76 82.34	58.43 376.94	0.32 0.029	2.26 0.69	105.72 4400.21	24.51 401.71
8.625 219.075	0.562 14.275	7.501 190.525	48.44 707.19	14.24 91.84	58.43 376.94	0.31 0.029	2.26 0.69	116.25 4838.63	26.96 441.73
9.625 244.475	0.472 11.989	8.681 220.497	46.18 674.23	13.57 87.56	72.76 469.42	0.41 0.038	2.52 0.77	142.51 5931.68	29.61 485.26
9.625 244.475	0.545 13.843	8.535 216.789	52.90 772.30	15.55 100.30	72.76 469.42	0.40 0.037	2.52 0.77	160.80 6692.80	33.41 547.52
10.750 273.050	0.500 12.700	9.750 247.650	54.79 799.83	16.10 103.87	90.76 585.56	0.52 0.048	2.81 0.86	211.95 8821.97	39.43 646.18
10.75 273.050	0.545 13.843	9.660 245.364	59.46 867.99	17.47 112.73	90.76 585.56	0.51 0.047	2.81 0.86	228.10 9494.33	42.44 695.43
10.75 273.050	0.595 15.113	9.560 242.824	64.59 942.98	18.98 122.47	90.76 585.56	0.50 0.046	2.81 0.86	245.53 10219.67	45.68 748.56
11.875 301.624	0.582 14.783	10.711 272.059	70.26 1025.74	20.65 133.21	110.75 714.53	0.63 0.058	3.11 0.95	330.04 13737.09	55.59 910.87
12.75 323.849	0.500 12.700	11.750 298.449	65.48 955.89	19.24 124.14	127.68 823.71	0.75 0.070	3.34 1.02	361.54 15048.49	56.71 929.35
13.375 339.724	0.480 12.192	12.415 315.340	66.17 965.98	19.45 125.45	140.50 906.45	0.84 0.078	3.50 1.07	404.73 16846.06	60.52 991.75
13.375 339.724	0.514 13.056	12.347 313.613	70.67 1031.67	20.77 133.98	140.50 906.45	0.83 0.077	3.50 1.07	430.07 17900.79	64.31 1053.84



Total Area of Shaft



Cross Sectional Area

#### Casing and Tooling Accessories

ESC can deliver complete accessory packages with your threaded casing. This includes but is not limited to Ring Bits, Casing Shoes, Shear Rings, Flushing Heads, Downhole Hammers and more.

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**Email** : [robert.campbell@edgenmurray.com](mailto:robert.campbell@edgenmurray.com)

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**ESC Al Sharafi Steel LLC**

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**Ukraine**
**Mageba Ukraine LLC**

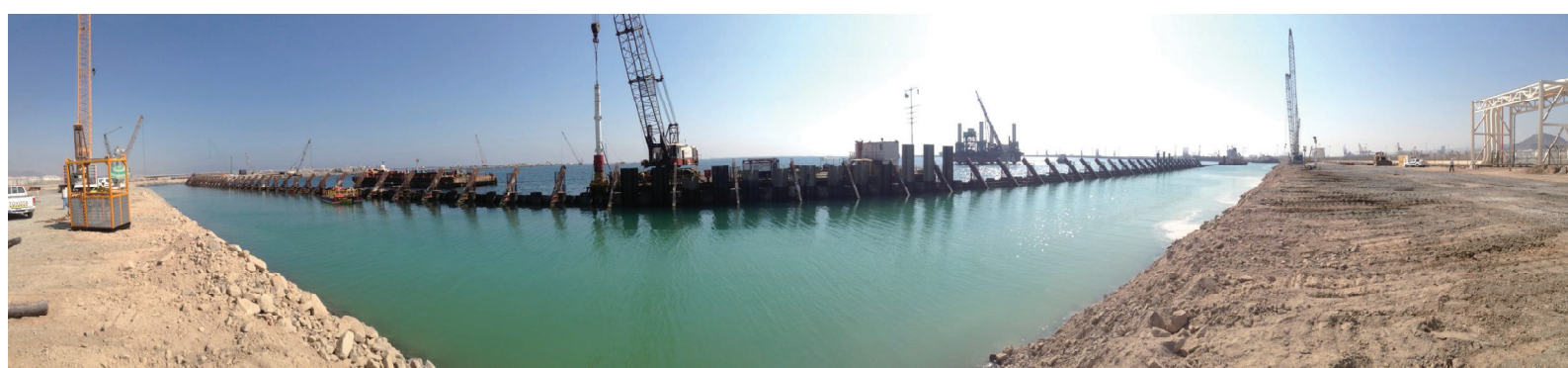
Gagarina str.55, off. 466, Cherkasy, 18000 Ukraine

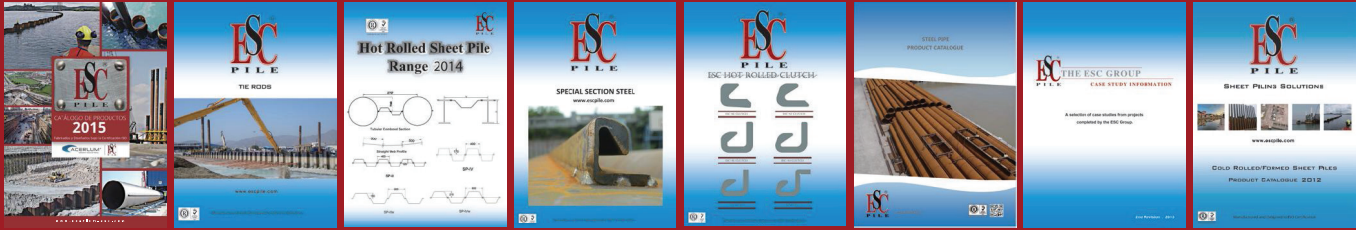
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