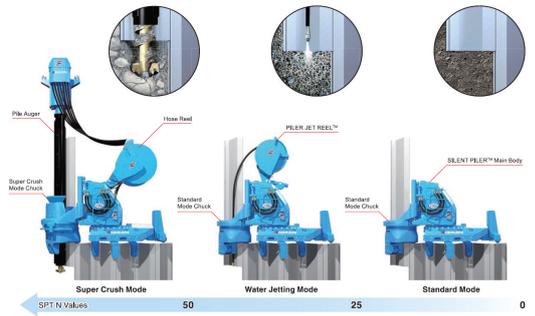




Giken Silent Piler F301

Optimising work efficiency with a modular design

The Silent Piler F301 adapts to Standard, Water Jetting, and Super Crush press-in works by changing the chuck, chuck-frame and attachments. The machine can be utilised more efficiently as it's adjustable to various soil and working conditions.



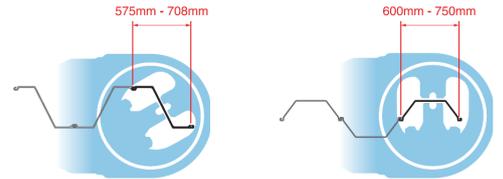
Pile installation into hard ground

Giken's original 'Pilot Coring Theory' enables the hard ground press-in method to install sheet piles into difficult ground conditions such as gravelly, cobble or boulder mixed soils without losing advantages. The augering area can be reduced to assist pile installation, minimising volume of spoil and disturbance to the soil strata, resulting in high bearing capacity for sheet piles installed by this method.



For wider Z and U sheet piles

The F301 has been designed to press-in Z piles to 708mm wide and U piles up to 750mm wide.



Low emission engine

The power unit of the F301 is a new generation model and has environmentally-friendly specifications. It is designed with strict concepts for clean emissions with high combustion efficiency and Giken original hydraulic control technologies.

Ultra low noise level

It clears allowable construction noise levels in many industrialised countries.

Standard application of bio-degradable oil

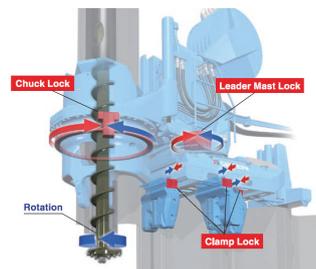
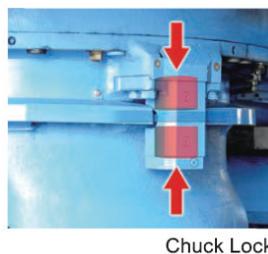
The F301 uses bio-degradable Piler Eco™ Oil and Piler Eco Grease. So, if hydraulic oil or grease is spilled into soil or water, there will be no environmental damage to the surrounding ecosystem. In addition, the machines are painted with TX-Free non-lead-based paint.

*Environmentally-friendly paint which doesn't contain toluene, xylene lead-based pigment.



Locking function

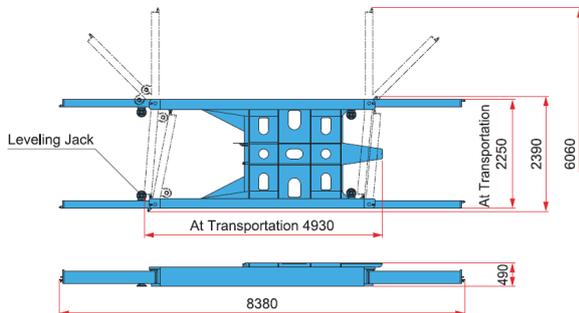
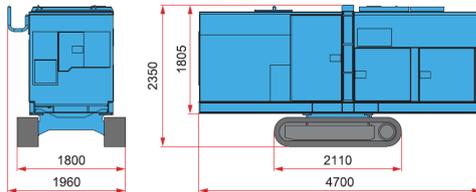
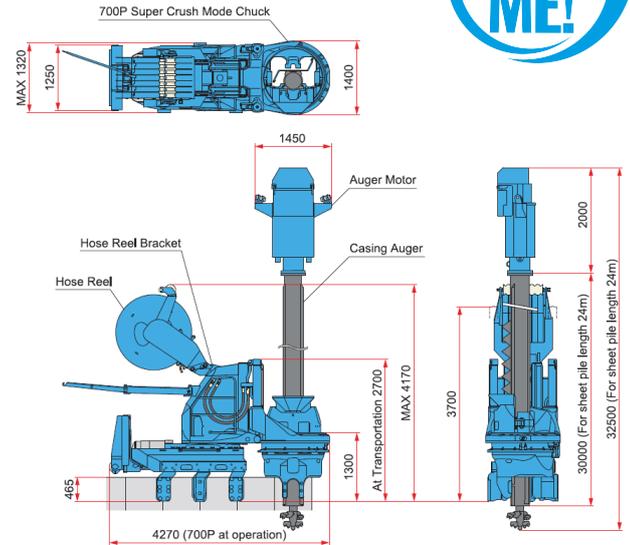
Lock functions in the leader mast, chuck and clamps secure the Silent Piler against drilling torque. Increasing drilling efficiency and accuracy of pile installation.





Supercrush mode F301 - Z sheet piles (575-708P), U sheet piles (600-750P)	
Maximum press-in force	800kN
Maximum extraction force	900kN
Stroke	850mm
Control system	Radio control
Movement	Self-moving
Mass	15,630kg (main body and hose reel)
Hose reel HR17D	
Mass (standard)	2,780kg (inc. hose reel bracket)
Piler auger PA22	
Applicable pile length (standard)	Maximum 24m (30m in special mode)
Mass	1,850kg (auger motor)

Pile lengths	Assembled length	Mass
10m	12.5m	6,750kg
12m	19.5m	7,650kg
16m	24.0m	9,050kg



Power unit EU300L5	
Power source	Diesel engine
Rated output	255kW / 1,800min ⁻¹
Fuel tank capacity	500L
Hydraulic reservoir	490L (Piler Eco™ Oil)
AdBlue®/DEF tank capacity	57L
Total mass	7,250kg
Reaction stand	
Mass	3,000kg
Area requirement	7x7m

Standard and water jet mode F301 - Z sheet piles (575-708P), U sheet piles (600-750P)	
Maximum press-in force	1,000kN
Maximum extraction force	1,200kN
Stroke	850mm
Press-in speed	2.0-43.5 m/min (standard mode)
Extraction speed	1.5-32.3 m/min (standard mode)
Control system	Radio control
Movement	Self-moving
Mass	12,520kg (water jetting mode - main body and piler jet reel) 11,700kg (standard mode - main body)
Piler Jet Reel™ JR28	
Applicable pile length	Standard 17.0m (maximum 27.0m)
Mass	820kg

