

Robin guarantees
high performance;
characteristic descended
from SUBARU DNA



Robin DY engines

DY series

23-2D/B

27-2D/B

30D/B

35D/B

41D/B

42D/B

DY 30D/B and DY35D/B are
only available for stock items.



Air-cooled
Diesel Engine

Robin

Compact, Lightweight and Highly Efficient

DY series

DY27-2D
Output DIN6270NB
5.5 HP/4.0 kW
3600 r.p.m.

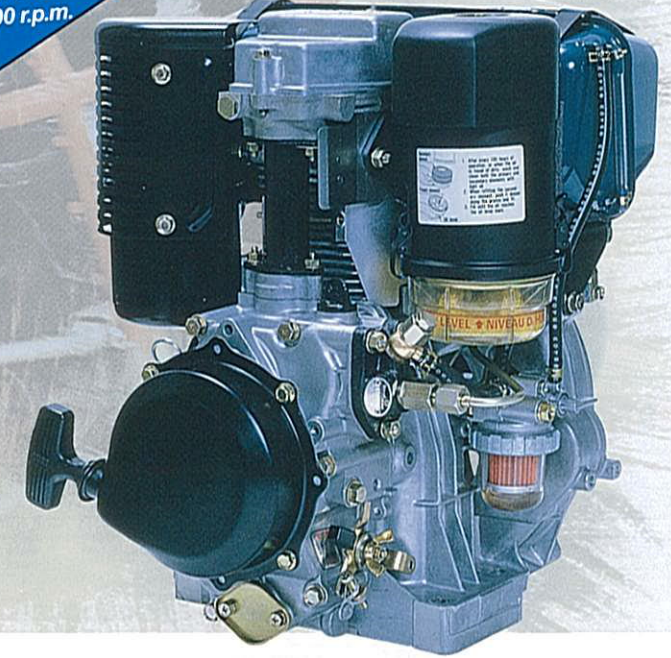


*More Power and Dependability
from Smaller, lighter and Quieter
Robin Air-cooled Diesel Engines*

DY30B
Output DIN6270NB
6.5 HP/4.8 kW
1750 r.p.m.



DY41D
Output DIN6270NB
8.5 HP/6.3 kW
3600 r.p.m.



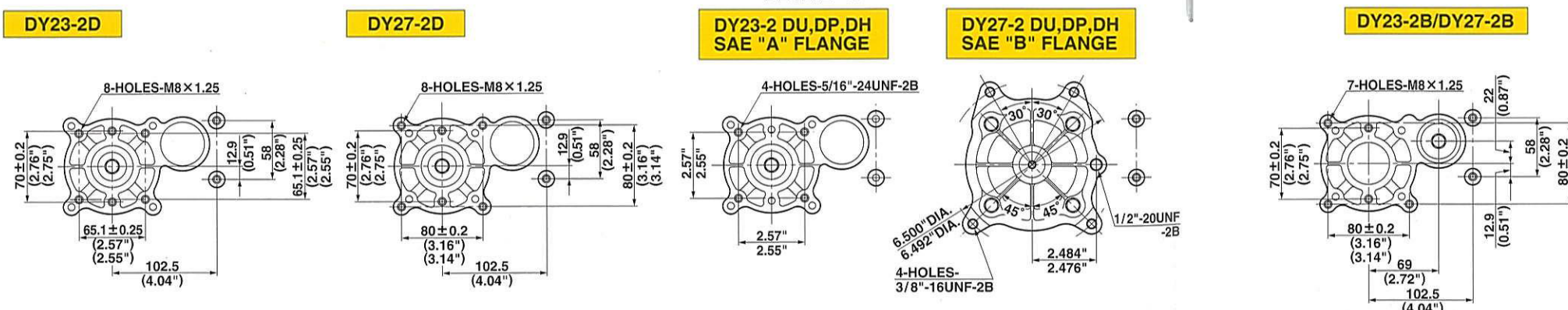
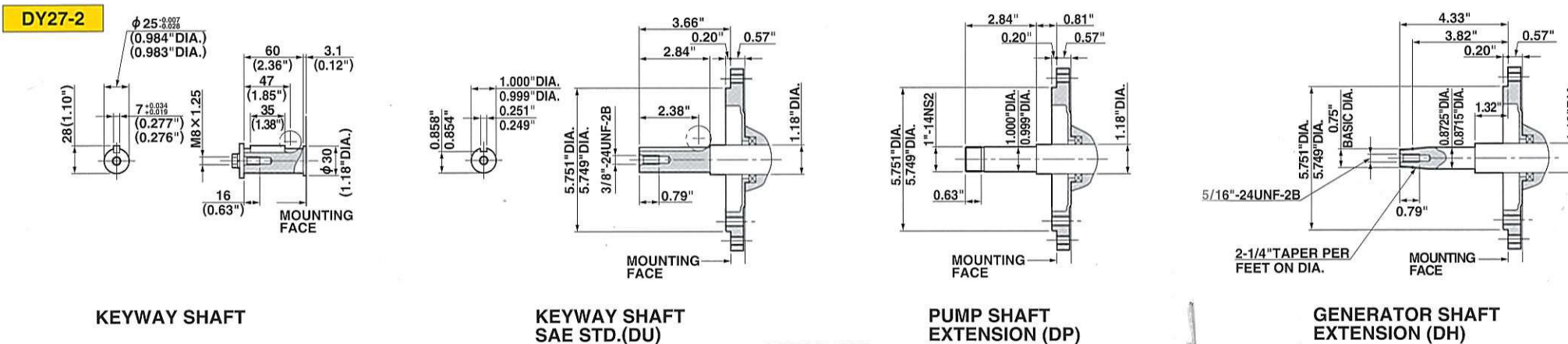
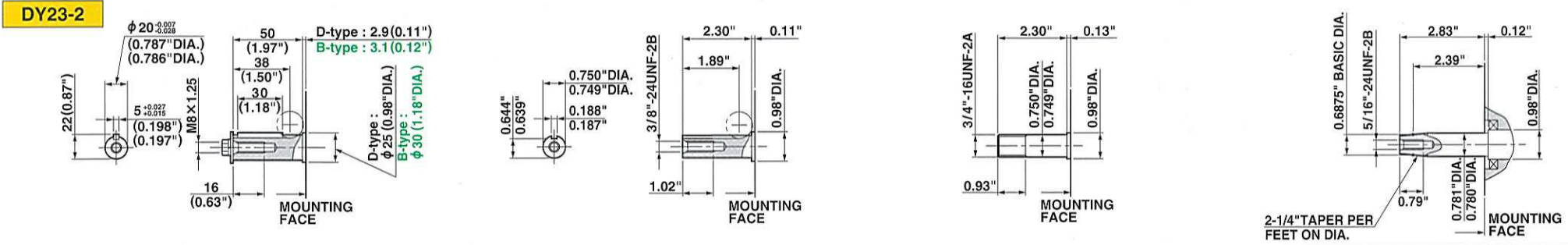
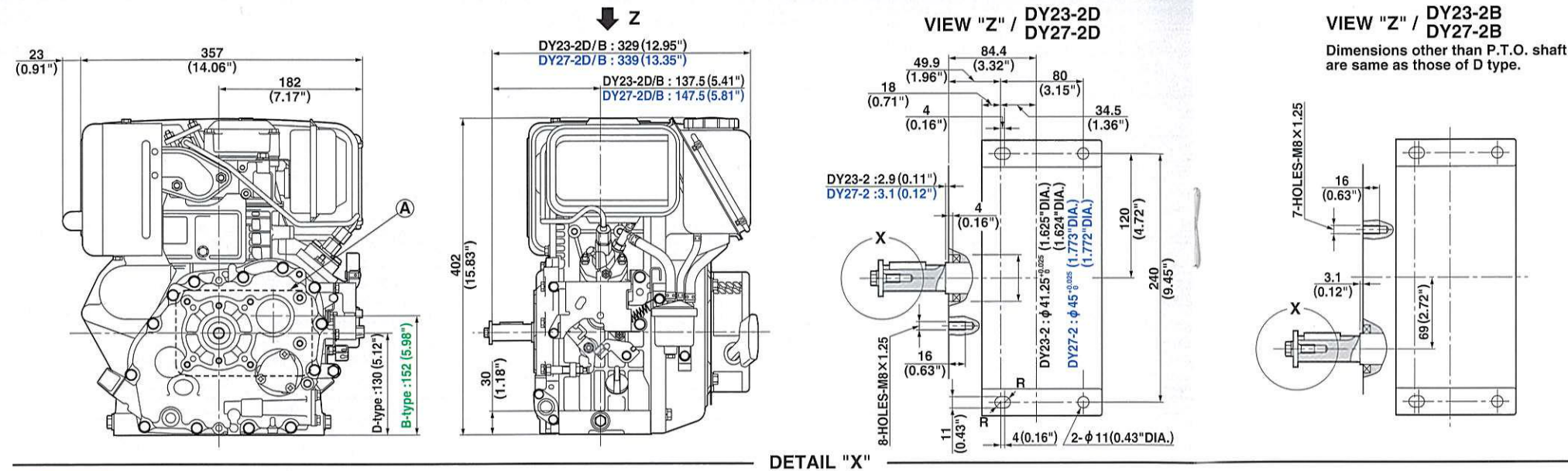
■ SPECIFICATIONS

MODEL	DY23-2D	DY23-2B	DY27-2D	DY27-2B	DY30D
Type	Air-cooled, 4-Cycle, Overhead valve, Single cylinder diesel engine				
Bore×Stroke <mm(in.)>	70×60 (2.75×2.36)		75×60 (2.95×2.36)		76×66 (2.99×2.60)
Piston displacement <cm³(CU.in.)>	230 (14.05)		265 (16.19)		299 (18.27)
Output DIN6270NA <HP(kW)/r.p.m.>	3.8 (2.8) /3000 4.2 (3.1) /3600	3.8 (2.8) /1500 4.2 (3.1) /1800	4.5 (3.3) /3000 5.0 (3.7) /3600	4.5 (3.3) /1500 5.0 (3.7) /1800	5.0 (3.7) /3000 5.5 (4.0) /3600
Output DIN6270NB <HP(kW)/r.p.m.>	4.3 (3.2) /3000 4.8 (3.5) /3600	4.3 (3.2) /1500 4.8 (3.5) /1800	5.0 (3.7) /3000 5.5 (4.0) /3600	5.0 (3.7) /1500 5.5 (4.0) /1800	6.0 (4.4) /3000 6.5 (4.8) /3600
Torque (DIN6270NB) (kgf·m(N·m)/r.p.m.)	1.07 (10.5) /2200	2.14 (21.0) /1100	1.23 (12.1) /2400	2.46 (24.1) /1200	1.55 (15.2) /2400
Direction of rotation	Counterclockwise as viewed from P.T.O. shaft side				
Type of reduction	—	1/2 Gear reduction	—	1/2 Gear reduction	—
Cooling system	Forced air by flywheel blower				
Lubrication	Forced by trochoid pump with full flow oil filter				
Lubricant	Diesel engine lubricating oil API classification CC or CD grade				
Lubricating oil capacity <L(U.S. gal)>	0.9 (0.24)				1.0 (0.26)
Injection pump	Bosch type PFR1MD				Bosch type PFR1KD
Injection nozzle	Bosch type hole nozzle				
Combustion system	Direct injection				
Fuel	Diesel light oil				
Fuel tank capacity <L(U.S. gal)>	3.2 (0.84)				4.5 (1.19)
Fuel feed	Gravity type				
Governor	Centrifugal flyweight type				
Starting system	Recoil starter (Electric starter as option)				
Speed control	Variable speed control (Standard), One touch speed control (Option)				
Compression release	Full automatic				
Lighting capacity	12V-30W (Option)				
Dry weight <kg(lbs)>	29(63.9)	29.5 (65.0)	29.5 (65.0)	30 (66.1)	37 (81.6)
Dimensions L×W×H <mm> <(in.)>	329×357×402 (12.95×14.05×15.82)		339×357×402 (13.35×14.05×15.82)		435×370×450 (17.13×14.57×17.72)

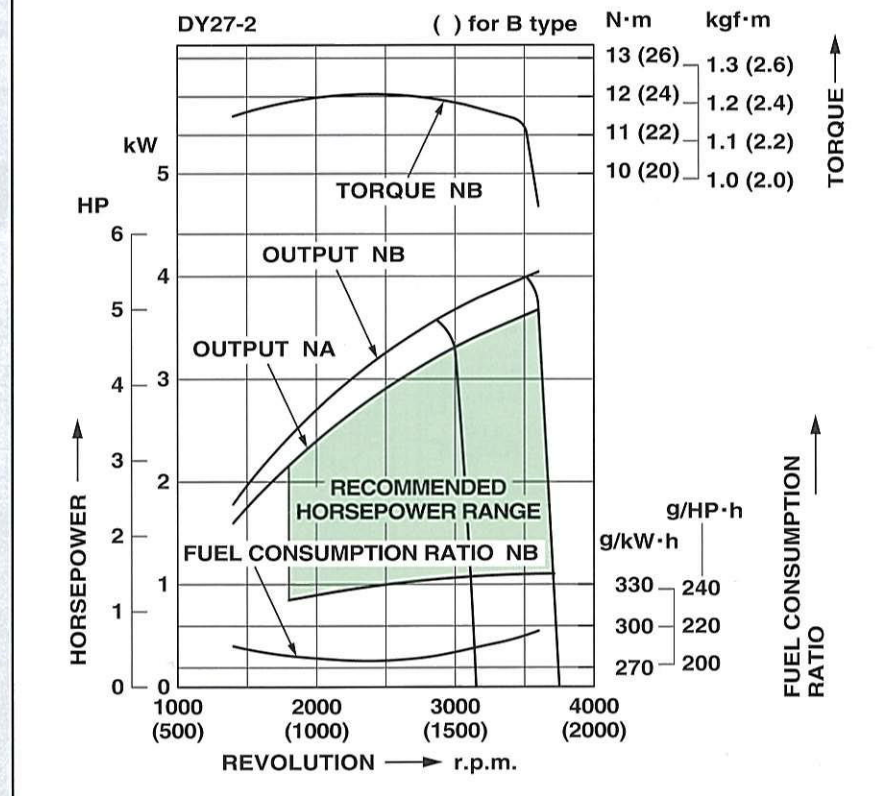
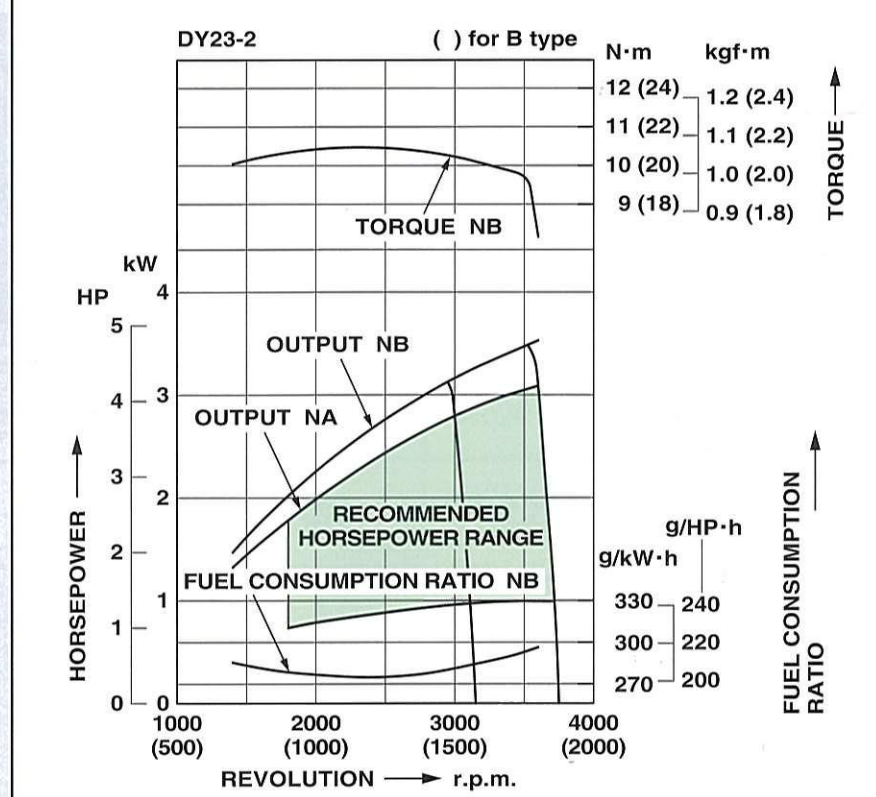
DY30B	DY35D	DY35B	DY41D	DY41B	DY42D	DY42B
Air-cooled, 4-Cycle, Overhead valve, Single cylinder diesel engine						
76×66 (2.99×2.60)		82×66 (3.23×2.60)		82×78 (3.23×3.07)		
299 (18.27)		348 (21.27)		412 (25.14)		
5.0 (3.7) /1450 5.5 (4.0) /1750	6.0 (4.4) /3000 6.5 (4.8) /3600	6.0 (4.4) /1450 6.5 (4.8) /1750	7.0 (5.2) /3000 7.5 (5.5) /3600	7.0 (5.2) /1450 7.5 (5.5) /1750	7.6 (5.7) /3000 8.5 (6.3) /3600	7.6 (5.7) /1450 8.5 (6.3) /1750
6.0 (4.4) /1450 6.5 (4.8) /1750	7.0 (5.2) /3000 7.5 (5.5) /3600	7.0 (5.2) /1450 7.5 (5.5) /1750	8.0 (6.0) /3000 8.5 (6.3) /3600	8.0 (6.0) /1450 8.5 (6.3) /1750	8.7 (6.5) /3000 9.4 (7.0) /3600	8.7 (6.5) /1450 9.4 (7.0) /1750
3.22 (31.6) /1160	1.75 (17.2) /2400	3.5 (34.3) /1160	2.01 (19.7) /2400	4.17 (40.9) /1160	2.22 (21.8) /2400	4.61 (45.2) /1160
Counterclockwise as viewed from P.T.O. shaft side						
1/2.077 Gear type	—	1/2.077 Gear type	—	1/2.077 Gear type	—	1/2.077 Gear type
Forced air by flywheel blower						
Forced by trochoid pump with full flow oil filter						
Diesel engine lubricating oil API classification CC or CD grade						
1.0 (0.26)			1.1 (0.29)			
Bosch type PFR1KD				Bosch type PFR1KX		
Bosch type hole nozzle						
Direct injection						
Diesel light oil						
4.5 (1.19)						
Gravity type						
Centrifugal flyweight type						
Recoil starter (Electric starter as option)						
Variable speed control (Standard), One touch speed control (Option)						
Full automatic						
12V-30W (Option)						
43 (94.8) 497×370×450 (19.57×14.57×17.72)	37 (81.6) 435×370×450 (17.13×14.57×17.72)	43 (94.8) 497×370×450 (19.57×14.57×17.72)	46 (101.4) 435×370×478 (17.13×14.57×18.82)	52 (114.6) 497×370×478 (19.57×14.57×18.82)	47 (103.6) 435×394×478 (17.13×15.51×18.82)	53 (116.8) 497×394×478 (19.57×15.51×18.82)

Specifications are subject to change without notice.

DIMENSIONS



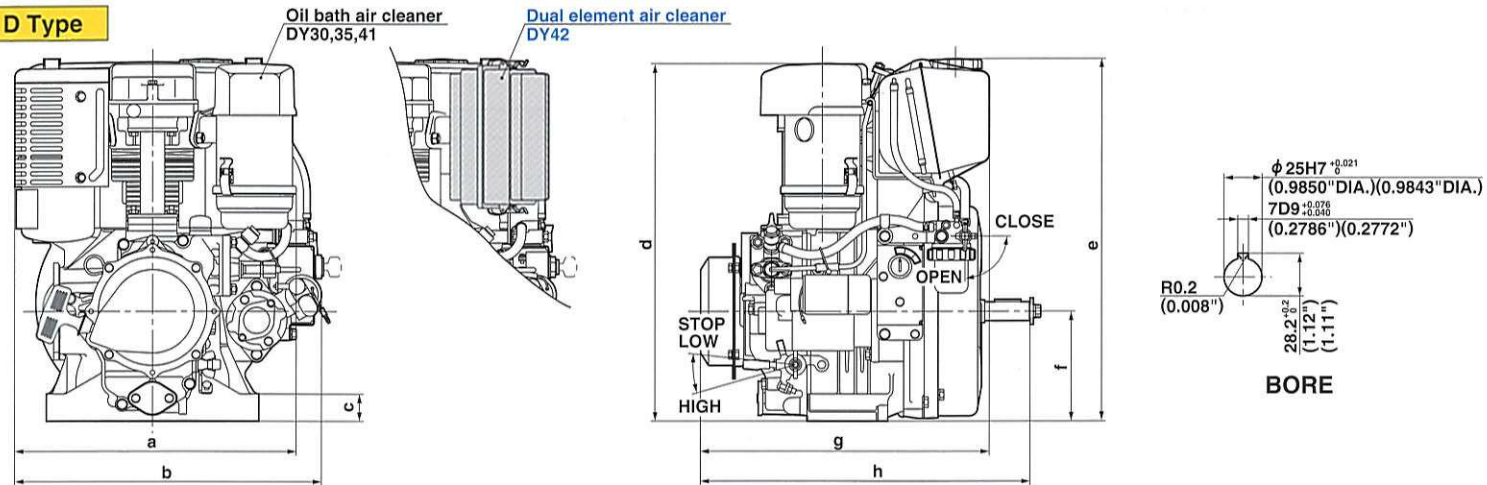
PERFORMANCE CURVE



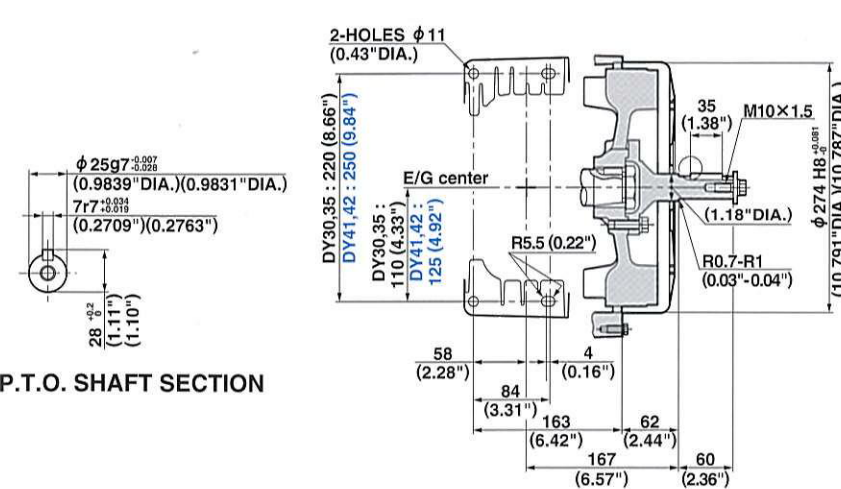
Specifications are subject to change without notice.

DIMENSIONS

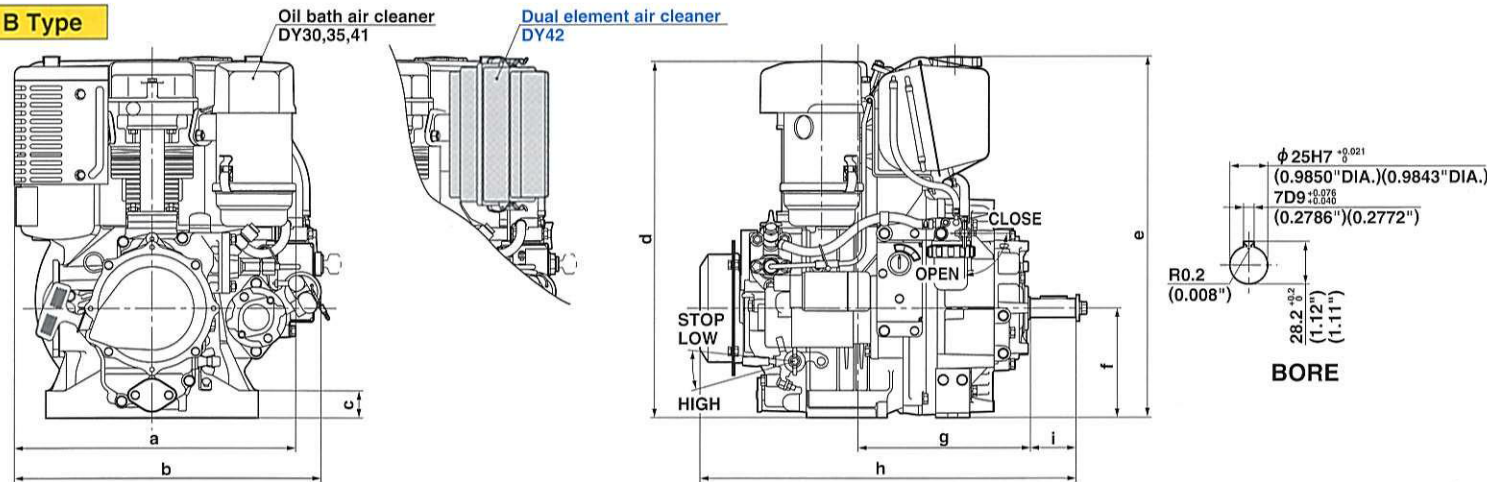
D Type



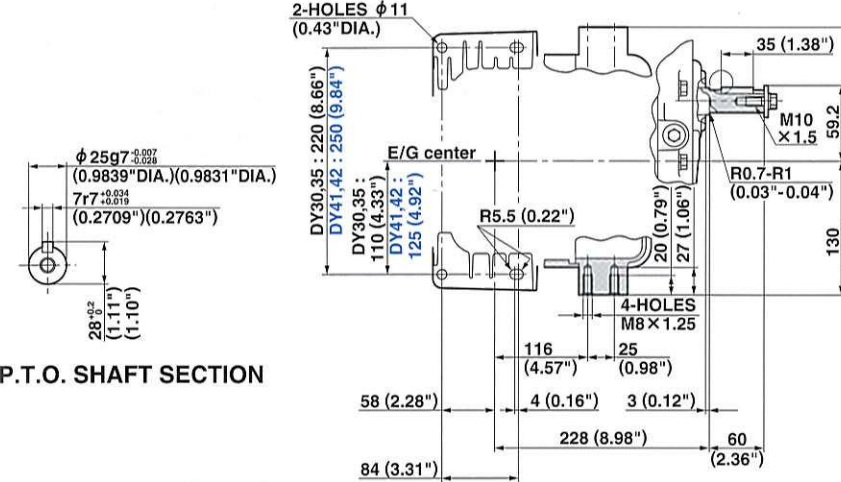
P.T.O. SHAFT SECTION



B Type



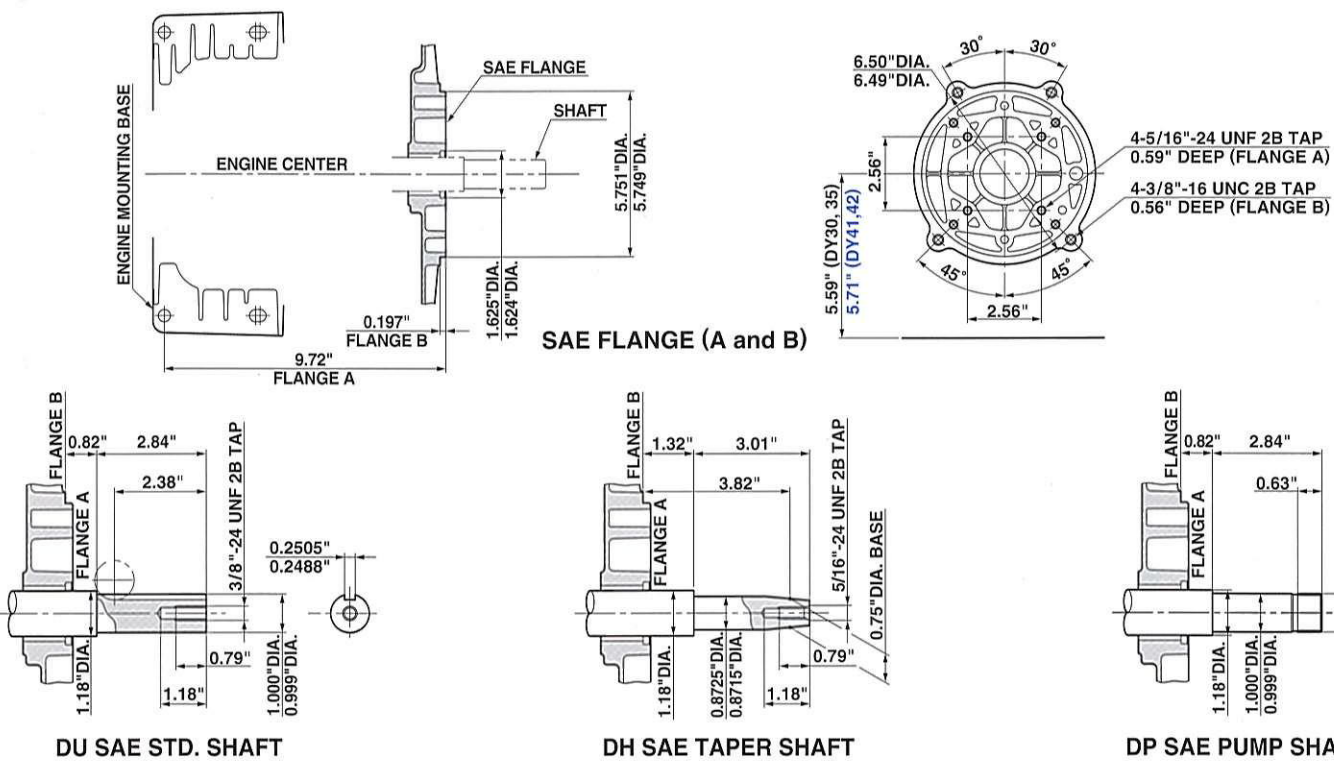
P.T.O. SHAFT SECTION



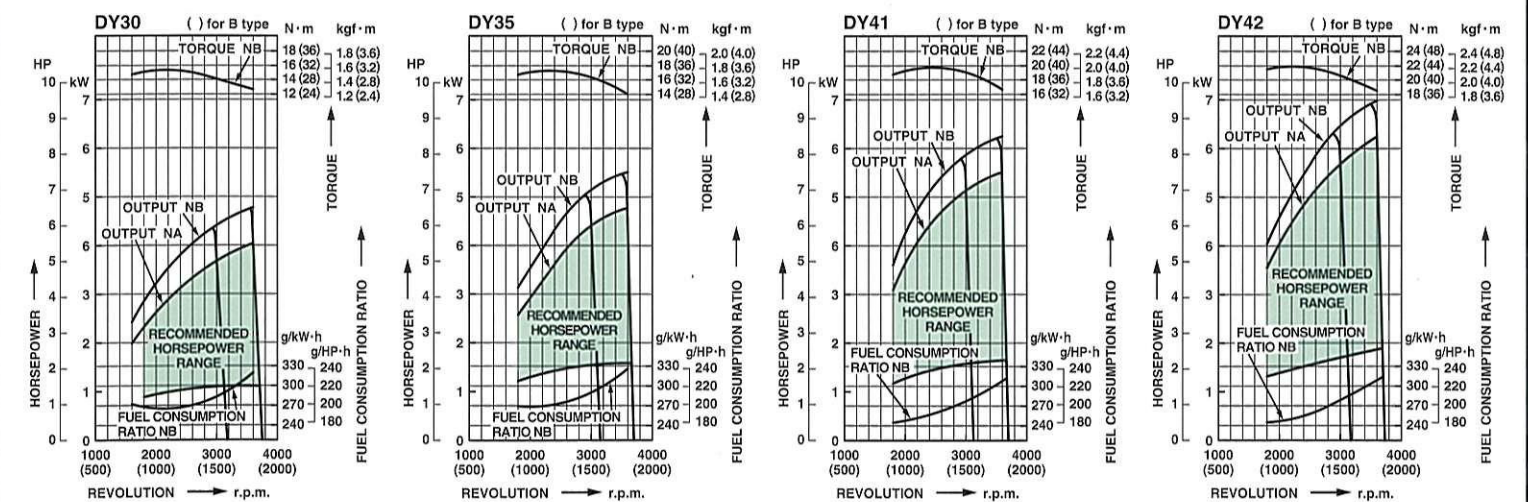
DIMENSIONS

Model	DY30/35 Oil bath air cleaner		DY41 Oil bath air cleaner		DY42 Dual element air cleaner	
	D	B	D	B	D	B
a	370 (14.57") Recoil starter (Standard)		370 (14.57") Recoil starter (Standard)		394 (15.51") Recoil starter (Standard)	
b	404 (15.91") Electric starter (Option)		404 (15.91") Electric starter (Option)		404 (15.91") Electric starter (Option)	
c	35 (1.38")		36 (1.42")		36 (1.42")	
d	443 (17.44")		472 (18.58")		479 (18.86")	
e	450 (17.72")		478 (18.82")		478 (18.82")	
f	142 (5.59")		145 (5.71")		145 (5.71")	
g	382 (15.04")	228 (8.98")	382 (15.04")	228 (8.98")	382 (15.04")	228 (8.98")
h	435 (17.13")	497 (19.57")	435 (17.13")	497 (19.57")	435 (17.13")	497 (19.57")
i	-	60 (2.36")	-	60 (2.36")	-	60 (2.36")

Starting system : Recoil starter (Standard), Electric starter (Option)



PERFORMANCE CURVE



FEATURES

DY23-2D/B, 27-2D/B

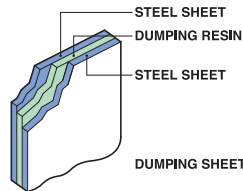
SMALL AND LIGHTWEIGHT

The newly developed micro fuel injection pump and crankcase structure originated in the gasoline engine have minimized the size and weight of the engine.



EXTREMELY QUIET OPERATION

- Blower housing is made from "DUMPING SHEET" a special material for insulating noise and vibration.
- Larger super silent muffler and silent double element air cleaner reduce the exhaust and intake noise.



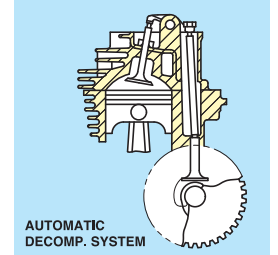
HIGH PERFORMANCE

Diecast cylinder head generates a stable swirl of air-fuel mixture which results in the high output power and an exceptional fuel economy.



LESS VIBRATION

- In addition to the reduced weight of reciprocating parts, a balancer shaft has been adopted for extremely smooth running with less vibration.
- The automatic decompressor prevents shaky vibrations at stopping.



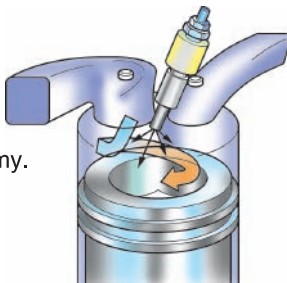
DY30D/B, 35D/B, 41D/B, 42D/B

SUPERB RELIABILITY

This air-cooled diesel engine series incorporates advanced Robin technology. The series has already earned a high reputation for heavy-duty, long-life service under the toughest operating conditions.

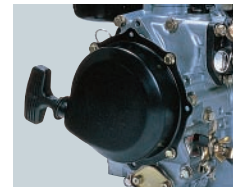
ECONOMICAL OPERATION

The direct fuel injection system provides exceptional fuel economy.

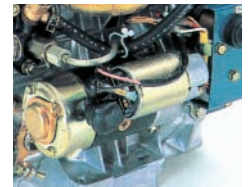


EASY STARTING

The recoil starter and the automatic decompressor guarantee quick, sure starting. For even greater starting speed and ease, an optional electric starter can be factory-installed.



Recoil starter



Electric starter

LESS VIBRATION

Low reciprocating weight minimizes vibration for smooth operation. An optional factory-installed dynamic balancer is available to lower vibration even further.



COMPACT AND LIGHTWEIGHT

Robin diesel engines are as compact and lightweight as air-cooled gasoline engines. That means easy handling and ready adaptation to any application.

WIDE RANGE APPLICATIONS

Robin's high-performance diesel engine series features two basic types, for high and low-speed applications, and an extensive array of optional parts/configurations. This assures maximum adaptability.

REMARKS

1. When the mounting equipment is directly coupled with the engine at the fan side, a cooling air intake of 50 cm² or larger is required. Contact your distributor for more information.
2. Use 12V-35AH or larger capacity of battery.
3. Specify engine r.p.m. when you place an order.



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