

# Sanwa Kizai Product

## Auger series

Sanwa Auger Consist of swivel integrated within the output shaft of the planetary gear transmission which is driven by one or two specially designed vertical electric motor, auger flight and head. This tool can bore holes in any type of soil, and even rock layers using heavy duty driving unite, auger flight and head.

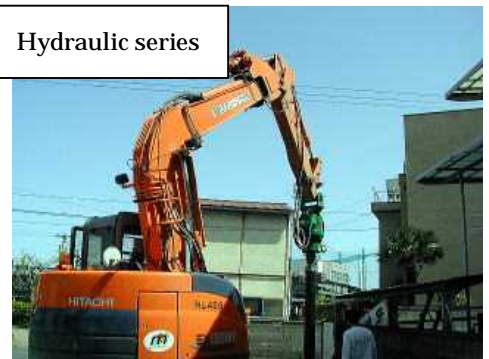


## Multiger series



Sanwa Multiger series has plural output shafts to apply for retaining wall and / or soil consolidation (stabilization) using agitating auger flight and head. In this works, cement slurry is injected to grout through swivel device in Multiger and hollow stem in agitating auger flight and head. Existing soil is mixed and agitated with slurry by means of agitating flights and head that are connected with plural output shafts of Multiger.

## Hydraulic series



Sanwa has Hydraulic Auger Series as well as electric ones. Main features of them are compact, light weight & variable rotation speed. Power source can be taken from engine equipped in basic machine subject to its capacity

## Doughnut series



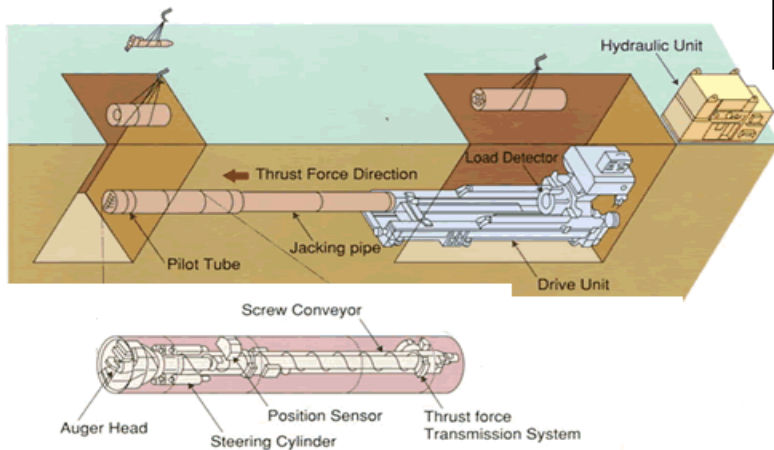
Sanwa Doughnut Auger Series are unique system to rotate casing (steel tube) and auger flight each opposite direction either by two separate auger driving unit or by one auger driving unit. The former we call Doughnut Auger and the latter we call Mono - Doughnut Auger. Selection depends job on application. This series are able to apply for offshore job also. One of new application of this series is to remove or to cut obstacles underground such as old piles, existing concrete construction, riprap layer of old wharf, etc with heavy - duty cutter bits on casing and auger head.



Rodam series



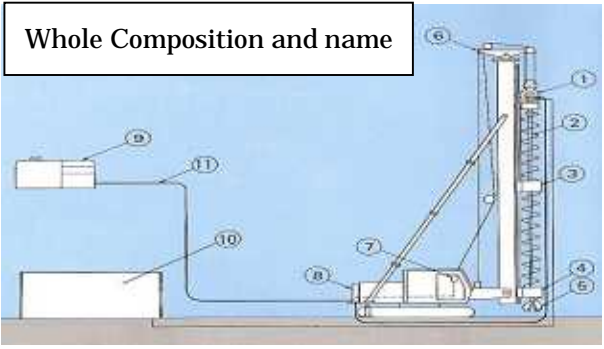
Sanwa Rodam Series are rotator of double casing 1000mm up to 2000mm. This series are applied for all casing cast - in place and removal or cutting obstacle underground as well as Sanwa Doughnut Augers. Soil inside of double casing is removed by hammer grab usually. We have Mini-Rodam of diameter ranging from 500 up to 800 also.



PIPE JACKING



PIPE JACKING to lay pipe underground proceeds in many big cities worldwide. Place where peoples live require Sewerage Treatment Plants to treat huge waste & Pipe jacking to lay many sizes of pipe to it from building & houses. SANWA PIPE JACKING MACHINE Series contribute those pipes laying underground with minimum disturbance of urban activities as well as with minimum public cost born by taxpayer.



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|-----------------------|--------------------|
| Auger Drive Unite     | Auger Flight       |
| sliding Auger Holder  | Fixed Auger Holder |
| Auger Head            | Catch Fork         |
| Remote control Box    | Remote Control Box |
| Electric Power Source | Grout Mixer Plant  |
| Cabtyre Cable         |                    |

Please note that some products may be subject to change due to continuous studies of design and performance.

**SANWA KIZAI CO., LTD.**

Head office  
 4-9, 2-Chome, Nihonbashi-kayaba Cho, Chuo-ku,  
 Tokyo, Japan  
 TEL (03)3667-8961 FAX (03)3666-7116  
 URL <http://www.sanwakizai.co.jp>  
 e-mail:sales2@sanwakizai.co.jp

080502-Y