



Tubing and Casing Introduction

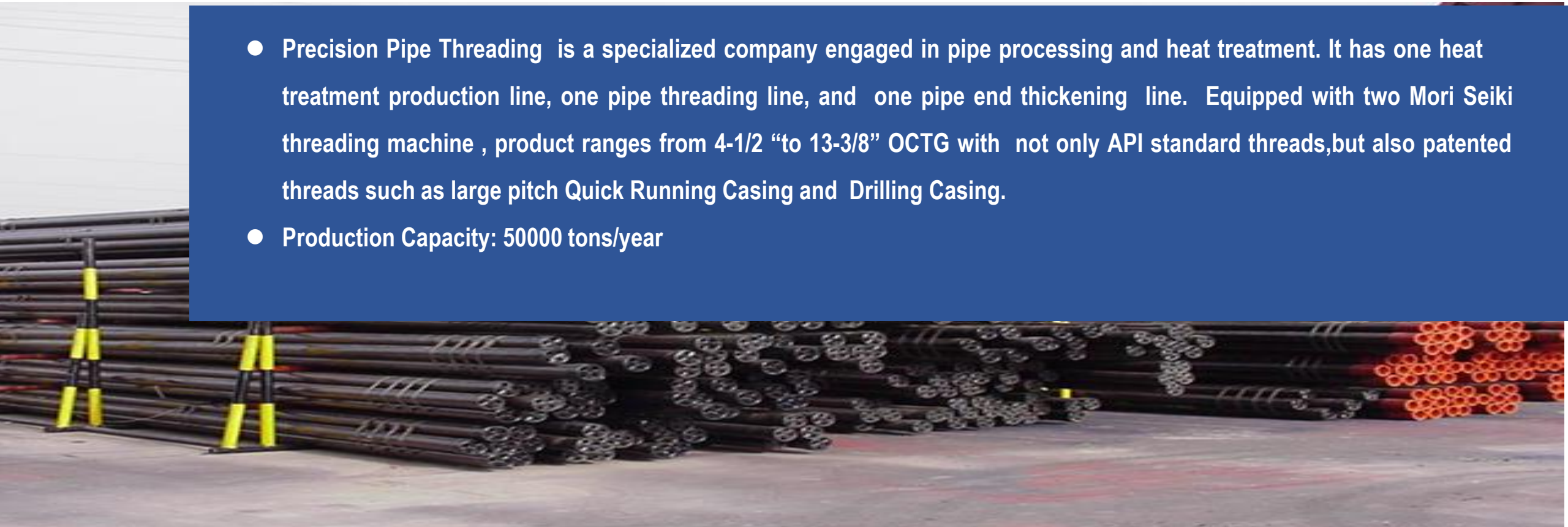
Precision Pipe Threading



Profile



- Precision Pipe Threading is a specialized company engaged in pipe processing and heat treatment. It has one heat treatment production line, one pipe threading line, and one pipe end thickening line. Equipped with two Mori Seiki threading machine, product ranges from 4-1/2 “to 13-3/8” OCTG with not only API standard threads, but also patented threads such as large pitch Quick Running Casing and Drilling Casing.
- Production Capacity: 50000 tons/year





API Tubing and Casing

- Outside Diameter, Wall Thickness and Weight Tolerances

ITEM			Tolerance
Outside Diameter	Pipe Body	D < 101.6mm	± 0.79mm
	Coupling	D ≥ 101.6mm	-0.5%OD - +1%OD
Wall Thickness			≥ 12.5%t
Weight	Single Length		-3.5% - +6.5%
	Carload Lots		≥ -1.75%

- Length

	R1	R2	R3
Casing	4.88 – 7.62m	7.62 – 10.36	10.36 – 14.63m
Tubing	6.10 – 7.32m	8.53 – 9.75	11.58 – 12.80m
Pup Joint	Carload Lots	0.5m – 6.0m	



API Tubing and Casing



□ Mechanical Properties

Grade	Yield Strength				Tensile Strength		Hardness		Allowable Hardness Variation
	min		Max		min		Max		
	psi	MPa	psi	MPa	psi	MPa	HRC	HBW	HRC
J55	55,000	379	80,000	552	75,000	517	—	—	—
K55	55,000	379	80,000	552	95,000	655	—	—	—
N80-1	80,000	552	110,000	758	100,000	689	—	—	—
N80-Q	80,000	552	110,000	758	100,000	689	—	—	—
R95	95,000	655	110,000	758	105,000	724	—	—	—
L80-1	80,000	552	95,000	655	95,000	655	23	241	—
C90	90,000	621	105,000	724	100,000	689	25.4	255	3.0
T95	95,000	655	110,000	758	105,000	724	25.4	255	3.0
C110	110,000	758	120,000	758	115,000	793	30	286	3.0
P110	110,000	758	140,000	965	125,000	862	—	—	—



API Tubing and Casing



● Size Description

No.	Outside Dia.		Wall Thickness		Type of end-finish	Grade	Type of Pipe
	inch	mm	inch	Mm			
1	4 ½	114.3	0.205	5.21	STC	J55, N80	ERW
2			0.224	5.69	STC, BTC	J55, N80Q	ERW
3			0.224	5.69	STC, BTC	J55, K55, N80, L80, P110	Seamless
4			0.25	6.35	STC, LTC, BTC	J55, N80Q	ERW
5			0.25	6.35	STC, LTC, BTC	J55, K55, N80, L80, P110	Seamless
6			0.29	7.37	LTC, BTC	J55, K55, N80, L80, P110	Seamless
7			0.337	8.56	LTC, BTC	J55, K55, N80, L80, P110	Seamless
8	5 ½	139.7	0.244	6.2	STC	J55, N80	ERW
9			0.275	6.98	STC, LTC, BTC	J55, N80	ERW
10			0.275	6.98	STC, LTC, BTC	J55, K55, N80, L80, P110	Seamless
11			0.304	7.72	STC, LTC, BTC	J55, N80	ERW
12			0.304	7.72	STC, LTC, BTC	J55, K55, N80, L80, P110	Seamless
13			0.361	9.17	LTC, BTC	J55, K55, N80, L80, P110	Seamless
14			0.415	10.54	LTC, BTC	J55, K55, N80, L80, P110	Seamless
15	7	177.8	0.231	5.87	STC	J55, N80	ERW
16			0.272	6.91	STC	J55, N80	ERW
17			0.317	8.05	STC, LTC, BTC	J55, N80	ERW
18			0.317	8.05	STC, LTC, BTC	J55, K55, N80, L80, P110	Seamless
19			0.362	9.19	STC, LTC, BTC	J55, N80	ERW
20	8	219.1	0.362	9.19	LTC, BTC	J55, K55, N80, L80, P110	Seamless
21			0.408	10.36	LTC, BTC	J55, K55, N80, L80, P110	Seamless
22			0.264	6.71	STC	J55	ERW
23			0.304	7.72	STC	J55	ERW
24			0.304	7.72	STC	J55, K55, N80, L80, P110	Seamless
25			0.352	8.94	STC, LTC, BTC	J55	ERW
26			0.352	8.94	STC, LTC, BTC	J55, K55, N80, L80, P110	Seamless
27			0.4	10.16	STC, LTC, BTC	J55	ERW
28			0.4	10.16	STC, LTC, BTC	J55, K55, N80, L80, P110	Seamless
29			0.45	11.43	LTC, BTC	J55, K55, N80, L80, P110	Seamless

No.	Outside Dia.		Wall Thickness		Type of end-finish	Grade	Type of Pipe
	inch	mm	inch	Mm			
30	9	244.5	0.312	7.92	STC	J55	ERW
31			0.352	8.94	STC, LTC, BTC	J55	ERW
32			0.352	8.94	STC, LTC, BTC	J55, K55, N80, L80, P110	Seamless
33			0.395	10.03	STC, LTC, BTC	J55	ERW
34			0.395	10.03	STC, LTC, BTC	J55, K55, N80, L80, P110	Seamless
35			0.435	11.05	STC, LTC, BTC	J55, K55, N80, L80, P110	Seamless
36			0.472	11.99	STC, LTC, BTC	J55, K55, N80, L80, P110	Seamless
37			10 ¾	273.1	0.279	7.09	STC
38	0.35	8.89			STC, BTC	J55	ERW
39	0.35	8.89			STC, BTC	J55, K55, N80, L80, P110	Seamless
40	0.4	10.16			STC, BTC	J55	ERW
41	0.4	10.16			STC, BTC	J55, K55, N80, L80, P110	Seamless
42	13 ¾	339.7	0.45	11.43	STC, BTC	J55, K55, N80, L80, P110	Seamless
43			0.33	8.38	STC	J55	ERW
44			0.38	9.65	STC, BTC	J55	ERW
45			0.38	9.65	STC, BTC	J55, K55, N80, L80	Seamless
46			0.43	10.92	STC, BTC	J55	ERW
47			0.43	10.92	STC, BTC	J55, K55, N80, L80	Seamless
48			0.48	12.19	STC, BTC	J55, K55, N80, L80	Seamless
49			0.514	13.06	STC, BTC	J55, K55, N80, L80	Seamless



Premium Connection Tubing And Casing

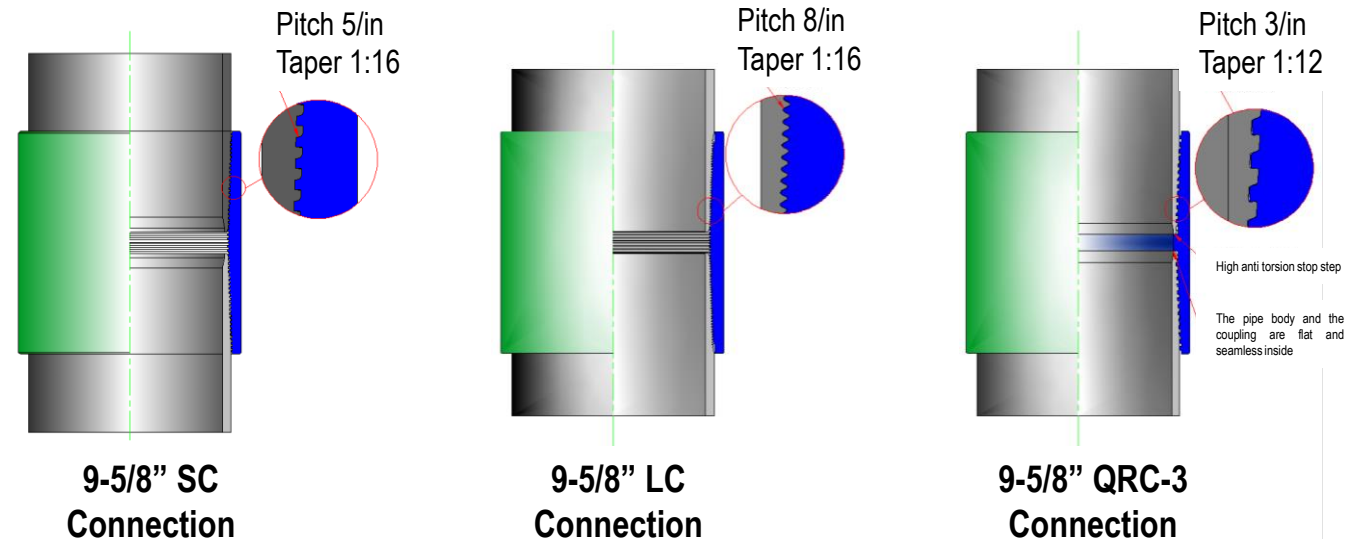
Quick Running Casing(QRC-3)

● Features

- ❖ 1) Large pitch;
- ❖ 2) Easy to buckle;
- ❖ 3) High antigalling;
- ❖ 4) High thread connection strength, large bearing ;
- ❖ 5) Easy to make up;
- ❖ 6) Simple operation high torque resistant performance;
- ❖ 7) Steamline design, decreased energy loss;



● Structural diagram of QRC-3, LC and SC





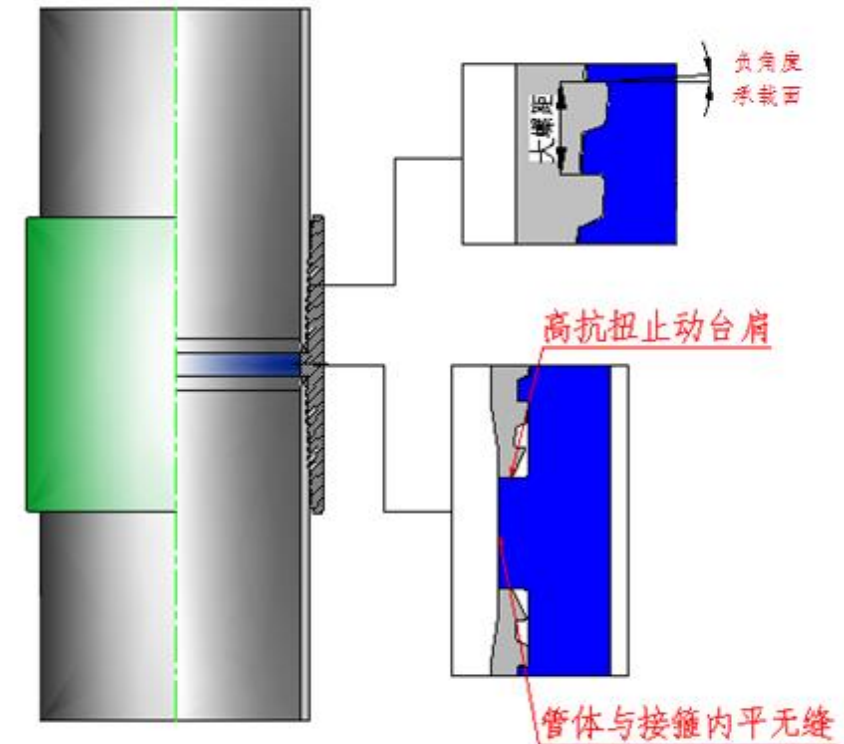
Premium Connection Tubing And Casing

❑ Casing Drill Casing (CDC)

● Features

- ❖ 1. High threading speed
- ❖ 2. large torque
- ❖ 3. High anti-collision
- ❖ 4. High threading connection strength
- ❖ 5. Good sealing capability
- ❖ 6. Easy to make up and high anti galling

● Structural diagram of CDC





Productive Facility



Mori Seiki



Thickening machine



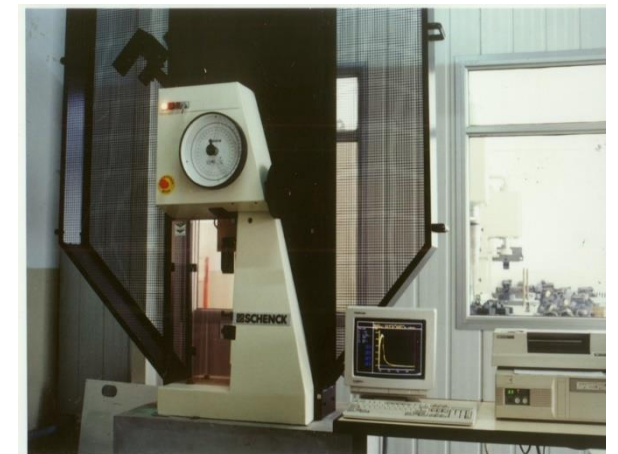
Production line



Threading machine



Tensile testing machine



Impact testing machine



Productive Facility



Intermediate frequency heat treatment production line

Weight and length measure



Hydrostatic testing





THANK YOU

- Tel: 592 696 2154
- E-mail: sales@arawakgulf.com